



**University of Management
and Technology**



Welcome to the
University of Management and Technology

Gateway to the Knowledge Cosmos

UMT has a dream to follow and a destiny to share. People, learners and leaders, from 5 continents across the globe, 28 countries of the world, and 68 districts of Pakistan have already joined hands. We invite you to participate in our programs and activities. Be a part of this exciting life-long voyage of learning for leadership, and bring the destiny closer.

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Our Vision.... Learning

It defines our existence,
inspires all stakeholders associated with us,
creates a powerful momentum inside,
and responds to the challenges outside.

It continues to evolve
as present captures new realities
and foresight unfolds new possibilities,
all in an incessant attempt to help
individuals and organizations
discover their God-given potentials to achieve
Ultimate Success actualizing the highest
standards of efficiency, effectiveness,
excellence, equity, trusteeship
and sustainable development of
global human society.

Your Host City

'Lahore is Lahore'

Pakistan's traditional, cultural, social, educational, commercial, political, and artistic capital, Lahore is an ancient city as its history dates back to 630 AD. Lahore metropolitan is the second largest city of Pakistan with a population of nearly 8.0 million.

As a cosmopolitan city, where people of different nationalities are seen, Lahore combines the life styles of the East and West and presents a lively blend of old and new styles and patterns of life.

Lahore is the city of poets, scholars, artists, journalists, sportsmen, and the center of the film industry. It is the most-visited city in Pakistan that features a wide variety of attractions.

Also known as the city of colleges, with a number of famous libraries, universities and schools, Lahore is home to a great many monuments, some fine colonial buildings of the British Era, plenty of "Moghul Gothic", as well as some shady bungalows and famous gardens. With the most splendid of Mughal art and architecture, Lahore offers a real feat to the eyes of the visitors.

Lahore has acquired a distinctive position as a hub of industrial growth in almost all fields. Two hours of drive can lead to emerging clusters in Sialkot, Faisalabad, Gujranwala, Gujrat, Kasur and Sheikhpura.

This gives a unique advantage to the faculty members, who undertake research in real world issues, and to the participants who achieve better placement or run successful business.

Join us to be great



Why shouldn't you be Great? Even better? Why are you not great? How can you be great? Almost all humans can easily claim to be good, but only a few dream of becoming great, and a very few actually achieve true greatness. Why?

The greatest loss that can happen to a person is the lack of ambition to become great. That is human potential gone unchecked, unharnessed. Then comes the loss of those who become casualties in search of greatness. This is different from failure on the road to become great which turns into only another learning opportunity. Imagine how great a human being can be? How noble and valuable a human being can be? How purposeful and productive? How creative and zestful? How unique and beautiful? How trustworthy and sincere? How crystalline and logical? How passionate and awesome?

The University of Management and Technology is here to help you to become great, truly exceptional. The resource persons act first as learners and then let the participants turn into their leaders. There are many good institutions around. Trace the road of the one that can launch you to the orbit of greatness. The one interested in you developing as a whole, a full person, capable of submerging the macrocosm in the microcosm of the self, and defining excellence and refining attributes to the extent that they mirror the pleasure, love, and blessing of Allah. Select an institution that will help you reform your attitude, enlighten your mindset, build your knowledge, develop your application, refine your character, and sharpen your practice. You walk in with the power of intention. You go out with the portfolio of all that it takes to achieve success here and the ultimate success in the hereafter. Beyond the degree, what determines your future is your invaluable treasure of self-image, enriched and enlightened, driven to life-long learning. Your future is your family's future, your nation's future, your Ummah's future, and your world's future. Infinite possibilities and endless vistas at UMT draw your attention to your own selves and demand that you give to yourself what it deserves the most. Greatness. Help us make you Great!

Dr Hasan Sohaib Murad
Rector

Our Mission.... Leading

We aspire to become
a learning institution and evolve as
the leading community
for the purpose of integrated development
of the society by
actualizing strategic partnership
with stakeholders,
harnessing leadership,
generating useful knowledge,
fostering enduring values,
and projecting sustainable technologies
and practices.

Defining our Destiny

Learning, Values

As a forerunner of education and training on leadership, UMT emphasizes so much on leadership, people argue. Pakistani nation faces massive problems in all walks of life. Only leaders with virtue and vision can lead us out of this bog back to the high ground. With a bold agenda for national development, UMT develops workforce and activates learning for leadership. Leadership is generally viewed as a gift of God, a state of birth, and a privilege of those at the top. UMT promotes leadership as a state of development of human potential and a qualitative index of appreciation of total capital of knowledge, competence, and attitude. Leadership behavior is independent of the hierarchical status. It demonstrates itself in an incessant urge to be the first, to be the best, and to be on the top. Leaders are self-directed, self-managed. They relate future with the present and capitalize on the past. They are able to outclass others through their excellent performance. They succeed by learning from failures. They engineer human behavior, shape human destiny. Education, especially at the higher level, has never been a value-free pursuit. It originates from national history, captures the nation's ideals, reinforces shared beliefs and values, and builds the edifice of human character. Education without purpose and value content is neither possible nor beneficial. Often, the confusion in the destiny of a nation is an outgrowth of distortion of the value content of the educational system. UMT enjoys a unique reputation in blending modern thought with the beliefs and value system for the fulfillment of our priorities as a nation. UMT programs are embedded in the goals and ideology of the Pakistani nation. These aim at building national character in view of the teachings of the Holy Quran and Seerah of Holy Prophet, Muhammad (SAW).

Life, Leadership

The art of leadership and management has evolved as a distinctive branch of knowledge in the recent decades. In the corporate world, it has become the most valued asset replacing land, capital or technology. In the academic world, the study of leadership is rapidly becoming an integral part of the curriculum of business administration, human sciences, engineering and technology. UMT programs are based on the heritage of leadership and innovation. This is an institutional world. Everybody belongs to numerous organized set-ups, by choice or by design. Individual interests and institutional activities are enmeshed. What we do in organizations determines what we are. Our ability to work for organizations is important to realize what we want to be. The beliefs, value system, goals, aspirations, culture, and traditions all become meaningful only to the extent that organizations have competent leaders. In the present epoch, giant multinational organizations and their dynamic leadership have fabricated global web of products and services, achieved stunning technological breakthroughs, hurled satellites millions of miles away in space, and changed the life of people through monumental projects. Put simply: organizations, run by leaders, can achieve what is otherwise beyond the scope of individuals. Leaders and managers run organizations and provide services and goods to the society. To that end, they set goals, challenge risks, mobilize resources, interpret information, reduce uncertainty, network stakeholders, enact structures, initiate processes, craft strategy, lead people, and influence the macro-societal forces. The character and destiny of human beings, their happiness and progress, both individual and societal, depends upon the way organizations are led. In this backdrop, with a clear bias toward societal responsibility, UMT aims to network individuals and organizations.

Self-ownership, Renaissance

We believe that the new generation wants to get on with the task of future building. The people are conscious of what has happened in the previous decades. They understand that chances are limited and the risks are high. We are their partners in their struggle to lead the nation in the present millennium. We invite people to discover and own their potential to achieve leadership quality in life. Only then, we can discharge our obligations to the One who entrusted us with what we have. From labor to foremen to first line supervisors to middle managers to senior managers to top executives, the kind of leadership behavior that we promote can be very effective irrespective of the level of qualification. We aim at developing leadership quality among all of our participants regardless of the type of program. This is our ideology, our unique edge, and it continues to be our hallmark, at all levels, and for all times. This is our idea, image, and identity; our impact, contribution, and return; our obsession, profession, and passion.

Leadership, leadership, leadership!!

Strategic Resolutions: The Driving Force

*Recite, In the Name of thy Lord who created, created Man of a blood clot.
Recite, and thy Lord is the Most Generous, who taught by the Pen,
taught Man that he knew not. (Al-Quran)*

Unlike business or other social organizations, the institution of universities is deeply embedded in the thoughts of the founders and conceptual framework governing its formation and evolution. The context of human civilization, the national vision for development of the future, and pursuits and expectations of the stakeholders play significant role in shaping the core ideas behind the enterprise of the university. As a matter of fact, a university is always more firmly rooted as a conceptual entity rather than a temporal figure as evidenced in reality which is always subject to the twin process of alignment and improvement. The institution of university is a complex web of organizational entities originating from the past and present and aiming at transforming the future. It is important, as such for the faculty and students, to raise questions and seek information about the philosophy and ethos of the institution before joining it. The following text explicates the ideas behind UMT. We seek individuals as students and faculty to join us in pursuit of these ideas.

In pursuance of the First Revelation of Allah the Almighty to His last Messenger Muhammad (pbuh), quoted above, UMT commits itself to the noble task of dissemination of knowledge and development of human beings capable of undertaking divine responsibilities ensuing from their distinguished position as vicegerents of God in this universe. More specifically, the following strategic and tactical resolutions act as a driving force in the making of UMT, development of faculty, participants, and stakeholders, and initiation and transformation of educational programs.

- To consider nothing but Truth and Justice as the guiding value as well as the ultimate destiny towards shaping the overall functions of UMT as a hub of knowledge advancement. Truth and justice are the two divine values which invoke universal convergence and harmony, always upheld by fostering the convergence of humanity. They represent the most important driving force influencing the rise and fall of nations, communities, and organizations as well as success and failure of individuals. The mission of learning relates to truth while the vision of leading relates to justice.
- To commit itself to the goal of service to knowledge and wisdom and maximize access to its sources without any bias or prejudice, to ensure dissemination of knowledge employing all possible ways and means, and to advance knowledge through research and development.
- To acquire knowledge about purpose and function of the Nature and Universe and all its elements and constituents and thereby also identify the role and responsibility of humanity and understand the evolving nature of the relationship between human beings and their changing universe.
- To continuously explore the best course of action, collective as well as individual, overall or sectoral, in building the edifice of human life in all spheres and translate it into empowered people, meaningful purpose, effective policy, efficient processes, and enabling projects.
- To create a vibrant community of learners and the learned consisting of people and institutions who are, have been, or could be linked formally or informally, directly or indirectly,

fully or partly, virtual or real_ where quest for information, knowledge, and wisdom will reign supreme and where knowledge will be shared openly and freely to enhance learning of all involved.

- To contribute in developing management sciences, human sciences, social sciences, physical sciences, and natural sciences as well as all forms of engineering and technology for the benefit of humanity and integral and sustainable development of the global human society, the Muslim Ummah, and Pakistan and their array of institutions with the specific aims of achieving selfreliance, enabling people and institutions to serve better, increasing the quality of life, alleviating poverty, and making the world a better place to live for future generations.
- To adopt a holistic, eternal, and total view of the human society and human life as envisaged by the Creator and His Messenger (pbuh) fostering borderless view of the knowledge scape in all dimensions, internal as well external, and enabling us to take into consideration the dynamics of all kinds of relationships among various facets in variety of layers given multitude of approaches.
- To engage into high end scholarly pursuits resulting into development of an intellectual capital base, unparalleled and unique, which originates from the sources, traditional as well as modern, encapsulates the reality of present and enmeshes past and finally envisions the emergence of future.
- To revive consciousness of the supreme objective of competing for the quintessential role of leadership and to facilitate development of the high class character of leadership moulded in the cast of creative service to humanity and integral servitude to the All-sovereign while dedicated to the incessant pursuit of excellence and unflinching adherence to the norms of trust and truth.
- To emphasize, discover and command future-oriented and knowledge-intensive technologies to gain optimum benefit from the regenerative utilization of the resources entrusted to humanity to build a world which is ecologically friendly and sustainable.
- To serve as a reliable mean for the development of professional and management competence to undertake work at world class level aiming at setting new standards, and to become a training laboratory for providing hands-on capability to design, develop, and implement the projects, conduct operations, carry out tasks of various scale and degree of complexity for achieving goals and objectives at individual and collective levels to the satisfaction of stakeholders.
- To inspire and guide youth as they determine the most important goals to live for, as they choose the best way to live, and as they decide upon their future career and life so that this infinitely appreciable base of human resources achieves its best by doing the most it can as a meaningful and productive member of the society.
- To measure all activities in view of contribution to the most immediate context of the development of Pakistan as a self-reliant country free of exploitation and capable of shouldering its responsibilities in the world community while producing all goods and services it possibly could, given its resources and challenges.
- To identify emerging stakeholders as functions of the university increase and its domains of services diversify, and maintain effective liaison with the stakeholders in associated fields such

as trade, industry, government, and international institutions to jointly explore and fulfill mutually beneficial ways of collaboration.

- To act as a dedicated and open-ended platform for conduct of dialogue and discourse, discussion and deliberation to generate understanding and create opportunities for sharing mindset and perspectives on the emerging challenges and issues of national as well as global significance.
- To contribute towards the overall uplift and integrated progress of Pakistan, its regional neighbors, the Muslim Ummah, and the humanity at large so that UMT becomes a beacon of hope, a place of clarity, a post of intellectual enrichment, and a pole of direction.
- To employ the cutting-edge pedagogical methodologies capitalizing upon the innate abilities and natural essence; proactively, launch experimentation, and initiate systematic innovation to maximize objectives of whole-person learning engaging all facets and factors: environmental, institutional, cultural, curricular, structural, systemic, and strategic_developing life-long capacity for self-direction towards self-renewal, thereby creating an effective learning process and conducive environment.
- To recognize excellence, acknowledge worthy contributions, and reward achievements to channel constructive and creative potential of within and outside the UMT community.
- To actively interact with universities and other institutions, organizations, centers, agencies, associations, forums for mutually beneficial linkages and meaningful relationships at national and international level to strengthen the functions and operations of UMT.
- To offer innovative programs beyond the scope of traditional programs not only meeting the essential requirements of accreditation agencies but also extending the frontiers through innovation keeping in view the emerging demands, knowledge applications, employment opportunities, and blending management expertise and technological prowess.
- To undertake and contribute to all forms of the creation, development, management and dissemination of knowledge by engaging into multiple platforms such as higher learning, education, training, research, counseling, publishing, media, informal learning, and consulting for the achievement of goals and objectives.
- To develop a versatile base of quality resource persons, who may be full-time as well part-time but devoted to teaching as whole time; capable of drawing from traditional as well as contemporary sources, motivating the participants to excel, and as embodiment of sincerity lead them to devotion and struggle for the cause of knowledge and develop in them, in turn, teachers who can make leaders_crystallizing as catalyst in the eventual transformation of human destiny.
- To adopt and promote traditions, values, and practices conducive for the promotion of research and development. To undertake applied research in various fields of studies, publish articles, books and periodicals, and create course materials for the dissemination of knowledge at a wider level.
- To provide consulting and offer solutions to the government and industry for its revival and thereby contribute in achieving the national objective of economic growth and self-reliance.

- To communicate to the participants that they should constantly develop themselves as human beings and also induce among participants the eagerness to develop other human beings, especially with whom they interact frequently.
- To encourage the natural application of intellect, intuition, and experience, and emphasize utilization of self-learning faculties.
- To ensure a successful future of the participants by developing their pro learning attitude, critical thinking, grasp of knowledge, applied skills, and human skills and position, project, and place them in terms of fulfillment of their career aspirations.
- To instill among participants and faculty an incessant urge to commit themselves to the highest level of professional morality and personal integrity beyond any compromise and doubt remaining constantly aware of the moral foundations of decision-making and ethical sensibility in strategic formulations.
- To facilitate the participants, faculty, and staff successfully cultivate the avenues of rizq-e-halal for themselves and others, seizing the opportunities for everlasting rewards and long lasting earnings.
- To equip the participants with necessary entrepreneurial skills and expertise required for initiating new ventures and facilitate them in embarking upon the road to self-employment contributing to utilization of resources, creation of wealth, and generation of employment.
- To make UMT programs and offerings accessible and affordable to all by customizing logistics, providing flexibility, and extending support within means to the competitive and deserving.
- To maximize rewards for all those who contribute towards the objectives of UMT, with benefits and compensation reflective of their performance and promise as well as needs so that people consider UMT as the preferred place and remain motivated to give their best while organization take care of the rest.

May Allah grant us the courage to achieve this, the serenity to overcome any obstacle, the wisdom to grow, so we make this a knowledge enterprise in fulfillment of the knowledge endowed to us by the One Who is the Knowledge. Amin.

Blazing New Pathways to Learning for Leadership

Why UMT?

UMT Themes, Your Act

Why was UMT established should also highlight why you must join UMT as faculty or student. The enterprise of UMT coalesce around the following themes and thoughts. If your heart and mind also converge on these lines, then UMT is a platform for fulfillment of your dreams. Your destiny would come close faster.

Higher Learning

Great Quaid, Great Nation

Economic growth is possible only to the extent that human resources are competent to meet the developmental requirements. How can we progress and lead as a nation if not every one of us is able to develop and lead? Pakistan is facing acute shortage of professional workforce. The shift from physical capital to a more inclusive concept of human capital, as the key factor enhancing the productive capacity, is still not fully reflected in our educational policies and projects. The progressive societies and successful organizations systematically work on the supply and development of the skills of tomorrow's leaders and managers. The form and substance of educational programs at UMT is meticulously designed in view of national priorities and values.

We play a constructive role towards economic development by undertaking research and development, providing knowledgeable workforce for tomorrow's knowledge-based economy, and formulating policy options for leadership. Our decisions to introduce education and training programs, to conduct research projects, to undertake corporate consulting, to organize career development services are all geared towards the immediate goal of making Pakistan a great nation in the mould of the vision of beloved founder of our nation and Quaid, Quaid-e-Azam, Muhammad Ali Jinnah.

The commitment to meet unsatisfied learning needs is quintessential to the development of worthwhile education and training programs. Our core capability to fulfill those dire needs has enabled us to achieve differential advantage in the marketplace. We understand that our long-term survival and competitiveness depends upon the ability to strengthen differential advantage by matching internal strengths with external opportunities.

The qualitative assessment of the needs brings into focus many important intangible features of the input and output of the learning process that are invariably overlooked at a great cost. By mobilizing resources, from both public and private sources, towards development of leadership and management potential, the plight of our nation can be ameliorated to a great extent. Certainly, much more needs to be done for a grand finale.

For Pakistan, to progress in a highly competitive world of tomorrow, the need to strengthen and expand the base of education and training for developing leadership potential is quite imperative.

In 1990, Institute of Leadership and Management (ILM), which has now emerged as a modern, full-fledged, University of Management and Technology, chartered by the Government and recognized by HEC, was established keeping in view the challenges posed by the contemporary thought and practice, and the future needs of Pakistan. The time that has gone is a testimony to our commitment and the time to come would test our steadfastness.

Vision of Self-Mastery

Iqbal's Visualization of Self-Discovery

All elements of the human character- attitude, behavior, actions, words, ideas – flow from the roots of self-image. Self-image is the key to destiny. It shapes, determines, causes, initiates, and terminates all forms of outer behavior. The making of the self-image is embedded in how the person is assessed and evaluated in tests and trials. Thus, locus of internal control of behavior needs to be diligently nurtured through the dynamics of assessment system. The examination method of traditional education system does not give any importance to the self-image in the assessment of the performance. It mulls over it, mitigates it, and often ruthlessly distorts it.

We want our participants to observe and articulate their self-image, the key to success. The final grade at UMT is based on the curve that distributes participants in different groups to which they more closely belong to and each group receives the grade corresponding to its relative position in the curve. This system lends itself to natural adjustment given the type of courses, range of assessment tools employed, resource persons, and overall environment. There are no absolutes in grading at UMT. It depends on the competitive spirit and the one who sets the benchmark by reaching the top.

We believe that more often than not, there are no right answers and the process, style, approach, dimensions, framework, context, options, constraints, and finally the questions are important. It has to be consistent with the career aspirations and life objectives. We assume that all participants are top class participants and would indeed be very successful in their professional life. The self-image is enhanced in a healthy environment. Failures and errors are indeed treated as deviation from expectation, but are considered as just an alternate way of doing things. The capability to draw logic and to innovate is protected while identifying failures.

High Powered Skills

High Impact Roles

Earning a livelihood is no longer the only objective of professionals in the modern world. The sense of being assigned to the right job and being involved in a meaningful task supersedes other benefits. The real effectiveness of professionals and knowledge workers depends upon the extent to which the job entails opportunities for self-actualization. The ability of an university to attract and educate most competitive students is directly proportional to its reputation as an avenue for their optimum development as well as maximum growth in the workplace.

UMT programs focus on the development of an individual in totality, i.e, addressing the needs of mind, body, heart, spirit, and soul. It is not just the transfer of knowledge and handing out the degree that is aimed at. Our programs enrich the growth-need strengths of professionals and knowledge workers to match the job demands. The task of self-development, awareness, and analysis accompanies the process of professional development. Integral to all of our degree, diploma, and certificate programs are courses, workshops, seminars on leadership development. The aim of leadership development program is to enable managers and professionals to increase strengths, enhance effectiveness, develop total personality, and overcome the weaknesses. Understanding and knowledge bear no fruit unless backed by exceptional skills to manage the self and lead the people. Thus the starting point is identification of goals and then assessment of the self.

The soul-searching questions such as what we have achieved, what we want to achieve, and what we can achieve, help in designing a comprehensive and long-term training program on individual basis. Once professionals embark upon the road to self-actualization, they transform into powerhouses boasting unparalleled performance and unmatched competence. We impart skills on all relevant interfaces. The groups of participants go through exercises and activities designed to help them explore their own skill-set at these interfaces.

This skill-set is primarily focused on five domains: (1) person to self, (2) person to work, (3) person to people, (4) person to organization, (5) person to environment/ stakeholders. They are provided with means to bring changes into their knowledge, attitudes, beliefs, and behaviors. It is this comprehensive compendium that delivers the ultimate and unparalleled advantage to UMT graduates in the real world.

Context and Future Scenarios

Content and Virtual Screens

Education must be aligned to the context of generation in terms of its past, present, and future. It must be tuned and directed to their particular scenario. The mismatch of context and content has made educated people irrelevant and redundant. The work has shifted to those countries who have aligned their educational system accordingly. Consequently, over a period of time, professionals and managers from all walks of life have become disenchanted with the education and training programs. The lack of innovative and indigenous approach to the management issues and challenges in Pakistan has not been without negative consequences.

Most of the educational programs are no more than myopic and shortsighted attempts to import and replicate, regardless of context. This erroneous tendency in Pakistan and many third world countries has given rise to inefficiency, lack of productivity, loss of markets, technological dependency, and above all, ineffective style of leadership at all levels: family, community, social, political, governmental, and business organizations.

The professional education in any specialization should inevitably be linked to the technological, socio-cultural, economical, and political environments within which it has to succeed. Congruency of context and content is vital to increase productivity and also creates harmony. The fact that Pakistani society is composed of a unique blend of historical traditions, beliefs, values, and culture, poses a challenge for educational theorists and practitioners. The faculty of UMT continuously scrutinize the course outlines to meet the needs of the world of work in Pakistan. They benchmark the course content with the best in world and then adapt it to the situational requirements in Pakistan.

The commitment to meet unsatisfied learning needs is quintessential to the development of worthwhile education and training programs. Our core capability to fulfill those dire needs has enabled us to achieve differential advantage in the marketplace. We understand that our long-term survival and competitiveness depends upon the ability to strengthen differential advantage by matching internal strengths with external opportunities.

The qualitative assessment of the needs brings into focus many important intangible features of the input and output of the learning process that are invariably overlooked at a great cost. By mobilizing resources, from both public and private sources, towards development of leadership and management potential, the plight of our nation can be ameliorated to a great extent. Certainly, much more needs to be done for a grand finale.

Moral Mirror

Beyond Bottom-line

To say that business of the world is business is proven to be precisely untrue in the wake of series of financial crises in the last two decades. The business of the world is to establish justice and peace and provide for itself happiness, prosperity, and quality. The target of profit maximization and amassing wealth irrespective of means has to be examined in this wider context. The distortion of this important perspective has led to destruction of environments, breakdown of family system, exploitation of the weak by the strong and of the poor by the rich. The heart, mind, and soul of our nation have come into the vicious grip of the malaise of corruption at all levels.

We believe that the successes and failures of individuals, organizations, and nations depend upon the economic as well as moral laws. The preference of morality over the bottom line ensure long-term survival of the organizations as well as fulfillment of societal responsibility in a conscientious manner.

We view all organizations as moral entities because human beings make them. Further, they acquire and command resources owned by the society. Along with efficiency and power, the important factors of trust, truthfulness, and accountability play an important role in long-term survival. Our participants are trained in anticipating ethical concerns, analyzing potentially destructive moral dilemmas, and developing strategies for constructive integration of human values, societal concerns and business decisionmaking.

Command of Technology

Engineering the Future

Technology is rapidly changing and its functions and utilities are rapidly transforming the behavior of the society. The technological influx in the dominant professions is also stimulated by all-pervasive computer revolution. In information society, the path to economic self-reliance and global competitive edge can only be mapped out through indigenous development and timely adaptation of technology. One of the cornerstones of economic leadership is the ability to adapt and mold the latest technology. The engineering programs of UMT build the foundation of technological adoption and diffusion. They pave the way forward for technology transfer.

Organizations need to continuously modernize the existing products and services, and also to introduce new products and services based on innovations and latest technology. The management of such far-reaching technological change requires combination of exceptional management skills and professional acumen. Even the employees, working at lower levels, should now fully appreciate and participate in the technological transitions in organizations. The more sophisticated the technology, the more intricate the task of orchestrating organizational processes and functions.

The management of human and material resources in the context of cultural implications of technology transfer also requires understanding of human sciences. Orientation to the information system and technology, particularly within the context of a certain profession, is thus an important feature of our educational and training programs. We endeavor to assume a distinguished position in developing and offering programs in the dominant professions of today that blend technological and management education and make full use of information and communication technologies.

The existing curriculum of engineering education ignores the need to combine management education with technical expertise at a scale and in style expected by the real world. UMT uniquely aims to develop leaders and managers in different professions.

Managing technology, engineering projects and knowledge workers is an altogether different and far more complex a task than managing the manual workers. It requires understanding of the dynamics of knowledge work in terms of organizational structure and climate. In this context, UMT has taken initiative by offering multi-disciplinary programs to develop knowledge workers equipped with managerial skills to meet the needs of the corporate world. The educational and training programs at UMT blend advanced level of knowledge with management concepts and applications, and provide conceptual orientation and practical learning about information management to the knowledge workers.

Opportunity Search and Job Creation

Path of Innovation and Entrepreneurship

Entrepreneurs, managers, and knowledge professionals make the scarcest resource of modern society. The demand for them is steadily growing as the knowledge-based workers increasingly replace simple workers. Besides, many organizations, both public and private, are currently institutionalizing professional management. Specialized training of entrepreneurial talent helps professionals exploit upcoming opportunities and available resources, thereby enabling them to steer ventures successfully through various stages of development.

Pakistan cannot afford to see its productive enterprises jeopardized through lack of competent successors to today's management. Business community owes to society the task of efficient utilization and effective development of national resources. UMT, formerly ILM, pioneered entrepreneurial training programs in Pakistan as constituent member of the Advisory Center for Industrialization of Lahore Chamber of Commerce and Industry (LCCI) in 1991. There is now a full-fledged Center for Entrepreneurship and Innovation dedicated to impart training in this vital area. We prepare our participants for the roles of idea-originator, resource-generator, venture-initiator, business-developer, and employment-creator. Most of the participants of our various programs increasingly feel that returns from education can only be maximized by taking up entrepreneurial challenges and self-employment. The ultimate goal is to turn around the graduates from job hunter to job givers by helping them launch themselves into the mode of entrepreneurship.

The families owning small and medium size industries have a special preference for UMT when they choose for their sons and daughters. UMT graduates from the family business owners located in sixty districts have been instrumental in transforming their businesses into next threshold at regional, national, and global level integrating and scaling up into global supply chain system.

Global Competitiveness

Local Advantage

Countries are becoming increasingly interdependent politically, economically, and technologically. The themes of internationalization and interdependence have assumed greater significance in higher education in recent years. The latest advancement in communication technology has turned the whole world into a global village. Pakistan is a part of the Muslim Ummah and is located in the strategic center between East and West Asia. The economic future of Pakistan is to be seen in this context. Opportunities and threats, strengths and weaknesses created by this unique geographical situation are thoroughly considered to formulate a viable strategy for economic development. The professionals in Pakistan increasingly realize that they are facing formidable competition from their counterparts in other countries of the world selling same goods and services. Often they suffer not due to any shortcoming in the products or services but due to the difference in business acumen. The challenge to update the capabilities of professionals and managers up to the level of their counterparts elsewhere can only be faced through institutional interaction.

UMT addresses issues like international trade and commerce, concentration of different competencies, formation of skills, cultural and language implications, as well as comparison of competitive advantages across national boundaries. UMT has aggressively established strategic linkages with many institutions of higher learning in the USA, Europe, and Asia. In future, UMT intends to build mutually beneficial institutional collaborations and alliances focusing on joint projects. The interaction of our faculty and participants with those of other institutions will foster global outlook of the programs and cosmopolitan character of the participants. Participants are encouraged to learn additional language or undertake a visit to the foreign country. As a host to the national and international events organized by UMT, the participants gain a unique exposure to the issues that are shaping our times.

Useful Knowledge in Dominant Professions

Learning What Works

Both the employers and the employees pay for the mismatch between demand and supply of manpower. There are very few who are finally able to obtain the degrees, and many of them fail to get the right job. While many jobs are vacant for want of right people or occupied by wrong people. Consequently, the trust of our society on the institutions has shattered. The purpose of professional education and training is to provide the required knowledge and to develop the right set of practical skills so that manpower needs of the country are fulfilled. The scope and importance of different types of knowledge systems and talents varies from time to time. The mix of professions and skills that dominates today is different from that of a couple of decades ago. Obviously, changes in the economic and technological conditions affect the demand of different kinds of professions and talents.

The contemporary information-oriented world is developing into knowledge based society. Organizations are constantly engaged in acquiring, transforming and disseminating information and knowledge. Consequently, the knowledge-based professions with highly specialized ingenuity have assumed the central importance today. UMT has developed educational programs in dominant professions of modern times.

UMT cherishes its unique place as the leading innovator of degree programs in Pakistan. It has so far pioneered many diploma and degree programs in different professions for the first time in Pakistan which subsequently have been adopted by universities too. These programs offered intensive training to the junior level young professionals. These young specialists have been quite successful in distinguishing themselves in the crowd of generalists, for the simple reason that graduates have got exactly what the prospective employers demand. Our graduates dominate the job markets because they meet the demands of employers.

Change is Permanent *Complexity is Increasing*

The destructive influx of ground change is the hallmark of the world of work today. Those who cling to the status quo get quickly disposed of into the dustbin. The charge of currency defines roles and responsibilities. What is in the most recent textbook get outdated by the time it reaches the class room. Explosion of new knowledge poses a serious challenge to remain updated and to be aware of the newest and the latest with a view to remain competitive. Similarly, society is becoming deep because of interconnectedness, thereby increasing complexity and unpredictability.

Increase in complexity requires corresponding changes in the curriculum and pedagogy. It places tremendous onus on the faculty and participants who have to work harder and learn more in order to qualify and compete with others.

We equip future change agents with action gears. The modern approach to learning emphasizes action-focused and result-driven techniques and instruments customized to impact the specific environments of the participants. The education and training programs can be practically useful only to the extent that they can be put into action. As such, learning programs are only a tool and not an end. The purpose of education and training programs is to impart learning and training to effect changes in thinking, behavior, competence, and skills.

Education is also at the center of two opposing pressures. Society extends to education the onerous responsibility for the development of human resources and strengthening of its foundations. The economic progress depends, more than anything else, on the ability of knowledge workers to innovate and translate their ideas into actions. For so long, this important aspect of professional character has not been properly nurtured by our educational system even at the advanced level. One of the consequences of undergoing the long spell of colonization and various forms of neo-colonization has been the tendency to emulate rather adapt, to copy rather apply, to accept rather than scrutinize, and to submit rather than lead. Breaking those barriers, we focus on developing the capability for innovative research work within the Pakistani context. The research studies undertaken by our participants have proved to be very valuable to the client organizations as well as government authorities. The project reports prepared by participants at the end of their programs have contributed in the improvement of business processes of many enterprises. Many participants have been able to launch their own companies soon after graduation.

The faculty and the Research and Development Department has produced many innovative papers. We are at the forefront of knowledge development, sensitive to the practices, blending instruction with research activity, and responding to the supply and demand crisis. In a broader sense, the issues of what kinds of competencies are needed and how they are to be stimulated are the most important questions that no institution of higher learning can long eschew. UMT programs employ techniques based on experiential learning.

Our participants feel the pressure of constant updating of the curriculum. We update it not just once a year but almost every semester keeping in view the new experiences and latest developments. We have undertaken pure and applied research in job-oriented disciplines. We plan to contribute in developing quality literature for the benefit of practitioners. The instruction programs, research activities, and academic culture of UMT—all are directed to prepare leadership for tomorrow. The future thrust keeps UMT community at the forefront of all socio-economic and technological developments, and fosters a highly challenging atmosphere.

UMT, a Community

Campus, a Theater

At UMT, teachers are known as Resource Persons and students are known as participants. This is unique in the world. The mix of resource persons, participants, and partners at UMT represents a cross-section of people from a variety of backgrounds. Together, they form a vibrant community of committed and capable leaders who work with each other, value each other's contributions, and join the process shape-up to assume future responsibilities. A select group of most competent and highly motivated participants and partners interact with each other in class, syndicates, and groups. The teaching methodology is based on groups as well as on one-to-one settings, and teams as well as full class or batch. The use of variety of assessment methods by resource persons ensures that participants have developed the capacity to perform both independently and in teams.

We consider a class consisting of resource persons and participants as a team. The class is a team, the case-study group is a team, participants of a program are a team, and all participants enrolled at any time in UMT are also a team. Those UMT participants living in a common residential area tend to become an informal team; those coming from one college or school also continue as a team; the whole campus is a theater. At a wider level, the members of the team also include resource persons, and administration. Working staff in a team gives a better exposure to the participants about what is right and wrong with their perception, attitude, and interpersonal behavior.

Teams actually work in a theatrical environment. The whole class, business organizations, and society all take part in providing instant feedback at the spur of the moment. The interactive and on-line channels of feedback from all stakeholders make the teamwork more productive.

Participants realize that the benefits to be gained from other participants are no less than that to be gained from resource persons or course material. The participants come to UMT with fresh minds and committed souls. They interact with experienced resource persons to produce leading-edge ideas and solutions to real world problems.

Succeeding with UMT's Success

Champions in the Real World

Seen from the national and organizational perspectives, the human resource development concerns itself with the developing of a fit between human resources and business strategy. It also focuses on the expertise to be acquired today in order to qualify for tomorrow.

We offer educational programs that are unique in many cases and relate to the emerging needs given the international trends and the local situation. The aim is to fully benefit from the available human potential in order to meet the requirements of organizational goals and preferences. The dividends of our investment in education and development programs accrue to the organizations in the form of developed manpower and business process improvement. Ultimately, their verdict and their acceptance is important for our success. We constantly scan and monitor the changes in our task and mega environments. The internal system has been geared to implement the consequences of the changing demands of stakeholders and other constituent elements of the external environment. We are externally focused and internally aligned. Thus we have been successful in creating an expanding clientele base among the employers. Our output has been capable of satisfying the needs of stakeholders. Come and succeed with us, leveraging our own success. Its up to you, if you want to become champion in the real world. Now.

Our Plan

is to conduct
educational programs,
reinforce professional training,
articulate executive development,
provide counseling,
and orchestrate communication,
through all types of mediums
to network individuals
as well as institutions
who aspire to
learn for leadership.

UMT Schools and Programs

The schools and programs at UMT are based on the heritage of leadership and innovation, generated by inspiring vision, governed by uncompromising missionary zeal, and fueled by the modern technology –all resulting into a distinguished character and culture for which UMT is renowned.

Currently, UMT offers programs under six schools and three institutes, namely: School of Business and Economics (SBE), School of Science and Technology (SST), School of Social Sciences and Humanities (SSSH), School of Professional Advancement (SPA), School of Textiles and Design (STD), School of Law and Policy (SLP), Institute of Audit and Accountancy (IAA), Institute of Applied Sciences (IAS) and Institute of Islamic Banking (IIB).

UMT programs are a formidable response to the knowledge demands, technological challenges, societal responsibilities and leadership imperatives.

If you compare the graduate and postgraduate program catalogues of many Pakistani universities, business schools and educational institutions with those of foreign universities, business schools and institutions, you will find virtually no difference.

Several common themes are repeated over and over. At once, it looks very right.

They are doing exactly what others are doing and even trying to do it the way they are doing. What more you could ask for? But cast another look and you will discover emptiness of imitation, irrelevance of focus, contradiction of values, denial of cultural ethos, disenchantment of all stakeholders, and an escape from local challenges.

UMT is different, because it not merely adds discussion of these issues into the existing course contents, but also builds its programs around these and other critical issues of crucial importance to the leaders of tomorrow.

UMT programs are geared to equip future leaders, professionals and executives with the knowledge, technology, skill and insight essential to make a difference in the organizations. Since the launch of ILM-MBA in 1993, the first of its kind in Lahore, our pioneering and innovative approach has had an overwhelmingly positive reception from organizations, academic institutes, research organizations, IT experts, knowledge professionals, and management commentators alike. Indeed, its impact on the thinking behind management development established how the learning process serves as a valuable tool in implementing organizational strategies.

In fact, intensive research and development into the competencies required of management executives, engineering professionals, media men, textile designers and graduates and IT experts, by the international organizations, has contributed to the success of UMT programs. The programs that emerged from this process, therefore, have many relevant and distinctive features, although both the clients and candidates have relished upon four in particular.

These include a strong practical bias towards action learning and its implementation through projects; practical relevance of theory and research taught in classroom with the market perspective and industry practice; the spirit of partnership in learning at the heart of the programs; the emphasis on developing 'soft personal leadership skills'; and finally, the guidance and support systems ensuring unrivaled individual support. More specifically, the key objectives and unique features of UMT approach that promise distinctive advantages to the aspiring leaders and professionals are discussed below.

Leadership Development

Focus on the development of leadership skills and an executive talent among the participants is the central feature of all UMT programs. The aim is not merely to churn out future employees but to turn graduates into business leaders and industry professionals capable of taking on the challenge of charting and changing the course of organizations through uncertainties and competition. Graduates develop competence to manage and operate within diverse teams in cross-functional areas, utilize technology, communicate effectively, think strategically while making decisions and bring to organizations the required success based on the ability to create a synergy of specific skills in an environment requiring teamwork and leadership.

Academic Culture

The academic culture at UMT features an unparalleled faculty, conducive learning environment, lively classroom atmosphere, unmatched participant-resource person interaction, robust participant-management relationship, and a problem-solving demeanor. Cutting-edge developments in teaching and training methodologies coupled with the study counseling and participants' guidance schema further augment all these efforts as the participants benefit from the career-counseling, step-by-step guidelines for actions, and tips to master a subject.

Personal Scale

Learning at UMT is literally a personal experience. It is active, collaborative, and shared. The setting, facilities, methodology, and individual attention offered at UMT provide participants with an ideal environment for learning. Instead of mere transmitting knowledge, UMT believes in total, holistic, integrated and inclusive development and as such develops the whole person. It encourages reflection and personal growth of the participants, prepares them to effectively affront new challenges, and helps them to rise above self-interests and go beyond self-imposed limits, as a springboard for lasting leadership. As such, UMT is invigorating the lives and enlivening the professions.

State-of-the-art Curriculum

The curriculum designed by UMT incorporates topics and latest state-of-the-art developments. The competence-oriented and practically relevant curriculum emphasizes upon the analytical, technical, inter-personal and functional skill development. Besides acquisition and transfer of knowledge, it provides a thorough grounding and in-depth understanding in the fundamental areas, and develops the ability to communicate, motivate and lead people.

UMT enjoys distinction of offering many of the programs and courses for the first time in Pakistan. UMT resource persons after long research and careful analysis develop and update the courses regularly. In order to further intellectual as well as experiential perspectives and contribute towards multiple learning opportunities, UMT curriculum maintains a balance between theory and practice, concept and application, art and technology, reality and simulation.

Entrepreneurial Drive

As the world goes global, management becomes more demanding and complex. Bold entrepreneurial skills and cross-functional approach is quintessential to success. UMT prepares its participants for the roles of idea-originator, resource-generator, venture-initiator, business-creator, and job-giver. In response to a question, 80% of the ILM-MBA participants at UMT informed that they ultimately aim at starting their own business.

Ethical Focus

The UMT graduates learn to anticipate ethical concerns, analyze potentially destructive moral dilemmas and devise strategies for constructive integration of values and business decision-making. They develop a respect for ethical and moral values as well as a sense of business, entrepreneurship, and professional responsibilities in the dynamic international business context. The participants learn that knowledge-sharing, harmony, respect for one another, and honesty are essential components of professional development and career success. The resource persons act as examples to demonstrate and instruct in such matters of professional conduct.

Learning by Doing

Being a pioneer in learning for leadership, UMT goes beyond the stereotype instruction methods such as lectures and examinations and employs a variety of methods. These include but are not limited to action learning, simulations, Internet exercises, case studies, syndicate meetings, pre-lecture group preparation, food for thought briefings, in-class exercises, experiential learning, role-playing, projects, presentations and critiques, tutorials, library research, executive interviewing, field trips, study tours, and conference presentations etc. UMT also offers a unique 'Work Study Scheme' to its participants whereby the participants get practical exposure while they learn. This practice enables the graduates to contribute and add value to the organizations at the very outset of their careers.

Teaching Excellence

The long-term strategy of being the leader for relevant and innovative teaching ensures learning excellence. The central feature of UMT learning approach is the creative, proactive, participative and innovative interplay of ideas and experiences between the dynamic learning enthusiasts, the participants, and friendly and inspiring resource persons. The learning infrastructure, an immense and unique resource, further strengthens the classroom instruction, adds value to the total learning process and the taught programs, making for relevant and challenging learning experience.

Human Skills Development

UMT resource persons and trainers employ methods of experiential as well as action learning in group environments to help the participants discover themselves, to identify strengths and weaknesses, and to develop right attitudes and attributes required of an executive personality. Participants undergo various tests, exercises, and training instruments to gain proficiency in human engineering skills. Participants also gain in-depth knowledge in one or a customized combination of their area of specialization. This enables them to make an immediate contribution of useful functional skills to organizations.

Esprit de Corps

The participants at UMT represent a cross-section of participants, professionals, and managers from a variety of educational, social, and demographic backgrounds. Together they form a vibrant community of committed and capable leaders and professionals who work with each other, value each other's contributions, and shape up to assume future responsibilities. Participants work in small groups, in projects, which foster team building. Although they compete with one another in classroom settings and experimental exercises, the learning methodology balances cooperation with competition. The participants learn the fine art of collaboration, understand group dynamics, and realize the significance of cultural values all resulting into an intensive learning experience and strong business networks.

Exceptional Resource Persons

UMT resource persons mostly come from the business world and possess rich practical experience, inland and abroad. They bring in the classroom their national and international experiences and enable the participants to capitalize on and build capacity to meet the greater challenges of leadership.

Real World Interaction

As the programs progress, participants get numerous opportunities to interact with organizations and business leaders. Prominent executives from public and private sectors are regularly invited as guest speakers. Seminars and events also provide the opportunity to enrich the perspectives, interact with business leaders and academic luminaries, and network with professionals, practitioners and scholars. Industrial visits are also arranged. The final year field-project in combination with internship provides yet another opportunity of purposeful interaction and extensive exposure with the business world on an individual basis. Interaction with the external community helps the participants develop an understanding of complex real life issues, realize the importance of ethics and value public service in order to manage effectively and contribute to the society at large.

Diversity and Flexibility

UMT has the privilege of offering Executive MBA, MS, MA, MEd and other evening programs devised exclusively for the professionals and managers aspiring for higher positions. UMT also takes pride in offering the largest number of professional specialization concentrations in diversified areas to exactly meet the career aspirations of the participants. Each concentration leads to a very promising avenue of career making investment, truly a lifetime asset.

**School of
Business and Economics**

Message from the Dean

The University of Management and Technology (UMT) and the School of Business and Economics (SBE) have established their distinction as the best institutions in the country and the region. UMT has been awarded highest, W4 category by HEC, the first university in the Punjab to receive this distinction. SBE has also successfully completed assessment of National Business Education Accreditation Council (NBEAC) Accreditation by HEC with flying colors. With a distinguished history of more than two decades, SBE is a member of the Association of Management Development Institutions in South Asia (AMDISA), Association of Management Development Institutions in Pakistan (AMDIP), Asia Pacific Quality Network (APQN), European Foundation for Management Development (EFMD), and the Association to Advance Collegiate Schools of Business (AACSB) International.

Drawing on the strengths of its world class faculty, SBE endeavors to bring the latest thinking and knowledge from the practical field to the classroom. With a strong focus on research in the business areas, the School ensures the relevance of the ever-growing knowledge in the management discipline to address the priority needs of our specific business environment. Our curriculum blends the latest knowledge of the relevant fields into practical and experiential learning processes preparing the participants to take on managerial challenges of the real world.

SBE is home to an outstanding faculty and exceptional student body together pursuing academic excellence. The School offers undergraduate, graduate and PhD programs in management areas supported by active student clubs and professional centers of excellence. SBE doesn't intend to rest on its past laurels; therefore, it is continuously pursuing development and expansion. UMT has opened a campus in Sialkot, where SBE will be offering undergraduate and graduate programs from Fall 2012 (October 2012). At the same time, SBE in its original campus at Johar Town, Lahore, will be moving to a purpose- built state of the art new building with modern class rooms and learning facilities. SBE aspires to be distinctive, dynamic and open world of learning and scholarship. We invite you to be a part of this exciting environment.

Dr Faheem ul Islam

Dean

School of Business and Economics

School of Business and Economics (SBE)

Snapshot of School of Business and Economics

Keeping in view the global competition and rapidly changing technology, lifelong learning is a necessity. Successful professionals need to continually update their skills and knowledge or they risk falling behind. To meet the requirement of the era, School of Business and Economics offers various degree programs for all those who desire to obtain up-to-date management and technology knowledge, skills, and insights. SBE designs a broad range of degree programs including PhD, MS/MPhil, Master, Undergraduate, Certifications, and professional development programs. These programs focus on contemporary management and technology issues, achieving a balance between theory and practical applications. Apart from formal degree programs, it also provides training and consulting services to companies and government agencies. SBE has a long journey of research to serve industry, government, and communities.

Established in 1990 as a project of ILM Trust, the University of Management and Technology (UMT) then known as the Institute of Leadership and Management (ILM), has evolved into a premier institution of higher learning in the country. This success rests on the high teaching and research standards maintained by the University over the years. The Higher Education Commission (HEC) recognizes all degree programs offered by business school at UMT. Spread over 160 kanals of purpose-built campus, UMT distinguishes itself with 250 full-time faculty members including 30 PhDs, 10,000 alumni and 4500 students currently enrolled from 48 districts of Pakistan and 11 countries across the globe.

The faculty members at SBE have extensive management and technology education experience working for and with major companies, nonprofit organizations, and government agencies. The graduates are shaped up by one of the finest business faculty in the country, and are thoroughly groomed for the roles of leaders and managers in the fields of Marketing, Management, Human Resource Management, Supply Chain Management, Information Systems and Finance. These graduates of business school have been running the operations of various national/multinational firms throughout the world.

The School has strong backbone of eight academic departments, eleven degree programs and three centers to groom the students for practical life. The cohorts of the School include:

- Dynamic Environment for Learning
- Transformation from Explicit to Implicit Knowledge
- Corporate Association
- Modern Infrastructure
- International/National Academic Accreditations
- Strong Alumni Network

Teaching Learning Methodology at SBE

The focus of our business programs in terms of teaching and learning methodologies is outcome based. The teaching methodology revolves around multiple tools that include interactive class sessions with students, use of case studies, discussion of articles and research papers and involvement of resource persons from industry in order to develop a balance between theoretical and applied knowledge. Class participation and learning has been the hallmark of the teaching and learning methodology in the School of Business and Economics (SBE).

OUTCOME BASED

- Class Sessions
- Case Study Analysis
- Group Discussions
- Seminars / Guest Lectures
- Projects
- Presentations
- Assignments
- Quizzes / Exams
- Field Visits
- Business Simulations
- Lab Sessions

Academic Departments at SBE

Department of Management

Introduction

Under the auspicious and dynamic leadership of Rector UMT Dr Hasan Shohaib Murad, the Management Department is in constant pursuit of uplifting both the professional and personal progression of its stakeholders. The development of our student body, the learning advancement of our faculty and a direct liaison with the industry are the key priority facets where we strive to excel. The Management Department prepares undergraduate and graduate students to become innovative, proactive and ethical leaders in a globalized world; pragmatically bestowing upon them the teachings of management science and the art of professional excellence.

Vision

The Management Department strives to offer outstanding education to promote socially responsible and ethically inspired management practices. We believe in the power of diverse ideas and intellect through mutual learning, teamwork and by bridging the gap between research and practice.

Our Mission

The mission of the Management Department builds onto synergizing the overall mission of the University of Management and Technology through its incomparable faculty and staff. Dedicated towards and in constant pursuit of the success of our students, we develop and deliver market driven programs which equip our students for future careers as professional leaders in the business world. We constantly strive to establish and flourish close connections with international universities to promote a culture of continuous improvements based on international standards of excellence, zeal and vigor. We continuously strengthen our ties with corporate Pakistan to blend our research oriented teaching approach with practical knowledge being imparted onto the students. We uphold and strongly guard the core values, objectives and philosophy of UMT and deliver the most updated knowledge and education to our stakeholders. To accomplish this we use innovative techniques to enhance lifelong learning through technology, multiple intelligences, varied instructional strategies, and interdisciplinary units.

Knowledge Scope

By fusing the art, science and technology of business management, the Management Department strives to produce leaders with deep competencies in management disciplines and in the application of new technologies for strategic and competitive advantage. Trained in advanced teaming and leadership skills, our graduates think holistically about business management and are aware of both the strengths and limitations of management acumen. Our outstanding faculty is noted for its applied academic research; many of whom have years of corporate experience; both in the public and private sectors, nationally and internationally.

A continuous focus is paid on continuous improvement of the contemporary and contingent aspects of course development, ensuring the curricula maintains academic integrity and promotes our organization's mission and strategic direction. Several formal and informal techniques and instruments are adopted to measure student learning. We instigate and develop a sense of healthy competition amongst our student body to raise the bar of learning. --

Core Courses

- International Business
- Human Resource Management
- Dynamics of Management
- Organizational Behaviour
- Managing Human Capital
- Business Ethics
- Management Theory and Practice
- Leadership Skills
- Introduction to Business
- Principles of Management
- Management Strategy / Business Strategy

Elective Courses

- Recruitment and Selection
- Compensation and Benefits Management
- Performance Management
- Strategic Leadership Skills
- Knowledge Management
- Change Management
- Leadership and Organizational Behaviour

- Business Negotiations
- Training and Development
- Strategic Management
- Transnational Management
- Management Consultancy
- Human Resource Development
- Strategic Human Resource Management

CLUBS

Community Service Club

Objectives

The Community Service Club has been set up to fulfill UMT promise of corporate social responsibility community service. It aims to make students aware of the environment in which they live, their responsibilities towards the social cause and participation in campaigns regarding social cause and protection of the environment. The outcome desired through this club is to indulge students in socially responsible volunteer work which would add value not only to their professional brought up but also to their resumes.

Activities

The Community Service Club fosters values that benefit the society at large through the following activities:

- Identifies volunteer students for interacting with various charities, hospitals and NGO's.
- Conducts educational discussions/games/creative activities with affiliates
- Generates funds through self support and or donations to procure gifts and educational kits for children
- Helps to develop environment conscious citizens
- Provides students with certificates of cumulative hours of voluntary work from the affiliate organization in recognition of contributions made.
- Provides internships for volunteer students in various social organizations

Professional Development Club (PDC)

Objectives

Professional and personal development of future leaders with emphasis on their soft skills

How

These objectives are attained by:

developing social attire;

reminding etiquettes and manners;

developing team players;

making students learn conflict resolution techniques;

strong emphasis on effective communication skills (oral);

cross cultural awareness with respect to the international environment;

industry interaction and liaison through public speakers and corporate visits; and

field trips, case study competitions, interviewing techniques, Resume creation, etc.

ACTIVITY

Once a month interaction with all volunteer students of SBE, supervised by the faculty from the Management Department specialized in their related aforementioned disciplines

Department of Marketing

Introduction

The Department of Marketing is strongly committed towards providing high quality education. It contributes to the bachelor and master programs in business administration, commerce, engineering, and social sciences. Both in research and in teaching, the Department of Marketing productively leverages its diverse ties to the corporate sector, building bridges to the world of business. It is committed to further nurture these relationships and develop new collaborations in the future to share marketing insight, and stay at the forefront of the newest developments in marketing practices.

Mission

To develop marketing leaders by imparting cutting edge knowledge to our students, and remain dedicated to excellence in research and teaching

Core Courses

MK 210	Principles of Marketing
MK 320	Marketing Management
MG 365	Entrepreneurship
MK 430	Business Research Methods
MK 450	Consumer Behavior
MK 525	Marketing Management
MG 550	Entrepreneurship
MK 565	Business Research
MK 585	Strategic Marketing Management

Elective Courses

MK 610	Consumer Behavior
MK 625	Sales and Sales Force Management
MK 636	Strategic Distribution Networks
MK 652	Strategic Brand Management
MK 666	Services Marketing
MK 675	International Marketing

Clubs

Marketing Club

The activities and events of the club bring together from all walks of life people with a common passion of marketing, binding them at a platform at UMT. The Club brings to the table a diverse and healthy mix of backgrounds, aiming to work in different roles within sales and marketing. At UMT Marketing Club, the exposure between exemplary students and leading companies is very valuable to all involved.

Activities conducted so far by the Marketing Club include:

- Elections
- Student mela
- Invitation to guest speakers
- Seminars
- Launching ceremony and discussion of PEL refrigerator brand

Entrepreneurship Club

Entrepreneurship Club has been formed to support classroom learning with experiential learning through seminars, competitions and games that reinforce marketing related concepts. The activities conducted by the club include:

- Student mela
- Invitation to guest speakers
- Seminar on “Entrepreneurship as a career option” jointly organized with CSCR
- Entrepreneurial Leadership Safari

Department of Finance

The Department of Finance encourages strong ethical business practices and social responsibility to be essential parts of every decision that its graduates make in any profession that they pursue. It imparts skills and real-world knowledge required to succeed in their careers.

Vision

To develop/groom business graduates for taking effective financial decisions throughout their career, and equip students with analytical skills through real-life case studies and challenging projects with strict focus on effectiveness and applicability.

Mission

To be the most innovative and dynamic department recognized for its high quality and creative methodology to disseminate financial knowledge and skills in individuals who will take leadership roles to tackle ever changing financial and economic markets in Pakistan and around the globe.

Courses

Finance

Core Courses

- Business Finance
- Financial Management
- Corporate Finance

Electives

- Investment Analysis and Portfolio Management
- Financial Derivatives
- Capital Budgeting and Long Term Investment Decisions
- Financial Statement Analysis
- Corporate Tax Management for Financial Decisions
- International Finance

Applied Banking

Core Courses

- Money and Capital Markets

Electives

- Commercial Banking Operations
- SME, Micro Finance and Agriculture Finance
- Financial Risk Management

- Credit Management
- Regulatory Framework for Banks
- Retail and Consumer Banking Operations
- Islamic Banking and Finance

UMT Finance Club

Mission

To help students develop financial skills and knowledge through industrial linkages for enhanced learning and exposure for a successful career.

Scope

- Speaker Series
- Career Development Programs
- Discussion Panels
- Stock Market Visits
- Memorandum of Understanding (MoU)

Department of Economics

Introduction

The Economics Department at School of Business and Economics is a growing and energetic department that brings together quality faculty and student body. The Economics Department focuses on community connections, teaching and research. The department provides excellent, innovative and rigorous teaching of different disciplines of economics. It provides vibrant environment for learning. The faculty of the department is well aware of the dire need of understanding global business and economic issues. Its focus is to spark discussion, debate and ideas among students in the class. The Economics Department connects international /national economists and business leaders through conferences and seminars. The teaching is based on theoretical and empirical case studies.

Mission

The Department of Economics is committed to the provision of formal and broad-based courses. The mission is to broaden the vision of participants enabling them to integrate the knowledge of economics with business, management, marketing and the like.

Core Courses

The list of courses taught at different levels/ programs are:

Course Code	Course Title
ECO-201	International Economics
EC-255	Business Economics
EC-210	Micro Economics
EC-220	Macro Economics
EC-560	Monitory Economics and Policy
EC-545	Managerial Economics
EC-535	Business Economics
EC-520	Contemporary Issue in Global Economy
MC-357	International Economics
EC-550	Business Econometrics
EC-110	Micro Economics 1
EC-115	Mathematical Economics 1
EC-120	Macro Economics I
FN-340	Business Finance
EC-230	Micro Economics I
EC-125	Mathematical Economics II
EC-235	Macro Economics II
EC-240	Development Economics
EF-310	Financial Economics
EC-320	Environmental Economics
EC-325	Public Finance
EC-330	Econometrics 1
EC-335	Managerial Economics
EF-350	Internship (8 weeks)
EF-440	International Economics and Finance
EC-430	Econometrics 11
EF-435	Research Methodology for Economics and Finance
EF-410	Islamic Economics and Finance
EF-490	Thesis

MS/Phil Compulsory Courses	
Course Code	Course Title
EC-600	Advanced Microeconomics
EC-605	Advanced Macroeconomics
EC-610	Advanced Econometrics
EC-620	Methodology of Economics Research
Elective Courses	
Course Code	Course Title
EC-630	Islamic Economics: Theory and Policy
EC-632	Topics in Agricultural Economics
EC-634	Topics in urban Economics
EC-636	Topics in Labor Economics
EC-638	Optimization Techniques
EC-640	Economic Growth Models
EC-641	WTO, globalization and Economics Integration
EC-643	Project Analysis and Investment Decision Making
EC-648	Advanced International Economics
EC-652	Population Dynamics
EC-654	Topics in Advanced Monetary Economics
EC-658	Applied Econometrics
EC-660	Topics in Development Economics
EC-662	Topics in Human Resource Development
EC-666	Production Economics
EC-670	Public Policy and Macroeconomics Management
EC-672	General Equilibrium and Welfare Economics
Course Code	Course Title
EC-600	Advanced Microeconomics
EC-605	Advanced Macroeconomics
EC-620	Methodology of Economic Research
EC-610	Advanced Econometrics
EC630-672	One of the Elective Courses*
EC630-672	One of the Elective Courses*
EC630-672	One of the elective courses
EC630-672	One of the elective courses
EC 630-672	One of the elective courses
EC-699	MS/MPhil Dissertation

Department of Operations and Supply Chain

Introduction

Operations and Supply Chain serve as the backbone of any business organization, be it a manufacturing facility or a service provider. It enables organizations to achieve their objectives through providing effective and efficient solutions to customer needs. Concern for environmental and social impact of products and services is an important aspect of this discipline.

The Department of Operations and Supply Chain comprises of highly dedicated faculty which is actively involved in developing managers and entrepreneurs that are not only well versed in the application of various tools and techniques required for optimizing processes and products, but also have a deep understanding of the complex relationship of products with environment and society.

Mission

To create and disseminate knowledge in areas of operations and supply chain management and passionately contribute in developing future business leaders of Pakistan

Core Courses

QM 320	Decision Models
OM 345	Production Operations Management
OM 460	Total Quality Management
QM 555	Data Modeling and Decisions
OM 565	Operations Management
SM 615	Managing Supply Chains

Elective Courses

SM 622	Supply Chain Modeling
SM 630	Logistics Management
SM 637	Production Planning and Inventory Control
SM 650	Project Management
SM 653	Vendor Selection and Development

SM 682 Supply Chain Strategies

SM 690 System Dynamics

Operations and Supply Chain Club (OSCC)

Operations and Supply Chain Club has been formed to support classroom learning with experiential learning through seminars, competitions and games that reinforce operations and supply chain related concepts. The activities conducted by the OSCC include:

- Awareness seminar on careers in supply chain
- Documentary viewing on the topic of “Green supply chain management”
- Supply chain game competition
- Seminars relating to various areas of operations and supply chain management providing a chance for the students to interact with industry professionals
- Industrial trips

Department of Quantitative Methods

Introduction

The Department of Quantitative Methods is responsible for the development of Quantitative Methods which are inter alia, the disciplines variously known as Statistics (and all sub-disciplines such as Biostatistics, Biometrics, Econometrics, Technometrics, Scientometrics), Operations Research, Decision Sciences, Financial Engineering, Quality Management, and for application of quantitative methods in all areas of human endeavor.

Mission

Leading: To become one of the world's prestigious institutions involved in identifying, catalyzing and fostering high-impact cross-disciplinary research involving the quantitative methods.

Knowledge Scope

The quantitative methods area covers the body of knowledge for business mathematics, business statistics, and empirical business modeling. And these are the three functional areas where the department provides teaching and research facilities at undergraduate, graduate, and post graduate levels.

- Business mathematics attempts not only to refresh the participant's knowledge about arithmetical and mathematical techniques but also sharpen their skills to apply these techniques to solve intricate problems in the field of business.

- Business statistics introduces the subject of statistics with respect to its applications in the domain of Business. It enables participants not only to vocabularize the business data but also assists in making business forecasting and decisions in a totally uncertain environment.
- Empirical business modeling techniques introduce mathematical and statistical modeling for business optimization and better understanding of the inherent structure of the business. It enables participants to use existing numerical data to optimize the use of scarce resources, both human and physical. It also assists in cognizing the change which helps in better controlling the whole business process.

Courses We Offer

Bachelor

1. Introduction to Business Statistics

Offered to BBA, BCom

2. Introduction to Statistical Inference

Offered to BBA, BCom

3. Business Statistics

Offered to BBA, BBIS, BCom, BSEc, BSAv.

4. Business Mathematics

Offered to BBA, BCom, BBIS, BSEc, BSEv.

Master

1. Business Mathematics

Offered to MBA, MCom

2. Quantitative Techniques and Methods

Offered to MBA

3. Quantitative Techniques for Managers

Offered to EMBA, SPA

4. Statistical Analysis for Management Research

Offered to MS (Mgt), MS (Ec)

5. Decision Sciences

Offered to MS (Mgt)

6. Inferential Statistics

Offered to MS (Fin)

Doctorate

1. Advanced Quantitative Methods

Offered to PhD (Mgt)

Department of Skills Development

Introduction

Skills Development Department trains and equips the participants of UMT with the knowledge, skills and abilities to cater for their future leadership roles. Courses, final projects, internships, professional skills development workshops, and club activities under the umbrella of this department focus on the development of comprehensive and reliable learning frameworks that are best suited to personal grooming. The essence of all these activities is to achieve a higher level of moral ground, the courage to face the challenges of professional life, power of right attitude, and excellence in professional life with sensitivity for society in general.

Mission

To develop leaders for tomorrow

Core Courses

- Business Communication Workshop
- Communication Skills II
- Foreign Language
- Financial Communications
- Management Communications

- Management Field Presentations
- Business Presentations
- Life and Learning
- Professional Skills Development Workshops
- Internships
- Final Project
- Professional Skills Development Workshops

Build Your Confidence

Confidence is the building block of all performances. It is the central concept in leadership and strong personality. This one-day workshop aims to help students identify the techniques and skills for developing positive mental attitude and confidence.

Life and Learning

Life is all about learning. Success in life comes not only through hard work alone but by combining learning abilities with achievement oriented attitude. This one-day workshop seeks to help students identify and develop basic skills required to lead a happy and successful life.

Time and Stress Management

We all get 24 hours every day. It is the ability to productively manage our time that creates the difference in our results. Bad management of time creates stress. This one-day workshop equips participants with the tools and techniques of managing the self in relationship to time to enhance the quality of their lives.

Presentation Skills

Ability to present effectively differentiates the ordinary from the extraordinary. Presentation skills help the person to unlock the door for personal growth. Ability to control the energies of the audience gives a sense of power and charisma to the presenter. This training helps the participants not only in understanding the basic principles of powerful presentation techniques but also provides them with hands-on learning.

Influencing and Negotiation Skills

Influencing and negotiation are the key skills of a leader. Effective leaders and managers know how to get things done through motivating people. They have learned the art of converting a NO into a YES. This one-day workshop exposes the students to various types of powers they possess and develops their negotiation skills through various exercises and role plays.

Service Excellence

In this highly competitive world, service time is fast becoming the source of competitive advantage. Organizations have understood that good client relationship adds to the bottom line. From mere satisfaction, the concept has gone to the level of delighting your customer. This workshop is designed to help students understand the importance and techniques of high quality customer relationships within and outside the organizations.

Creative Thinking

Everybody is born creative. Unfortunately most of us do not focus on developing this skill. Thinking creatively is a skill that helps people become resourceful in times of crisis. This one- day workshop improves the ability of the participants to think creatively. It shares various tools and techniques for improving creative thinking skills of the participants.

Leadership Skills

Effective leadership is a set of certain behaviors that makes other people follow. The leader visualizes the future and develops people. Developing leadership behavior requires changing the mindset and preparing the people to face challenges and uncertainties. This one-day workshop seeks to expose students to leadership process and helps in developing understanding of some important leadership skills.

Team Building

TEAM stands for Together Everyone Achieves More. The art of team building is the epitome of the leadership process. The workshop takes the participants through the entire process of building teams. It discusses various issues associated with each stage. By the end of the workshop, participants get exposure to the process and challenges involved in building high performing teams.

Conflict Management

Any organization that aims to be effective and efficient in achieving its goals must have people who need to have a shared vision of what they are striving to achieve, as well as clear objectives for each team / department and individual. It also needs ways of recognizing and resolving conflict amongst people, so that conflict does not become so serious that co-operation becomes impossible. This one-day workshop enables the students to identify critical features and benefits of conflict management. It helps them to identify different types of conflict, various techniques for managing them, and differentiate between confrontational and collaborative reactions to a conflict.

Interview Skills and Resume Writing

Giving interview is an art. Interview is a communication process whereby the candidate tries to create favorable impression on the interviewing panel. Workshop on interview skills and resume writing teaches the participants how to overcome pre-interview anxiety and develop rapport in short period of time. It equips them to answer the questions and negotiate for the package. They also learn how to prepare an attractive resume to win an interview by convincing the potential employer that they are the ones he wants on his team.

Personal Grooming

People who are groomed and polished are more liked by people than those who are not. This training provides techniques and skills to the participants on how to make oneself feel and look great, project themselves in a positive manner, act confidently and learn what is important about grooming, poise and image. It highlights the importance of self improvement to pursue more successful opportunities in business and social relationships. The workshop imparts basic eating, dressing and other everyday etiquettes to the participants and enables them to intermingle with high profile gentry with ease.

Leadership Club (LC)

About Leadership Club

Leadership and team building is an important aspect of management that needs to be taught to young graduates before passing out. At LC, students get an opportunity to exercise learned attributes and behaviors on practical grounds through physical activities such as leading groups on various custom designed situations.

Why LC

- LC organizes workshops, seminars, events for the students to put their theoretical knowledge into practice and gain insight into the subject
- LC is a platform for students to explore their hidden potential and find true expression of their lives
- LC emphasizes on developing positive attitude, courage, confidence, motivation, group thinking, and decision-making; consequently bringing out the leadership residing within
- Through well structured learning programs, students learn their key strengths, group dynamics, and skills required to become effective leaders

Scope of LC

- Leadership Development
- Building Teams
- Outdoor Skill Development
- Exploring Remote Wilderness on Extended Expeditions
- Environment and Culture Study
- Community Service and Comradeship
- Enlightening and Self Discovery

Department of Information Systems

Introduction

The Department of Information Systems provides a broad perspective of the world, society, business and information systems by combining the study of management and information technology with those of social sciences and humanities. It then sharpens management concepts and develops the understanding of various aspects of information systems and technologies. Our goal is to be a leading academic department in cultivating business managers and professionals who possess up-to-date training and frontier knowledge of business technologies and services needed by companies and other institutions in Pakistan and abroad.

Whether you are pursuing your career as a manager, banker, financial analyst, economist, accountant or a consultant, you have to deal with the information system everywhere. Information System Department is committed to provide the highly sophisticated contemporary knowledge to the students of business areas.

Mission

The IS Department is committed to prepare participants as business leaders who possess technology insights. To prepare student as a competent, skilled, confident and socially responsible management professional's by integrating the concept of management with information system. The mission of the information system department is to provide students the best use of information systems for cutting the cost, time, and resources in order to amplify the revenue by improving the business processes and by engaging conceptual, analytical and managerial competencies transformed by outcome based learning experience.

Knowledge Scope

Information system basically provides knowledge regarding implementation of information tools in almost every field of life e.g. Accounting, Finance, Marketing, Management, Human Resource Management, Supply Chain Management etc. Concrete concepts of IS theories and practices impart assurance of Information systems usage and development. The Department's knowledge transfer activity is concentrated on emphasizing role of information systems for continuous business process improvement through weathered solutions authenticated by the business world. The Department also focuses on integration of all business areas leveraging on the latest information system tools and technologies to optimize business performance.

Core Courses

BBA

- Computer Application in Business
- Management Information System (MIS)
- E. Business

MBA

- Computer Application for Managers
- Management Information System (MIS)

Elective Courses

- Enterprise Resource Planning (ERP)
- Mobile Commerce
- Web Marketing and Analytics
- Business Process Management
- E. Business Management
- Business Intelligence
- Human Resource Information System (HRIS)
- Agile Project Management

Subjects Offered in BBIS Other Than BBA

- Computer Application for Business
- Management Information Systems
- Business Process Management
- Internet Programming
- Enterprise Resources and Planning
- Database Management Systems
- Electronic Business
- Data Communication and Networking
- Systems Analysis and Design
- Data Warehousing and Mining
- Decision Support System
- Software Quality Management

IST CLUB

What we do @ IST Club

- IST Seminars
- IST Events
- E-Business ideas competition
- Industry trip (Technology Park, IS Consultancy Firm)
- Network Based Gaming Competition

Activities at IST Club

- Workshop on “Microsoft ERP Product”
- Workshop on “Oracle e-Business Suite”
- One day hands-on training to “Website Authoring in Dreamweaver, Photoshop, Flash”
- Seminar on “Information Security” by Ascertia UK.

Industry Liaison

The Department of Information Systems has collaborations with:

- Maison Consulting and Solutions for Microsoft ERP
- Oranet Consulting for Oracle ERP
- Abacus Consulting for SAP ERP

Corporate Liaison Office

The Corporate Liaison Office at SBE serves as the bridge between the university experience of graduates and their employment, helping them apply in practical terms all that they have learned. By providing ample resources, programs, and counseling on career development, internships and employment, the Corporate Liaison Office assists graduates to make career decisions, connect with employers, and attain their life goals. The principles of service of the Office are as follows;

- We value each individual as unique and part of a diverse and inclusive community.

- We provide undergraduates, graduate students and alumni with caring, customized service, individualized to meet the changing needs of students and the job market.
- We participate in a wide range of partnerships with employers, local communities, academic and administrative departments to enhance the development of students.

Mission

To help the students and recent graduates of UMT identify and fulfill their career goals.

Objectives

- Placements of SBE graduates in multinational, large local organizations
- Career development and counseling for professional grooming of SBE graduates
- Brand building and promotion of UMT among the employers

Overview of Services

Corporate Liaison Office offers many programs and services to assist students of all majors and classifications at various stages of the career development process.

Career Planning

Professional staff is available to provide individual career counseling sessions for students of all majors and classifications. In general, career counseling aids students in making career-related decisions such as choosing a major or career.

To make a good referral, it is important to understand the nature of the services provided and how assistance from Career Services is different from academic advising. Career Services can help a student choose among educational and occupational options. These career decisions may involve self-assessment activities and identifying resources that are useful in the decision-making process. A Career Counselor helps a student look at the big picture of his or her career, while an Academic Advisor would be more effective in helping a student select specific courses to achieve career goals and meet academic requirements.

One of the most popular resources we offer is 'What Can I Do with This Major'? We encourage students to visit us to learn more about the major/career connection and to find links for them to achieve their objective. We also arrange workshops for all MBA/BBA batches on recruitment tests' preparations, interview and resume writing skills, time and stress management, and personal grooming to gear-up their personal and professional development.

Career Consulting

All the students of UMT can consult irrespective of their majors. During an appointment, students receive assistance for effective job search, resume writing, interview preparation, industry specific advising, multinationals application process, internships and co-ops, networking or career fair preparation.

Career Exploration

Career development exercises and additional materials on the topics of choosing a career, resume and CV preparation, the job search process, salary ranges, and employer and industry information can be used by students. A handbook on effective job search strategies and interview preparation is provided to every student for an insight into his personal strengths and employer needs.

Career Fairs

Corporate Liaison Office hosts a number of career fairs each year to expose students to various industries, employers and opportunities.

Job Leads

Job leads from various organizations and head hunters are received and posted daily to MBA, BBA Graduates and Alumni. A Graduate Directory of MBA, BBA graduates is also prepared every year and sent to over 1,000 national and multinational organizations throughout the country, while soft copies are mailed to over 5,000 organizations inside and outside the country for graduate placements.

We have also developed career services portal and social media group for SBE students to cater for the needs of our students as well as employers.

On-Campus Recruitment Drives

Corporate Liaison Office facilitates students by inviting various organizations at UMT for on-Campus recruitment drives and job interviews. Nishat Chunian and AcNielsen held pre-employment test at UMT in December 2011 and January 2012 respectively.

Mock Interviews

Students can practice interviewing and get constructive feedback from Peer Career Advisors and staff members. We also invite senior corporate executives and managers at lunch and learn activity for interaction of students with professionals to discuss career options and explore opportunities in their favorite companies.

Corporate Linkages

Corporate Liaison Office at SBE is engaged with corporate entities for various activities at the university, catering for the needs of both industry and academia. We not only build strong relationship with organizations to meet their human resource requirements, but also involve these to facilitate our university activities and events, as well as for brand awareness of UMT in the corporate sector. Organizations which are regularly invited for company presentations, recruitments include Nestle, Packages, TRG, Descon, ABB, Pepsi International, Coke, Worldcall, Nishat, Chenone, Mobilink, Ufone, Diamond Paints, Mitchell's, Tapal Tea, Faysal Bank, Meezan Bank. These organizations are not only reached for placement activities but also for sponsoring conferences, promotional activities and events at UMT.

Academic Programs

PhD Management

Mission

To produce internationally recognized researchers/academicians in the field of business management.

Objectives

The doctoral degree is designed to promote and strengthen research culture in the university. It is based on minimum three-year duration, extendable by two years. The studies in this program are relatively structured to ensure that students build on intellectual and broad based knowledge and skills. The program is at par with international standards and endeavors to produce high quality professionals who could serve effectively in academia and industry.

Career Prospects

PhD program offers broad opportunities to the scholars. The program best suits those seeking research and teaching careers in the future. They can play effective role in improving the quality of education by adopting the profession of educationists. They can be very successful in industry and can play strategic roles in decision making on the basis of their meticulous knowledge and training.

Teaching Learning Methodology

The emphasis of the program is to develop a comprehensive analytical approach covering both the quantitative and qualitative methodologies based on the research focus of the students. This is ensured through rigorous training and exposing the students to the latest concepts, tools and techniques, specifically issues in management research. The students receive extensive training in the use of statistical software packages including AMOS and RISREL.

The students on their part are motivated and required to apply their best intellectual and scholastic abilities to earn these degrees.

Admission Criteria

- Eighteen years degree with a minimum Cumulative Grade Point Average (CGPA) of 3.0 out of 4.
- The candidate will be required to pass GAT subject test with minimum of 60% marks.
- In the case of GRE subject test, the minimum requirement will be as 60% marks.

Curriculum Structure / Road Map

The minimum duration of the PhD program is three years that is further extendable to two years. The PhD scholar is required to complete 18 credit hours coursework in two semesters. After completion of the coursework, the student is required to sit for the comprehensive examination. At least "B" grade must be scored to pass the comprehensive examination.

Coursework (18 credit hours)

The PhD program offers the following elective courses:

- Globalization and the Firms
- Management of Public Sector Organization
- New Science of Life and Nature
- Knowledge Management and Information Sciences
- Management and Technology
- Change Management
- Economic Development and Policy
- Advanced Techniques in Quantitative Research
- Advanced Techniques in Qualitative Research
- Econometric Models and Forecasting

Comprehensive Examination

Before the commencement of thesis, every student has to take a comprehensive examination to demonstrate his/her grasp of knowledge covered in the coursework. The aim of the examination is to determine the student's ability to draw on the knowledge acquired through an integrated framework.

Doctoral Thesis

Thesis write-up starts after approval of the research proposal by the PhD Committee. Final doctoral thesis as per HEC policy is sent abroad for evaluation from two foreign experts. On the basis of the evaluation report by foreign experts, the students are required to take a viva examination. The examiners include external and internal examiner and where possible, the foreign experts who evaluated the written thesis. All scholars are required to publish a scholarly paper in an HEC recognized journal for the award of PhD degree.

MS Management

Introduction

The MS Management program is designed to provide leadership to make a difference in the field of management work, education and research. Based on a period of two-year duration, the program is designed to ensure that students develop broad-based knowledge and skills. Students go through rigorous training and are exposed to the latest concepts, tools and techniques in business management research.

Mission

To produce internationally renowned scholars in the field of business management and impart fundamental as well as advanced knowledge on business management and its related fields.

Objectives

The MS Management program is designed to provide leadership to make a difference in the fields of management-education, research and industry. The program has a very strong research focus which is grounded in specified coursework. Based on two-year duration for MS and minimum three years for PhD, the studies in this program are relatively structured to ensure that students build on intellectual and broad based knowledge and skills. The program aims at enhancing the research and academic activities of the scholars with a streamlined research training component. Students are motivated to learn and apply the research tools and to produce high quality research output. The objective is to enable students to develop analytical skills to identify the various business issues and to suggest possible solutions through their research work. Finally the program endeavors to produce high quality professionals who may serve effectively in academia and industry.

Career Prospects

MS program offers broad opportunities to the scholars. It is ideal for those seeking research and teaching careers. Graduates can play effective roles in improving the quality of education by adopting the profession of educationists. They can be very successful in industry and can play strategic roles in decision-making on the basis of their meticulous knowledge and training.

Teaching Learning Methodology

The emphasis of the program is on developing a comprehensive analytical approach encompassing both the quantitative and qualitative methodologies based on the research focus of the students. This is ensured through rigorous training and exposing the students to the latest concepts, tools and techniques specifically issues in management research. The students receive extensive training in the use of statistical software packages including AMOS and RISREL. The students on their part are motivated and required to apply their best intellectual and scholastic abilities to earn these degrees.

Admission Criteria

- Four-year Bachelor of Business Administration (BBA-H) degree or a Master in Business Administration (MBA) degree.
- 1st Division (where division criteria is applicable) or Cumulative Grade Point Average (CGPA) of 2.5 out of 4 in BBA/MBA or equivalent. Additionally the candidate must have passed entry test GRE general or NTS (GAT) with a minimum score of 50%. In case, the applicants have achieved 16 years education in any subject area other than business (MBA, BBA), and otherwise qualify for admission, he/she may be given admission in the program, but would be required to take deficiency courses. The decision to offer deficiency courses is made by the Center of Graduate Research (CGR) at SBE.

Curriculum Structure / Road Map

In one and a half year, i.e., within the first three semesters of the program, students are expected to complete the coursework of 24 credit hours (w.e.f. Fall 2011). Starting in the fourth semester, participant shall carry out research and produce MS Thesis.

Core Courses (6 credit hours)

All the students of the MS Management program are required to complete the following core courses with a total of 6 credit hours.

- Statistical Analysis for Management Research
- Research Methodology

Elective Courses (18 credit hours)

The students will be offered courses from the following list of electives, depending upon their focus and interest. They will have to complete 6 courses with a total of 18 credit hours.

- History of Management Thought
- Human Self and Behavior

- Leadership Theory and Practice
- Organization Theory
- Strategic Human Resource Management
- Strategy and Policy
- Managing Supply Chain
- Decision Sciences
- Integrated Management System

MS Thesis (06 credit hours)

MG-699 Thesis

(MS/MPhil Marketing)

MISSION STATEMENT

The Master of Science in Marketing seeks to enhance the frontiers of knowledge and research in the domain of marketing, by bridging the gap between academia and industry. This program shall inculcate critical thinking and analytical skills in the students, and enable them to add value to the ongoing processes and existing systems in public and private sectors.

RATIONALE

In this ever changing world of today and especially the ever increasing volatility of Pakistani markets, it is extremely important for marketeers to specify the information required to identify marketing opportunities, monitor marketing actions, and evaluate and improve marketing performance.

The motivation behind Master of Science in Marketing is to enable the students to address aforementioned issues, by sculpting traditional business operations into competitive tools for today's economy. With a distinguished faculty and future vision to develop industry-academia collaborations, UMT's underlying aspiration is to develop a leading program in the region. The program will train both students and professionals of Marketing to satisfy the increasing job market needs of local and multi-national firms in Pakistan and beyond.

PROGRAM DESCRIPTION AND OBJECTIVES

The two year program, Master of Science in Marketing, is highly challenging, extensively focused, and designed to transform the students into market leaders who have the capacity to generate creative and innovative solutions, and apply their acumen in real-world complex marketing issues.

The program emphasizes analytical and quantitative decision-making skills besides implanting the knowledge of marketing concepts, thus preparing the students for today's marketplace. Students will go through rigorous training and will be exposed to latest concepts, tools, and techniques in marketing research.

The exposure to latest tools and techniques will polish the technical skills and expertise gained through coursework. The students shall be given exposure to paradigms of Consumer Behavior, Brand Management, Services Marketing, Distribution, Integrated Marketing Communications and Strategic Marketing.

This program shall provide students with acumen of how to increase an organization's bottom line by implementing compelling marketing campaigns.

CAREER PROSPECTS

MS Marketing offers broad opportunities to both practitioners – who seek rewarding and challenging marketing positions in public, private, profit and non-profit sectors; and scholars – who seek research and teaching careers in education and social sectors.

ADMISSION REQUIREMENTS

Admission to Master of Science in Marketing requires a minimum of sixteen years of education. This could be a four-year undergraduate degree or a master's degree with a two-year undergraduate degree. Participants must have studied basic courses of Marketing. Those applicants without any prior marketing academia are also most welcome. However they will be required to take extra foundation courses in their first semester. Applicants without knowledge and background of business studies shall also be required to take foundation courses in the respective areas.

CURRICULUM STRUCTURE

The degree requirements include 24 credit hours of course work plus a 6 credit hours thesis. A core of 12 credit hours and an additional 12 credit hours of elective courses complete the course requirement.

ELECTIVE

Participants may study any two courses of 700 (PhD) level.

Three elective courses must be of Marketing.

Two electives may be studied from any other MS Program streams (e.g. Supply Chain, Management, Economics or Finance).

Program Duration:	2 years	Coursework:	24
Semesters:	4	Total Credit Hours:	30
Courses:	4 Core Courses, 4 Electives, and Thesis.		

CORE COURSES

Statistical Analysis for Management Research.

Strategy and Policy.

Research Methodology.

ELECTIVES

Consumer Behaviour Models (with PhD Marketing).

Strategic Brand Management (with PhD Marketing).

Culture and Persuasion

Marketing Models

Attitudes and Persuasion

Services Marketing & CRM.

Distribution & Logistics.

Integrated Marketing Communications.

Product Innovation & Development.

International Marketing

Strategic Marketing.

THESIS

Students will complete a 6-credit hours' thesis (including 1-credit hour research seminar).

COURSE DESCRIPTIONS

MK-715 Strategic Brand Management

The goal of the course is to identify the ingredients for building an inspired brand, where brand is defined as "a reputation" - departing from traditional perspectives of brand. The course is created for students interested in building their own brands and/or taking on the challenge themselves in the enhancement of an existing brand.

The course is comprised of lectures, cases, guest speakers, discussions, and class exercises, all of which culminate in a brand audit group project that students will present in the final class session. Broadly, the course will be divided into four parts:

Understanding Brand

Crafting Brand

Measuring Brand

Managing Brand

The course will provide students with an appreciation of the role of branding and (taking a consumer-centric approach) will augment students' ability to think creatively and critically about the strategies and tactics involved in building, leveraging, defending, and sustaining inspired brands.

MK-710 Consumer Behavior Models

The consumer is arguably the most important of many factors in the success of a firm. Is that so? If the consumer is so very important, what do we know about this consumer? How do we get to know this consumer? How can we develop sufficient understanding of the phenomenon that we know as the consumer? All of these questions and many more underscore the rationale for this course. To develop a clear understanding of the consumer we need to understand the principle and concepts of consumer behavior which should enable us in creating a successful strategy leading to a successful firm. Further we also need to know the methods and frameworks that will help us know this consumer.

Therefore the objectives of this course can be enumerated as follows

To become familiar with the ongoing research in the area of consumer behavior;

To understand and relate to the theoretical basis of developing models that help articulate the consumer behavior;

To develop a broad understanding of various concepts which will help in building critical thought in various areas of consumer behavior;

To create an understanding of various methods of research in the field, primarily the experimental and interpretive research designs and to develop skills in conceptualizing, operationalizing and formulating research agendas related to consumer behavior.

The course will broadly cover models including the theory of reasoned action (and derivatives such as the theory of trying and the theory of planned behavior), cognitive consistency and dissonance, social learning (and social cognitive) theory, protection motivation theory, gain or loss framing (prospect theory), diffusion theory, stages of change, applied behavioral analysis (learning theory), low versus high involvement decision making, informational versus transformational motivations, Influences of reference groups, the family, broader social influences will be covered, and the course will attempt to illustrate the crucial role of research in the course.

MK-720 Culture and Persuasion

The focus of this course is to understand the current theoretical and methodological approaches to various aspects of culture and persuasion, as well as advancing this knowledge by developing testable hypotheses and theoretical perspectives that build on the current knowledge base. The content of the course shall encompass basic and recent work in cultural psychology and related disciplines (psychology, anthropology and sociology).

The objectives of the course are to

Familiarize the students with research in cultural psychology, particularly in the context of consumer behavior;

Build a set of academic-oriented skills (e.g., critical thinking, presentations, review process, creating hypotheses and testing them creatively).

MK-615 Attitudes and Persuasion

This course will provide an overview of recent research on attitudes and persuasion. Content will include broad coverage of the issues of major importance to attitude theory, but will focus on more recent issues and controversies that have captured the interest of researchers in the field. The class will cover research areas such as: attitude change; persuasion, and resistance processes; implicit versus explicit attitudes; attitude certainty; cognitive versus affective influences; dissonance and attitudinal ambivalence; selective exposure and biased processing; metacognition; and others.

Students who take this course will become familiar with research methods and major issues in attitudes research and will have a better understanding of how individuals form, maintain, and change their evaluations. Throughout the course, students will be encouraged to critique existing research and formulate new research ideas.

MG-671 Strategic Management and Policy

At the core of strategic management literature lie the topics: success of a business firm; how one firm outperforms another; interaction of the environmental dynamics; and strategic decision and actions required by the firms to achieve strategic competitiveness in the shape of sustainable competitive advantage.

The course aims at developing the students' understanding of the theoretical underpinnings to strategic decision making. It further explores other areas of academic interest and their interaction with the strategic management of the organization. A natural outcome of this is to help students to understand how the pivotal links are created in managing an overall organization through external adaptation and internal integration. The course will bring to light the dynamics of Industry forces and will focus on how to foster growth and sustain competitive advantage by aligning resources and strategies in a coordinated, synergistic and integrated manner.

QM-620 Research Methodology

This course is planned for research students to develop and enhance their research skills both in research design and data collection. It is therefore clearly divided in two parts:

The philosophy of knowledge; the strengths and weaknesses of various types of research designs as they relate to the aims, objectives and theoretical underpinnings of any piece of research

The principal methods of data collection being used by researchers in the field of management

QM-610 Statistical Analysis for Management Research

The purpose of this course is to equip the participants with understanding of statistical techniques and tools that are essential for management research (both academic and industrial). The course will be much more about data analysis than statistics, per se.

Emphasis will be on such matters as inputting data, transforming and manipulating data, formulating strategies for data analysis, strategies for analyzing a database, performing statistical techniques using common software packages and interpreting results. The techniques covered will range from the relatively simple techniques associated with descriptive statistics using SPSS to such advanced techniques such as Factor Analysis, Correspondence Analysis, and Structural Equation Modeling.

MK-665 Marketing Models

This course will introduce the participants to various disciplines in marketing and the key researches that have been done in those areas. Participants will develop skills and ability to critique marketing literature, define research problems, and survey models in various areas of marketing. This will bring about comprehension and development of techniques for modeling of marketing phenomena.

MK-605 Services Marketing & CRM

This course will take a strategic approach to the study of Customer Relationship Marketing, providing students with the knowledge to plan, manage, and assess a CRM program from a non-technical perspective and to understand the strategic options for managing the customer experience for maximum customer equity.

MK-625 Distribution & Logistics

The course provides in-depth knowledge of the distribution channels and their importance in the entire value chain of the organization. The participants shall study interrelated sets of decisions or processes to achieve the goals of cost reduction and service enhancement, through text, practical examples and cases on distribution and logistic topics in the context of marketing.

MK-635 Integrated Marketing Communications

The course focuses on the theories, concepts, and applications of integrated marketing communications and addresses the specific activities involved in managing an advertising campaign, including research, media selection, copywriting, layouts and the role of ad agencies. The goal is to understand how marketing communications reaches and serves customers, and how it helps to shape consumer behavior.

MK-645 Product Innovation & Development

This course addresses the growing role of the product manager within the marketing organization, his or her role in new product development and management of technology transfer and the innovation process.

MK-655 International Marketing

This course covers marketing’s role at global level, how multinationals and global corporations are: using marketing across different cultures; manage their brands. The course further explores the impact of economic, cultural, political, legal and other environmental influences on international marketing. Within this context, we will discuss how to identify and analyze worldwide marketing opportunities, and examine product, pricing, distribution and promotion strategies.

MK-675 Strategic Marketing

This course focuses on examination of marketing strategy as a tool for optimizing short-term and long-term organizational goals in the dynamic global marketing environment through an analysis of real-world cases. Lectures and text readings provide the basis for translating the cases into marketing strategy concepts.

ROAD MAP

1st Semester	2nd Semester	3rd Semester	4th Semester
Statistical Analysis for Management Research	Elective course 1	Elective course 4	IM 799 Thesis
Strategy and Policy	Elective course 2	Elective course 5	
Research Methodology	Elective course 3		
<i>9 credit hours</i>	<i>9 credit hours</i>	<i>6 credit hours</i>	<i>6 credit hours</i>

MS Supply Chain Management

Mission

To create, apply, and disseminate knowledge of Supply Chain Management (SCM) by focusing on augmenting students' understanding of the role of SCM in enterprise strategy, introduce students to current world-class SCM operating practices, analytical methods, technology applications, and strategy development, and prepare them to develop a sound ability to integrate and apply this knowledge in organizations to enhance supply chain effectiveness

Objectives

The Master of Science in Supply Chain Management is a pioneer program at the national level. It is designed to develop managerial and leadership abilities in individuals to enable them to play effective roles in managing modern day supply chains. The objective is not only to expose students to the fundamental knowledge of business management but also to impart cutting edge analytical and quantitative decision-making skills, preparing them to take the challenges of effectively managing supply chains. Students in this program study the new supply chain paradigm that explores material, information, cash flow both in the forward and reverse chains, and the use of technology in managing these flows in an integrated manner. Students develop an understanding of the processes that drive their own organization and those that direct suppliers' and customers' businesses. Within this hierarchical decision framework, the program addresses the important leverage points for managing supply chains, i.e., inventories, facilities, transportation, and coordination. Finally the MS Supply Chain Management program focuses on making strategic decisions in such a way that alignment throughout the processes, corporate policies or visions and individual objectives of the departments/sections are not affected.

Career Prospects

Supply Chain Management, renowned for its broad applicability and career opportunities, offers career prospects in a wide variety of profit and non-profit business organizations. A specialist in this field may implement supply chain models in the manufacturing and service industry, public sector and consulting firms. In fact, recent research shows that the concepts are increasingly being applied in even non-profit organizations.

In today's high-tech and globally competitive world, supply chain management plays the most valuable role in business success. Industrial giants in Pakistan like Unilever, Nestle Pakistan, ICI, P&G, Pakistan Tobacco Company, Coca-Cola and many more have not only started realizing the criticality of this field but also have developed new departments of supply chain. A significant number of local companies have also taken this initiative and have benchmarked these multinational companies. This trend has created an immense demand for professionally trained supply chain managers to lead the supply chain processes. Job opportunities are anticipated to grow in the future as well. MS Supply Chain Management program also enables students to develop as effective academicians and researchers, and pursue their careers in education and research in this field.

Teaching Learning Methodology

The emphasis of the program is to develop a comprehensive analytical approach encompassing both the quantitative and qualitative methodologies based on the research focus of the students. This is ensured through rigorous training and exposing the students to the latest concepts, tools and techniques specifically issues in Supply Chain Management research. The students receive extensive training in the use of statistical software packages including AMOS and LISREL. The students on their part, are motivated and required to apply their best intellectual and scholastic abilities to earn the degree.

Admission Criteria

- Four-year Bachelor of Business Administration (BBA -H) degree or a Master in Business Administration (MBA)
- 1st Division (where division criteria is applicable) or Cumulative Grade Point Average (CGPA) of 2.5 out of 4 in BBA/MBA or equivalent. Additionally, the candidate must have passed entry test GRE general or NTS (GAT) with a minimum score of 50%. In case, the applicants have achieved 16 years education in any subject area other than business (MBA, BBA), and otherwise qualify for admission, he/she may be given admission in the program but would be required to take deficiency courses. The decision to offer deficiency courses are made by the Center of Supply Chain Research (CSCR) at SBE.

Curriculum Structure / Road Map

The degree requirements include 24 credit hours of coursework plus 6 credit-hour thesis. A core of 9 credit hours and an additional 15 credit hours of elective courses complete the course requirement.

Program Duration: 2 years

Coursework: 24

Total Credit Hours: 30

MS Thesis: 06

Core Courses

SM-615 Managing Supply Chains

SM-622 Supply Chain Modeling

QM-638 Research Methods and Techniques

Elective Courses

SM-648 Production Planning and Inventory Control

SM-620 Enterprise Resource Planning (ERP)

SM-644	Forecasting in Supply Chain
SM-630	Logistics Management
SM-650	Project Management
SM-653	Vendor Selection and Development
SM-659	Customer Relationship Management
SM-663	Strategic Distribution Channels
SM-687	Quality Assurance in Supply Chain Management
SM-683	Supply Chain Strategies
SM-628	Supply Chain Finance
Thesis	
SM-699	Thesis (including research seminar having one credit hour) OR
SM-697	Research Project

MS Economics

Introduction

MPhil/MS program in Economics is a 2-year degree program of 30 credit hours distributed in four semesters. The program has been designed by keeping into consideration the HEC requirements.

Rationale

The nation needs good analysts. More qualified teachers and researchers for academic institutions and other organizations are required. The MPhil/MS Economics program offered by UMT contributes towards satisfying this need.

Mission

To provide learning to the participants so that they are capable to lead the community, and develop and apply strategies for the integrated development of all sections of the society.

Objectives

Pakistan's economy is facing huge challenges. The School of Business and Economics at UMT plans to play a significant role to cope with these challenges by producing academically and technically more qualified human resources in economics. More specifically, the major aim of the program is to produce more qualified teachers for degree colleges and researchers/analysts for public/private organizations, banks and industry. The four year BS (Honors) program is expected to be launched at many degree colleges in Pakistan. The BS (Hon) program is being introduced in 26 top colleges in 12 districts of Punjab according to a report of the Dawn Daily published on P. 13, 29-7-2010. Therefore, the demand for teachers having MS degree in Economics will definitely increase accordingly as economics is opted as a major by most of the students in the social sciences group.

An additional aim of this program is to enhance the competitiveness of UMT graduates in economics so that they have edge not only in Pakistani labor market but are also able to compete for jobs in the international labor markets just like graduates of other internationally recognized universities.

Career Prospects

Graduates of this program are prepared for a wide variety of entry level positions in economics. They can be considered for jobs in both public and private educational institutions, research organizations, State Bank of Pakistan and commercial banks. They can also hold positions in various Federal and Provincial ministries.

Admission Criteria

- i) The candidate must have 1st Division (where division criteria is applicable) or Cumulative Grade Point Average (CGPA) of 2.5 out of 4 in MA/MSc (Econ., Ag. Econ. or Business Econ.) or equivalent degree in Economics after 16 years education from an institution/university recognized by HEC.
- ii) No 3rd division in entire academic career (where 'division' criteria is applicable). No 'D' grade in entire academic career (where 'grade' criteria is applicable).
- iii) Passed entry test GRE General or NTS (GAT) with a minimum score of 50%

Curriculum Structure / Road Map

In one and a half year, i.e., within the first three semesters of the program, participants are expected to complete the coursework of 24 credit hours. In the fourth semester, participants shall carry out research and produce MPhil/MS thesis of 6 credit hours.

Course Work*

Compulsory Courses

EC-600	Advanced Microeconomics
EC-605	Advanced Macroeconomics
EC-610	Advanced Econometrics
EC-620	Methodology of Economics Research

Elective Courses

EC-630	Islamic Economics: Theory and Policy
EC-632	Topics in Agricultural Economics
EC-634	Topics in urban Economics
EC-636	Topics in Labor Economics
EC-638	Optimization Techniques
EC-640	Economic Growth Models
EC-641	WTO, Globalization and Economics Integration
EC-643	Project Analysis and Investment Decision Making
EC-648	Advanced International Economics
EC-652	Population Dynamics
EC-654	Topics in Advanced Monetary Economics
EC-658	Applied Econometrics
EC-660	Topics in Development Economics
EC-662	Topics in Human Resource Development
EC-666	Production Economics
EC-670	Public Policy and Macroeconomics Management
EC-672	General Equilibrium and Welfare Economics

MS Thesis

The MS Thesis shall be of 6 credit hours. A participant shall be allowed to start working on the thesis after completing the coursework of 24 credit hours with a minimum CGPA of 2.5 out of 4.

Master of Business Administration (MBA)

Introduction

The Master of Business Administration (MBA) program at the School of Business and Economics (SBE) is rigorous, result oriented, globally focused and application based. Taught by one of the finest business faculty in the country, the program is delivered in an environment of mutual learning, teamwork, cutting edge research and dynamism. The MBA at SBE is an interactive program where students are not afraid to challenge the professor and engage in a constructive dialogue. In the supportive environment of SBE, students not only acquire knowledge but also skills, experience and necessary networking needed to become successful in today's competitive world.

The MBA curriculum has been designed to present powerful theoretical constructs, analytical methods and decision processes. Students are repeatedly encouraged to apply their knowledge and skills using real world projects and case studies. The aim is to involve the students in evaluating various contingencies and risks involved.

Our MBA curriculum, faculty, research, development, methodology for teaching, course organization and general administration was approved by National Business Education Accreditation Council (NBEAC) in May 2012 with flying colors. The NBEAC accreditation is expected to arrive by Fall 2012. South Asian Quality Assurance Systems (SAQS) and European Foundation for Management Development (EFMD) will be our next targets in order to achieve not only regional but also global excellence.

Mission

To govern the corporate world with the excellence absorbed by its students, enrich the students to prepare themselves meticulously for their professional achievements, and transform them into general entrepreneurs and managers in the fields of Supply Chain Management, Marketing, Management, Human Resource Management, Information Systems, Finance and Applied Banking through standardized and mature pedagogy.

Learning Objectives

The MBA program at SBE aims to:

- hone participants' abilities through a well developed and diversified program designed to equip graduates with essential leadership skills;
- produce graduates who have well-rounded entrepreneurial skills - who not only have great ideas, but can also make things happen by starting their own ventures;

- prepare participants for steering an organization through the difficult and turbulent global environment and enable the development of an implementable strategic business plan;
- develop participants' expertise in order to increase their resourcefulness;
- inculcate skills for evidence based decision-making in participants;
- enhance the proficiency of the graduates and groom them to deal with complex business situations; and
- help them become ethical and socially responsible managers.

Career Prospects

Traditionally, the MBA degree is pursued soon after the bachelor degree by individuals whose primary interests are in business careers. But there is evidence that a growing number of scientists and engineers are also finding the MBA valuable in the pursuit of their career aspirations as well, and this is the proof of this degree's strength.

If we consider the job market, you will be surprised to know that 60% jobs are for business graduates who have completed their BBA or MBA. These business degrees are very good blend of business knowledge and leadership skills that are built up through regular presentations and research work. An MBA degree demands group projects, assignments, reports and a wide range of activities that provide both leadership and managerial skills which lead towards a wide range of career prospects. No wonder then that 60% of total jobs announced every week are for business graduates because they can be easily utilized in marketing, sales, business development, advertisement, finance and accounts, supply chain, warehouse, procurement, transportation, administration, distribution and many other fields. In short, MBA is one of the most powerful degrees that opens up different opportunities and provides you a complete and highly successful career path, most notably in the following areas:

- Education/ Government/ Public Policy/ Not-for-Profit
- Consulting
- Entrepreneurship/ Small Businesses
- Operations and Supply Chain Management
- Finance and Accounting
- General Management
- Human Resources Management
- Information Systems Management
- Marketing Management

Curriculum Structure

There are three pathways to get MBA degree at the School of Business and Economics (SBE).

Pathway 1 MBA degree program (33 credit hours) for 4-year BBA degree / 2-year BBS degree holders.

Pathway 2 MBA degree program (69 credit hours) for 4-year non-business bachelor degree holders.

Pathway 3 MBA degree program (96 credit hours) for 14-year degree holders.

PATHWAY # 1

Admission Requirement At least 16 years of formal education leading to BBA or a 2- year BBS degree after 14-year education.

Program Summary

Duration 1 ½ years

Semesters 3 full semesters

Courses 5 core courses and 6 elective courses

Credit Hours 33

PATHWAY # 2

Admission Requirement At least 16 years of formal education leading to MA, MSc, BE, BS, MBBS, CA, ACMA, B-Pharm, MCom degrees

Program Summary

Duration 2 years

Semesters 4 full semesters

Courses 16 core courses, 4 elective courses and 3 free electives

Credit Hours 69

PATHWAY # 3

Dual Degree Program

BBS leading to MBA Program

This BBS + MBA Program has been designed for individuals who have already received 14 years of formal education from a recognized institution and have one of the following degrees or equivalent: BA, BSc, BCom, etc. The program ensures that students get a common knowledge base required for further learning prior to pursuing the MBA degree program. This program, therefore, consists of two phases.

In the first phase, students spend two years studying foundation and core business courses and are eligible to obtain a Bachelor of Business Studies Degree if they decide not to move to the MBA program.

In the second phase, applicants study advanced business courses and electives to obtain MBA Professional Degree. The MBA degree will be awarded after completion of the full three and half years study, i.e., 96 credit hours.

Phase I – Bachelor of Business Studies (BBS)

Admission Requirement At least 14 years of formal education leading to BA, BSc, BCom, etc.

Program Summary

Duration 2 years

Semesters 4 full semesters

Courses 9 foundation courses, 11 core courses and one elective

Credit Hours 63

PATHWAY # 3

Phase II – MBA Program

(After completion of 2 years BBS)

Admission Requirement BBA or BBS or equivalent

Program Summary

Duration 1 ½ year

Semesters 3

Courses 5 core courses, 6 elective courses

Credit Hours 33

Note: The curriculum is based on 5 levels of coursework.

- Core management courses
- Elective courses for specialization
- Professional skills development workshop
- Internship

Business Internship of 6-8 weeks shall be the requirement for award of MBA degree.

Professional Skills Development Workshops are a mandatory part of MBA degree.

Free Elective is a course that is added in the curriculum in order to include cross-functionality in it. The course can be taken from the list of electives which is not part of the specialization area to enhance multi-dimensional skills.

Year Wise Courses / Road Map

1st Year

- Communication
- Skill I
- Business Mathematics
- Computer Applications

- Dynamics of Management
- Business Ethics
- Communication Skill II
- Quantitative Techniques and Methods
- Business Economics
- Business Law

2nd year

- Financial
- Accounting

- Organizational Behavior
- Marketing Management
- Managerial Accounting
- Business Communication Workshop
- Data Modeling and Decisions
- Operations Management
- Management Information System
- Business Research
- Human Resource Management
- Financial
- Management
- Free Elective

3rd Year

- Managing Supply Chains
- Strategic Marketing Management

- Managerial Economics
- Corporate Finance
- Strategic Management
- Free Elective
- Elective I
- Elective II

4th Year

- Elective III
- Elective IV
- Free Elective

MBA (Professional) Evening Program

Introduction

If you want to pursue your education while maintaining your job with minimal disruption, then UMT Evening MBA is the right choice for you. At UMT, we have designed the program for people just like you, i.e., people who want to learn from leaders in academia and the business community, and like to excel in their fields. Analytical mindset, futuristic skill set and innovative approach are some of the outcomes of the MBA Evening graduates at UMT.

Classes meet from 6:30 pm to 9:30 pm in the evenings for four to five days a week. You interact with like-minded classmates in a dynamic setting, network with professors and managers who understand your unique needs of advancing in your career.

Earning the degree is just the beginning. When you enroll in the UMT Evening MBA program, you begin a lifelong journey and partnership with learning for leadership.

Rationale

When considering the pursuit of an MBA, one of the first options you're likely weighing is going back for full-time morning MBA or opting for part-time evening MBA. Traditionally, it has been believed that for graduate students in business, the decision to attend school full-time morning MBA vs. part-time evening MBA largely depends on whether you want to continue on a pre-established career path or alternatively change careers or industries. However, with the recent recession and unemployment trends, more prospective MBA candidates are trying to maintain their current jobs, pursue a part-time evening MBA and in some cases, use their new network of schoolmates, or career placement offices on campus to parlay into a new career.

Mission

To govern the corporate world with the excellence absorbed by its students, enrich the students to prepare themselves meticulously for their professional achievements and transform them into general entrepreneurs and managers through standardized and mature pedagogy in the fields of Marketing, Management, Human Resource Management, Supply Chain Management, Information Systems, Finance and Applied Banking.

Objectives

The objective of the MBA (Professional) Evening program is to develop competencies in SBE graduates to become inclined to involve themselves in a lifelong learning process to excel and lead in their professional area of endeavor. The program develops a capability to apply logical, ethical, and innovative thinking to become an effective problem solver giving due consideration to ethics, equity and social reasonability. It helps to inculcate skills for evidence based decision-making in participants and develops their expertise in order to increase their resourcefulness.

Career Prospects

You won't be on your own when it comes to your job search. At SBE, we have a full fledged Office of Career Services that has a Career Development and Placement Section. The primary responsibility of this section is to enhance the professional skills portfolio of both students and alumni by organizing a wide range of career related activities such as workshops, individual advisory services, comprehensive job posting, on-campus recruitment facilities, and opportunities to meet industry professionals during activities specifically designed for the purpose. At SBE, being MBE (Professional) Evening student grants you access to a wide range of resources and programs designed to help you on the road to your career aspirations. Whether you want to enhance your skills to further your career at your current organization, or you are interested in moving into an entirely new function, industry, or geographical area, we are eager to support your efforts.

Curriculum Structure

There are three pathways to get a degree after studying in MBA (Professional) Evening program at the School of Business and Economics (SBE).

- Pathway 1 MBA degree program (33 credit hours) for 4-year BBA degree / 2-year BBS degree holders.

- Pathway 2 MBA degree program (69 credit hours) for 4-year non-business bachelor degree holders.

- Pathway 3 MBA degree program (96 credit hours) for 14-year degree holders.

PATHWAY # 1

16 Years BBA to MBA Program

This program has been designed for applicants who have already received a four-year Bachelor of Business Administration (BBA) / Bachelor of Business Sciences (BBS) Degree from a recognized institution. This one-and half year program consists of a total of 33 credit hours.

Admission Requirement	At least 16 years of formal education leading to BBA
Duration	1 ½ years
Semesters	3 full semesters
Courses	5 core courses and 6 elective courses
Credit Hours	33

PATHWAY # 2

MBA Program

This MBA Program is for applicants who have already received 16 years of formal education and have one of the following degrees or equivalent:

MA, MSc, MS, BE, BS, MBBS, B-Pharm, M.Com, CA, ACMA, etc.

This program consists of 69 credit hours of advanced management graduate coursework. It is designed for completion within two years (four semesters).

Admission Requirement	At least 16 years of formal education leading to MA, MSc, BE, CA, ACMA, B-Pharm, MCom degrees
Duration	2 years
Semesters	4 full semesters
Courses	16 core courses, 4 elective courses and 3 free electives
Credit Hours	69

PATHWAY # 3

Dual Degree Program

BBS leading to MBA Program

This BBS + MBA Program has been designed for individuals who have already received 14 years of formal education from a recognized institution and have one of the following degrees or equivalent:

BA, BSc, BCom, etc.

The program is designed to ensure that students get a common knowledge base required for further learning prior to pursuing the MBA degree program. This program, therefore, consists of two phases.

In the first phase, students spend two years studying foundation and core business courses and are eligible to obtain a Bachelor of Business Studies Degree if they decide not to move to the MBA program.

In the second phase, applicants study advanced business courses and electives to obtain MBA Professional Degree. The MBA degree will be awarded after completion of the full three and half years study, i.e., 96 credit hours. However, if a student desires to leave after completing Phase I of the Program (BBS degree), he/she will be required to take the internship (6 weeks) after completing all the coursework requirements for the BBS Degree.

Phase I – Bachelor of Business Studies (BBS)

This program consists of 63 credit hours of coursework. It is designed for completion within two academic years (four semesters).

Coursework

Admission Requirement	At least 14 years of formal education leading to BA, BSc, BCom, etc.
Duration	2 years
Semesters	4
Courses	9 foundation courses, 11 core courses and one elective
Credit Hours	63

Phase II

After completion of 2-year BBS

This program consists of 33 credit hours of management graduate coursework. The program is designed for completion within one and half academic year (three semesters).

Admission Requirement	BBA or BBS or equivalent
Duration	1 ½ year
Semesters	3
Courses	5 core courses, 6 elective courses
Credit Hours	33

Note: The curriculum is based on the following coursework

- Core management courses
- Elective courses for specialization
- Internship

Business Internship of 6-8 weeks shall be the requirement for award of MBA degree.

Free Elective is a course that is added in the curriculum in order to include cross-functionality in it. The course can be taken from the list of electives which is not part of the specialization area to enhance multi-dimensional skills.

Weekend Executive MBA

Introduction

Since its launch in 1992 for the first time in Pakistan, the Executive MBA is a pioneering initiative with a superior mix successfully run by SBE. After analyzing the needs of the executive student body, the executive MBA program is now being offered on weekends in order to give more flexibility to the executives in view of their busy schedule. The Weekend Executive MBA curriculum has been developed to merge abstract constructs with real time business applications. The intensive knowledge of practical implications is one of the immersed necessities of the corporate sector; therefore, students of the Weekend Executive MBA program are fine-tuned with scientific and updated tools to analyze the routine and complex situations for productive outcomes.

Rationale

- Fits your schedule
- No leave from work required (offered over the weekend)
- Transformational learning through hands-on approach from training rooms to workplace
- Highest number of industry-centric course offering
- Newly built building with state-of-the-art pedagogical facilities
- Local and global acceptance
- Outcome based learning through case study, discussion and projects
- Business networking
- Renowned faculty (mostly PhD's or foreign qualified Master level leading to PhD)

Mission

To cultivate holistic concept of leadership in working professionals who are eager to meet the challenges of the business world, engage their professional skills, and nurture their talent for the upcoming challenges of the global businesses.

Objectives

The Weekend Executive MBA Program aims to deliver precise combination of coursework and skill development keeping “outcome based learning” as its primary objective. The program is specifically designed for professionals to become globally competitive in the business environment. It promotes their decision-making, risk taking and interpersonal communication skills, teamwork capability, and leadership traits. The hallmark of SBE's Weekend Executive MBA program lies in mastering of functional knowledge, quantitative and qualitative learning, practical applications and strategic orientation.

Career Prospects

The successful completion of this program would lead participants to advance on their existing corporate positions or join new lucrative careers in both public and private sectors. This program also provides a solid platform to individuals who are in pursuit of their careers as successful businessmen and are able to handle entrepreneurial startups of their own.

Teaching Learning Methodology

Outcome based coursework at the weekend Executive MBA program involves the following tools as our preferred teaching methodology.

- Case Study
- Applicative Exam
- External Speakers
- Projects
- Presentations
- Interactive Learning
- Term Paper
- Scenario Building
- Discussion Lead
- Take Home Assignments

Admission Criteria

This program has been designed for applicants who have already received at least 14 years of HEC recognized formal education and/or have one of the following degrees or equivalent:

BA, BSc, MA, MSc, MBBS, B-Pharm., CA, ACMA etc.

The candidate should have at least 4 years of post-graduation managerial experience with 14 years of education or a minimum of 2 years of post-graduation work experience with 16 years of formal education.

Curriculum Structure / Road Map

A participant is required to take the normal course load of five subjects per semester for successful completion of the degree program within the stipulated time period of 2 years. Understanding the busy schedules of professional executives, participants can register in the courses offered over the weekends and opt for a flexible schedule. One course is spread over three (3) weekends. Classes are held on Saturdays and Sundays. Each weekend is counted as 1 module for the course and three (3) modules (over 3 weeks) will comprise of three (03) credit hours which are equivalent to one course.

DISCIPLINE

Preliminary Courses

- Management
- Marketing
- Accounting and Finance
- Operation and Supply Chain
- Electives or Last Term Courses

COURSE 1

- Business
- Communication
- Workshop
- Management Theory and Practice
- Marketing for Managers

- Financial and Managerial Accounting
- Quantitative
- Techniques for
- Managers
- Elective I Or Management

COURSE 2

- Contemporary Issues in Global Economy
- Human Resource
- Management
- Business Research
- Managerial Finance
- Data Modeling
- and Decisions
- Elective 2 Or Marketing

COURSE 3

- Management
- Information Systems Or Business Law
- Organizational Behavior
- Strategic Marketing
- Financial Strategy and Policy/Corporate Finance
- Operations Management
- Elective 3 Or Accounting and Finance

COURSE 4

- Business Strategy and Policy (BSP)
- Entrepreneurship
- Managing Supply Chain
- Elective 4 Or OSC 5

Specialization Course Areas

- General Management
- Human Resource Management
- Marketing
- Finance
- Applied Banking
- Information Technology
- Supply Chain Management
- Law and Policy

Program Summary

(duration, credit hours, and number of courses)

The Weekend Executive MBA Program consists of 22 courses spread over two (2) years. On completion of core courses, the candidates then select their specialization from a rich blend of options which caters to their job profiles, backgrounds and interests.

SBE's Weekend Executive MBA program is flexible and does not require leave from business. The program develops a holistic vision for leadership as executives discuss in total perspective the real world issues, local scenarios and problems. The participants get sophisticated awareness of the global, technological and competitive forces that shape businesses and develop problem-solving analytical skills directly related to specific business scenarios.

Bachelor of Business Administration - BBA (H)

Introduction

The Bachelor of Business Administration (BBA (H)) equips the students with all the tools required to cope with constantly rising business needs. Equipped with an excellent blend of knowledge and practicality, the program is capable of producing professionals that the corporate world is seeking. The core business concepts that need to be applied heavily in today's world are injected into the students, giving them the required skills to cater for diverse business needs.

Rationale

The world is becoming a global village; the ever growing competition is stretching every organization. Organizations are striving to capture the smallest of opportunity that is available. The severe global competition creates intense demand for managers who are equipped with business knowledge and are able to keep pace with the industry. Business administration education fuels the students with all the credentials which are essential for good managers or entrepreneurs. Due to these factors, the market is always in high demand for such business graduates.

Mission

To produce business graduates who can match the traits of graduates from the leading areas of the South Asian region by actualizing strategic partnership with stakeholders including students, their parents, the faculty, corporate employers as well as our employees and the society at large, create value for both business and academia by engaging graduates in useful research and consultancy projects, and foster enduring values and project sustainable practices.

Objectives

The BBA –H program aims to:

- inculcate business knowledge and analytical skills in graduates to think decisively in order to develop innovative solutions to problems in a business environment;
- steer an organization through the difficult and turbulent global environment and enable the development of an implementable business plan;
- provide a progressive and structured framework to graduates that enables them in developing and applying knowledge set of critical and ethical evaluation;
- craft graduates' expertise in order to increase their resourcefulness; and
- develop the knowledge and contemporary professional capabilities beyond the formal academic training.

Career Prospects

The BBA program at SBE prepares students to take up careers in Marketing, Finance, Information Systems, Entrepreneurship, Management, International Business and Supply Chain Management in leading organizations. BBA graduates also have the options to pursue high level education in variety of fields including MBA, MS/PhD, in various concentration areas not only in local institutes but also in leading foreign universities as well.

Admission Requirement

At least 12 years of formal education with minimum 2nd Division

Curriculum Structure BBA (H)

Semester-I

Course Code	Course Name	Cr Hrs	Pre-requisite
EN-111	English Grammar and Comprehension	3	
QM-110	Business Mathematics	3	
IS-125	Computer Applications in Business	3	
MG-110	Introduction to Business	3	
EC-210	Micro Economics	3	
SC-200	Pakistan Development and Reconstruction	3	
	Total	18	

Semester-2

Course Code	Course Name	Cr Hrs	Pre-requisite
SD-110	Life and Learning	3	
QM-230	Business Statistics	3	Business Mathematics
EN-125	Composition and Communication	3	English Grammar and Comprehension

AC-120	Fundamentals of Accounting	3	
SC-165	Introduction to Psychology	3	
MG-230	Business Law	3	Introduction to Business
	Total	18	

Semester-3

Course Code	Course Name	Cr Hrs	Pre-requisite
IS-240	Management Information Systems	3	Computer Applications in Business
EC-220	Macro Economics	3	Micro Economics
MK-210	Principles of Marketing	3	Introduction to Business
SC-310	Islamic Perspective in Business	3	Pakistan Development and Re-construction
MG-120	Principles of Management	3	Introduction to Business
EN-220	Research Paper Writing	3	Composition and Communication
	Total	18	

Semester-4

Course Code	Course Name	Cr Hrs	Pre-requisite
EN-310	English for Specific Purposes (Business)	3	Research Paper Writing
OM-325	Decision Models	3	Business Statistics
FN-340	Business Finance	3	Cost Accounting
AC-300	Cost Accounting	3	Fundamentals of Accounting
SD-420	Foreign Language	3	
MG-330	Organizational Behavior	3	Principles of Management
	Total	18	

Semester-5

Course Code	Course Name	Cr Hrs	Pre-requisite
OM-345	Production Operations	3	Models Decision Management
MK-435	Business Research and Intelligence	3	Principles of Marketing
FN-440	Financial Management	3	Business Finance
MK-320	Marketing Management	3	Principles of Marketing
MG-360	Leadership Skills	3	Organizational Behavior
	Total	15	

Semester-6

Course Code	Course Name	Cr Hrs	Pre-requisite
IS-410	E-Business	3	Management Information Systems
	Elective I	3	
EC-315	Development Economics	3	Macro Economics
SC-160	Introduction to Sociology	3	
MG-350	Managing Human Capital	3	Organizational Behavior
	Total	15	

Semester-7

Course Code	Course Name	Cr Hrs	Pre-requisite
SD-300	Skills Development Workshops	3	
MG-365	Entrepreneurship	3	MK-435 FN-440
	Elective II	3	
	Elective III	3	
	Total	12	

Semester-8

Course Code	Course Name	Cr Hrs	Pre-requisite
MG-480	Business Strategy	3	
	Elective IV	3	
SD-490	Research Project	6	
	Total	12	

Specialization Areas

- Marketing
- Supply Chain Management
- Finance Management
- International Business
- Information Systems
- Entrepreneurship
- Islamic Banking

Program Summary

Duration:	4 years
Semesters	8 full semesters
Courses	42
Credit Hours	126
CGPA Requirement	2.50

Bachelor of Business and Information Systems - BBIS (H)

Introduction

Information systems are the foundation of modern organizations. Companies of all sizes are heavily dependent on these systems to support their decision-making process. Organizations need professionals who can pull together results of their efforts into value-adding solutions using Information Technology. BBIS offers both coursework and Industry Based Learning (IBL). Once students finish their coursework, they are required to gain industry experience in their final year through our corporate partners. It enables them to put their knowledge and skills into practice on a real-life problem. The degree has been designed to produce information and business graduates, and equips them for new business-critical information system roles.

Mission

To provide students clout on best use of Information Systems for cutting the cost, time and resources in order to amplify the revenue by restructuring the business processes and by engaging conceptual, analytical and managerial competencies transformed by outcome-based learning experience.

Program objectives

The program aims to:

- inculcate business knowledge and analytical skills in graduates to think decisively in order to develop innovative solutions to problems in a business environment;
- steer an organization through the difficult and turbulent global environment and enable the development of an implementable business plan;
- provide a progressive and structured framework to graduates that enables them in developing and applying knowledge set of critical and ethical evaluation;
- craft graduates' expertise in order to increase their resourcefulness; and
- develop the knowledge and contemporary professional capabilities beyond formal academic training.

Program Outcomes

Major objectives of Information Systems program are:

- analyze and solve complex business problems using information technology;
- apply sound management principles to the functions of planning, organizing, coordinating and decision-making, while focusing on information systems;
- assess the foundations of organizational behavior and keys to change management;
- specify and communicate appropriate design and implementation requirements for system development projects;
- analyze an organization's information systems requirements and align these with long-term business objectives;
- facilitate short, medium and long-term business goal attainment through the integration of planning and IT;
- identify areas where ethical issues may arise as a result of the use of technology; and
- apply project management principles to information systems development efforts.

Career Prospects

Information services and business systems are closely coupled in the contemporary world. The information services industry is one of the most rapidly growing and changing industries. A career in information systems is a promising one. Information Systems field has diverse career options. These include job titles such as Chief Information Officer (CIO), Chief Technology Officer (CTO), Manager Information System (MIS), Project Manager, ICT Business Analyst, ICT System Analyst, Enterprise Resource Planning Consultant, Technology Consultant, Information System Engineer, Information System Security Specialist, Website Developer and Internet Security Officer.

Admission Requirement

At least 12 years of formal education with minimum 2nd Division

Curriculum Structure BBA (H)

Semester-I

Course Code	Course Name	Cr Hrs	Pre-requisite
EN-111	English Grammar and Comprehension	3	
QM-110	Business Mathematics	3	
IS-125	Computer Applications in Business	3	
MG-110	Introduction to Business	3	
EC-210	Micro Economics	3	
SC-200	Pakistan Development and Reconstruction	3	
Total			18

Semester-2

Course Code	Course Name	Cr Hrs	Pre-requisite
SD-110	Life and Learning	3	
QM-230	Business Statistics	3	Business Mathematics
EN-125	Composition and Communication	3	English Grammar and Comprehension

AC-120	Fundamentals of Accounting	3	
IS-250	Database Management System	3	
MG-230	Business Law	3	Introduction to Business
Total			18

Semester-3

Course Code	Course Name	Cr Hrs	Pre-requisite
IS-240	Management Information Systems	3	Computer Applications in Business
AC-300	Cost Accounting	3	Fundamentals of Accounting
MK-210	Principles of Marketing	3	Introduction to Business
IS-360	Data Communication and Networking	3	Pakistan Development and Reconstruction
MG-120	Principles of Management	3	Introduction to Business
EN-220	Research Paper Writing	3	Composition and Communication
Total			18

Semester-4

Course Code	Course Name	Cr Hrs	Pre-requisite
EN-310	English for Specific Purposes (Business)	3	Research Paper Writing
OM-325	Decision Models	3	Business Statistics

FN-340	Business Finance	3	Cost Accounting
EC-220	Macro Economics	3	Micro Economics
IS-380	System Analysis and Design	3	
MG-330	Organizational Behavior	3	Principles of Management
Total			18

Semester-5

Course Code	Course Name	Cr Hrs	Pre-requisite
IS-370	Internet Programming	3	Decision Models
MK-435	Business Research and Intelligence	3	Principles of Marketing
FN-440	Financial Management	3	Business Finance
MK-320	Marketing Management	3	Principles of Marketing
IS-375	Business Case Development	3	Organizational Behavior
Total			15

Semester-6

Course Code	Course Name	Cr Hrs	Pre-requisite
IS-410	E-Business	3	Management Information Systems

OM-345	Production operations Management	3	
IS-351	Data Warehousing and Mining	3	Macro Economics
SC-160	Introduction to Sociology		3
MG-350	Managing Human Capital Organizational Behavior		3
	Total		15

Semester-7

Course Code	Course Name	Cr Hrs	Pre-requisite
SD-300	Skills Development Workshops	3	
MG-365	Entrepreneurship	3	MK-435 FN-440
IS-385	Business Process Modeling		3
IS-490	Decision Support System		3
	Total		12

Semester-8

Course Code	Course Name	Cr Hrs	Pre-requisite
MG-480	Business Strategy	3	
IS-620	Enterprise Resource Planning	3	
IS-608	Web Marketing and Analytics	3	
SDW-491	Internship	3	
	Total	9	

Program Summary

Duration	4 years
Semesters	8 full semesters
Courses	42
Credit Hours	126
CGPA Requirement	2.50

Our Threat

is represented
by the moments
when human beings
succumb to the forces
bent upon diminishing,
deviating, and annihilating
the boundless potential
of human assets
originally created
in the finest possible shape
by the Creator.

**School of
Science and Technology**

Message from the Dean

Welcome to the School of Science and Technology (SST) at the University of Management and Technology (UMT), Lahore, which provides a unique environment for learning, sharing, creating, and dissemination of knowledge through teaching and research to the society at large. It is the policy of SST that no person on the basis of race, sex, color, creed, religion, national origin or ancestry, age, material or any other status, shall be discriminated against in admission, educational programs, employment, or in any other activities. UMT maintains an international mix of students that come from many countries in the world. The School offers BS, MS and PhD degrees with the goal of producing well-rounded high quality professionals in the broad discipline of engineering, computer science, information systems and technology. Interdisciplinary degrees are possible at all levels.

As one of the leading universities in the country, we benchmark and update our science, engineering and technology programs, curriculum, text-books, science and engineering laboratories, library facilities, and teaching-learning methodology against the leading universities in USA, Europe, and Asia. This helps us achieve a competitive edge, and excellence in teaching and research, as well as maintain and impart depth, breadth, quality and level of education of an international standard.

The well-qualified, knowledgeable and visionary faculty of SST include world-class researchers and scholars, who are dedicated and committed to the cause of providing the best international level science and engineering education to our students that helps them lead the way for bigger, better, successful and brighter future anywhere in the world. Indeed, it is always the hard and intelligent work of visionary teachers and students together that makes a university shine and famous. We pride ourselves on the real world relevance of our educational programs and courses, and the fact that our graduates are overwhelmingly accepted for higher studies in well respected universities as well as for employment in all sectors of government, business and industry here in Pakistan and abroad in the USA, UK, Europe, Australia and so forth. It is worthy to note that SST maintains strong and leading graduate programs. At present, the number of graduate students enrolled in SST is the highest among any other university in the private sector. All graduate programs at UMT are benchmarked against high-quality world class universities and reviewed by the Higher Education Commission (HEC) of Pakistan on regular basis. Excellence in teaching and research is the hallmark of UMT. Highly qualified faculty of SST include world-class researchers and scholars who, together with students, are perceived as continuous sources of conducting research for the creation of new knowledge, discovery of new techniques, processes or entities.

At UMT, we are committed to harness your talent for leadership and equipping you with the knowledge essential for success in ever-emerging fields of science, engineering and technology.

So why not come and see what UMT can offer you? After meeting the staff and students, and visiting the facilities, you will have the chance to explore UMT's vibrant environment.

I look forward to welcoming you.

Abdul Aziz Bhatti, PhD

School of Science and Technology (SST)

Nurturing Technology Leaders

The School of Science and Technology at UMT aims to generate a continuous stream of new scientific and technical knowledge; and to attract young, talented men and women and transform them in to the leaders of tomorrow's technology organizations.

In order to fulfill its mission, the School strives to create a culture that attracts, develops, and retains the best available scientific and technical minds.

The School of Science and Technology (SST) encourages the faculty members and participants to undertake research and development and engage in collaborative work with industry. This provides them insight into the real-world problems and they strive to find out integrated solutions for industry.

The SST is continuously improving the quality of its teaching by having a sharp focus on faculty development and infrastructure enhancement. It improves the faculty members by encouraging them to utilize the School's training facilities for self-development and by undertaking research and consultancy projects.

The laboratory facilities offered are excellent and are being rapidly expanded according to the pre-set five-year development plan. Similarly, the School is continuously updating the library collection in the area of science and technology to meet the current market requirements.

Currently, SST consists of seven departments; namely Computer Science, Computer Engineering, Telecom Engineering, Textiles, Mathematics, and Natural Sciences.

The School currently offers three degree programs at the Bachelor, Master and Doctoral levels.

PEC Accreditation

Bachelor of Science in Electrical Engineering Program with specializations in Telecommunication and Electronic Engineering, offered by the Department of Electrical Engineering is an accredited program by the Pakistan Engineering Council (PEC). Preparations for accreditation of other programs are on its way. A long term planning exercise has just been completed in this regard.

Mission Statement

To be recognized as a leader in engineering education in the country and to become a university of choice by parents, students, faculty and staff who desire to put their share of contribution in the higher engineering education.

Curricula

The School offers various degree programs in electrical engineering, textile engineering, industrial and manufacturing, and computer science. The faculty members provide an educational experience that is equivalent to that offered by leading international universities.

The curriculum for each program has its own distinguishable features. However, common threads of design and problem solving have been woven into the fabric of the curricula to ensure that each participant receives the very best education tailored to the needs of the industry and academia. The engineering and computer science programs are intended to prepare graduates for regional as well as global practice.

The programs are designed to satisfy the general university requirements as well as they meet the criteria adopted by the Pakistan Engineering Council (PEC) and Higher Education Commission (HEC) of Pakistan.

The degree programs emphasize learning the effective use of technology, information resources and communication methods, as well as inculcate in them leadership qualities anchored in ethical and moral principles.

SST graduates may work in an international environment. Therefore, class instructions and interaction between students and faculty members are conducted in English to ensure that graduates possess written and spoken fluency in English.

This is accomplished foremost in the required laboratories, term reports, senior design projects and internships.

Well-equipped Information Processing Center (IPC) as well as other laboratories having abundant computer resources are provided for students during and after classes. A variety of software are available for design and analysis tasks in classes, laboratories, senior design projects and courses on campus intranet. This exercise supplements participants' comprehension of what has been taught by faculty members in their courses. Each student must complete a team-based extensive senior design project under close supervision of a faculty advisor, focused on a real-world problem that requires specification, design, analysis and synthesis as the problem-solving process is utilized. Additionally, each student must complete a summer internship of at least five weeks in order to graduate.

Engineering Laboratories

Excellent laboratory facilities are available in SST to assist engineering and science students. Laboratories are being expanded according to an approved development plan.

The laboratories are available for conducting BS level experiments in different areas. Plans are in process for establishing laboratories for postgraduate research work in the very near future.

- Basic Circuits and Electronics
- Electrical Machines, and Power Engineering Lab

- Computer Networks, and Communication Systems Lab
- Instrumentation and Control Systems Lab
- Computer System Architecture, and Microprocessor Systems Lab
- Usability, Simulation, and Human Computer Interface Lab
- Chemistry Lab
- Mechanics and Wave Motions Lab
- Electricity and Magnetism Lab
- Apparel, Wet Processing, Finishing and Textile Testing Lab
- Weaving, Spinning and Knitting Lab
- Engineering Workshop
- Undergraduate Research/Projects Lab

The details of these laboratories may be found in their respective departments.

BS Computer Science Program (BS CS)

The Department of Computer Science offers standard BS concentrations in Computer Science, Software Engineering and Information Systems and Technology, as well as Master/PhD programs in these areas. Major contents of all programs in the Computer Science Department are in line with Higher Education Commission (HEC) of Pakistan's specified curricula. Preparation of the curriculum, selection of the faculty, planning of the infrastructure facilities such as dedicated building, classrooms, computing laboratories and other resources are being designed to fulfill the NCEAC requirements.

The field of computer science includes designing and developing hardware and software systems for a range of applied areas including effective information processing, scientific applications, communications and entertainment, computational intelligence, optimal decision making, computer based control and so on. The Computer Science program at UMT covers a variety of topics including theoretical computer science, developments in robotics, computer vision, intelligent systems, bioinformatics, data mining, virtual reality, computer networks, operating systems and many other exciting areas. The BS program in computer science focuses on developing graduates with solid theoretical and practical basis and covers a wide range of topics. It provides a unique breadth to participants that is necessary for a comprehensive foundation needed by a computer scientist.

Goals

A major goal of this program is to produce graduates with solid foundation in theory along with hands-on experience of problem solving in various areas of computing. The curriculum of BS CS aims to produce graduates who can:

apply the theoretical and domain specific knowledge to analyze a given problem, and identify the computing requirements appropriate for its solution;

design, implement and evaluate a computer-based solution to meet desired needs;

be able to apply theoretical knowledge in the modeling and design of computer-based solutions for complex research problems;

be able to analyze the local and global impact of computing and understand professional, ethical, legal, security and social issues and their responsibilities;

function effectively on teams to accomplish a common goal and communicate effectively with a range of audiences; and

effectively lead and have excellent decision-making skills.

Why Degree in Computer Science

All areas of human endeavor including basic science, engineering, business, and social sciences have been significantly influenced by computer science in the last few decades. Computers are being used in present times in some form in all major industries and products. The field of computer science defines and shapes the way we live and communicate and is demarcating technology of the present age. It offers great many promising opportunities for the young graduates to have flourishing careers both in industry and academia. The field has many interesting open research problems and a significant amount of research is being carried in all top class computer science universities. The Department of Computer Science offers a unique educational opportunity for students to achieve excellence in both theoretical and practical aspects of the area.

Career Opportunities

Successful graduates of the Computer Science program have the knowledge and skills needed for a broad range of jobs both in the industry and academia. Depending on the area of specialization, the graduates of this program may play a variety of roles such as software engineers, software developers and research scholars, information technologists, systems analysts and educationists

Areas of Specialization

The degree structure provides the greatest possible flexibility, and gives students the broadest possible range of options from which to choose their areas of specializations. This enables students to tailor their studies to suit their individual needs, aptitudes and interests. The curriculum of computer science covers a wide range of aspects of computer science. In the final year, all students are required to do a substantive individual project. This is accompanied by taught modules concerning advanced topics in theoretical computer science, artificial intelligence, software engineering, information technology. There is a wide range of options from across the final year computing courses together with modern languages. Majors offered include:

- Theoretical Computer Science
- Information Systems
- Robotics, Intelligent Computing and Machine Learning
- Software Engineering
- E-Governance
- Bioinformatics
- Multimedia Systems

Total Credit Hours: 136

List of Elective Courses Computer Science

- Advance Internet Security
- Advanced Software Development
- Advanced Web Technologies
- Artificial Neural Network
- Computer Graphics
- Computer Vision
- Data and Network Security
- Data Communication
- Data Mining
- Data Warehousing
- Digital Image Processing
- Digital Signal Processing
- Distributed Computing
- Distributed Database Systems
- Emerging Web Platforms
- Expert Systems
- Forensic Computing
- Fundamentals of Robotics
- Fuzzy Logic
- Image and Video Coding
- Internet Applications Design and Development
- Internet Technologies and Services

- Introductory Speech Processing
- Microprocessor Interfacing
- Numerical and Symbolic Computing
- Operations Research
- Principles of Programming Languages
- Simulation and modeling
- Software Engineering
- Software Project Management
- System Programming
- Telecommunication Systems
- Virtual Reality
- Web Engineering
- Wireless Networks
- iPhone Applications Development

Admission Requirements

FSc (Pre-Engineering) from any Board of Intermediate and Secondary Education or an equivalent qualification like Overseas High School certificate. A-Level, International Baccalaureate with Physics, Chemistry and Mathematics or ICS.

Minimum 45% aggregate marks each in Matric and FSc.

BS in Electrical Engineering

The School of Science and Technology (SST) at the University of Management and Technology (UMT) is a dynamic institution that aims to generate a continuous stream of new scientific and technical knowledge to attract young talented students from all over Pakistan, and transforms them into leaders of tomorrow's technology organizations. In order to fulfill its mission, the school has taken an initiative to enhance its current programs by offering BS Electrical Engineering degree. Pakistan needs to strengthen its technological base, especially in the areas of electrical engineering.

Electrical engineering has its foundation in physical science, mathematics and a broad knowledge of engineering techniques. BS in Electrical Engineering program at UMT offers an understanding of the breadth of education and depth of training necessary for leadership in this profession. This program is built to provide an opportunity for engineers and technologists to advance their competency in analysis and design to better meet the high technology needs of local industry. Engineering and applied sciences play an important role in the overall development of a nation. The industry is looking for individuals who have in-depth theoretical knowledge and are skillful and competent in running the operations and new developments.

Goals

The goal of the Bachelor of Science in Electrical Engineering (BS-EE) is to produce graduates who are ready for constructive roles in society, who qualify for entry-level engineering jobs in the electrical engineering service and design industry and for admission to graduate programs in electrical engineering or related engineering fields, and who are prepared to continue learning throughout their lives. This program focuses to prepare the students for:

EE practices in design, product development, research, manufacturing, consulting, testing, sales, and management;

modern Computer Aided Design tools;

team work with individuals of diverse professional and cultural backgrounds;

effective communication skills; and

appreciation of self-development activities through continued learning professionally after graduation.

Outcomes

The EE curriculum has been developed to:

deliver a current and relevant course of study covering the principal areas electrical engineering technologies related to electric power generation, transmission, distribution and electronics;

impart effective leadership and decision-making skills;

equip participants with the ability to function on multidisciplinary team;

equip participants with the ability to identify, formulate and solve engineering problems;

build understanding of professional and ethical responsibility;

impart ability to communicate effectively;

train students in effective verbal and written communication skills;

impart key principles and skills to enable the students to practice as good and responsible EE professionals through courses in professional ethics, engineering management and engineering economics; and

equip the students with lifelong learning and research skills.

Why Degree in Electrical Engineering

The program is based on the fundamentals of electronics/electrical engineering with additional courses in Telecom and Power Systems. The BS EE program provides the graduates with the broad technical education necessary for productive employment in the public or private sector with the development of understanding of fundamentals and current issues important for the region in the future. You may not recognize the names of all the world's most celebrated electrical engineers, but you'll certainly know about the inventions or projects they have bequeathed to society. Pioneers such as Thomas Edison, inventor of the record player and developer of the light bulb; Nikola Tesla, pioneer of electromagnetism and commercial electricity; Jack Kilby, inventor of the integrated circuit and the pocket calculator (and Nobel prize winner); Marcian Hoff, inventor of the microprocessor; or Martin Cooper, inventor of the mobile phone. Whether it is communications or satellites, IT or energy, electrical and electronic engineers are at the forefront of the sectors that shape the ways we live. Today, Pakistan is facing energy crisis so we need more designers and engineers who can think out of the box and provide alternate renewable energy solutions for generations to come.

Career Opportunities

EE industry is one of the most rapidly growing and ever green industries in the economy. Clearly this industry will continue to change, and powerfully impact the way we conduct our lives. Typically, EE jobs entail designing, installing, and testing/fixing electrical systems and equipment. A career in EE is a promising one. The four-year Bachelor of Science in EE prepares students for professional careers in a range of industries that encompass Power Plants, WAPDA, NTDC, PIA, Railway, and PTCL, telecommunications networks by Mobilink, Zong, Wateen; software development and teaching positions in various universities across the country. This combination of knowledge and skills leads to careers as professional chartered engineers in a range of sectors, including electronics, broadcasting, telecommunications, mobile technologies, power supply and distribution, instrumentation and control, construction, plus numerous manufacturing industries. Electrical and electronic engineers are also valued in business and commerce, where their numeracy, team working, analytical and project management skills can be put to good use. In this diverse field, career options are available in the following areas:

Power Transmission and Switching Systems

- Wireless Systems
- Power Generation and Distribution
- Computer Aided Design and Monitoring
- Data Acquisition and Supervisory control
- Industrial Control of Plants
- Telecommunication Systems
- Airborne and Defense Systems

Areas of Specialization

Elective courses are offered in the 3rd and 4th year of the program and give students an opportunity to choose their areas of specializations. This enables students to tailor their studies to suit their individual needs, aptitudes and interests. They may opt for breadth in their studies by taking courses across a wide range of aspects of Telecomm and Networks, Digital signal Processing, VLSI and chip designing, Optical Communications and Power Systems, etc. In the final year, all students are required to do a substantive individual project in their field of interest.

Total Credit Hours: 140

Elective Courses in BS-EE

- Digital Signal Processing
- Waves Propagation and Antennas
- Digital System Design
- VLSI Design
- Optical Communications
- Digital Communications
- Opto-electronics
- Digital Electronics
- Telecom Switching and Transmission

- Information Theory and Coding
- Communication Networks
- Advanced Concepts and Applications of Radar
- Microwave Engineering
- Mobile Telephone Systems
- Signal Detection and Estimation
- Optical Fiber Communication
- Satellite Communication
- Image and Video Processing
- Wide Band Communications
- Fundamentals of Robotics

Admission Requirements

All applications are evaluated on the basis of merit as determined by their previous academic record and performance in admission test. A general admission test is administered by university.

Duration: 4 years

Entry Requirements

A-Levels or FSc with Physics, Math and Chemistry with minimum 60% marks is required, besides also having obtained 60% marks in Matric/O-Level.

Note: Diploma of Associate Engineer (DAE) in the following can also apply with the above mentioned marks requirement.

- Electrical
- Electronics
- Instruments

Bachelor of Science in Architecture (BS-A)

BS Architecture program at UMT comprises of a 5-year (ten-semester) program of intensive studies and practical work leading to a professional degree in architecture. The curriculum and structure of this program is comparable to any similar international degree with special regard to HEC specified guidelines. To this end, preparation of the curriculum, selection of the faculty, planning of the infrastructure facilities such as dedicated building, classrooms, design studios and other resources are designed to fulfill the Pakistan Engineering Council (PEC) and Pakistan Council of Architects and Town Planners (PCATP) requirements. The program of study is highly demanding and only those students are recommended to apply who are willing to work long hours. Furthermore, significant components of studies involve fieldwork where students are required to visit construction sites, conduct field surveys, and join out of station study tours. BS-A degree requirements include 16 weeks of internship in a professional establishment. The working environment within the Department is pleasant and intimate. The students spend a significant part of their working time in design studios which ensures high degree of interaction among students and academic staff. BS-A graduates will be eligible for license from PCATP and practice as professional architects.

Why Degree in Architecture

Architectural studies are considered a bridge between engineering sciences and the arts. In the current times, it has become imperative for a developing country like Pakistan to equip architects with the right knowledge and tools to service this highly competitive industry.

Career Prospects

Graduates of the BS-A program are trained for careers in government and private sector construction companies, engineering and design firms as well as in education and consulting organizations nationally and internationally. BS-A graduates can work as architects, interior designers, and design consultants, project managers in engineering firms, architecture design offices, and furniture showrooms.

Program Objectives

The objective of this program is to prepare professionals in the planning, design and construction of commercial, industrial, and institutional buildings and other facilities. The curriculum has been developed to inculcate the following objectives in the graduates:

Ability to think creatively and identify new trends in building construction

Ability to work efficiently in self-managed projects and in teams

Commercial awareness related to the field of architecture design

Critical learning for a broad function in various areas of architectural sciences including structural, mechanical, electrical, environmental, earthquake, and construction management

Ability to keep themselves abreast with recent developments in the relevant construction technology

Spirit of discipline and respect for the code of ethics of the profession

Expected Outcomes

Students of BS-A program at UMT graduate with the following skills:

Fundamental and advanced concepts of architecture design with particular emphasis on the application of these concepts to further advance the state of art technology and meet the needs of the growing construction industry

Hands-on experience on key drafting, drawing and design tools and measurement equipment

Effective leadership and decision-making skills

Ability to function in multidisciplinary team

Ability to communicate effectively

Affinity for lifelong learning and research skills

Total Credit Hours: 174

List of Elective Courses

BS-A offers specialization in Landscape Architecture, Building Technology, Urban Design and Construction Management with the following elective courses.

- Energy Management Techniques
- Engineering Economy and Building Investment Economics
- Advanced CAD
- District and Regional Planning
- Structural Dynamics and Stability
- Infrastructure Planning
- Modernism and Mass Culture

- Analysis of Contemporary Architectures
- Stage and Set Design
- Heritage Conservation
- Urban Geography
- Urban Design and Planning-III
- City and Regional Planning
- Environmental Impact Analysis
- Cultural Anthropology
- Research Methodology
- Fine Arts Studio
- Model Making for Architect
- Site Development and Housing Schemes
- Islamic Architecture

Admission Requirements for BS-Architecture

All applications are evaluated on the basis of merit as determined by their previous academic record and performance in admission test. A general admission test is administered by the university.

Duration: 5 years

Entry Requirements

Minimum second division in the Intermediate, A-Levels or equivalent

Minimum second division in Matric /O-Level

Note: Candidates with Diploma of Associate Engineer (DAE) in the following disciplines instead of A-Level/FSc can also apply:

- Civil - Architecture - Surveying -Construction Management

Bachelor of Science in Industrial Engineering (BSIE)

Industrial engineers determine the most effective ways to use the basic factors of production -- people, machines, materials, information, and energy -- to make a product or to provide a service. They are the bridge between management goals and operational performance. They are more concerned with increasing productivity through the management of people, methods of business organization, and technology than are engineers in other specialties, who generally work more with products or processes. Although most industrial engineers work in manufacturing industries, they may also work in consulting services, healthcare and communications. To solve organizational, production, and related problems most efficiently, industrial engineers carefully study the product and its requirements, use mathematical methods such as operations research to meet those requirements, and design manufacturing and information systems. They develop management control systems to aid in financial planning and cost analysis and design production planning and control systems to coordinate activities and ensure product quality. They also design or improve systems for the physical distribution of goods and services. Industrial engineers determine which plant location has the best combination of raw materials availability, transportation facilities, and costs. Industrial engineers use computers for simulations and to control various activities and devices, such as assembly lines and robots. They also develop wage and salary administration systems and job evaluation programs. Many industrial engineers move into management positions because the work is closely related.

SST offers courses keeping in view the specific requirements of the manufacturing industry and organizations that provide engineering services. The main courses include industrial materials, manufacturing processes, design of production tooling, industrial electronics, automation and robotics, engineering economics and accounting, total quality management, industrial relations, human resource management, production operations management, industrial safety, and environmental management. This will be a PEC approved degree.

Goals

The Bachelor of Science in Industrial Engineering program is intended to enable students with engineering undergraduate degrees to enhance their training in special fields including production planning, inventory control, scheduling, and industrial economics. The program is designed for engineers and related technical professionals aspiring to achieve the highest levels of responsibility and leadership in the workplace. As a BSIE student, you will be broadly educated in all aspects of technical enterprises. The BSIE program is excellent preparation for industrial engineering program students who want to acquire substantial depth with respect to industrial engineering methods and the theory of the firm. Graduates of the industrial engineering program are expected to have following skills:

- Problem-solving, technical and managerial skills and knowledge related to industrial engineering and management
- Thorough understanding of the principles and technology related to engineering and manufacturing services
- In-depth knowledge of industrial engineering and industrial management concepts and techniques and the ability to apply these techniques in designing and managing manufacturing, engineering and other services

- Ability to conceptualize, analyze, synthesize and implement Industrial and services
- Efficiently manage manufacturing, engineering and other technology-oriented systems
- Utilize mathematics, basic and engineering sciences, problem solving and design skills to pursue a career or advanced studies in industrial engineering
- Maintain the desire for innovation, creativity and lifelong learning
- Communicate effectively in multidisciplinary teamwork environments
- Recognize ethical and professional responsibilities and act accordingly within a global and social context

Why Degree in Industrial Engineering

The program is designed to enable students to acquire state-of-the-art knowledge in operations management, logistics and supply chain management, organizational theory and behavior, costing and finance, quality management, information technology, and other related topics. These courses focus on the management of operations in manufacturing, service and distribution enterprises. They prepare managers who will be able to help their companies build a competitive edge based on high levels of technical and managerial competence. The courses aim for a high level of integration between management techniques and the technologies that they control, with emphasis on the strategic relevance of solutions. Industrial managers are the architects for the design of "operating systems" in organizations, both private and public, that are concerned with providing value to customers. Industrial managers are also responsible for effectively managing the operations of these organizations. The complexities of modern operations have increased greatly, both in terms of breadth and depth. An industrial manager now needs to be concerned with supply chain issues in a global perspective. The management of technology and knowledge has also taken on a more significant role in the growth and profitability of an organization, and has become the most critical resources in gaining a competitive advantage.

Careers Prospects

Students enrolling in the BS in Industrial Engineering program are usually graduates in engineering, sciences and other related disciplines. Most of them are employed in various industrial sectors: manufacturing, logistics, transportation, public utilities, government services, etc., and many of them are holding senior management positions. According to the US Bureau of Labor Statistics, industrial engineers hold about 201,000 jobs. This represents 13.4% of the 1.5 million jobs held by engineers in the US. Six in 10 of these jobs were in manufacturing industries, and an additional 1 in 10 worked in professional, scientific, and technical services firms, many of whom provide consulting services to manufacturing firms. Because their skills can be used in almost any type of organization, industrial engineers are more widely distributed among industries than are other engineers.

Total Credit Hours: 140

Admission Requirements

All applications are evaluated on the basis of merit as determined by their previous academic record and performance in admission test. A general admission test is administered by the university.

Duration: 4 years

Entry Requirements

A-Levels or F.Sc with Physics, Math and Chemistry with minimum 60% marks is required, besides also having obtained 60% marks in Matric/O-Level.

Note: Diploma of Associate Engineer (DAE) in the following can also apply with the above mentioned marks requirement.

- Industrial
- Manufacturing
- Instruments

List of Elective Courses

- CAD/CAM
- Lean Manufacturing Systems Engineering
- Experimental Design for Industrial Processes
- Advanced Industrial Materials
- Design and Scheduling of Cellular Manufacturing Systems
- Manufacturing Automation and Robotics
- Composites Manufacturing
- Human Resource Management
- Metal Forming and Cutting Analysis
- Industrial Systems Optimization
- Tool and Die Design
- Industrial Robotics

- Total Quality Management
- Reliability Analysis
- Advanced Manufacturing Costing Techniques
- Virtual Reality
- Fundamentals of Robotics
- Digital Signal Processing
- Modern Microprocessor System
- Marketing Management
- Industrial Safety and Environmental Management
- Financial Management
- Managerial Accounting
- Management Information System
- Organizational Behavior
- Logistics Management
- Supply Chain Management

BS in Mathematics (BS-Mathematics)

Overview

The 4-year BS program in Mathematics offered by the Mathematics Department has been designed according to the scheme of studies approved by the Higher Education Commission (HEC) of Pakistan to ensure quality education to equalize it with national and international standards. The Department has offered a variety of courses under the umbrella of the School of Science and Technology (SST) to have the benefit of a flexible curricular program. The program aims to produce quality students who are able to prepare themselves for advance studies, teaching and research in Mathematics as well as careers in other related disciplines.

Program Objectives

The objectives of BS in mathematics program are to prepare graduates with enhanced skills, knowledge and attributes that are required for a successful career and professional accomplishments after graduation. The program aims to produce graduates who:

have an appropriate combination of theoretical knowledge and practical skills to advance professionally in mathematics and related fields;

are able to use mathematical tools and language to understand the physical world around us;

are able to adapt to and succeed in a dynamic global environment;

are prepared to participate in lifelong learning opportunities;

are prepared for a professional career in education, or in business, industry and research institutions;

are prepared to continue formal education and obtain advanced degrees in mathematics or related fields; and

aspire to evolve as integral part of society through their knowledge and professional skills.

Why Degree in BS Mathematics

Due to its vast applications in all applied and social sciences, mathematics has emerged as one of the most crucial subjects of the modern age. Today Mathematical languages and tools are being used for problem solving almost everywhere. Real world phenomenon has been modeled mathematically to provide assistance in every walk of life. Keeping in mind the remarkable importance of Mathematics, University of Management and Technology (UMT) has started its own BS program. We aim to produce students having compatibility with the objectives of the program to enable them to choose the best career which will ultimately help them to become an integral part of university and hence of the society.

Career Opportunities

The role of Mathematics is inevitably important in today's world. Problem solving, thinking logically, and high level quantitative and numerical computational skills are most wanted attributes in most of the organizations. Degree in Mathematics will help students to be highly numerate. They will learn to think clearly and logically, to analyze the situations and to organize accordingly. They will develop very special skills which they can use in devising solutions to complex problems. Being equipped with such skills will enable them to seek a good career in:

- Research and development in mathematics and related fields
- Applied Sciences
- Physics
- Banking
- Economics
- Computer Sciences
- Finance
- Computing
- Mathematical Modeling in Telecommunications
- Accountancy and Actuarial Work
- Statistician
- Post Graduate Study in Mathematics
- Teaching

Admission Requirements

All applicants with A-Levels/FSc (or equivalent qualification) are evaluated on the basis of merit as determined by their previous academic record and performance in admission test. A general admission test is administered by the university.

BS in Physics (BS-Physics)

The BS program offered in Physics is designed according to the scheme of studies approved by the Higher Education Commission (HEC) of Pakistan so as to meet the national and international standards. Courses offered at SST have the benefit of a flexible curricular program capable of preparing them for advanced studies in Physics as well as careers in teaching and research institutes. The department encourages the students to participate in the research projects, and provide them with possible facilities and guidance. The opportunity to work closely with a faculty member and to get firsthand research experience is especially helpful in making post-graduate career decisions. Students are involved in full-time research both at UMT and other research institutes. Such research activities result in students presenting their findings at professional conferences and/or co-authoring articles in valued journals. In addition, they will have the opportunity to participate in the activities of different university societies, attend departmental seminars, and contribute to the departmental governance.

The Goals

The goals of the BS Physics program are to provide an uplifting and nurturing environment that facilitates and stimulates the active, explorative of basic learning of Physics for the students. The program inculcates the following:

Encouragement of creative thinking

Personal and academic growth

Development, coordination and management of national system of innovation

Production of maximum human capital, sustainable economic growth

Improvement of life quality

Problem Solving

Organizational Skills

Why Degree in BS Physics

The aim of physics is to study nature at its most fundamental level to discover and apply the general laws that govern force and motion, matter and energy, space and time. Physics can be as concrete as the stresses in a bridge or as abstract as the curved space-time near a black hole. It studies systems ranging in size from the smallest elementary particles to the entire universe. Physics lies at the heart of the natural sciences. Almost any piece of modern scientific instrumentation is based on principles of optics, electronics, or nuclear physics and such apparatus usually has its origins in basic work done by physicists. Almost any scientific problem can be approached using the ideas and methods of physics, which is why there are many "hybrid" disciplines such as astrophysics, biophysics, and geophysics. The central position of physics among the sciences means that it is an ideal starting point, not only for physics research, but for many kinds of scientific and engineering work. It also means that physics is a perfect academic focus for a liberal arts education.

Career Opportunities

Physics, the most basic of the sciences, has intellectual and useful aspects. The intellectual component resides in our innate desire to understand the physical characteristics of our universe. The usefulness is evident everywhere in high-tech products and computerized communications. Physics can fairly lay claim to be the part of modern civilization. The reasoning, mathematical, experimental and computer skills obtained during this program enable the students to seek careers in Nuclear Science, Education, Research and Development, Software Development, Nanotechnology, Instrumentation, Space, Medicine, Engineering, Biophysics, Astronomy, Environmental Science, Radiology, Meteorology, Imaging and Technician.

Total Credit Hours: 132

List of Elective Courses

- Plasma Physics
- Environmental Physics
- Particle Physics
- Digital Electronics
- LASERS
- Solid State Physics - I
- Introduction to Nanoscience and Technology
- Fuel Cell Fundamentals and Applications
- Renewable Energy Resources
- Surface Physics
- Semiconductor Devices
- Experimental Nuclear Physics
- Nano Electronics

Admission Requirements

All applicants with A-Levels/FSc (or equivalent qualification) are evaluated on the basis of merit as determined by their previous academic record and performance in admission test. A general admission test is administered by the university.

BS Software Engineering (BS-SE)

Software Engineering (SE) is concerned with developing and maintaining software systems that behave reliably and efficiently, are affordable to develop and maintain, and satisfy all the requirements that customers have defined for them. It is important because of the impact of large, expensive software systems and the role of software in safety-critical applications. It integrates significant mathematics, computer science and practices whose origins are in engineering. Software engineering focuses on software development and goes beyond programming to include such things as eliciting customers' requirements, and designing and testing software. SE students learn how to assess customer needs and develop usable software that meets those needs.

The BS Software Engineering program in the Computer Science Department focuses on a range of topics that are essential to the SE agenda (i.e., problem modeling and analysis, software design, software verification and validation, software quality, software process, software management, etc.). The program has been designed with an emphasis on the hands on experience of all the stages for effective software design and development.

Goals

The main objective of the BS Software Engineering program is to produce graduates who can develop and deploy the next generation of software to support computer systems. The graduates of the program will:

be able to employ scientific methods to design computer software systems and use software engineering tools and techniques to evaluate their solutions;

be able to effectively communicate their ideas in both written and oral form with the understanding that communication is a cooperative process;

be able to identify, formulate and solve computer software needs and propose solutions;

be able to use latest software engineering tools and methods to model, simulate and test their design;

be able to take a project from inception to completion in which they propose, design, build, test, analyze and deliver a working software solution to meet engineering standards and realistic constraints, and

have an understanding of professional and ethical responsibilities, as well as an understanding of the possible social, economic, cultural and environmental impact of their engineering solutions in a global context.

Why Degree in Software Engineering

Directors, composers, and architects – all see the big picture. Creating software products involves a lot more than just writing code. Software engineers see the whole picture, too – the life cycle of a product, including efficiency and reliability, meeting customers' budgets, proper testing, and maintenance. Large, expensive software systems often play a vital role in safety-critical applications and are made up of many smaller building blocks. Software engineers combine experience in computer science, engineering, and math to design, define, and organize many aspects of a complex software product.

Career Opportunities

Graduates from the course will have the knowledge and skills needed to apply software engineering practices effectively. The breadth and strong practical emphasis of the course will prepare graduates for careers in a wide range of positions in business, government and industry, both local and international. Graduates may enter a variety of roles such as:

- Software Engineer
- Software/Web Developer
- Software Design Engineer
- Software Architect
- Software Quality Engineer
- Software Requirements Engineer
- System/Business Analyst
- Software Project Manager
- Mobile Application Developer
- Games Developer

Areas of Specialization

The degree structure provides the greatest possible flexibility, and gives students the broadest possible range of options from which to choose their areas of specializations. This enables students to tailor their studies to suit their individual needs, aptitudes and interests. They may opt for breadth in their studies by taking courses across a wide range of aspects of Software Engineering, or they may decide to focus their studies by completing one or two majors which suit their interests and skills. In the final year, all students are required to do a final year project. This is accompanied by taught modules concerning analysis and design, architecture, implementation, applying software engineering practices and its quality assurance. There is a wide range of options from across the software engineering courses together with modern languages. Majors offered include:

- Enterprise Software Technologies
- Software Systems Engineering
- Software Quality Metrics
- Distributed Computing
- Project Management

Admission Requirements

FSc (Pre-Engineering) from any Board of Intermediate and Secondary Education or an equivalent qualification like Overseas High School certificate, A-Level , International Baccalaureate with Physics, Chemistry and Mathematics or ICS.

Minimum 45% aggregate marks each in Matric and FSc

Total Credit Hours: 137

List of Elective Courses Software Engineering

- Advance Database Management Systems
- Artificial Intelligence
- Artificial Neural Networks
- Automata Theory and Formal Languages
- Bio-Informatics
- Business Process Automation
- Computer Graphics
- Data Security and Encryption
- Data Warehousing and Data Mining
- Design Patterns
- Discrete Structures – II
- Distributed Computing
- Information System Audit

- Introduction to Soft Computing
- Microprocessor Interfacing
- Principles of Programming Languages
- PSP and TSP
- Real-time systems
- Software Engineering Economics
- Software Metrics
- Software Testing
- Virtual Reality
- Web-Engineering

**School of Social
Sciences and Humanities**

Message from the Dean

The School of Social Sciences and Humanities (SSH) offers a variety of degree programs focusing on the study of humans and the institutions they create to solve societal problems. The school aims at the development of leaders of thought and action who can fight against ignorance, injustice and all forms of discrimination to bring peace and prosperity to human life. We strongly believe in inclusive society that can embrace human diversity and eliminate segregation.

The departments in SSH not only function as reputed seats of learning but also strive to remain interdisciplinary. They draw their strength from the interdisciplinary approach in learning and research. Our supreme concern is not to impart knowledge but to help you become learners. Our emphasis is not on knowing but on emancipation through meaningful actions.

I welcome you to this great seat of learning and assure you quality education under the supervision of the faculty of international repute.

Prof Dr Abdul Hameed
PhD Ohio State University, USA
Dean, SSH

School of Social Sciences and Humanities (SSSH)

About the School

Established in May 2005, the School of Education and Arts, now known as the School of Social Sciences and Humanities, was the successor to the Faculty of Educational Management and Technology (FEMT) that had been set up earlier in 1999. The school offers doctoral and graduate degree programs aimed at providing teachers and educational managers to both national and international institutions. Certificate courses are also offered in summer. These short courses are offered in July-August and are designed for in-service teachers and school administrators.

The School of Social Sciences and Humanities is committed to produce individuals who are capable of acquiring knowledge and communicating it effectively. All programs are designed to produce professionals, capable of meeting the challenges of technology that relies extensively on the use of the computer in the classroom. Students are encouraged to create instructional material, submit assignments by using popular word processing software and browse for educational/research content on the web.

The School encourages students to re-conceptualize learning in a given context through critical thinking, cooperative learning and action research. It rewards research and originality. Interaction between teachers and students is a key ingredient of the school's approach to education. Students are encouraged to write a journal that tracks their impressions of the learning environment and recommend improvements. Concerned teachers respond to these suggestions effectively.

The school arranges dialogues, seminars and discussions over a wide range of topics covering the social sciences and current educational issues. Guest speakers are eminent professionals who are widely respected in their specialties. The discussions are often candid and conducted in a congenial atmosphere. All students are encouraged to contribute to Prism, the quarterly school magazine. The editors take special care to include original and creative writings. Students are free to express their views on any social, academic or cultural issue. The magazine serves as an ideal platform to provide coaching in editorial and creative writing.

The School of Social Sciences and Humanities has constituted a curriculum committee that revises or updates courses according to contemporary educational developments and indigenous needs. The committee comprises of distinguished educationists from the public and private sector.

One of the most important events at the School of Social Sciences and Humanities is the annual conference/seminar. It is a much-awaited forum where educators and researchers share their knowledge on current issues.

Most of the faculty are members of highly respected professional organizations such as the Teacher Educators Forum, Society of Educational Leadership and Management, Society of English Language Educators and Social Scientists Forum. Many alumni are members of the School's Alumni Association.

Our Vision

To promote values, knowledge and skills that reflect international standards of excellence, national aspirations and institutional pride

Our Mission

To demonstrate uncompromising commitment to teaching and research in broad areas of social sciences and humanities with a view to developing human resources capable of creating and applying knowledge in solving problems and meeting future challenges

Our Core Values

We value:

- each learner by promoting a love of learning, civic and moral obligations, personal success and high academic standards;
- the mastery of the core competencies i.e. thinking, communicating and acting;
- a caring and professional relationship among participants, employees and the community;
- diversity in creating new learning opportunities;
- the purposeful use of the technology and other tools that enhance learning.

Department of Education

Introduction

The Department of Education provides students a unique experience of academic life with a strong focus on research and career preparation in the chosen field. The Department has an impressive spectrum of expertise within the field of education with a faculty that has wide ranging research and teaching interests.

Students gain avid understanding of professional fields through networking opportunities and industry knowledge provided by the faculty and the University of Management and Technology (UMT). Our graduates are highly sought by some of the most prestigious organizations.

The Department of Education and the University of Management and Technology take every possible step to facilitate the students to acquire academic and professional excellence to become outstanding members of any social and/or professional community they join after graduating.

PhD Education

PhD in Education program is for individuals who aspire to positions of professional educational leadership or to a career in educational research. The program focuses on extending knowledge and research expertise of students through scientific inquiry. To accomplish these objectives, the program offers challenging curricula, a variety of teaching-learning methodologies and a supportive academic environment. The large pool of in-house PhDs in various Schools of UMT, including the School of Social Sciences and Humanities, provides interdisciplinary discussion in the areas of common interest, whilst widening the learning horizons of the students.

Admission Criteria

MS/MPhil in Education or equivalent degree from HEC recognized university with a minimum CGPA of 3.00/4.00.

Degree Requirements

- Coursework 18 credit hours
- Comprehensive examination
- Publication in HEC approved journal
- Subject GRE international / local
- Research work 27 credit hours

Program Duration

- Three years

Coursework for PhD

General / Compulsory Coursework

(12 Credit Hours)

ED701 Philosophical Perspectives of Education

ED702 Psychological Dimensions of Education

ED707 Advanced Assessment and Evaluation

ED704 Theories of Curriculum and Instruction

Area of Specialization (6 credit hours coursework)

Two courses from opted area of specialization (each course carries 3 credit hours).

1. Curriculum and Instruction

ED752 Curriculum Models and Theories

ED811 Seminar on Curriculum Issues

2. Leadership and Management

ED753 Educational Policy and Planning

Ed813 Seminar on Educational Leadership and Management

3. Assessment and Evaluation

ED754 Models of Assessment and Evaluation in Education

ED816 Seminar on Program Evaluation

4. Special Education

ED757 Special Education Curriculum and Instruction

ED822 Seminar on Inclusive Education Policy

Comprehensive Examination

Doctoral Dissertation (27 credit hours)

Each participant must write a dissertation in the major area of specialization consisting of original research of high-impact. In addition to the internal dissertation committee, the dissertation will also be examined by two eminent international experts in the related field

Credit Hours

- Coursework 18
- Thesis 27
- Total 45

MPhil in Education

The program focuses on extending knowledge and research expertise of students through scientific inquiry. It is designed for individuals who have the intellectual capacity for advanced research and who wish to contribute to future development of Education as a discipline. To accomplish this objective, the program offers challenging curricula, a variety of teaching-learning methodologies and a supportive academic environment. The large pool of in-house PhDs in various Schools of UMT, including the School of Social Sciences and Humanities, provides interdisciplinary discussion in the areas of common interest, whilst widening the learning horizons of the students.

Admission Criteria

- Master degree in Education from HEC recognized university with a minimum CGPA of 2.50/4.00
- GRE type conducted by NTS/University

Program Duration

- Two years

Coursework for MPhil

General Courses

(18 credit hours coursework)

- ED605 Education and Development
- ED607 Educational Policy Studies
- TMT720 Quantitative Research Methods

QM601	Qualitative Research Methods
ED609	Quality Assurance in Education
ED608	Emerging Trends and Issues in Educational Leadership

Area of Specialization

(6 credit hours coursework)

Two courses from opted area of specialization

(each course carries 3 credit hours).

1. Curriculum and Instruction

ED653	Perspectives of Curriculum Development
ED654	Comparative Studies in Curriculum and Instruction

2. Leadership and Management

Sd875	Educational Leadership for Learning Organizations
Ed655	Comparative Studies in Leadership and Management

3. Assessment and Evaluation

ED656	Assessment Techniques and Testing
ED657	Comparative Studies in Assessment and Evaluation

4. Special Education

ED662	Special Needs and Inclusive Education
ED663	Comparative Studies in Special Education
ED699	Thesis (6 credit hours)

Credit Hours

- Coursework	24
- Thesis	06
- Total	30

MA Education

Master of Arts in Education program has been designed for graduates currently teaching as untrained teachers as well as for those who aspire to take up teaching as their profession. The program introduces the participants with new contemporary approaches in the field of pedagogy and teacher education. It makes the participants self directed and self regulated learners with intensive use of reflective practice and critical thinking. Participants gain deeper insight and further develop their concepts and knowledge base through research and project work. The program is designed to provide participants with skills and knowledge to become effective teachers and teacher educators.

Entrance Requirements

Graduation with minimum 45% marks from a HEC recognised university and/or an affiliated institution.

Admission Criteria

All participants are evaluated on the basis of merit as determined by participant's previous academic record and performance in the interview according to the following weightage:

Matriculation/ O Levels	20%
Intermediate Marks/A- Levels	20%
Graduation Marks	20%
Interview	20%

Additional 5 Marks are awarded to all master degree holders.

Program Requirements

Coursework	60 Credit hours
Compulsory	12 (36 Credit hours)
Pedagogical Area of Specialization	02 (6 Credit hours)
Professional Area of Specialization	03 (9 Credit hours)
Elective	03 (9 Credit hours)
Total	72Credit hours

Assessment Techniques

Participants are given well rounded exposure of both theory and practice; assessment techniques used during semester for each module further strengthen professional orientation of the participants. A wide array of assessment techniques are employed for effective teaching and learning:

1. Research article review
2. Professional Portfolios
3. Written assignments
4. Field projects
5. Presentations
6. Quizzes
7. Written and oral examination
8. Midterm
9. Final term

Compulsory Courses

Compulsory Modules (3 Credit hours each)

1. EDU-512 Reflection and Critical Thinking
2. SDW-514 Effective Communication
3. EDU-524 Human Development and Learning
4. IST-520 ICT in Education
5. EDU-521 Teaching Methodology and Practices
6. EDU-530 Educational Leadership
7. TMT-516 Classroom Management
8. EDU-526 Curriculum Planning
9. TMT-528 Assessment and Evaluation

10. EDU-572 Educational Research
11. EDU-512 History of Education
12. TMT-548 Teaching Profession
13. TMT-504 Teaching of English

Pedagogical Area of Specialization Modules

(6 Credit-Hours)

(Two modules from any one area of pedagogical specialization)

Teaching of Science and Mathematics

1. TMT-531 Teaching of Mathematics
2. TMT-540 Teaching of Science

Teaching of Socio Islamic Studies and Languages

1. Teaching of Socio Islamic Studies
2. TMT-538 Teaching of Urdu

Elective Modules (9 Credit-Hours)

Any three from the following:

1. EDU-509 Early Childhood Education
2. EDU-515 Economics and Sociology of Education
3. EDU-528 Educational Change
4. SDW-540 Gender Studies
5. EDU-545 Islamic Perspective of Education
6. TMT-501 Guidance and Counseling
7. Inclusive Education

Professional Area of Specialization Modules

(9 Credit-Hours)

Three modules from any one area of professional specialization

Curriculum Studies

1. TMT-610 Curriculum Theory and Practice
2. EDU-626 Research in Curriculum Studies
3. TMT-680 Curriculum Evaluation

Educational Leadership

1. EDU-524 Educational Planning and Financing
2. EDU-640 Research in Educational Leadership
3. TMT-685 Managing Quality in Education

Research (6 Credit-Hours)

PRJ-510 - Master's Thesis is offered in the last semester in the chosen area of specialization (curriculum / educational leadership).

Teaching Practice (6 Credit-Hours)

This is a supervised school experience component of the program. More importantly this component is designed in a manner that allows participants to choose their specific areas during the practice and can liaison with their local education institution/schools for effective teaching practice.

MA Educational Leadership and Management (MA ELM)

Master of Arts in Educational Leadership and Management (MA ELM) is an innovative degree program that provides an opportunity to college heads, school heads, education officers and senior teachers to learn the latest in the field of educational leadership and management. The participants of the program build a holistic and integrated view of the school as a learning organization and are equipped with the latest concepts, tools and techniques in practice in the modern day world, as regards educational leadership and management. Successful graduates of the program will be able to lead their academic teams innovatively and manage their school affairs efficiently and effectively.

Entrance Requirements

- Graduation with 2nd division
- Experience in educational administration /management

Admission Criteria

All participants are evaluated on the basis of merit as determined by the applicant's previous academic record and performance in the interview.

Program Duration

- Two years

Assessment Techniques

Following are the assessment techniques employed during the semester for each module:

- Review of Research Articles
- Quizzes
- Assignments
- Presentations
- Case Studies
- Mid Term Examination
- End Term Examination

Program Requirements

Coursework	66 credit hours
Research Work	6 credit hours
Total	72 credit hours

Program Curriculum

(22 courses, each of 3 credit hours)

EDF-501	Philosophy of Education (Field Based)
SDF-514	Effective Communication (Field Based)
ISF-520	Computer in Education (Field Based)
TMF-528	Assessment and Evaluation (Field Based)
EDF-530	Educational Leadership (Field Based)
SDF-547	Qualitative Research (Field Based)
SDF-548	Quantitative Research (Field Based)
TMF-585	Managing Quality in Education (Field Based)
EDF-505	Educational Psychology (Field Based)
ELM-535	Educational Supervision
ELM-560	Teacher Appraisal and Development
ELM-565	Instructional Leadership
ELM-550	Planning for School Improvement
ELM-555	School Inspection and Evaluation
ELM-525	Behaviour Management in School
ELM-585	The Principalship
ELM-595	School Resource Management
ELM-500	Curriculum Leadership and Evaluation
ELM-515	Trends and Issues in School Leadership
ELM-540	Ethics for School Leaders
SDF-504	School Effectiveness (Field Based)
ELM-520	Leading Change in Educational Organization

Research Work (6 credit hours)

PRJ-510 Thesis

MEd Educational Leadership and Management

Master of Education in Educational Leadership and Management (MEd ELM) is a one year program for graduates possessing BEd degrees. The field-based nature of the program makes it particularly attractive for those who are already working in educational institutions as head teachers/principals, school supervisors, managers, vice principals and prospective head teachers. Instructional methods used in the program rely on a dynamic exchange of ideas among faculty and students. Successful graduates of the program can enhance their career prospects and can further enrich their portfolios.

Entrance Requirements

- Graduation with minimum 45% marks in aggregate and BEd from HEC recognized institution
- Experience in educational administration/ management

Admission Criteria

All participants are evaluated on the basis of merit as determined by the applicant's previous academic record and performance in the interview according to the following weightage:

Matriculation/O-Levels Marks 15%

Intermediate/A-Levels Marks 15%

Graduation Marks 20%

Work Experience 20%

Interview 30%

Additional 5 marks are awarded to all master degree holders.

Assessment Techniques

Following are the assessment techniques employed during the semester for each module:

- Review of Research Articles
- Quizzes
- Assignments
- Presentations
- Mid Term Examination
- End Term Examination

Program Requirements

Coursework 30 credit hours

Research Work 06 credit hours Or two modules in lieu of thesis

Teaching Practice

(06 contact hours) Non credit - Compulsory

Total 36 credit hours

Program Curriculum

SDF-514	Effective Communication	3
ISF-520	Computer in Education	3
EDF-530	Educational Leadership	3
TMF-685	Managing Quality in Education	3
EDF-572	Educational Research	3
ELM-560	Teacher Appraisal & Development	3
ELM-525	Behaviour Management in School	3
ELM-585	The Principalship	3
ELM-595	School Resource Management	3
ELM-600	Curriculum Leadership & Evaluation	3
PRF-610	Master Thesis	6

MA Early Childhood Education

The Master of Arts degree program in early childhood education is designed to offer professional preparation of teachers as early childhood specialists in private and public schools. The program supports participants to understand children's learning and development needs at early childhood level, and then tailor the learning environment and teaching and learning strategies accordingly. Ultimately, the participants develop a critical understanding of early childhood from multiple perspectives including history, philosophy, sociology, psychology, etc.

Entrance Requirement

Graduation (BA / BSc) or equivalent from a recognized institution with 2nd division

Admission Criteria

All participants are evaluated on the basis of merit as determined by the applicant's previous academic record and performance in the interview according to the following weightage:

- Matriculation/O-Levels Marks 20%
- Intermediate / A-Levels Marks 20%
- Graduation Marks 40%
- Interview 20%

Program Requirements

- Coursework 60 credit hours
- Teaching Practice 06 credit hours
- Research Work 06 credit hours
- Total 72 credit hours

Program Curriculum

20 Modules of 03 credit hours each

- ECE-501 Perspectives in Early Childhood Education
- ECE-502 Trends and Issues in Early Childhood Education
- ECE-540 Observation and Assessment in Early Childhood Education
- ECE-530 Methods of Teaching English in Early Years
- ECE-531 Methods of Teaching Urdu in Early Childhood Education
- ECE-532 Methods of Teaching Science to Young Children
- ECE-533 Methods of Teaching Mathematics to Young Children
- ECE-534 Integrating Arts in Pre-school Education

ECE-535	Methods of Teaching Social Studies and Physical Education in ECE
ECE-541	Growth and Developments in Young Children
ECE-542	Children's Play: A Source of Learning and Development
ECE-543	Instructional Technology
EDU-506	Learning Theories and Practices
ECE-545	Quantitative Research in Education
ECE-550	Curriculum in Early Childhood Education: Theory and Methods in Integrated Curriculum
ECE-546	Supervision in Early Childhood Education
TMT-516	Classroom Management
ECE-549	Language and Literacy in Early Years
SDW-514	Effective Communication
EDU-530	Educational Leadership

Teaching Practice (6 credit hours)

ECE-580	Student Teaching in Early Childhood - I
ECE-581	Student Teaching in Early Childhood - II

Masters Thesis

PRJ-610	(06 credit hours)
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Department of English Language and Literature

1. Introduction

The Department of English Language and Literature has always been committed to meet the existing and emerging needs of scholars seeking to enhance their knowledge of the subject and refining their pedagogic skills. The Department structures its academic programs to accommodate changes that reflect the development of Language and Linguistics as a discipline in Pakistan. The courses at postgraduate level are designed to promote research skills among the students. Critical thinking and effective writing are the constant goals of all the programs. The main aim of the Department is to ensure quality across all disciplines.

The Department offers

1. PhD in English (Linguistics, Applied Linguistics/Literature)
2. MS (MPhil) in Linguistics/Applied Linguistics
3. MA in English Language Teaching
4. MSc in Applied Linguistics (1 year)
5. MSc in Applied Linguistics (2 year)
6. MEd in English Language Teaching
7. English Language and Literature Major in BS

Research Degree Programs

2. PhD Study and Research

In the recent past, the Department has successfully launched MS and PhD programs with an array of interesting new courses, other than the core, i.e. Translation Studies, World Englishes, Emerging Issues in ELT in Pakistan, Multiculturalism, etc. Quality research as a main ingredient in the entire learning process at post graduate level ensures research-oriented teaching. Analysis and evaluation of complex data, along with marshalling of evidence to present convincing arguments play a central role in MS and PhD programs.

3. Selection Criteria for Research Programs

- 3.1 PhD in English if you have:
 - MS/MPhil degree from a recognized university
- 3.2 MS (MPhil) leading to PhD (2+2-year)/MS (MPhil) in Linguistics, Applied Linguistics

(2-year) if you have:

- a) MA degree in English Language / Literature/TEFL/ELT with at least 2nd Division i.e. 45% marks or B-Grade (CGPA 3.0) and
- b) NTS Test

4. Scheme of Studies for Research Degrees

4.1 PhD in English (Linguistics/Applied Linguistics/Literature)

The students will study six courses, three courses in each semester over a period of one year. They must study two core courses, one in each semester. They can select two elective courses in each semester from the courses offered to complete their course work for PhD (18 credit hours). The students will be advised to select the elective courses that pertain to their individual research interest. Each course is of 3 CH. Total 36 CH: 18 CH in taught courses and 18 in research. They will do their research and writing up of thesis in Semester III and Semester IV.

Core Courses

ENG 750 Research Methods I

OR

ENG 811 Specialist Module-I

ENG 751 Research Methods II

OR

ENG 835 Specialist Module-II

Thesis (compulsory)

ENG 875 Thesis (50,000-60,000 words)

4.2 MS(MPhil)in Linguistics/Applied Linguistics

The students will study eight courses, four courses in each semester over a period of one year. They must study two core courses, one in each semester. They can select three elective courses in each semester from the courses offered to complete their course work for MS (24 credit hours). The students will be advised to select the elective courses that pertain to their individual research interest. Each course is of 3 CH. Total 30 CH: 24CH in taught courses and 6 CH in thesis.

Core Courses (Compulsory)

ENG 750 Research Methods I

ENG 751 Research Methods II

Thesis (Compulsory)

ENG 775 Thesis (25,000-30,000 words)

Elective Courses for MS/PhD programs

a) Any four courses for PhD program

b) Any six courses for MS program

ENG 701 General Linguistics

ENG 702 Applied Linguistics-I

ENG 703 Phonetics and Phonology

ENG 705 Approaches to Second Language Acquisition

ENG 707 Pragmatics/Semantics

ENG 709 Critical Discourse Analysis

ENG 711 ELT Management

ENG 712 Pakistani Literature in English

ENG 715 Sociolinguistics

ENG 717 Syntactic Theory

ENG 721 Applied Linguistics II

ENG 723 Multiculturalism

ENG 727 Technology in Language Teaching

ENG 731 Translation Studies

ENG 733 Screen Literature

ENG 735 Emerging Issues in ELT in Pakistan

ENG 805	Philosophy of Language and Linguistic Analysis
ENG 817	Applied Lexicology
ENG 825	Advancement in Second Language Acquisition
ENG 840	Advanced Syntactic Theory

5. Master's Programs

5.1 MA in English Language Teaching

It is a 72 credit-hour program of two years.

English language teaching has been gaining significant importance in the Pakistani context. MA English Language Teaching (ELT) program has been designed to produce and develop quality English teachers. The emphasis is on exposing them to contemporary approaches in the field of ELT. The communicative approach in this program is taken up on contextual grounds to ensure a realistic professional development. Research work in the final semester provides sufficient depth and understanding to the participants who aspire for effective roles as mentors and teacher educators.

Selection criterion

Total marks in BA + English marks in BA=

The admission will be purely on merit list.

Program Curriculum

Compulsory Modules (Any 19 of the following, 3 credit-hours each)

ENG-550	Academic Skills
ENG-553	Introduction to Linguistics
ENG-555	Computer Assisted Language Learning
ENG-535	Sociolinguistics
ENG-539	Language Learning Theories and Practices
ENG-540	Psycholinguistics
ENG-560	Phonetics & Phonology
ENG-545	Teaching Language Skills
ENG-563	Pedagogical Grammar

ENG-564	Literature Studies
ENG-565	Teaching Literature
ENG-567	Lexical Studies
ENG-568	Syllabus and Material Development
ENG-575	Discourse Analysis
ENG-653	Language Education Seminar
ENG-577	Language Research
ENG-580	Assessment in ELT
ENG-650	English for Specific Purposes
ENG-659	Semantics
ENG-660	Pragmatics
ENG-666	Experiential Language Learning
ENG-675	Pakistani Literature in English
EDU-504	Introduction to Education
TMT-516	Classroom Management
Master's Thesis (Optional or two courses)	
RES-610	Masters Thesis (6 Credit-Hours)

Elective Modules

Any 3 of the following

ENG-664	Educational Entrepreneurship
ENG-665	Writing on Linguistic Issues
ENG-690	Life Skills
EDU-501	Philosophy of Education

EDU-540	Emerging Issues in Education
EDU-545	Islamic Perspective of Education
EDU-512	Reflection and Critical Thinking
SDW-506	Life and Learning
IST-510	E-Learning
EDU-560	Writing on Educational Issues
EDU-562	Creative Writing
EDU-528	Educational Change
SDW-515	School Management
EDU-543	Teacher Appraisal
TMT-548	Teaching Profession
EDU-630	Educational Leadership
SDW-540	Women Studies
EDU-509	Early Childhood Education
TMT-575	Guidance and Counseling
EDU-515	Economics and Sociology of Education
EDU-620	Educational Planning and Financing
TMT-685	Managing Quality in Education
EDU-573	Advanced Educational Research

5.2 MSc in Applied Linguistics

Applied Linguistics has been gaining significant importance in the Pakistani context. MSc Applied Linguistics has been designed to produce and develop quality English teachers. The emphasis is on exposing them to contemporary approaches in the field of Linguistics.

The communicative approach in this program is taken up on contextual grounds to ensure a realistic professional development. Research work in the final semester provides sufficient depth and understanding to the participants who aspire for effective roles as mentors and teacher educators.

The following two programs are offered:

1. MSc in Applied Linguistics (2-year) program
2. MSc in Applied Linguistics (1-year) program

MSc in Applied Linguistics (2-year)

You are eligible for this program if you have qualified BA in 2nd Div.

Selection criterion

Total marks in BA + English marks in BA=

The admission will be purely on merit list.

Program Curriculum

It is a 72 credit-hour Program of two years.

Candidates are required to select 18 courses from Compulsory Courses. If GPA is 3.0 and above then they will go for thesis (= 6 CH) and 2 elective courses, and if GPA is below 3.0 then they will take extra courses to raise their CGPA up to 3.0 for going to thesis.

MSc in Applied Linguistics (1-year)

You are eligible for this program if you have MA English Literature (II/III Div) + Diploma in ELT/Linguistics/TEFL.

Program Curriculum

Compulsory Courses

Any 19 from the following courses for MSc 2-year program (3 credit-hour each)

Any 8 from the following courses for MSc 1-year program (3 credit-hour each)

ENG-550 Academic Skills

ENG-553 Introduction to Linguistics

ENG-554 World Englishes

ENG-555	Computer Assisted Language Learning (CALL)
ENG-539	Language Learning Theories and Practices
ENG-538	Language and Society
ENG-535	Sociolinguistics
ENG-540	Psycholinguistics
ENG-558	Methods & Approaches in Language Teaching
ENG-560	Phonetics & Phonology
ENG-545	Teaching Language Skills
ENG-563	Pedagogical Grammar
ENG-565	Teaching Literature
ENG-567	Lexical Studies
ENG-568	Syllabus and Material Development
ENG-575	Discourse Analysis
ENG-577	Language Research
ENG-579	Testing & Evaluation
ENG-650	English for Specific Purposes
ENG-655	Descriptive Syntax
ENG-656	Morphology & Syntax
ENG-659	Semantics
ENG-660	Pragmatics
ENG-664	Educational Entrepreneurship
Master's Thesis (Optional or two courses)	
RES-610	Masters Thesis (6 Credit-Hours)

Elective Courses

Any 3 for MSc 2-year program

Any 2 for MSc 1-year program

EDU-512 Reflection and Critical Thinking

ENG-665 Writing on Linguistic Issues

ENG-675 Pakistani Literature in English

ENG-679 Language and Gender

ENG-653 Language Education Seminar

ENG-683 Language and Culture

ENG-688 Stylistics

ENG-690 Life Skills

5.3 MEd in English Language Teaching

It is a 36 credit-hour program of one year.

Masters of Education in English Language Teaching (MEd ELT) is one year program for graduates with BEd degrees. With the increasing importance of English in national and international networks such as education, media, and industry, we need quality English language teachers who are well versed with the state-of-the art techniques in language teaching. Our traditional approach and practices of English language teaching are not much helpful to this effect.

Since English language teachers are in great demand, one year MEd ELT program attracts a significant number of students holding BEd and higher degrees. With their back ground of Education, they won't undertake education related courses, which presently are integral part of the existing MA ELT program; rather they would take up only the language related courses. MEd ELT is therefore a cost-effective program for them, both in terms of time and money.

Program Curriculum

Compulsory Modules (3 Credit-Hours Each)

ENG-550 Academic Skills

ENG-535 Sociolinguistic

ENG-540 Psycholinguistics

ENG-560 Phonetics & Phonology

ENG-545 Teaching Language Skills

ENG-563 Pedagogical Grammar

ENG-577 Language Research

ENG-580 Assessment in ELT

Master's Thesis (Optional or two courses) 6 credit hours

RES-610 Masters Thesis

Elective Modules (6 Credit-Hours)

Any two from the following courses

ENG-565 Teaching Literature

ENG-555 Computer Assisted Language Learning (CALL)

ENG-567 Lexical Studies

ENG-575 Discourse Analysis

ENG-653 Language Education Seminar

ENG-650 English for Specific Purposes

ENG-666 Experiential Language Learning

EDU-562 Creative Writing

6. BS 4-Year Program in Social Sciences

This program is likely to be launched in the near future and will contain English Language and Literature as one of the major subject options.

Department of Media and Communication

MA Media and Communication

Introduction

Media is becoming one of the fastest growing industries in our country. In the last decade (2000-2010), Mass Media has emerged as a new socio-political and socio-economic force which is supporting the process of required change in society. Media is enhancing its role tremendously to promote democracy, ensure good governance and monitor malpractices. A large number of media organizations have been established and many plans are in the pipeline. Other dimensions of mass communication like Advertising, Public Relations and Development Communication are rising rapidly as growing job-oriented avenues in the communication sector. The enhancement of media industry and communication sector demands strong academic support in shape of fresh graduates of the discipline. Keeping in view the increasing communication needs of society, UMT's School of Social Sciences emphasized to improve the quality of its Media and Communication Department's Master Program. The department has already chalked out a plan to create practical environment for students' proper training. We are also Advertising and Public Relation.

Who can benefit

- Fresh graduates
- Working journalists
- Media organizations
- Public service organization
- Advertising agencies
- Advertising and PR managers
- Media entrepreneurs
- Media and communication consultancy services

Professional linkage

The Faculty of the Media and Communication Department emphasizes close interaction with individuals working in all communication fields, professional news organizations and other educational institutions. Professional reporters, editors, photographers, advertising practitioners and public relations specialists are associated with the faculty through part-time teaching assignments and an extensive internship program.

Career Opportunities

After graduating from UMT, you are likely to find employment opportunities in the following areas:

- Editorial positions at press, broadcast and web media outlets
- Managerial positions in media
- Public relation firms or PR departments of corporations
- Advertising agencies
- Establishing new businesses
- Teaching or researching mass communication

Admission requirement

- Graduation from an HEC recognized University with minimum 45% marks
- Interview

Specializations

- Media Management
- Advertising and Public Relations

Duration: 02 years

Credit-Hours: 66

The Curriculum

The curriculum of MA Media and Communication aims at educating students to support and serve the fast growing Media Industry and Communication Sector. While some specialized skills are essential to enable students to meet current standards, the goal of the curriculum is to produce graduates who are independent professional communicators capable of growing and changing with the times. This program has been designed to meet the requirement of the fast expanding media. It is based on theoretical as well as practical emphasis on the print and broadcast media including web publishing. The program will create awareness among the students about the structure, policies and contents besides developing their journalistic skills.

Core Courses:

MC-501	Introduction to Mass Communication	3 cr hrs
MC-502	Journalistic Techniques: News Gathering and Writing	3 cr hrs
MC-503	Mass Communication Theories	3 cr hrs
MC-504	Fundamentals of Social Sciences	3 cr hrs
MC-505	Computer Skills	3 cr hrs
MC-506	Media History, Press Laws and Ethics	3 cr hrs
MC-511	Research Methods in Mass Communication	3 cr hrs
MC-512	Journalistic Technique: Editing and Page Designing	3 cr hrs
MC-513	Introduction to Broadcast Media	3 cr hrs
MC-514	Communication for Development	3 cr hrs
MC-515	National and International Affairs	3 cr hrs
MC-516	Fundamentals of Advertising and Public Relations	3 cr hrs

Specializations

After the completion of core courses students will have a choice from following two specializations

- 1 Media Management
- 2 Advertising and Public Relations

Media Management

It is designed for people who are either working in managerial positions in media outlets or are working as media managers in business or industry and want to have a better understanding of both media and management. The program provides an insight into how the media shapes the world and, in turn, what shapes the media. It offers a rare opportunity for people who want to be media entrepreneurs.

MC-521	Media and Society	3 cr hrs
MC-522	Media Strategy and Planning	3 cr hrs
MC-529	Media Management	3 cr hrs

MC-528	Human Resources and Media	3 cr hrs
MC-524	Issues in Mass Communication	3 cr hrs
MC-525	Organizational Communication	3 cr hrs
MC-530	Media Entrepreneurship	3 cr hrs
MC-527	Consumer Behavior	3 cr hrs
MC-534	Internship	3 cr. hrs
MC-535	Final Project	3 cr. hrs

Advertising and Public Relations

Courses on Advertising and Public Relations focus on the role of advertising and public relations in business, social, and economic affairs. The sequence of courses is divided between professional courses in advertising and public relations practice and contextual courses focused on the system of mass communications. Students study the relationship between advertising and public relations, and issues that arise in their practice. Concentrated study of advertising or public relations provides students with a broad understanding of persuasive communication issues and the opportunity to develop the ability to create effective communication analyses and campaigns.

MC-521	Media and Society	3 cr hrs
MC-522	Media Strategy and Planning	3 cr hrs
MC-531	Advertising Campaigns	3 cr hrs
MC-532	Dynamics of Public Relations	3 cr hrs
MC-525	Organizational Communication	3 cr hrs
MC-524	Issues in Mass Communication	3 cr hrs
MC-527	Consumer Behavior	3 cr hrs
MC-533	Research in Advertising and PR	3 cr hrs
MC-534	Internship	3 cr hrs
MC-535	Final Project	3 cr hrs

BS Media and Communication

An Overview

Media and Communication is one of the growing disciplines of social sciences which has made a very vast scope in job market in recent years for its young graduates. Media industry is leading to communication revolution throughout the world. Information richness of the society has become an essential need for socio-political and socio-economic stability of any nation. Chalking out BS 4-Year Undergraduate Program, UMT has adopted a broad approach to fulfil existing and emerging communication needs of Pakistani society. We have also planned to show all new avenues of job market to our students and prepare them to manage media industry and emerging horizon of communication sector. Assessing all present and emerging needs of the job market, UMT's Department of Media and Communication (DMC) has planned its new offer (BS 4-Year Program) in a way that our young graduates start career with full confidence. Offering its BS Media and Communication Program, UMT is intended to achieve the following:

Program Objectives

- To make Pakistani society information rich
- Fulfill all demands of human resource required in media and communication market.
- Manage media revolution in a highly professional manner
- Create professional excellence.
- Discovery of innovations in the field of media and communication.
- Motivation of students for launching their own Media Entrepreneurship on small scale.

Course Division

Keeping in mind HEC's policy and all requirements for offering BS Social Sciences programs, courses of UMT's new offer have been divided into five following categories:

- Compulsory
- Introductory
- Foundation courses
- Interdisciplinary and
- Major and Specializations

Vision

DMC envisions Pakistan as economically and politically most stable state, as well as culturally richest nation in the region. From Indian Ocean to Central Asia and ASEAN to Gulf region, DMC visualizes its highly result-oriented communication support for required social change in all identified regions shaped by our graduates.

Mission Statement

Marching towards the destination of South Asian leadership of socio-political and socio-economic development process, our fielded graduates will provide required communication support for behavioural change to bring social revolution leads to intended political and economic stability by 2030.

Learn-and-Earn Approach

We are committed to apply a very professional approach by providing such an environment to the students where they can learn through the blend of theory and practice in a benefiting manner and then transform their learning into earning in a real sense.

Program Strategy

Application of new and growing knowledge these days is the key to successful career in media. Without this the students are not equipped professionally before entering the competitive and demanding market of media, which is constantly upgrading itself.

Keeping this market need in mind, we are conscious about the fact that the students of BS 4-Year Program have not only more time of study than the Master students (who have half the time to study discipline compared to BS students). They are also at age where it is easier to pick up the knowledge and learn use of new technology. Taking benefit of this we will consciously utilize these two potentials to enhance students' capacity and to get them learn innovative professional practice faster and better. During the study, we will design students' potential strategically to take maximum benefit to prepare them as "Young Leaders of Change" in Pakistan that will defuse brought change across the border. Emphasis will be given to maintain balance between class work and practical environment for maximum practical training.

Practical Training

1. Audio / visual Lab
2. FM Radio
3. Lab Newspaper
4. Field Projects
5. Work Shop

6. Seminars / Group Discussion

Off-Campus Training

1. Internship
2. Study tours
3. Field work

BS Media & Communication (4 Year Integrated Curricula)

Compulsory Requirements (the student has no choice)

9 courses, 25 Credit hours

No.	Course/Subject	Cr Hr
1.	English-I (Functional)	3
2.	English II (Analytical Writing)	3
3.	English-III (Communication Skills)	3
4.	Urdu I (in Lieu of Eng IV as per HEC template)	2
5.	Pakistan Studies	2
6.	Islamic Studies / Ethics	3
7.	Statistics cum Mathematics	3
8.	Journalistic Language (in Lieu of Mathematics II as per HEC Template)	3
9.	Introduction to Computer	3

General Courses to be chosen from other departments

7-8 courses, 24 Cr. Hours

No.	Course/Subject	Cr Hr
1.	Introduction to International Relations	3
2.	Introduction to Sociology and Philosophy	3
3.	Human Rights Practice	3
4.	Environmental Communication	3
5.	Computer Skills (Practice)	3
6.	Writing Practice (Eng & Urdu)	3
7.	Political Science	3
8.	World History	3

Discipline Specific Foundation Courses

9-10 Courses, 30-33 Credit hours

No.	Course/Subject	Cr Hr
1.	Introduction to Communication Science	3
2.	Evolution of Journalism and Comm. Technology	3
3.	Media History: Pre and Post Partition	3
4.	Genres of Mass Media	3
5.	Dimensions of Mass Communication	3
6.	Fundamentals of Advertising	3
7.	Basics of Public Relations and Advocacy	3
8.	Basics of Social Media	3
9.	Development Communication	3
10.	Psychological Warfare.	3

Major courses including research project/internship

11-13 Courses, 36-42 Credit hours

No.	Course/Subject	Cr Hr
1.	Media Organisation	3
2.	News Reporting	4
3.	Advance Interviewing Techniques	3
4.	News Production (Electronic and Print)	4
5.	Social Media Communication	3
6.	Online Journalism (Class and Lab Work)	3
7.	Communication Theories	3
8.	Issues in Mass Communication	3
9.	Current Affairs & Infotainments	3
10.	Communication Research	3
11.	Media Law and Ethics	3
12.	Project/Research Report	3
13.	Internship	3

Elective Courses within the major

4 Courses, 12 Credit Hours

No.	Course/Subject	Cr Hr
1.	Documentary and News Package Production	
2.	Advance Reporting	
3.	E-Media (Entrepreneurship)	
4.	Specialized form of Journalism	
5.	Community Journalism	
6.	Advertising (Campaign, Planning and Launching)	

7. Public Relations Project Planning and Launching
8. Development Communication: Project Designing and Implementation Students will choose four elective courses 3X4

Total Credit Hours: 132

These credit hours will be divided in 8 semesters

Admission Criteria:

The candidates having at least second division Intermediate (FA, FSc, GSG, I.Com, A'Level or Equal) certificate will be illegible to apply for admission to BS 4-year Program. Top preference in admission process will be given on the basis of obtained marks in the above mentioned programs of intermediate level. A two-member admission committee of permanent faculty members will also conduct interviews of the applicants to evaluate the capacity of candidates for admission to the undergraduate program.

Number of Seats: Limited up to 50 seats with two seats for foreign students

Academic Session: Admission will be open for two weeks, twice before Fall and Spring Semester.

Rules and Regulations: All admission rules and regulations and policy or decision will be adopted / implemented / chalked out /taken on the basis of undergraduate programs offered by UMT.

Department of Social Sciences

Introduction

The Department of Social Sciences was established in 2008 in the School of Social Sciences and Humanities (SSH). A variety of courses in the social sciences equip its graduates with knowledge and research tools for analyzing policy decisions, enabling them to understand and apply a scientific approach in the study of contemporary social issues and an ability to come up with optimal solutions. Social science courses foster critical thinking in order to better understand human actions. The students acquire the ability to unfold meanings which are constructed through social interactions and sustained by a number of socio-political factors that become barriers to any social and political change necessary to safeguard the real interests of the people and to change the forms of life they live in.

BS Social Sciences

The Department started the four-year BS Social Sciences Program in Fall 2008. The program aims at developing a mind capable of discharging obligations as a globally responsible citizen in the context of the Muslim Ummah. It provides interdisciplinary perspective on the study of man and society, both at the individual and collective levels. Using the latest knowledge and methods of the social sciences, students are empowered to think clearly about social problems and issues. Their ability to take initiative for solving problems results in production of new knowledge.

Prospective Careers

Social sciences are the backbone of national cohesion and development in terms of social and economic competitiveness. High-quality and vocationally relevant courses at UMT prepare graduates for a wide range of career opportunities. These may include key positions in the civil services, judiciary, and top management in business and industry. Similarly, top positions in print and electronic media, NGOs, INGOs, multinational organizations and civil society organizations are open to social sciences graduates. Social sciences impart a strong knowledge base to establish institutions for service to humanity or business for self employment.

Fields of Study

Currently the Department offers BS in the following disciplines:

- Psychology
- English Language and Literature

Teaching and Assessment

Courses are taught through a diversified instructional methodology. Depending upon the nature of content to be taught, the resource person selects one or more teaching strategies in order to meet the diverse needs of all learners. Multimedia and other audio/video aids are also used. There are paper presentations, group discussions, homework assignments/ response papers and periodical assessments and evaluations through quizzes, class tests, midterm and terminal examination. The classroom environment is democratic and interactive. There are 15 minute discussions at the end of each class. Enthusiastic participation and debate is expected from each student. This discussion is taken seriously into consideration by awarding marks for class participation.

Division of Marks

Quizzes	10 %
Assignments / Case Studies	10 %
Class Participation	10 %
Midterm	25 %
Project/ Presentation	15 %
End Term Exam	30 %

Future Targets

Strengthening the ongoing BS-SS program and expanding it by including the following majors:

- Political Science
- Education and Special Needs Education
- Sociology
- Philosophy
- Multidisciplinary

New Master Degree Programs

- Master in Psychology
- Master in Sociology

These master programs will be offered by establishing independent departments in these disciplines.

Co-curricular Activities

The Department of Social Sciences (DSS) organizes co-curricular activities for the participants on regular basis. Such activities are no doubt an essential ingredient for personality development, and unravel the talent and capability of students in specific fields. These include organizing seminars and talks on diverse themes, inviting scholars and social scientists from different walks of life, arranging educational and recreational trips for the participants, debates and declamations contests, and celebrating events of national importance with active participation of students. DSS also plans to publish students' magazine and a newsletter of the Department.

Total number of participants presently enrolled in DSS: 46

Batch 1 (Fall 2008)

Media and Communication 09

Psychology 04

Batch 2 & 3 (Spring 2009 & Fall 2009)

Media and Communication 17

Psychology 04

English Language and Literature 05

Batch 4 (Spring 2010) 07

Academic background of participants

Total number of participants presently enrolled in DSS: 42

FSc 19

FA 16

ICS 04

A-Levels 07

MSc Psychology

MSc Psychology is another most popularly offered program in post graduate colleges and in the universities. It is a 2-year program offered to those who have completed 2 years BA/BSc degree from any HEC recognized university in Pakistan. There will be two semesters course load in each year.

Scheme of Studies

In a span of 4 semesters, courses of 72 credit hours will be covered as detailed below:

Foundation Courses

5 courses, 17 credit hours

Introduction to Psychology, Social Psychology, Developmental Psychology, Physiological Psychology, History and Systems of Psychology

Major Courses

12 courses, 40 credit hours

Emotions, Mental Health and Psychopathology, Psychological Assessment and Testing, Research Methods in Psychology, Inferential Statistics and SPSS, Clinical Psychology, Qualitative Research Methods, Cognitive Psychology, Experimental Psychology, Organizational Behavior, Educational Psychology, Positive Psychology

Elective Courses

3 courses, 9 credit hours

Psychology of Religion, Gender Psychology, Early Childhood Psychology, Human Resource Management, Consumer Psychology, Muslim Contributions in Psychology, Community and Mental Health

Research Thesis

6 credit hours

Scope and Job Opportunities

After completing the MSc degree, students can find jobs in a variety of work settings and organizations such as educators in educational institutions and psychologists in the armed forces. They can also work in counseling and guidance centers, NGOs, Civil Services as well as in Social Welfare Department.

The program covers major areas of psychology and emphasizes theories and principles of Psychology applied in understanding real life human behavior. Lab work and research thesis are essential parts of the program.

MPhil Psychology

MPhil Psychology Program (2 years) 30 credit hours

Features

It is employment oriented practitioner's graduate program with two distinct areas of concentration: Clinical Psychology, Personnel-Organization Psychology in order to meet the requirement of in depth study of a specific field of knowledge.

The graduates would have the prospects of getting a job in Psych-Clinical or Rehab setting if they take two courses in the relevant area of concentration followed by internship and thesis in the same area. The other area of concentration with relevant courses, internship and thesis would stand them in good stead in HR settings as Psychologists / Psychometricians.

Eligibility

- 16 years of education with not more than one second division in the academic career and having terminal degree in psychology as major with at least 2.5 / 4.00 CGPA.
- Required to qualify international GRE or GAT (general) administered by NTS and a subject test (psychology) by UMT.

Program / Scheme of Studies

Core Courses

- 501 Perspectives in Psychology
- 502 Research Methods
- 503 Advance Statistics
- 504 Psychological Assessment
- 505 Clinical Psychology

Area of concentration (2 courses)

- 506 Personnel Psychology
- 507 Organizational Psychology

OR

- 508 Counseling Psychology
- 509 Therapeutic Models: Theory and Practicum
- 510 Internship (in the relevant area)
- 511 Thesis (1 year research project) 6

Note: Courses Psy-501-505 are compulsory for all. However, students will take Psy-506 & Psy-507 or Psy-508 & Psy-509 as electives according to their own choice of area, i.e., Clinical Psychology OR I / O psychology. They will individually seek internship in the same area and later, choose a topic for thesis.

Research Work / Thesis

Students who successfully pass in the compulsory and elective courses will take up research work in the third and fourth semester. They will take up research preferably in the area of their concentration /elective subjects and prepare a thesis to document their work. The thesis shall be submitted by the end of the 4th semester. Evaluation of thesis will be carried out by the external examiner. Approval of the thesis by the Board of Examiners shall be mandatory for award of degree.

Course Activities and Grading

There shall be 10-12 assessments throughout the semester in each course which includes but are not limited to quizzes, projects, assignments, mid-term and final-term exams as well as class participation including regular attendance.

Resources

Presently, there are 5 full time faculty members and other professionals associated with hospitals and research organizations that teach and supervise students. Lab facilities exist here for practicum. A collection of over 300 psychology books and electronic database of (Springer Link and Science Direct) research journals are among other vital resources available on campus. Junior students sign up for experiments and psych tests for experience.

PsychSoc

PsychSoc (Psychology Society UMT) is the forum for informal discussion and interaction between faculty and students. Members of PsychSoc also interact through facebook. The society aims at arranging co-curricular programs like inviting guest speakers, arranging seminars and discussion groups on subject and themes of psychology through the student leadership.

Career Options

After completing 4-year degree in psychology, one can work in health facilities, schools, labor relations, training and development and the government. More specifically, one can be employed as lecturer, school psychologist, probation officer, psychologist in special education, personnel psychologist in military and civilian recruitment agencies i.e. ISSB, PSC etc. There are a variety of jobs for psychologists in social sector NGOs and advocacy groups. With a higher degree (M Phil / MS) that requires, research, writing and practice, you can work in universities, research organizations, hospitals, and counseling and rehabilitation settings.

BS Psychology

Psychology degrees are one of the most popular options at colleges and universities throughout the world. As a field, psychology studies areas as diverse as clinical behavior problems, child development, workplace violence, self-esteem, racial prejudice, memory, decision making, mental illness, cognition and effect of different drugs on the brain. Psychologists also learn to critically evaluate “common sense” knowledge about how people function.

Vision

To understand multiple facets of human behavior within a broad spectrum of psychology theory, method and history in the tradition of the social sciences

Mission

To promote psychological literacy by offering instructions in psychology with the combination of course work and research, and foster critical thinking skills among our students to understand psychological knowledge in the local context for solving personal and interpersonal problems

At UMT, BS Psychology is a 4-year program that focuses on behavior of people in the perspective of the social sciences. The program introduces students to the fundamental principles of psychology, various fields within psychology and methods used in psychological research.

Education in psychology, by its subject matter and method of study, develops and promotes the following skills and insights in learners:

- Critical and creative thinking skills
- One-on-one and small group communication
- Understanding of individual human behavior
- Knowledge of group and organizational behavior

Scheme of Studies

In consonance with the broad goals and learning outcomes set by HEC, BS 4-year Psychology program has been segmented into five categories defined below and detailed in the road map:

Courses	Credit Hours
Compulsory Courses	25
General Courses	21
Foundation Courses	27
Major Courses	45
Elective Courses	12
Total	130

Other Features: Lab and Practicum, Field Projects/work, Workshops / Seminars, Internship

BS English Language and Literature

A Road Map

Semester I

ENG-101	English-I	3
POL-101	Pakistan Studies	2
MTH-101	Mathematics OR	
RMS-101	Introduction to Statistics	3
URD-101	Urdu Literature OR	
ARB-101	Arabic OR	
PER-101	Persian	3
PHL-105	Introduction to Philosophy OR	
PSY-101	Introduction to Psychology	3
GEN 301	Foundations of English	3

Semester II

ENG-105	English-II	3
ISL-101	Islamic Studies	2
PHL-101	Logical Reasoning OR	
MTH-101	Mathematics OR	
RMS-102	Applied Statistics	3
MC-101	Introduction to Mass Communication OR	
POL-105	Introduction to International Relations	3
POL-110	Introduction to Political Science OR	
POL-115	World History OR	
POL-120	Modern History OR	
MNG-101	Business Management	3
GEN 307	Communication Skills	3

Semester III

ENG-110	English-III	3
COM-201	Computer Applications in Social Sciences	3
SD-201	Life and Learning OR	
POL-201	Ideology of Pakistan OR	
PHL-201	World Religions and Civilizations	3
SOC-201	Introduction to Sociology OR	
EDU-201	Introduction to Education	3
GEN 302	Study Skills	3

Semester IV

ENG-201	English-IV	3
ECO-201	Introduction to Economics OR	
ISL-201	Islam and Society	3
RMS-201	Methods of Social Research	3
ENG 409	Introduction to Linguistics	3
ENG 401	History of English Literature	3

Semester V

ENG 407	Introduction to Poetry	3
ENG 408	Introduction to Drama	3
ENG 511	Morphology And Syntax	3
ENG 502	Poetry (17th – 19th Century)	3
ENG 506	Sociolinguistics and Psycholinguistics	3

Semester VI

ENG 501	Literary Theory And Criticism	3
ENG 505	Phonetics & Phonology	3
ENG 510	Semantics and Pragmatics	3
ENG 503	Elizabethan Drama	3
ENG 507	Modern Poetry	3

Semester VII

ENG 504	Novel (18th -19th Centuries)	3
ENG 605	Applied Linguistics I	3
ENG 606	Creative Writing OR	

ENG 601	Prose	3
ENG 602	Pakistani Literature in English OR	
ENG 402	Contemporary Essays and Short Stories	3
ENG-400	Research Project	3
Semester VIII		
ENG-450	Research Project	3
ENG 509	Modern Novel	3
ENG 508	Modern Drama	3
ENG 608	Applied Linguistics II	3
ENG 604	Discourse and Text Analysis OR	
ENG 607	Stylistics	3

Knowledge Unit

Department of Special Needs Education

MA Special Education

The MA Special Education has been launched at UMT to prepare teachers to provide most appropriate learning environment to the children with special needs. The curriculum and instructional methodology are bench marked to international standards. The participants are able to pursue higher studies anywhere in the world after completing this program. The program is especially tailored in line with the international movement for inclusive education and UNCRPD. It enables students to understand general principles and practices in the education of students with special needs and acquire specialist knowledge and skills in one area of specialization. The areas of specialization offered include hearing impairment, intellectual impairment and visual impairment. The program is a blend of theory and practice. The option of internship is available for those who intend to join teaching as a profession.

Entrance Requirement

Graduation with minimum 45% marks

Admission Criteria

All applications are evaluated on the basis of merit as determined by the applicant's previous academic record and performance in the interview.

Program Duration

Two years

Job Opportunities

The Department, through its placement cell, helps its graduates in their placement in various public and private institutions. The graduates are eligible to apply for positions as Junior / Senior Special Education Teachers Government of the Punjab, Educators, Lecturers in Teacher Education Institutions, and Research Officers in various departments.

Program Requirement

The break-up of the program requirement is given below:

Compulsory Courses	42 credit hours
Pedagogical Area of Specialization	6 credit hours
Professional Area of Specialization	9 credit hours

Internship / Teaching Practice 9 credit hours

Thesis 6 credit hours

Total credit hours 72 credit hours

Program Curriculum

A. Fourteen Compulsory Courses (42 credit hours)

- SNE-501 Human Exceptionalities
- SNE-503 Foundations of Special Education
- SNE-506 Inclusive Education: Theory and Practice
- SNE-509 Assessments and Evaluation
- SNE-512 Early Childhood Special Education
- SNE-515 Life and Learning
- SNE-518 Human Development
- SNE-521 Adaptations in Curriculum and Instruction
- SNE-524 Differentiated Teaching in Regular Classroom
- SNE-527 Research Methods in Special Education
- SNE-530 Teaching of Reading and Writing
- SNE-533 Computer Applications in Special Education
- SNE-536 Policy, Management and Administration in Special Education
- SNE-539 School – Community Collaborative Development

B. Pedagogical Area of Specialization (6 credit hours)

(Two courses from any one area of pedagogical specialization)

Teaching of Science and Maths

SNE-600 Teaching of Science

SNE-601 Teaching of Maths

SNE-602 Teaching Science and Math to Special Needs

Teaching of Urdu, Islamic/Social Studies

SNE-605 Teaching of Urdu

SNE-606 Teaching of Islamic Studies

SNE-607 Teaching of Social Studies

Teaching of English, Urdu/Social Studies

SNE-608 Teaching of English

SNE-607 Teaching of Social Studies

SNE-605 Teaching of Urdu

C. Professional Area of Specialization

(9 credit hours)

(Three courses from any one area of professional specialization)

Hearing Impairment

SNE-615 Deafness and Hearing Disorders

SNE-630 Educational Audiology

SNE-645 Teaching Speech and Auditory Skills

Visual Impairment

SNE-620 Visual Impairment

SNE-635 Low Vision and Partially Sightedness

SNE-650 Assistive Technology for Visually Impaired

Mental Retardation and Developmental Delays

SNE-625 Mental Retardation

SNE-640 Learning Disabilities

SNE-655 Autism Spectrum Disorders

D. Internship/ Teaching Practice (9 credit hours)

SNE-660 Teaching Practice I

SNE-665 Teaching Practice II

SNE-670 Teaching Practice III

E. Theses / Research Project (6 credit hours)

SNE-690 Master Thesis

(It will be offered in the last semester in the professional areas of specialization.)

Department of Islamic Thought and Civilization

Introduction

The University of Management and Technology (UMT) is committed to the noble task of dissemination of knowledge and development of human beings capable of undertaking divine responsibilities ensuing from their distinguished position as vicegerents of God in the universe. Besides offering courses in Islamic Studies compulsory at the undergraduate level, UMT also offers graduate courses to students to infuse in them the spirit of dedication for Islamic norms and values so that they not only excel in their worldly profession but also become practicing Muslims.

The teaching of Islamic Studies has a special place in the scheme of studies at UMT. Even before getting the university charter, two courses of Islamic Studies (3 credit hours each) were being offered in the Institute of Leadership and Management (ILM) as it was known at that time. The first course titled 'Islam and Personality' focused on basic teachings of Islam and their impact on developing the personality of a Muslim. The second course, called 'Islam, Society and Systems', focused on Islam as a system which governs society, including contemporary issues and challenges which Muslim societies are facing and their solutions in the Islamic perspective.

The Department of Islamic Thought and Civilization (DITC) was established in January 2008 and just the name of the Department signifies that it is different from routine Departments of Islamic Studies that are in vogue. DITC offers MS/MPhil in Islamic Thought and Civilization followed by a PhD program. The unique feature of this MPhil program is that it is opening its doors to all those who have completed 16 years of education in any discipline ranging from social or natural sciences to engineering, medicine, commerce, Islamic Studies, languages, etc. The program aims to attract students from an inter-disciplinary background distinct in diversity and richness. The purpose is to attract a better mix of students for cross-fertilization of ideas, as opposed to the routine policy of allowing admission to only those who hold master degree in Islamic Studies. In this context, DITC has planned three semesters' vigorous coursework of 12 credit hours each and a thesis of six credit hours. DITC is concerned with character building and personality development of faculty, staff and students in the Islamic perspective.

For this purpose, a Moral Development Committee has been established. DITC has made Juma congregation an effective institute of Tarbiya. Khutba-i-Juma is delivered by the faculty members of the Department and sometimes even by the Rector himself. A list of topics has been prepared and is available on the University website. A faculty member is available in his office for one hour after Juma congregation to answer queries of students about Khutba-i-Juma or any other topic on an issue related to Islam and the Islamic way of life. A female faculty member is also available for guidance and counseling.

DITC offers ample opportunities to the students to interact, network and partner with scholars and academicians from inland and abroad in areas of contemporary research, to refine thought, improve upon practice, and create and disseminate knowledge. The Department frequently arranges seminars during the semester and invites distinguished scholars to speak on selected topics. DITC is in the process of publishing monographs of these scholarly addresses.

It plans to launch an English language bi-annual research journal titled 'Journal of Islamic Thought and Civilization' The Department held a National Conference on 'Islam and Modernity' in March 2009 that attracted scholars from seven universities. The DITC now plans to organize an International Conference on Islamic Civilization in which distinguished scholars and academicians from all over the world would participate, Insha Allah.

MPhil and PhD in Islamic Thought and Civilization

Vision

Mphil and PhD in Islamic Thought and Civilization programs aim to strengthen research and teaching about Islam, giving specific attention to Islamic thought and civilization in contemporary settings. The programs seek to provide a unique and multifaceted approach to the study of Muslim thought and civilization by placing the study of Islam within a framework of the religious and civilizational study, allowing for a wider analytical and comparative perspective.

Aims and Objectives

1. To open new vistas of instructions and research in Islamic thought and civilization.
2. To promote studies and research in Islamic thought and civilization involving conceptual analyses, clarifications and elaborations of Islamic key concepts relevant to the cultural, educational, scientific and epistemological problems encountered by Muslims in the present age.
3. To provide an Islamic response to the intellectual and cultural challenges of the modern world and promote inter-faith and inter-civilizational dialogue.

Merits of the Programs

High quality research and advanced courses are the strength of these programs, which are supported by professional and dedicated faculty, excellent library facilities and ample financial assistance.

1. The programs are research based and latest research methods and techniques in vogue in Western world will be introduced to participants so that they are able to conduct effective qualitative and quantitative research.
2. Ways and means are identified to provide participants an opportunity to explore countries of the Muslim world, so that they may write reports on problems and challenges being faced by the Muslim societies and recommend solutions to the problems.
3. In addition to the intellectual and academic resources available locally, foreign Muslim scholars and even non-Muslim scholars are invited to share their knowledge with the participants.
4. There are people in decision-making positions in the corporate sector, government agencies and even in the private sector who wish to take decisions in the Islamic perspective. These programs can help and inculcate true Islamic spirit in these people.

5. The programs have been designed to address real world issues in objective and rational manner in Islamic perspective, avoiding sectarianism or any affiliation with specific religious or political ideologies. Hence, the curriculum has been developed in a way which reflects impartiality, rationality and views of all schools of thought. It is not limited to any single sect, ideology and framework.
6. The participants are educated and trained in a way that they may affectively participate and play a role in interfaith and inter-civilization dialogue.

All that is required on the part of the student is enthusiasm and genuine interest in the subject.

Career Opportunities

- 1 MPhil/PhD degree in Islamic Thought and Civilization will widen career options including existing opportunities in public and private sector educational institutions.
2. The world's interest in Islam has increased manifold and consequently most of the world / Western universities have introduced courses on the study of Muslim civilization. These universities are looking for highly qualified and skilled teachers. Our program is designed to produce such teachers.
3. Debate on Islam has also increased in print and electronic media and policy making institutions nationally and internationally. This program would prepare scholars to initiate dialogue in the Islamic perspective in these organizations.
4. Research on Islam has also increased in public and private sector universities and research institutions. This program would prepare researchers who are able to conduct research in these institutions in Islamic perspective.

Admission Criteria

MPhil Islamic Thought and Civilization

Admission to the program is based entirely on merit. The basic policy of the Admissions Committee of the Department of Islamic Thought and Civilization is to select those men and women whose intellectual capacity, potential and personal characteristics best qualify them to pursue careers in Islamic Thought and Civilization.

Applicants will be assessed on the following criteria:

- A minimum of sixteen years of education, minimum second division, resulting in a master or bachelor degree in any discipline (social, physical and natural sciences, law, medicine, engineering, languages and religious studies, etc.) from Higher Education Commission recognized universities / institutions.
- Entrance Test
- Interview performance
- GAT (Gen)

There are no age, nationality and gender restrictions.

Scheme of Studies

MPhil Islamic Thought and Civilization

The students will study 12 courses (including two non-credit Foundation Courses) in three semesters; four courses in each semester.

a. Coursework

Core Courses	Credit Hours	
1. Quranic Studies	3	
2. Hadith Studies	3	
3. Fiqh Studies	3	
4. Research Methodology	3	
5. Islamic Thought and Civilization	3	
6. Western Thought and Civilization	3	
7. Ijtihad and Contemporary Issues	3	
8. Comparative Religions	3	
Elective Courses		
9. Islamic History and Geography OR		
10. Political Thought of Islam OR		
11. Economic Thought of Islam	3	
12. Islam and Natural Sciences OR		
13. Islam and Social Sciences	3	
Foundation Courses		
14. Arabic Language	Non Credit	
15. English Language	Non Credit	
b. Thesis	6	
c. Project: Understanding Quran	3	
Total Credit Hours		39

Admission Criteria for PhD Islamic Thought and Civilization

Applicants will be assessed on the following criteria:

- MPhil Islamic Thought and Civilization or in Islamic Studies (Students having MPhil in Islamic studies from other universities may be asked to take pre-requisite courses in Islamic and Western Thought and Civilization) or equivalent degree from an HEC recognized university with a minimum CGPA of 3.00/4.00

- Interview performance
- Arabic and English Language Proficiency Test
- GRE Subject

There are no age, nationality and gender restrictions.

The Admission Committee will first review the applications to ensure that candidates meet the above requirements. After preliminary review, the Admission Committee will shortlist the candidates for interviews. The final decision will be taken after the interview.

Degree Requirement

- Course Work (18 credit hours)
- Comprehensive Examination
- One publication in HEC Approved Journal
- Subject GRE International/Local
- Research Work (27 credit hours)

Program Duration 3.5 Years

Scheme of Studies PhD Islamic Thought and Civilization

Coursework

18 Credit Hours

Core Courses Credit. Hours

1.	Research Methodology and Islamic Research Paradigm	3
2.	Contemporary Islamic Thought	3
3.	Islamic Civilization in the Contemporary World.	3
4.	Muslim Response to Modernity and Post-modernity	3

Elective Courses

Students may select any two courses out of the following:

- 1. Muslim Arts and Architecture 3
- 2. Seminar on Islam and Contemporary Issues 3
- 3. Comparative Study of Major Civilizations 3
- 4. Seminar on Contemporary Muslim Societies and Leadership Challenges 3
- 5. Revival and Reform Movements in the Muslim world 3

Doctoral Dissertation

(27 credit hours)

Each participant must write dissertation in the major areas of specialization consisting of original research of high impact. In addition to the internal dissertation committee, the dissertation will also be examined by two eminent international experts in the related field.

Credit Hours

Course Work	18
Thesis	27
Total	45

**School of
Professional Advancement**

Message from the Director

On behalf of the School of Professional Advancement (SPA), I am delighted to introduce you to our dynamic, multi-disciplinary and participant-centered learning community. At SPA, we offer professional education programs specifically designed for mid-career professionals and job seekers. The SPA has been established to provide a technological and professional base for upward mobility and professional growth of individuals who are engaged in various professional fields.

According to studies, all professionals need to continuously learn new knowledge and skills in order to retain their jobs in the present day fast paced corporate sector. Information technology has transformed both life and the work environment to the extent that a new breed of human resource is required to survive in a highly vibrant and competitive economic environment. The ever changing nature of the job market exerts tremendous socio-psychological pressure on professionals to adapt to changing job requirements. We are proud to say that SPA is ideally placed for fulfilling the professional needs and requirements of the industry.

The School offers customized and specialized programs for the corporate sector tailored according to organizational needs. It equips the participants with the critical and analytical skills and competencies required to sustain themselves in the dynamic corporate environment.

Naveed Yazdani
Director SPA

The School of Professional Advancement (SPA)

The School of Professional Advancement (SPA) is a subsidiary of UMT. It is a dynamic sub-unit of UMT catering for the lifelong educational needs of participants and professionals. SPA's core activities revolve around the theme of "building professionals for the future". It has been established to provide a base for upward mobility and professional growth of individuals across various sectors.

The recent trends of the business world suggest that professionals will continuously need to learn new knowledge and skills in order to retain their jobs in a highly competitive business environment. SPA not only understands these trends but also makes periodic estimates for future developments which provide professionals a dynamic platform to equip themselves for the mounting competition. SPA pursues a three-pronged mission:

Instructional Mission

- To serve as a source of knowledge and expertise for the students' education and professional development through designing state-of-the-art programs and courses.
- To continuously experiment in developing new programs and instructional models which enhance educational quality for SPA students.
- To provide high quality research-based master degree programs.
- To pitch the same level of intensity by all faculty members (permanent and visiting) in all classes and all courses.

Pedagogical Mission

- To ensure that 'learning by doing' approach, underpinned by the philosophy of reflection-change-action, is demonstrated by the faculty throughout all SPA programs.
- To encourage students to think critically about their academic as well as personal frames of references and to provide them the skills and abilities to challenge their own and others' habits of mind and points of view.
- To ensure provision of technology supported learning environment in and off the classes.

Curricular Mission

- To transform SPA students into better individuals and members of society.
- To serve as a liaison and a resource between industry and academia.
- To enable all SPA staff members to increase their academic and professional knowledge as a means of constantly improving the school and its activities.

Degree Programs

SPA offers job-specific, skill focused, market oriented master degree programs that impart cutting edge knowledge and practical skills to meet the ever changing corporate demands. Currently, the following master degree programs are being offered.

- Master of Human Resource Management
- Master of Management Consulting and Organizational Development (MMC&OD)
- Master of School Management
- Master of Fashion and Luxury Management
- Master of Marketing Management
- Master of Sales Management
- Master of Supply Chain Management
- Master of Transportation Logistics Management
- Master of Project Management
- Master of Real Estate and Urban Planning
- Master of Banking and Finance
- Master of Agri-Business
- Master of Computer Science
- Master of Information and Communication Technology

Diplomas

Swinburne IT Diploma

CIM Chartered Diplomas:

- Professional Certificate in Marketing
- Professional Diploma in Marketing
- CAM Diploma in Digital Marketing
- CAM Diploma in Marketing Communication
- CAM Diploma in Managing Digital Media

It is worth mentioning that participants have the option of opting for certifications in their area of interest in any of the programs offered by SPA.

Program Duration

- 45 credit hours (1 year) for 16 years of relevant education
- 72 credit hours (2 years) for BA / BSc / BCom

Master of Human Resource Management (MHRM)

Rationale

Human resources are the real assets for any organization. Even more today than in the past, an organization's efficiency is impacted by the effectiveness of its human talent. The Master of Human Resource Management (MHRM) program is designed for professionals who are seeking a career in HRM. This program seeks to inculcate HRM skills and capabilities in the participants. The major thrust of the program is to train a group of professionals who are academically strong and judicious in their planning to contrive human resource for the best output while possessing the capacity to work in a challenging environment. The program seeks to prepare participants who are well versed in the art of human relations management.

Program Objectives

The Master of Human Resource Management is a highly comprehensive program adapted to glean managerial skills for professionals to deal with the diverse workforce in different organizations. It seeks to develop a proactive focus in the participants. It encourages and prepares them to recognize and utilize the strategic importance of HRM in an organization. Understanding the importance of HRM for human as well as organizational development, this program aims to produce individuals with sound theoretical background and intellectual capabilities which are necessary for executives of modern organizations.

Foundation Courses

- Management of Organization
- Management Application of ICT
- Statistical and Economic Analysis in Management Decision
- Communication for Managers
- Financial Accounting Analysis
- Marketing Management
- Entrepreneurship and Managing SMEs
- Building Sustained Competitive Advantage

Core Courses

- Succession Planning and Mentoring
- Organizational Behavior
- Recruitment Selection and Development

- Performance Management Systems
- Compensation and Benefit Management
- Human Resource Information System
- Industrial Relation and Labor Laws
- Psychometric Testing

Applied Courses

- Interviewing Skills Development Workshop
- Negotiation Skills Development Workshop
- Team Building Skills Development Workshop
- Diversity and Change Management

Projects: Two System Synthesis Project

Career Opportunities

Successful completion of this program would lead participants to dynamic careers in managerial capacities in business organizations in both the public as well as the private sector as human resource executives and human resource managers. Under the influence of globalization and the resulting technological changes, the structural evolution of organizations is providing new openings to human resource managers. Most of the organizations understand the importance of human resources and are on the lookout for dynamic and capable human resource managers.

Master of Management Consulting and Organization Development (MMC&OD)

Rationale

Pakistani managers need to break the traditional 'management' mould and to look at their companies through the eyes of a consultant. They need to identify and solve problems rather than manage them in a conservative way in the hope that the 'system' would provide the solutions. The program seeks to break the traditional and functional view of management towards a process view of organizations. It is envisaged that this program will serve as a model to revolutionize managerial thinking from function to process approach. Businessmen cannot just sit back and let their organizations decline due to lack of political will to solve core issues related to power, energy and the economy. They can only respond to the discouraging environment by being proactive and taking charge of their own destinies. Graduates of the Master of Management Consulting and Organizational Development program will help the local industry to renew the skills of their employees so that they may become a part of the industrial revolution, reviving the Pakistani economy through inculcation of competencies, and getting rid of dependence on external and uncontrollable factors.

Program Objectives

The School of Professional Advancement (SPA) offers Master of Management Consulting and Organizational Development Program which aims to inculcate skills in students through which they will be enabled to improve organizational effectiveness by means of a systematic change program. This program seeks to prepare the students for understanding, diagnosing and mastering change so that they are able to transform their organization's 'products and services in accordance with the changes in economy and environment.

The MOD&C curriculum is designed to educate students towards increasing the effectiveness of individuals and organizations. Three basic modules underpin the sequence of this course: understanding and diagnosing organizational change, developing high performance and mastering change.

Foundation Courses

- Management of Organization
- Management Application of ICT
- Statistical and Economic Analysis in Management Decision
- Communication for Managers
- Financial Accounting Analysis
- Marketing Management
- Entrepreneurship and Managing SMEs
- Building Sustained Competitive Advantage

Core Courses

- Introducing Organizational Change
- Diagnosing Organizational Issues
- Applying Statistical Analysis for Organizational Change
- Managing Strategic Human Resources
- Building a Strategic Organization
- Process Consulting Skills

- High Performance Systems and System-wide Interventions
- Action Research

Applied Courses

- OD Consulting Skills Development Workshop
- Team Building Skill Workshop
- Business Process Re-engineering
- Management Consulting in Pakistani Prospective

Projects: Two System Synthesis Project

Career Opportunities

Successful graduates of this program will be ideally suited to take up roles and responsibilities in a broad range of fields such as:

- Organizational Development, Management and Business Consultants (both external and internal consultants)
- Business Development Managers
- Strategic Business Analysts
- Top positions in General Management and Human Resource Development
- Outstanding teachers of Management, Human Resource Management, Organizational Development and Change Management

Master of School Management (MSM)

Rationale

Changes in school administration over recent decades are part of a larger trend in the management of public service organizations that can be characterized as the decline of older public administrative models and the rise of a New Public Management (NPM) model. The ideas and research findings behind the NPM model in public services – flatter management structures, market like mechanisms, decentralization, customer orientation and evidence-based improvement of services – have significantly changed the approach to organizational management. The effectiveness of these changes is still debated in education research and policy circles, but it is clear that these ideas, and the debate surrounding them, have changed the terms of management.

Program Objectives

- Visioning for school improvement
- Creating positive school culture, providing an effective instructional program, and designing comprehensive professional growth plans
- Managing the organization
- Collaborating with families and community, and responding to diverse interests and needs
- Acting equitably and with integrity
- Interacting and influencing the larger political, social, economic, legal, and cultural context

Foundation Courses

- Management of Organizations
- Management Application of ICT
- Statistical and Economic Analysis in Management Decision
- Communication for Managers
- Financial Accounting Analysis
- Marketing Management
- Entrepreneurship in Education
- Building Sustained Competitive Advantages

Core Courses

- Educational Leadership
- Teaching Methodologies
- Curriculum Management
- Educational Psychology
- Staff Development
- Assessment Techniques

- Standards and Quality Assurance in Schools
- Research Methodologies

Applied Courses

- Strategic Management in Montessori School
- School Resource Management
- School Effectiveness and Improvement
- Behavior Management in School

Projects: Two System Synthesis Project

Career Opportunities

Effective managers are needed at all levels of education - from first line administrators to top executives - to plan and direct the work of the organization, set policy, establish channels of communication, and evaluate the work that is done. The MSM program is a transformational experience. You will develop deep knowledge and skills in the key areas of the education sector, and the self-awareness and sense of perspective to make smart choices about your future. This program is geared to help you gain the knowledge and understanding needed to advance your leadership career in the education sector.

Master of Fashion and Luxury Management (MF&LM)

Rationale

The Master of Fashion and Luxury Management is designed to provide national and international companies in these sectors with the profiles they need to perform globally in a competitive manner. Students acquire the specific know-how of the unique factors involved in building fashion, design and luxury brands in these highly competitive and global sectors. The fashion and luxury sectors are amongst the fastest growing in Pakistan. For this reason, companies in these industries are seeking to recruit experts who are able to manage and grow their brands.

This program has generated a varied and adaptable workforce for the apparel and sewn products industry. Graduates have been employed by apparel manufacturers, designers, wholesalers, importers and many of the major and independent retailers; some graduates have become entrepreneurs. Graduates are employed in positions leading to careers as product developers, fashion buyers, production managers, quality control managers, and costing analysts, work measurement engineers, purchasing agents, visual merchandisers, store managers and transportation/distribution managers.

Program Objectives

The program's objective is to enable students to achieve their career ambitions by giving them regular access to experienced fashion and luxury specialists who have both strong academic skills and practical in-company experience, improving and expanding participating students' career prospects by providing them with training in fashion and luxury management as well as understanding the issues in international trends and working across cultures. For those who may be working or studying outside the field of art, fashion and luxury, this program provides the opportunity for a change in career direction.

Foundation Courses

- Management of Organization
- Management Application of ICT
- Statistical and Economic Analysis in Management Decision
- Communication for Managers
- Financial Accounting Analysis
- Marketing Management
- Entrepreneurship and Managing SMEs
- Building Sustained Competitive Advantage

Core Courses

- Introduction to Fashion Industry
- Social Psychology of Fashion
- Research Methods
- Fashion Sketching and Illustration
- Fashion Boutiques Management
- Fashion Advertising and E-Marketing
- Luxury Brand Management
- Fashion Event Planning

Applied Courses

- Fashion Merchandising
- Interior Design
- Jewelry Design
- Fashion Export Management

Projects: Two System Synthesis Project

Career Opportunities

The Master in Fashion and Luxury Management opens opportunities to pursue careers in a wide range of fashion and luxury fields. Whilst having a strong disciplinary base in national and international luxury brand management, its range is such that graduates will be able to work with specialists in other areas, getting involved in creative, marketing or finance positions. Graduates can go on to work at top level management, designing, sourcing, merchandising, budgeting, advertising, product development, product management, public relations, events management, store design, retail management, and people management in the fashion and luxury goods sector.

Master of Marketing Management (MMM)

Rationale

There is a direct relation with the growing market of products and ever-increasing number of consumers. To make an estimate of the actual demand of the market and to understand the relation between consumers and manufacturers, it is important to explore diversified dimensions of different markets. The participants enrolled in the Master of Marketing Management program are geared for this purpose. Successful graduates of this program can be an inspirational source of change and success for marketing and advertising as they gain a sound grasp of the principles of marketing and consumer behavior.

Master of Marketing Management is a complete program structured to thrash all areas required for the vivid conception of marketing and advertising which are core areas of business. At SPA, the detailed aspects of business studies with the core subjects of marketing and advertising procures a team of highly skilled people aware of even the minute details of marketing and capable of launching modern techniques with frequent use of new concepts and technology. The progressive approach of SPA sets a solid platform for the participants to become independent learners by recurrent analysis of marketing, advertising and promotion. Therefore, graduates of the program find themselves at ease as exposure about the practical situations in the different fields of marketing makes them willing to accept challenges with eager anticipation. The use of modern technology and teaching aids nurtures talent and trains participants by developing insight that turns tough trials of reality into a pleasant learning experience.

Program Objectives

The program has been structured to envisage random changes in the field of marketing and advertising, and gives complete awareness about:

- Formulating a marketing plan including marketing objectives, marketing mix, strategies, budgetary considerations, and evaluation criteria.
- Developing pricing strategies which take into account perceived value, competitive pressures, and corporate objectives.
- Determining strategies for developing new products and services that are consistent with evolving market needs.
- Communicating marketing information persuasively and accurately in oral, written, and graphic formats.
- Evaluating the viability of marketing a product or service in an international market or markets.
- Developing strategies to establish working relationships with clients, customers, and consumers which maintain and strengthen their loyalty to the organization.

Foundation Courses

- Management of Organization
- Management Application of ICT
- Statistical and Economic Analysis in Management Decision
- Communication for Managers
- Financial Accounting Analysis
- Marketing Management
- Entrepreneurship and Managing SMEs
- Building Sustained Competitive Advantage

Core Courses

- Marketing Planning Process
- Delivering Customer Value through Marketing
- Marketing Research

- Managing Marketing
- Strategic Distribution Network
- Advertising and Integrated Media
- Strategic Brand Management
- Services Marketing

Applied Courses

- Retailing and Merchandising
- Project Management in Marketing
- Export and International Marketing
- Customer Relationship Management

Projects: Two System Synthesis Project

Career Opportunities

Graduates of the program will find prominent roles in different institutions that are directly or indirectly attached with aspects of sales and marketing. This program is specifically tailored for business sectors that rely heavily on sales and marketing strategies and equips them for evolving the best sales and marketing teams in view of financial dynamics and challenges. The successful completion of this program would lead participants to dynamic careers in the public and private sector as brand managers/executives, marketing managers, sales managers, and executives in financial institutions and limited companies.

Master of Sales Management (MSMgt)

Rationale

The Master of Sales Management is a unique program designed to develop professionals to handle the complex and difficult job of sales. As the number of commercial organizations and their products are increasing day by day, the pressure on sales people is mounting as well. In these turbulent times, sales do not just require disposing off the products; rather it involves more technicalities and sound market and people knowledge in order to pursue long term profitability and success of the organizations. Selling is now a full-fledged distinguished discipline which takes steering positions in organizational success. That is why growing organizations are now paying much attention to the qualifications and training of their sales people. This master degree has been designed keeping in view the sales training related needs of commercial organizations. It promises highly efficient and skilled sales executives capable of analyzing and handling most complex selling situations and lead the success of the organization in competition.

Program Objectives

This unique program is the first of its kind in Pakistan and UMT takes pride in offering this market driven degree. The program has the sole objective of catering for the ever expanding needs of commercial organizations that are involved in consumer and industrial selling. The program focuses on inculcating advanced selling skills, sales planning, sales analysis and feedback system and e-selling. The graduates of this program will be capable of executing large scale sales projects locally and internationally.

Foundation Courses

- Management of Organizations
- Management Application of ICT
- Statistical and Quantitative Methods
- Communication for Managers
- Financial Accounting Analysis
- Entrepreneurship and Managing SMEs
- Marketing Management
- Building sustained Comparative Advantage

Core Courses

- Sales Management Concepts
- Legal, Ethical and Social Values in Sales
- Dynamics of Industrial Selling
- Sales Client Account Management
- Sales Promotion Techniques
- Technology Supported Selling
- Negotiation Skills Development Workshop
- Personal Selling and Sales Force Management

Applied Courses

- Neuro-linguistic Programming
- Warehousing and Inventory Management
- Retailing and Merchandising
- Integrating Marketing Skills

Career Opportunities

Graduates of this program will be able to find jobs in pharmaceutical sector, FMCGS, banking sector, event and tourism sector, telecommunication sector and in organizations involved in industrial selling. After completion of the degree, the graduates of this program can apply for the following positions as per their relevant experience:

- National Sales Manager (NSM)
- Area Sales Manager (ASM)
- Territory Sales Manager (TSM)
- Key Accounts Manager
- Industrial Sales Manager
- GM Sales
- GM CRM

Projects: Two System Synthesis Projects

Master of Supply Chain Management (MSCM)

Rationale

Master of Supply Chain Management is a complete program structured to thrash all those areas required for the vivid conception of supply chain management. People at all levels in organizations require broader perspectives combined with the ability and motivation to manage change. Existing management must constantly develop their competencies to manage the supply chain from strategy through implementation to competitive operation. There is also a prime need for the best professionals to provide a fresh, innovative impetus. To support the thriving need, this program provides training and education of a high academic standard that is relevant to modern industry.

Program Objectives

Master of Supply Chain Management is an exceptional program structured to envisage the random changes in the field of supply chain management. The overall learning outcomes of the program are to:

- provide participants with a detailed knowledge of the theory and practice of supply chain management;
- develop graduate-level staff from all functions to initiate and manage multi-discipline teamwork aimed at radical improvements in supply chain capability; and
- prepare graduates of all disciplines for upward job mobility and provide personal development opportunities for staff parallel with meeting their job requirements.

Foundation Courses

- Management of Organizations
- Management Application of ICT
- Statistical Methods for Management Decisions
- Communication for Managers
- Financial Accounting Analysis
- Entrepreneurship and Managing SMEs
- Marketing Management
- Building Sustained Competitive Advantages

Core Courses

- Financial Management in Supply Chain
- Managing Supply Chain
- Research Methodology
- IT applications in Supply Chain
- Data Modeling and Decision Making
- Total Quality in Supply Chain

- Inventory Control and Production Systems
- Operations Management

Applied Courses

- Contracts Management
- Retailing and Merchandising
- Distribution Management
- Enterprise Resource Planning

Projects: Two System Synthesis Projects

Career Opportunities

Master of Supply Chain Management provides the solution to those who want to link up offer and demand for services. Graduates from the SCM concentration receive the necessary theoretical as well as methodological foundation that is needed to solve the manifold supply chain problems. This includes a set of socio-economic theories which are necessary to understand the supply chain as a set of institutional collaborations as well as quantitative and qualitative methods for working out specific management problems.

Graduates are able to analyze the competitiveness of a firm seen from a network's point of view and are capable of analyzing the design of logistics structures. They also become proficient in generating SCM strategies including the establishment of partnership arrangements with customers and suppliers. They are able to work in supply chain management as:

- Supply Chain Analysts and Consultants
- Area Managers in Logistics and Transportation
- Heads of Logistics and Planning Departments
- Business and Infrastructure Development Managers
- Sales Representatives in the Key Sales Channels
- Operation Managers – Import/Export Departments
- Senior Supply Chain Managers
- Value Chain Management Instructors
- Senior Buyers

- Purchasing Managers
- Plant Managers
- Supply Chain Managers
- Contract Administrators

Master of Transportation Logistics Management (MTLM)

Rationale

In developing countries, problems of infrastructure development in the field of transportation are emerging. As a developing country, Pakistan is facing severe problems in management and administration of transportation. So far, no efforts have been made to inculcate the skills, expertise and abilities aimed at finding solutions to the challenges posed in the management of the transportation system. This program aims to develop the skills to make strategies for countering the problems, challenges and issues in the field of transportation. It incorporates all the transportation methods, i.e., roads, railroads, air traffic and sea traffic. The most important aspect of this program is to look at the rules and regulations governing the transportation system in Pakistan by abiding laws that make possible efficient and effective practices leading to successful transportation logistics system in the country by imparting training in governance aspects.

Program Objectives

The Master of Transportation and Logistics is a specialized program designed to build skills and abilities in the field of logistics. The aim of this program is to enrich the students with the skills and abilities for handling efficient logistics through resourceful transportation. Its basic aim is to train the students in transportation and logistics management by providing analytical knowledge through exercising different models and technique in real life problems and finding the appropriate alternative solutions for these problems.

The program intends to obtain the following objectives:

- Develop skills in the students to assess problems regarding complex transportation, traffic control and logistics planning, especially in Pakistan.
- Enable students to plan for solutions to solve the problems regarding transportation and logistics related issues.
- Build the environment for the application of logistics information system so as to contribute in the modern development, planning, design simulation and analysis of underlining issues in logistics and transportation.
- Classify a planning problem in the sector as strategic, tactical or operational
- Impart thorough knowledge of international transport regulations and practices for efficient logistics system.

- Analyze the transportation problems in Pakistan. There is lack of development and standardization of logistics related regulations in Pakistan. This program will enable students to analyze policy problems in the design and implementation of transportation and logistics policies, and identify complex issues in the field of logistics.
- Enrich students with cost control techniques so as to prevent extra costs in transportation and logistics management.
- Highlight the core problems of transportation in Pakistan, find out the flaws in the management of these transportation modes and address the solution analysis for assessing the right choice of alternative as an appropriate way out.
- Understand and communicate planning-management issues in the sector of transportation logistics.

Foundation Courses

- Management of Organizations
- Management Application of ICT
- Statistical Methods for Management Decisions
- Communication for Managers
- Financial Accounting Analysis
- Entrepreneurship and Managing SMEs
- Marketing Management
- Building Sustained Competitive Advantages

Core Courses

- Introduction to Transportation Logistics
- Managing Supply Chain
- Research Methodology
- Strategic Network Planning in Transportation Logistics
- Operations Management
- Adaptive Planning in Logistics

- Transportation Policy and Regulation
- Railroad Planning and Operations

Applied Courses

- Transportation System and Environment
- Transportation System Planning
- Enterprise Resource Planning
- Economic Analysis of Transportation System

Projects: Two System Synthesis Projects

Career Opportunities

The Master of Transportation and Logistics is a specialized course program to develop graduates in transportation logistics for efficient allocation of resources in transportation and modeling the routes and track that are effective in terms of cost, equity and feasibility. Graduates of this program are able to serve in leading logistics organizations, transportation organizations, and transportation businesses and transport development in Pakistan. In addition to this, graduates of this program may serve in all modes of transportation like road, railways and sea transportation organizations. As such, they have a specific specialized job market in Pakistan. They can serve as:

- Industrial Traffic Managers
- Logistics and Distribution Managers
- Transport/Logistics Managers
- Transportation and Logistics Supervisors
- Logistics Management Consultants
- Logistics Documentation Assistants
- Transport In-charge
- Senior Managers / Regional Manager Transport
- Transportation Supervisors
- Transport Demand Modelers

- Transportation Managers
- Transportation Administrators
- Transport and Logistics Supervisors
- Transportation and Warehouse In-charge

Master of Project Management (MPM)

Rationale

Project management is required in all sectors of the modern economy-industry, the public and private sector, commerce (including e-commerce), business analysis, product development, marketing, human resource management, information technology, engineering and construction. It presents challenges in managing the technical, cultural, political and financial aspects inherent in all ventures. Today, companies are employing project managers increasingly to help improve productivity and cut costs by utilizing their expertise in restructuring current processes to increase efficiency and help the business to grow.

The School of Professional Advancement (SPA) provides training and education in meeting the highest professional standards and relevance through the Master of Project Management program which is a specialist program that aims to develop project management leaders through broad-based training and education. The program provides a thorough understanding of the key elements of project management such as decision- making, risk and value management, financial management, project economics, procurement and business strategies, law and project information systems, project management and people management. Knowledge of these key areas is developed within the context of different project environments and the importance of people and project teams in achieving success. The program helps the participants to develop a set of specialist skills in theory, research and methods of critical evaluation.

Program Objectives

The program presents a unique opportunity to combine a broad knowledge of business and management principles with specific knowledge of working out and evolving project-based strategies. The program prepares participants to:

- have a detailed knowledge of the theory and practice of project management;
- write project definitions, its requirements, associated risks and other specifications, identify possible problems, quality requirements and decision- making criteria;
- generate ideas in order to solve problems, and seek expert advice including outsourcing;
- plan and control all project activities and resources;

- communicate and work effectively along with different levels of organizations;
- evaluate complex situations, draw upon concepts and ideas and act decisively; and
- make appropriate judgments where data is partial or lacking.

Foundation Courses

- Management of Organization
- Management Application of ICT
- Statistical and Economic Analysis in Management Decision
- Communication for Managers
- Financial Accounting Analysis
- Marketing Management
- Entrepreneurship and Managing SMEs
- Building Sustained Competitive Advantage

Core Courses

- Operations Management
- Project Costing and Reporting
- Project Bidding and Negotiation
- Project Management
- Project Planning and Control
- Project Evaluation
- Project Risk Management
- Total Quality Management

Applied Courses

- IT Applications in Project Management
- Construction Project Management
- Enterprise Resource Planning (ERP)
- International Project Management

Projects: Two System Synthesis Projects

Career Opportunities

Successful participants are able to operate with increased authority within their areas of core expertise, manage others in a team environment, and obtain promotions within or outside their organization of employment. Opportunities in the field of project management abound in industry and the corporate sector as high competition calls for increased productivity and efficient management of organizational processes. The successful graduates of the program are able to secure employment as project managers, project planners, managing consultants, business project managers, project controllers, project coordinators, business analysts, client service managers, technical project managers and project analysts.

Master of Real Estate and Urban Planning (MRE&UM)

Rationale

As the economy of Pakistan evolves from an agricultural base to industry and the services sector, towns and cities are increasingly assuming the role of engines of economic growth and social change in the country. This provides a perfect opportunity to launch an impressive program of Real Estate and Urban Planning for real estate professionals, urban developers and fresh graduates who want to enter this profitably enriched field of real estate development.

The Real Estate and Urban Planning Program brings future industry leaders together with real estate practitioners to examine our country's current scenarios, best practices, and alternative ways to add value in real estate projects and better position of different firms for short-term stability and long-term growth.

Program Objective

This program develops real estate professionals in a comprehensive manner, equipping them with precise skills that will develop them along the following lines:

- Management of housing constructions, commercial offices, retail and industrial set-ups, and large infrastructural projects such as roads, bridges, dams, etc.

- Develop stronger relations, manage productive brokerage services and become smart property consultants, dealers, property managers, etc.
- Develop precise intellectual and practical knowledge in managing real estate finances and mortgage banks, real estate investment trust (REITs) to counter poor management of financial services in the real estate sector.
- Manage and evaluate different operations, architects' designs and develop effective and profitable urban plans, etc.
- Develop negotiation skills for better outcomes when the facts and dynamics of the real estate or urban plans are unfavorable on the basis of the communication and management course in the program.
- Learn techniques to reposition the physical aspects of buildings and developments to maximize long-term value of the project.
- Learn to analyze and anticipate commercial demand through the lens of tenant companies' and future space needs of the country.
- Select consultants for planning, design and construction supervision of various projects.
- Create and manage procurement of works.
- Learn to monitor the physical and financial progress of projects though especially created in-house project management.
- Market projects through outsourcing to specialized firms.
- Maintain and manage real estate portfolio.

Foundation Courses

- Management of Organization
- Management Application of ICT
- Statistical and Economic Analysis in Management Decision
- Communication for Managers
- Financial Accounting Analysis
- Building Sustained Competitive Advantage
- Marketing Management
- Entrepreneurship and Managing SMEs

Core Courses

- Principles of Real Estate and Urban Planning
- Research Methodologies in Real Estate and Urban Context
- Regulatory Frame Work and Documentations
- Project Construction Management
- Building Architecture and Urbanization I
- Building Architecture and Urbanization II
- Land Development and Utilization
- Urbanization and Environmental Sustainability

Applied Courses

- Project Financing and Investments
- Pro Poor Housing Development
- Demographic and Real Estate Trends
- Emerging Trends in Real Estate

Projects: Two System Synthesis Projects

Career Opportunities

The intellectual framework of the Real Estate and Urban Planning program is partially designed in accordance with the needs of the Planning Commission which is assigned the task of productive, effective and efficient planning of urban development in the country by the Government of Pakistan. A task force on urban development was constituted in June 2010 by the Planning Commission to review the prevailing conditions and establish principles that provide sound underpinning for a consensus national urban policy. By framing some of our courses in accordance with the requirements of the Planning Commission and the rest with best real estate practice around the world, program graduates will be the first-rated choice of different government bodies such as:

- Ministry of Planning and Development
- Ministry of Tourism

- Ministry of Privatization
- Ministry of Housing and Works
- Ministry of Commerce

Our program graduate will possess the exact knowledge and set of skills that will be required by these government sectors and other private real estate contractors and builder in the following sectors:

- Major Commercial Sector
- Major Buildings and Construction Sector
- Major Residential Areas developers
- Industrial Sectors
- Major Developments and Investment Opportunities Sector
- Major Landmarks and Attractions

Master of Banking and Finance (MBF)

Rationale

Currently the banking and finance sector in Pakistan is facing unprecedented transformation towards modernization, liberalization, innovation and integration with the global financial markets. The challenges for the banking sector have become ever more complex and convoluted and demand mentally sound and inquisitive human capital. There is an increasing demand for highly specialized executives capable of understanding the complexities that govern the financial sector. The Master of Banking and Finance (MBF) presents a unique opportunity to undertake specialized postgraduate studies in the areas of banking and finance.

Program Objectives

The MBF program is designed to develop advanced skills and knowledge base required for the contemporary banking and financial world. The program presents an excellent blend of theory and practical version of banking, finance and economics. It provides extensive knowledge of Pakistani financial institutions and markets, and the participants can fully comprehend the complexity, uncertainty and risks of the financial market. The program also emphasizes the development of analytical skills through case studies and regular project work relevant to the needs of a dynamic financial market. The participants are equipped to meet the challenges of the private and public sector organizations' financial functions. The participants are facilitated to acquire internships in reputed organizations to gain practical experience. The courses are structured to enable participants to attain JAIBP Diploma alongside completion of the MBF program for their job assurance and career growth.

Foundation Courses

- Management of Organizations
- Management Application of ICT
- Statistical Methods for Management Decisions
- Communication for Managers
- Financial Accounting Analysis
- Entrepreneurship and Managing SMEs
- Marketing Management
- Building Sustained Competitive Advantage

Core Courses

- Economics Analysis and Business Decisions
- Cost and Management Accounting
- Business Research
- Analysis of Financial Statements
- Financial Management
- Macro Economics and Monetary Policy
- International Trade and FOREX
- Corporate Finance

Applied Courses

- Financial Risk Management
- Investment and Portfolio Management
- Branch Operations and Credit Management
- Banking Law and Corporate Regulatory Framework

Projects: Two System Synthesis Projects

Career Opportunities

Successful graduates of this program can find placements in public and private organizations' financial functions, banks, insurance and leasing companies. They can also be employed as teachers, trainers, financial analysts and consultants in the educational and consultancy sectors.

Master of Agribusiness (MAB)

Rationale

Pakistan is a major producer of several key agricultural commodities but the agricultural sector continues to suffer from poor agricultural output, inadequate market infrastructure and policy reforms. However, modern methods of cultivation are now being employed to cater for the demands of exponentially increasing population. In view of the emerging competitive agribusiness market, UMT is focusing on future needs of the agribusiness sector by preparing agribusiness professionals with the capacity, vision and insight to develop the field in line with the contemporary and future demands and market-focus. The Master of Agribusiness presents a unique opportunity to prepare professionals who have the abilities to manage agribusiness, assimilate changes occurring in the sector and strengthen the natural comparative advantage in Pakistan.

Program Objectives

The need for launching a Master of Agribusiness is evident from the demographic, geographic and climactic challenges of Pakistan. This program will help to produce new generation of agricultural executives who will have the capacity to change the business landscape of agriculture.

Foundation Courses

- Management of Organizations
- Management Application of ICT
- Statistical Methods for Management Decisions
- Communication for Managers
- Financial Accounting Analysis
- Entrepreneurship and Managing SMEs
- Marketing Management
- Building Sustained Comparative Advantage

Core Courses

- Economics Analysis and Business Decisions
- Agri Supply Chain Management
- Agricultural Economics
- Food Processing, Preservation and Packaging
- Agricultural Commodities and Future Markets
- Business Research
- Development Economics
- Export Markets and International Trade

Specialization

Livestock and Dairy Management

- Livestock and Dairy Management
- Meat Processing and Hygienic Standards
- Animal Health and Welfare Standards
- International Standards and Compliance for Agri Products

Farm Management

- Farm Management and Operations
- Farm Production Planning
- International Standards and Compliance for Agri Products
- Livestock and Dairy Management

Career Opportunities

The Agribusiness Master program entails rich employment opportunities in MNCs as well as in local agricultural related SMEs. Depending upon the specialization of the students, they may join any agribusiness firm or start their own business. At the core of agribusiness jobs are those that are directly associated with agricultural production and marketing. Jobs in agri-farming also present a big opportunity along with consulting positions in the sector at national and international levels.

Master of Computer Science (MCS)

Rationale

The Master of Computer Science program seeks to prepare the participants in applying the latest computer technology to the real world business organizations. The program prepares participants with an in-depth understanding of core and advanced topics in computer sciences and trains them to use the latest tools to represent, model and solve real world business problems. The curriculum provides a solid foundation and training for practicing computational scientists, computer specialists or software engineers in business, industry or government. The program also offers applied algorithms and data structures, artificial intelligence and intelligent systems, cognitive modeling, computer graphics, computer science education, computer vision, distributed systems, high performance computing, human-computer interaction, networking and security, scientific computation and software engineering.

Program Objectives

Graduates of the Master of Computer Science program would be able to:

- Select appropriate numerical computation techniques, operating systems, and programming language for specific development requirements along with identifying constraints
- Apply networking and database development concepts in programming solutions
- Identify appropriate software engineering principles and methods for different development projects
- Apply concepts of compiler design and parallel processing to software development
- Integrate ethical principles into personal practice
- Integrate concepts, tools, and theories to find and formulate problems, think analytically, and recommend technology-based solutions to problem

Foundation Courses

- Fundamentals of Algorithms
- Introduction to Computer Programming
- Database Systems
- Web Programming
- Software Engineering-I
- Technical and Business Report Writing
- Data and File Structure

Core Courses

- Digital Logic Design
- Object Oriented Programming
- Software Engineering-II
- Computer Organization and Assembly
- Advance Object Oriented Programing
- Compiler Constructions
- Theory of Automata
- Operating Systems
- Computer Architecture
- Computer Networks
- Programming Languages Concepts

Applied Courses

- Distributed Database Systems
- Visual Programming
- System Programming
- Artificial Intelligence

Projects: Two System Synthesis Projects

Career Opportunities

Successful completion of this program leads participants to dynamic careers in business organizations in both the public as well as private sectors as software solution consultants, software engineers, network solution consultants, network engineers, programmers and system administrators.

Master of Information and Communication Technology (MICT)

Rationale

The fundamental educational objective of MICT is to provide broad technical understanding of latest and emerging technologies in the field of information technology. Due to rapid worldwide dependency on software application and IT related products, the requirement for trained and experienced IT specialists is in great demand. The program provides a unique edge in the current complex marketplace. The technological understanding and skills presented in the MICT are in high demand throughout the computing industry as society is being transformed by the emergence of highly connected, high speed high capacity networks, and a knowledge-based global e-economy.

Graduates combine IT skills with those of their previous knowledge in a professional application-oriented setting and prepare themselves for the technological challenges and opportunities of the future arising in all fields including banking, telecommunications, defense, commerce, government, health, education and many other areas. Graduates develop the skills in the field of computer programming, software design, database management, networking and information system control and audit; demanded by the cyber space employment market

Program Objectives

Information Technology (IT) in its broadest sense encompasses all aspects of computing technology. IT, as an academic discipline, is concerned with issues related to advocating for users and meeting their needs within an organizational and societal context through the selection, creation, application, integration and administration of computing technologies. Therefore, the challenging field of IT needs creative and knowledgeable professionals committed to do quality work. MICT program aims to provide IT graduates with the skills and knowledge to take on appropriate professional positions in Information Technology upon graduation and grow into leadership positions or pursue research or graduate studies in the field. After the completion of MICT students will be able to:

- Explain and apply appropriate information technologies and employ appropriate methodologies to help an individual or organization achieve its goals and objectives
- Grasps the principles and theories underling applied information technology.
- Manage the information technology resources of an individual or organization
- Anticipate the changing direction of information technology and evaluate and communicate the likely utility of new technologies to an individual or organization
- Apply IT best practices to productivity and competitive advantage.
- Discuss the role of information awareness and literacy in organizational decision making
- Live and work as a contributing, well-rounded member of society.

Foundation Courses

- Management of Organization
- Management Application of ICT
- Statistical and Economic Analysis in Management Decision
- Communication for Managers
- Financial Accounting Analysis
- Marketing Management
- Entrepreneurship and Managing SMEs
- Building Sustained Competitive Advantage

Core Courses

- Management Information Systems
- Web Programming
- Introduction to Computer Programming
- Object Oriented Programming
- System Analysis and Design
- Data and File Structures
- Computer Architecture and Networks
- Database Systems Design

Applied Courses: (Select 4 courses)

- Human Computer Interaction
- Ubiquitous Computing
- Mobile Computing
- Enterprise Resource Planning

Projects: Two System Synthesis Projects

Career Opportunity

Its uniqueness of being domain independent makes this field so special. Its applicability is universal. Graduates of this program have an edge over others that they have enormous job opportunities virtually in every industry.

The program provides an opportunity for the graduates to understand technical, organizational, social and economic issues involved in the management of IT resources that includes an overview of networks, the internet, databases, human factors and software development; There is also an in-depth study of the management of IT, the applications of IT in business and industry and software project management; therefore, graduates will be able to work in any of the above area. Graduates of MICT can acquire the following job titles:

- IT Manager
- Network Engineer
- Network System Administrator
- Programmer
- Applications Engineer
- Database Administrator
- Network System Administrator
- IT Support Manager
- Web Developer
- IT Project Manager
- Business Analyst
- Systems Analyst
- Data Warehouse Analyst
- Data administrator
- Office Automation Specialist
- IT Trainer
- IT Educationist

- IT Consultant
- Business intelligence specialist
- Enterprise content manager

Swinburne IT Diploma

UMT is offering International Diploma in Collaboration with Swinburne University (Australia). This one-year diploma comprises of 12 courses. Successful graduates have an opportunity to pursue higher studies in the field of Information Technology in Australia. If they do not opt to go to Australia, they can enroll themselves in programs of Master of Computer Science or Master of Information and Communication Technology at UMT to complete either of these degrees in one year and get a dual qualification.

Course Titles

- Management Thorough ICT
- Introduction to Programming
- Database Management Systems
- Object Oriented Programming
- System Analysis and Design
- Web Programming
- Management Information System
- Software Engineering
- Strategic Information Technology
- E-Commerce
- Software Project Management
- Enterprise Recourse Planning

CIM Chartered Diplomas

By gaining a CIM qualification, you demonstrate that you have achieved the internationally recognized professional standard for marketers. The syllabus content for all qualifications has been developed in cooperation with employers who have highlighted the specific knowledge and skills they require from their marketing professionals. That means that by undertaking a CIM marketing qualification, you can develop best practice, boosting your confidence and helping to deliver greater return on investment for employers.

Accredited Study Centre of CIM In Pakistan

The University of Management and Technology (UMT) and the School of Professional Advancement (SPA) have been accredited by The Chartered Institute of Marketing, UK, to deliver diplomas and certification in marketing. Accreditation means that each centre has been quality-audited and approved to teach CIM qualifications and that tutors have access to essential teaching resources and information. CIM Accredited Study Centres ensure that you are booked onto the correct level of qualification. The CIM global network means that you can choose from around 300 Accredited Study Centres, which have all been quality-audited and approved.

Why study at SPA?

Our taught Chartered Institute of Marketing (CIM) programmes are delivered face-to-face by experienced practitioners in our purpose designed campus, with a wide range of study modes for complete flexibility. As one of the leading professional education providers in Pakistan, SPA equips you with the best possible tools for success – whatever stage of your career you are at.

Professional Certificate in Marketing

The Professional Certificate in Marketing is for those in tactical marketing positions who are looking to progress, and gives in-depth knowledge of everything from understanding customers and collecting and analysing data.

The Professional Certificate in Marketing gives you the practical skills and knowledge to devise and execute marketing activities and gain marketing credibility. It also aims to provide a practical insight into the principles and application of marketing at a tactical level. The syllabus has been updated recently to reflect the changing issues and practices within marketing and to Professional Certificate in Marketing (Level 4) reflect employers' views of marketing in today's business environment. The Professional Certificate in Marketing is ideal for Junior Marketers, those working in marketing support roles (like marketing assistants); or if marketing plays some part in your current job description.

What is it?

This qualification gives you the practical skills and knowledge to devise and execute tactical marketing activities and gain marketing credibility.

Ideal for...

Junior marketers, those working in marketing support roles (like marketing assistants); or if marketing plays some part in your current job description.

What will you learn?

By the end of this qualification you should be able to:

- Understand the function and fundamentals of marketing in some depth.
- Know the many different ways of understanding and communicating with customers, and the function these methods serve.
- Understand your organisation's marketing environment, its many constituent parts, and how they work in unison.
- Apply practical knowledge - including the collecting and analysing of data, and the establishment of marketing budgets.

Assessment

Modules are assessed by either a three hour examination or assessment.

Module	Assessment
Marketing Essentials	Examination
Assessing the Marketing Environment	Examination
Marketing Information and Research	Assignment
Stakeholder Marketing	Assignment

Eligibility and Admission Criteria

Applicants must have Bachelor's degree in order to be eligible for admission in Professional Certification and Diploma.

Professional Diploma in Marketing

Marketing is for marketers with operational responsibility and an eye on management. You'll learn how to plan, implement and measure marketing activities at an operational level, and understand the impact of marketing decisions on other functions within the business.

This qualification is ideal for marketers who are concerned with managing the marketing process at an operational level, as well as those who are looking to build on the knowledge gained at Professional Certificate level with a future marketing management role in mind. The content of the course has been put together following consultation with employers to ensure that they gain relevant competencies for various stages of their marketing career. The focus moves from the theoretical aspects of marketing towards the many skills needed to manage the function itself – including elements ranging from channel management to communications, along with specialist areas like new product development.

The Professional Diploma in Marketing is ideal for Marketers with operational, supervisory or management responsibilities and an eye on management – including department managers, functional managers, product/brand managers, account managers, agency managers, marketing executives and business development managers.

What is it?

This qualification provides the knowledge, skills and 'ability to do' in relation to marketing planning and develops the 'marketing professional' across a range of areas. The qualification is a hybrid of marketing with a considerable emphasis on management as marketers move from specialist aspects of marketing into either a functional or departmental role.

Ideal for?

Marketers with operational, supervisory or management responsibilities and an eye on management – including department managers, functional managers, product/brand managers, account managers, agency managers, marketing executives and business development managers.

What will you learn?

By the end of this qualification you should be able to:

- Evaluate the role of the marketing planning process and implementation in a range of marketing contexts including organisational strategy, culture and the broader marketing environment.
- Develop and manage a brand and product portfolio in the context of the organisation's marketing strategies and objectives.

- Recommend how a marketing function should be structured to deliver competitive advantage, marketing and organisational success.
- Identify the organisation's information needs, scope of research projects and resource capability to underpin the development of a business case to support marketing projects.

Assessment

Modules are assessed by either a three hour examination or assessment

Module	Assessment
Marketing Planning Process	Assignment
Delivering Customer Value through Marketing	Examination
Managing Marketing	Assignment
Project Management in Marketing	Assignment

Eligibility and Admission Criteria

Applicants must have Bachelor's degree in order to be eligible for admission in Professional Certification and Diploma.

CAM Diploma in Digital Marketing

The Diploma in Digital Marketing gives you essential knowledge, the buzz words and the main trends of the online marketing arena.

This dynamic qualification provides the knowledge underpinning the principles of digital marketing and skills to undertake digital marketing planning. The qualification covers Search Engine Optimization (SEO), types of online advertising, email marketing, viral marketing, online PR, affiliate marketing and social media. It also looks at digital metrics, legislation, regulation and codes of practice.

You will have the opportunity to gain skills and knowledge to understand the fundamental planning concepts for an online organization as well as key factors in implementation, measurement and evaluation of successful campaigns. Digital marketing has evolved from a peripheral element of organizational marketing to one which is at the hub of customer-centric communications in an increasingly.

CAM Diploma in Digital Marketing (Level 4) multi-channel environment. Our qualifications ensure that you are equipped to deal with this shift and make the most of new business opportunities. The Diploma in Digital Marketing is ideal for those working in marketing who want to ensure that they maximise opportunities in digital marketing.

What is it?

The CAM Diploma in Marketing Communications will give you an in-depth understanding of the range of communication methods you can use to meet business objectives – from marketing, advertising and public relations to direct marketing and sales promotion.

Ideal for?

Anyone currently working in, or aiming to work in, marketing communications or digital marketing (including both client and agency side marketing roles). You could also progress from this qualification by taking two units from the CAM Diploma in Digital Marketing or CAM Diploma in Managing Digital Media or two units from the Diploma in Hospitality and Tourism Marketing to gain these diplomas in specialist areas of marketing.

What will you learn?

By the end of this qualification you should be able to:

- Develop marketing communications and brand support activities based on your understanding of market and consumer behaviour.
- Demonstrate the skills needed to devise, execute and analyse a PR plan.
- Explain the roles of direct marketing and sales promotion, as well as manage and maintain a marketing database.
- Demonstrate good all-round knowledge of the advertising industry, and how good advertising is applied in practice.
- Understand the role of all media(including digital) in effective marketing.

Assessment

Modules are assessed by either a three hour examination or assessment

Module	Assessment
Digital Marketing Essentials	Assignment
Digital Marketing Planning	Assignment
Marketing and Consumer Behaviour	Assignment

Eligibility and Admission Criteria

Applicants must have Bachelor's degree in order to be eligible for admission in Professional Certification and Diploma.

CAM Diploma in Marketing Communications

The Diploma in Marketing Communications gives you an in-depth understanding of the range of communication methods you can use to meet business objectives – from marketing, advertising and public relations to direct marketing and sales promotion.

The CAM Diploma bridges the gap between the academic and the practical. As one student remarked, "The course is immediately relevant to my work the next day in the office!" CAM is kept up-to-date by leading communication experts and the majority of tutors are practitioners in the industry. It is flexible and relevant, making it eminently suitable for anyone's continuing professional development.

The Diploma in Marketing Communications is ideal for anyone currently working in, or aiming to work in, marketing communications or digital marketing (including both client and agency side marketing roles).

What is it?

The CAM Diploma in Marketing Communications will give you an in-depth understanding of the range of communication methods you can use to meet business objectives – from marketing, advertising and public relations to direct marketing and sales promotion.

Ideal for?

Anyone currently working in, or aiming to work in, marketing communications or digital marketing (including both client and agency side marketing roles). You could also progress from this qualification by taking two units from the CAM Diploma in Digital Marketing or CAM Diploma in Managing Digital Media or two units from the Diploma in Hospitality and Tourism Marketing to gain these diplomas in specialist areas of marketing.

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- Explain the roles of direct marketing and sales promotion, as well as manage and maintain a marketing database.
- Demonstrate good all-round knowledge of the advertising industry, and how good advertising is applied in practice.
- Understand the role of all media(including digital) in effective marketing.

Assessment

Modules are assessed by either a three hour examination or assessment

Module	Assessment
Marketing and Consumer Behaviour	Assignment
Public Relations	Examination
Direct Marketing and Sales Promotion	Examination
Advertising	Examination
Integrated Media	Assignment

Eligibility and Admission Criteria

Applicants must have Bachelor's degree in order to be eligible for admission in Professional Certification and Diploma.

CAM Diploma in Managing Digital Media

CAM Diploma in Managing Digital Media (Level 4) The Diploma in Managing Digital Media is all about putting digital marketing into practice. Doing the work, running the digital campaigns and what you need to be aware of. This qualification also looks at the fast changing landscape of social media and emerging trends.

Media planning has become increasingly difficult in recent years. There has been an explosion of the ways in which consumers are contacted both digitally and through conventional media such as print, radio and television. Convergence of media creates new problems and opportunities for brands.

This new and exciting qualification looks at digital channels and their suitability for inclusion in a media plan. Search Engine Optimization (SEO), display advertising, email marketing, viral marketing, online PR, affiliate marketing and social media are all explored in detail. It also looks at digital metrics and related legislation, regulation and codes of practice. This diploma provides invaluable knowledge and skills to manage digital marketing and communications campaigns.

What is it?

The Diploma in Managing Digital Media is all about putting digital marketing into practice. Doing the work, running the digital campaigns and what you need to be aware of. This qualification also looks at the fast changing landscape of social media and emerging trends.

Ideal for?

People whose role might involve working with digital media and implementing strategies that involve digital media. You can also progress from this qualification to the CAM Diploma in Marketing Communications and you are exempt from Public Relations and Advertising units.

What will you learn?

By the end of this qualification you should be able to:

- Explain the changes that have been brought about by the advances in digital communication techniques.
- Explain contemporary digital concepts and identify how these changes challenge and compliment the conventional forms of communication.
- Apply the tools available to measure the effectiveness of digital campaigns and recommend appropriate methods to a given situation.
- Plan and execute digital campaigns.
- Evaluate the likely developments in the sphere of digital communications.
- Evaluate the importance of integrating diverse media in communications.
- Discuss the new role of social media and networks in communication.
- Evaluate the role of key performance indicators in integrated marketing communications.

Assessment

Modules are assessed by either a three hour examination or assessment.

Module	Assessment
Integrating Digital Media and Branding	Assignment
Implementing Digital Campaigns	Assignment
Advertising	Examination
Public Relations	Examination

Eligibility and Admission Criteria

Applicants must have Bachelor's degree in order to be eligible for admission in Professional Certification and Diploma.

Team of SPA

Dr Naveed Yazdani
Director SPA
MBBS, King Edward Medical College (Pakistan)
MBA, Lahore University of Management Sciences (Pakistan)
MS, University of Management and Technology (Pakistan)

Farah Naz
Assistant Professor
MPhil, University of Management and Technology (Pakistan)

Khalil Arbi
Assistant Professor
MSc, R.F. Wilhelms University of Bonn (Germany)

Khurram Khan
Asst. Professor
MS, University of Management and Technology (Pakistan)

Syed Ali Hussain Bukhari
Program Coordinator
MBA, University of Management and Technology (Pakistan)

Nauman Bin Arif
Program Coordinator
MBA, University of Management and Technology (Pakistan)

Zakee Saadat, Program Coordinator
MSc, Government and Public Policy, National Defence University, Islamabad

Shahid Hussain
Assistant Manager Academics
MBA, University of Management and Technology (Pakistan)

Atiya Bashir, Assistant Manager Coordination
MA Economics, Bahauddin Zakariya University, Multan

Amir Aslam, Office Assistant

Umar/ Bashir, Support Staff

School of Textile and Design

Message from the Director

Saying of the Prophet Muhammad (SAW)

“He who goes out in search of knowledge is in Allah's path till he returns.” Tirmidhi, Darimi

Welcome to the School of Textile and Design (STD) at the University of Management and Technology (UMT), Lahore. We are privileged to be the oldest textile teaching institute in Lahore, with experienced, qualified and competent faculty.

Pakistan is one of the largest producers of cotton in the world. Lahore is situated in the center of the textile industry and raw material producing areas. The emergence of technical textiles has led to stronger bonds of the textile industry with a wide range of other industries such as agriculture, medical, industrial, sports, civil, etc. Pakistan needs a large number of skillful, competent and talented youth for value-addition. Effective resource management calls for expertise in textile, essential for value-addition in the industrial products. As such, textile industry is always on the lookout for qualified and competent young graduates so that the industry may tremendously benefit from advancements in technology and management.

The concept of Islamic fashion and design in textiles and other fields is being imparted in the degrees/ programs of our textile, fashion and design programs. We offer degrees in these areas while focusing on multidimensional skills to be imparted in our participants.

UMT-STD has established close linkages with the public and private sector organizations involved in the development of textile and related industries. This adds to the exposure of the faculty and participants who keep pace with the latest developments in the industry and can play their role in defining and shaping the industry. UMT-STD has more than 1000 alumni, acknowledged and respected in their professional domains. A large number of our graduates pursued MSc and PhD degrees from countries across the world such as UK, USA, Germany, Sweden, etc. Currently, STD is offering four undergraduate and graduate programs with both conventional and novel specializations in the fields of textile, textile technology and management, technical textiles, fashion design, textile design, fine arts and many more. Besides the range of specializations, the focus on research and development, practical skills, personality development, leadership and entrepreneurial skills make the programs all the more worthwhile.

I am confident that your stay at STD will be a rewarding learning experience that will prepare you for challenging careers in the industry and the international market.

Nabeel Amin, PhD

School of Textile and Design (STD)

The School of Textile and Design (STD) at the University of Management and Technology (UMT) offers programs in BS (Hons) Textiles, Textile Technology and Management, and Textile Fashion and Design. The faculty members provide an educational experience that is equivalent to that offered by leading international universities.

The curriculum for each program has its own distinct features. However, common threads of design and problem solving have been woven into the fabric of the curricula to ensure that each participant receives the very best education tailored to the needs of the industry and academia. The programs offered by STD are aimed at preparing graduates for regional as well as global practice. The degree programs emphasize learning the effective use of technology, information resources and communication methods, as well as inculcate in them leadership qualities anchored in ethical and moral principles.

The graduates of STD may work in an international environment. Therefore, class instructions and interaction between students and faculty members are conducted in English to ensure that graduates possess written and spoken fluency in English. This is accomplished foremost in the required laboratory work, term reports, senior design projects and internships. The programs are designed to satisfy the general university requirements. They also meet the criteria adopted by the Higher Education Commission (HEC) of Pakistan.

Vision

To be a leading, well recognized institute, focusing on cultural values along with upcoming universal challenges in technological and industrial world, and emphasizing upon applied research and global integration.

Mission

To incorporate sustainable technology and research in every aspect of the educational and industrial processes by encouraging innovation, entrepreneurship, competitiveness, transformation and lifelong learning in order to make a major impact upon global economy through our outstanding graduates, scholars and stakeholders, and disseminate real time knowledge.

Preamble

Educational institutes in Pakistan and all over the globe are facing some common challenges. It has now become essential for all the education exporting sectors to make their stakeholders partners in their journey towards success. The common challenges faced today by educational institutes can be summed up as follows:

Removing Boundaries

Colleges and universities are facing the challenge of removing boundaries between higher education institutions and their external publics while at the same time protecting the fundamental values and traditions associated with free academic inquiry, independence of thought, and rights and responsibilities of the faculty.

Establishing Interdisciplinary Programs

Researchers call for institutions to promote better linkages between disciplines and for academic departments to reformat and recognize courses, programs, and structures to respond to increasingly sophisticated and market-knowledgeable students. As individual learning becomes more connected with personal and professional experiences, learning and instruction will need to become increasingly interdisciplinary to mirror and deal with real problems and real issues, which always involve integration of the perspectives of many disciplines and approaches. This trend is amplified by the general learner's desire to know more of the whole of things, not just a specialized discipline.

Supporting Entrepreneurial Efforts and Technology

Even with the power and capacity of currently available communication technologies such as the World Wide Web and the Internet, adapting and integrating these technologies with existing institutional and departmental strategies and initiatives has not been a priority in many institutions. Furthermore, the current infrastructure does not support entrepreneurial activity at the curriculum, department, or unit level. Frequently within this budgeting framework, adding students, using learning technologies, and creating new paths of access simply increase the workload of the new faculty without providing significant new resources to the academic unit.

Redesigning and Personalizing Student Support Services

Institutions need to become more focused on customizing programs to serve students where they exist; physically, economically and academically.

Emphasizing Connected and Lifelong Learning

Institutions are focusing more directly on helping students to develop the skills necessary to be successful in today's economy, which values and rewards the ability to work in teams, to develop creative approaches to problem solving, and to learn constantly. Even though colleges and universities are being pressured to be more responsive to the demand for workforce development and to the training needs of the corporate sector, many industries are finding that their core business practices and production processes are changing so rapidly that their real bottom-line need is for people who are adaptable and who know how to learn to solve problems.

Investing in Technologically Competent Faculty

It is highly desirable for academic institutions to develop full time faculty and staff dedicated to engage a diversity of learners with more complex learning needs. In a world dependent on technology for its communications, economy, and, increasingly, its day to day organization, higher education institutions that are serious about meeting the challenges of technology will invest in faculty members who are experienced in technology and who can model this experience and pass it on to students.

Building Strategic Alliance with Educational and Corporate Institutions

Different higher education institutions have built expanded alliances with each other and with the corporate sector. These alliances are essential business strategies, and all colleges and universities will seek to expand their web of alliances with others in the future.

Incorporating Learning Technologies into Strategic Thinking

The integration of learning technologies with strategic thinking will need broad-based participation by the faculty and staff of the institution in order to be sustained and will also require a significant effort on the part of institutional leaders.

Measuring Program Quality

Educational programs are being measured more and more often based on outcomes that matter to students and employers rather than on inputs that matter to faculty and administrators. Quality is measured with flexibility, responsiveness, timeliness, efficiency, and applicability which become new, important measures of quality. Criteria for institutional accreditation and program quality assessment are changing to reflect more specific measurements of learning.

Achieving Institutional Advantage

There is a big need for organizing programs differently to take advantage of a combination of program strengths. It includes developing the right relationships to shore up weaknesses in programs delivery and service to students, or other areas important for offering high quality programs.

Transforming Bureaucracy, Culture and Assumptions

Academic institutions are discovering that major changes are necessary in order to serve students effectively and to compete aggressively with for-profit institutions in an environment in which the concept of time-to-market for programs is becoming more critical. The processes for achieving transformation have evolved: early efforts in the previous two decades focused on the strategic improvement of quality through the improvement of a variety of administrative and instructional processes, whereas current efforts emphasize the creation of more open, honest, and comprehensive assessments, and the re-creation of vision, mission, culture, strategy, decision-making processes, and outcomes.

For the past 16 years, STD has been overcoming the challenges posed by these gaps. The highly qualified, experienced and dedicated team, despite its limited resources, has been able to transform its graduates into successful professionals. It has been achieving six strategic goals to fulfill its mission. Every effort of any organization is geared to satisfy its customers through ensuring quality and better service; therefore, strategic goals are designed according to the stakeholders' needs.

Our stakeholders and partners, who are our ultimate internal and external customers, include STD staff, participants, alumni, industry, corporate sector, academic institutes, public organizations, parents, general society, and external sponsors and partners.

Strategic Goals

STD has devised strategic goals based on six themes and tactical approaches to satisfy all its partners and stakeholders. These comprise of the following:

- Create an educational culture composed of a community of learners where each individual believes that he/she can learn anything, anytime and anywhere, i.e., learners who can think critically, be creative and strive for excellence in life time learning.
- Strive for enhancement of faculty members' abilities to set a benchmark in instructional technologies, and train them to transform graduates into professionals.
- Build a learning environment for faculty, staff and the participants; a culture, where creativity and effectiveness are promoted and encouraged through full support in terms of research and development of infrastructure; an environment where everyone is valued, and ownership and initiative are taken for the quality of students.
- Deliver an exceptional student experience centered on inspirational learning and teaching.
- Increase revenues for STD to acquire its global value image.
- Develop and strengthen productive partnerships and industrial linkages for STD.

STD Success Story

The 16-year history of STD is replete with tremendous achievements in imparting education in the areas of textile and industrial sciences. It has been serving the corporate world by incubating young talent into excellent professionals through effective pedagogy in academics, developing and sustaining research culture and corporate relations.

Academic Achievements

A quick overview of academic achievements of STD reveals that it has the honor to be one of the leading institutes of the country. The chronology of programs represents the success story of STD.

- 1992: Initiated Textile Diploma Courses
- 1997: Started Bachelor of Textile Technology and Management (BTTM) -3 year program
- 2000: Started BS in Textile Technology (3-year program)
- 2003: Started BS Textile Technology (4-year program)
- 2005: Textile Engineering (as per PEC and HEC Guidelines)
- 2005: MS and PhD Textile Chemistry
- 2006: Redesigned BTTM as 4-year program
- 2008: Started Bachelor of Textile Engineering (as per HEC and PEC guidelines)
- 2008: Started Bachelor of Textile Fashion and Design
- 2009: Redesigned BTTM with 4 different specializations
- 2009: Redesigned BS Textile Engineering with 6 technical specializations
- 2009: Redesigned MS Textiles with 5 specializations

195+ enrollments in Textile, Industrial, and Textile Design Programs

1000+ Alumni of STD

- Tailored short courses for industry

Promoting Research Culture through International Conferences

STD has played a significant role in promoting research culture in order to explore talent and encourage innovation from people all over the world. It provides a platform for exchange of ideas by conducting international conferences in which experts contribute and share both knowledge and expertise in relevant areas. All these conferences were well received in Pakistani and international industry and media.

1st International Conference on Textile and Clothing (ICTC-2006)

- Theme: Productivity and Innovation
- First ever two-day research conference on textiles in Pakistan
- Top notch delegates from 13 different countries including Hong Kong, India, Iran, Czech Republic, United Kingdom, Germany and Sri Lanka participated

2nd International Conference on Textile and Clothing (ICTC-2009)

- Theme: Technical Textiles
- Second two-day research conference on textiles in Pakistan
- Top notch delegates from different countries including Iran, Czech Republic, United Kingdom and Germany participated

3rd International Conference on Textile and Clothing (ICTC-2011)

- Theme: Advancement and Management in Textiles
- Helped to bridge the gap and improve interaction between industry and academia through joint ventures of research and development as well as resource mobilization
- Projected true value attached to technical textile as the major source of competition among textile players

Corporate Relations

STD has always been connected with other academic institutions, industry and corporate sector. The objective is to fulfill practical requirements of the field to gain competitive advantage and nurture the students to become worthwhile professionals of the industry. STD is in collaboration with the following international and local organizations.

International Organizations

- Textile Institute, UK
- American Association of Textile Chemists and Colorists (AATCC)
- Society of Dyers and Colorists (SDC)
- Association to Advance Collegiate School of Business (AACSB) International, USA

- European Foundation for Management Development (EFMD), Belgium
- Association of Management Development Institutions in South Asia (AMDISA), India
- Association of Management Development Institutions in Pakistan (AMDIP), Pakistan

Local Organizations

- All Pakistan Textile Mills Association (APTMA)
- Pakistan Council of Scientific and Industrial Research (PCSIR)
- Pakistan Hosiery Manufacturers Association (PHMA)
- Pakistan Readymade Garments Manufacturers & Exporters Association (PREGMEA)
- Technical Education & Vocational Training Authority (TEVTA), Punjab

MoUs

The school has developed MoUs with the following professional bodies:

- National Productivity Organization (NPO)
- Pakistan Industrial Technical Assistance Centre (PITAC)
- College of Visual & Performing Arts (Hunerkada)
- Shahraj Industries
- Shafi Group
- Noon International
- Small and Medium Enterprises Development Authority (SMEDA)
- Pakistan Readymade Garment Technical Training Institute (PRGTTI)
- Pakistan Institute of Fashion and Design (PIFD)
- Lahore Chamber for Commerce and Industries (LCCI)

MoUs in Progress

- Agriculture University Faisalabad
- Punjab University Lahore

Degree Programs offered by STD

Undergraduate Programs

Bachelor of Science (Hons) in Textile (BSTX)

Specializations: Yarn Manufacturing, Fabric Manufacturing (Weaving and Knitting), Textile Chemical Processing, Garments and Apparel Manufacturing, Technical Textiles

Bachelor of Textile Technology and Management (BTTM)

Specializations: Yarn Manufacturing, Fabric Manufacturing (Weaving & Knitting), Textile Chemical Processing, Garments and Apparel Manufacturing, Energy Management and Auditing, Textile Management

Bachelor of Fashion and Design (BFD)

Specializations: Textile Design, Fashion Design, Leather Accessories and Footwear, Interior Design, Product Design

Bachelor of Fine Arts

Specializations: Textile Design, Fashion Design, Leather Accessories and Footwear, Interior Design, Product Design

Graduate Programs

Master of Science in Textiles (MSTX)

Specializations: Textile Technology (Yarn Manufacturing, Fabric Manufacturing ,Weaving and Knitting, Textile Wet Processing, Apparel Manufacturing, Technical and Industrial Textiles), Textile Management

Doctoral Programs

PhD Textile

Laboratory Facilities

Excellent laboratory facilities are available in the School of Textile and Design (STD) to assist the textile students. Laboratories are available for conducting BS level experiments in different areas. Plans are in process for establishing laboratories for postgraduate research work in the very near future. Laboratories are being expanded according to an approved development plan. Presently, the following laboratories are available:

- Circuits Laboratory
- Electronics Laboratory
- Digital Systems Laboratory
- Communication and Signal Processing Laboratory
- Mechanical Wrokshop
- Computing Laboratory
- Chemistry Laboratory
- Mechanics Laboratory
- Physics Laboratory
- Apparel Manufacturing Laboratory
- Dyeing, Finishing, and Printing Laboratory
- Fabric Manufacturing Laboratory
- Knitting and Weaving Laboratory
- Spinning Laboratory
- Textile Engineering Drawing Laboratory
- Textile Testing and Quality Control Laboratory
- Wet Processing Laboratory

Comments from professional bodies

Pakistan Hosiery Manufacturers Association (PHMA)

Colleges and universities come in many shapes and sizes. Every university is not capable of meeting the needs of every student. UMT confers undergraduate and graduate degrees in textiles. The University's approach is ideally suited to the diverse needs of textile students. It offers a wide variety of courses and there is an experienced cadre of full-time faculty who are well connected with the textile industry so there is a great deal of current, practical application in the coursework.

Textile Institute (TI) UK, Lahore Chapter

Based on our close partnership with UMT on organizing international textile conferences, we believe that UMT offers unparalleled quality of education and training in textile related studies. UMT ensures a streamlined process of structured knowledge available to students which improves their learning experience.

All Pakistan Textile Mills Association Pakistan (APTMA)

UMT has put together strong curricula with courses relevant to today's working professionals. Whether you are interested in spinning, weaving, knitting, apparel, dyeing, or finishing, you'll find a program that will give you the education you need to advance your career. Coursework and lectures are presented by experienced faculty members who have first-hand knowledge of the workplace.

Bachelor of Science (Hons) in Textile (BSTX)

Rationale

The main objective of the textile program is to make the textile graduate a creative problem-solver using latest tools of textile to design novel, functional textiles and processes. The emphasis is on process and product development using textile materials. The graduates acquire know-how in traditional textile manufacturing as well as in technical textiles. They are enabled to analyze structure property relationships of textile materials, and develop and characterize novel textiles including woven, knitted and non-woven structures. Graduates gain the ability to pursue post-graduate studies with a strong knowledge gained in the fundamentals of mathematics, physics, chemistry and research skills developed through the project work. The coursework, final project and general studies give graduates the required problem solving skills, critical thinking ability and communication capability for succeeding in their careers.

Learning Outcomes

On completion of the BS Textile (BSTX) program, graduates will:

- have a solid foundation in basic sciences (i.e., physics, mathematics, chemistry) and textile fundamentals, and will be able to apply this knowledge to the solution of practical problems;
- be able to demonstrate the ability to design and develop useful textile-related products, processes, and/or other systems;
- be able to demonstrate the ability to design and conduct experiments, and analyze and interpret data related to problem solving in the areas encompassed by textile;
- be able to work in teams and appreciate the value of diversity in team-based problem solving;
- have commitment to life-long learning, and an ability to adapt to changes and developments in the field of textiles;
- demonstrate integrity and ethics in professional practice and in life;
- demonstrate the ability to communicate effectively; and
- have a broad-based educational background enabling them to pursue careers within or outside of textile field.

Specializations

The following specializations are offered in Bachelor of Science (Hons) in Textiles.

1. Yarn Manufacturing
2. Fabric Manufacturing (Weaving and Knitting)

3. Textile Chemical Processing
4. Garment and Apparel Manufacturing
5. Technical Textiles

Entry Requirements

A-Levels or FSc with Physics, Math and Chemistry with minimum 45% marks is required, besides also having obtained 45% marks in Matric/O-Level.

Note

- DAE Diploma holders in relevant field can also apply if they have 60% or above marks in DAE and Matric respectively.
- If FSc/A Level is done with Biology, then Pre-Math will be compulsory for the student/s.

Test and Interview: All applicants are evaluated on the basis of merit as determined by their previous academic record and performance in the admission test and interview.

Duration: 4 years

Semesters: 8

Credit Hours: 138-141

Specialization (with 141 credit hours)

Yarn Manufacturing, Fabric Manufacturing, Textile Chemical Processing

Specialization (with 138 credit hours)

Garment and Apparel Manufacturing, Technical Textiles, Energy Management and Auditing

Road Map of Bachelor of Science (Hons) in Textiles (BSTX)

First Year

Semester 1

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
EN 101	Grammar and Comprehension	3	-	3	Freshman Standing
CS 141	Programming Fundamentals	2	1	3	Freshman Standing

University of Management and Technology

NS 109	Chemistry for Engineers	3	1	4	Freshman Standing
ME 105	Applied Mechanics	3	1	4	Freshman Standing
MA 100	Calculus-I	3	-	3	Freshman Standing
Total		14	3	17	

Semester 2

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
EN 102	Composition and Communication	3	-	3	EN 101
TX 100	Textile Raw Materials	4	-	4	Freshman Standing
TX 161	Fundamentals of Mechanical Engineering	2	1	3	
NS 115	Chemistry-II/ Applied Physics/ Engineering Economy	2	1	3	NS 105/ NS 109
MA 103	Calculus-II	3	-	3	MA 100
Total		14	2	16	

Second Year

Semester 3

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
EN 201	Research and Presentation	3	-	3	EN 102
TX 213	Introduction to Yarn Manufacturing	3	1	4	TX 100
TX 210	Fiber Science	3	1	4	TX 100
TX 200	Engineering Fundamentals	3	1	4	TX 161
MA 200	Calculus-III	3	-	3	MA 103
Total		15	3	18	

Semester 4

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TX 216	Introduction to Weaving and Knitting	3	1	4	TX 213, TX 210

TX 226	Introduction to Textile Chemical Processing	3	1	4	NS 111, TX 213
HM 150	Islamic Studies	2	-	2	Freshman Standing
TX 224	Introduction to Non-wovens and Technical Textiles	3	1	4	TX 213, TX 210
EE 250	Electrical and Electronic Systems	3	1	4	TX 200
Total		14	4	18	

Third Year Semester 5

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TX 345	Introduction to Garment Manufacturing	3	1	4	TX 216, TX 226
SS 171	Pakistan Studies	2	-	2	Freshman Standing
MG 330	Organizational Behavior	3	-	3	Freshman Standing
TX 300	Mechanics of Fibrous Structures	2	1	3	TX 210, TX 216, TX 226
CS 245	Computer Programming	2	1	3	CS 141
SS yyy	Social Science-I	3	-	3	Freshman Standing
Total		15	3	18	

Semester 6

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
CS 250	Computer Applications in Engineering Design	1	2	3	CS 245
MA 310	Statistical Methods in Textile Engineering	3	-	3	MA 200
TX 328	High-Performance Fibers	3	-	3	TX 300
TX 365	Textile Engineering Utilities and Services	3	-	3	EE 250

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TX yyy	Elective-I*	3	-	3	TX 216,
				TX 226,	
				TX 300	
Total		15	15	15	

Fourth Year Semester 7

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TX 495	Capstone Project-I	1	2	3	Elec.I*, TX 328, TX 365
MG 365	Entrepreneurship	3	-	3	MG330
TX 375	Engineering Management	3	-	3	TX 365
TX yyy	Elective-II*	3/4	-	3/4	Elec.II*, TX 495, TX 375
TX yyy	Elective-III*	3/4	-	3/4	Elec.II*, TX 495, TX 375
TX yyy	Elective-IV*	3/4	-	3/4	Elec.II*, TX 495, TX 375
Total		16/19	2	18/21	

Semester 8

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TX 496	Capstone Project-II	1	2	3	TX 495
TX 490	Professional Practice	3	-	3	EN 210
TX 475	Environmental Issues Related to Textile Industry	2	1	3	TX 375
SS yyy	Social Science-II	3	-	3	SS-I
TX yyy	Elective-V*	3	-	3	Elec.II*, Elec.III*, Elec IV*
TX yyy	Elective-VI*	3	-	3	Elec.II*, Elec.III*, Elec IV*
Total		15	3	18	

**Major Specific Electives
(6 Courses, 18/21 Credit Hours)**

Electives for Specialization in Yarn Manufacturing

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TX 367	Pre-spinning Processes	2	1	3	TX 216, TX 226, TX 300
TX 368	Yarn Production Engineering	3	1	4	TX 367
TX 369	Advanced Spinning Techniques	3	1	4	TX 367
TX 376	Fancy Yarns	3	1	4	TX 367
TX 450	Spinning Calculations	3	-	3	TX 368, TX 369, TX 376
TX 452	Spinning Machinery	3	-	3	TX 368, TX 369, TX 376
Total		17	4	21	

Electives for Specialization in Fabric Manufacturing

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TX 344	Weaving and Knitting Preparatory Processes	2	1	3	TX 216, TX 226, TX 300
TX 364	Weaving and Knitting Mechanisms	3	1	4	TX 344
TX 366	Fabric Design and Structure	3	1	4	TX 344
TX 347	Advanced Weaving and Knitting Techniques	3	1	4	TX 344
TX 348	Weaving and Knitting Calculations	3	-	3	TX 364, TX 366, TX 347
TX 349	Weaving and Knitting Machinery	3	-	3	TX 364, TX 366, TX 347
Total		17	4	21	

Electives for Specialization in Textile Chemical Processing

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TX 332	Pre Treatment of Textiles	2	1	3	TX 216, TX 226, TX 300
TX 331	Textile Dyeing	3	1	4	TX 332
TX 327	Textile Printing	3	1	4	TX 332
TX 326	Textile Finishing	3	1	4	TX 332
TX 334	Color Science	3	-	3	TX 331, TX 327, TX 326
TX 482	Colorants and Their Synthesis	3	-	3	TX 331, TX 327, TX 326
Total		17	4	21	

Electives for Specialization in Garment and Apparel Manufacturing

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TX 358	Anthropometry and Clothing Constructions	2	1	3	TX 216, TX 226, TX 300
TX 354	Sewn Production Engineering	3	1	4	TX 358
TX 363	Clothing Productivity and Quality Management	2	-	2	TX 358
TX 356	Production Planning and Control	3	-	3	TX 358
TX 335	Merchandising	3	-	3	TX 354, TX 363, TX 356
TX 473	Denim Sewing Techniques	3	-	3	TX 354, TX 363, TX 356,
Total		16	2	18	

Electives for specialization in Technical Textiles

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TX 377	Medical Textiles Production and its Application	2	1	3	TX 216, TX 226, TX 300

TX 378	Geo Textiles and Agritech Production and its Application	2	1	3	TX 377
TX 380	Defense Textiles	2	1	3	TX 377
TX 381	Sportech Production and its Application	3	-	3	TX 377
TX 382	High Performance Garments	3	-	3	TX 378, TX 380, TX 381
TX 383	Mobiltech Production and its Application	3	-	3	TX 378, TX 380, TX 381
Total		15	3	18	

Electives for Specialization in Energy Management and Auditing

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TX 372	Boilers and Steam Systems	3	-	3	TX 216, TX 226, TX 300
TX 384	Industrial Furnaces, Refractoriness and Insulation	3	-	3	TX 372
TX 386	Electrical Energy End Use	2	1	3	TX 372
TX 387	Computer Application in Energy Management	2	1	3	TX 372
TX 388	Renewable / New Energy Sources and their Application	3	-	3	TX 384, TX 386, TX 387
TX 389	Energy Technology	3	-	3	TX 384, TX 386, TX 387
Total		16	2	18	

Distribution of Courses

Humanities Courses

1. English-I: Grammar and Comprehension
2. English-II: Composition and Communication
3. English-III: Research and Presentation
4. Humanities-I: Islamic Studies
5. Humanities-II: Pakistan Studies
6. Social Sciences-I: Whichever is offered
7. Social Sciences-II: Whichever is offered

Natural Sciences Courses

1. Math-I: Calculus-I
2. Math-II: Calculus-II
3. Math-III: Calculus-III
4. Physics-I: Mechanics and Wave Motion
5. Chemistry-I: Chemistry for Engineers
6. Chemistry-II / Physics-II / Economy-I: Applied Physics / Chemistry-II / Engineering Economy
7. Computing-I: Programming Fundamentals
8. Computing-II: Computer Programming
9. Computing-III: Computer Application in Engineering Design

Management Sciences Courses

1. Management-I: Professional Practice
2. Management-II: Organizational Behavior
3. Management-III: Entrepreneurship

Foundation Courses

1. Foundation-I: Fiber Science
2. Foundation-II: Textile Raw Materials
3. Foundation-III: High Performance Fibers
4. Foundation-IV: Engineering Fundamentals
5. Foundation-V: Mechanics of Fibrous Structures
6. Foundation-VI: Textile Engineering Utilities and Services
7. Foundation-VII: Statistical Methods in Textile Engineering
8. Foundation-VIII: Environmental Issues Related to Textile Industry
9. Foundation-IX: Engineering Management

Major Based Breadth Courses

1. Breadth-I: Introduction to Yarn Manufacturing
2. Breadth-II: Introduction to Weaving and Knitting
3. Breadth-III: Introduction to Non-wovens and Technical Textiles
4. Breadth-IV: Introduction to Textile Chemical Processing
5. Breadth-V: Introduction to Garment Manufacturing

Major Based Depth Courses

The six elective courses from six different specializations are given below:

Electives for Specialization in Yarn Manufacturing

1. Elective-I: Pre-spinning Processes
2. Elective-II: Yarn Production Engineering
3. Elective-III: Advanced Spinning Techniques
4. Elective-IV: Fancy Yarns

5. Elective-V: Spinning Calculations
6. Elective-VI: Spinning Machinery

Electives for Specialization in Fabric Manufacturing

1. Elective-I: Weaving and Knitting Preparatory Processes
2. Elective-II: Weaving and Knitting Mechanisms
3. Elective-III: Textile Design and Structure
4. Elective-IV: Advanced Weaving and Knitting Techniques
5. Elective-V: Weaving and Knitting Calculations
6. Elective-VI: Weaving and Knitting Machinery

Electives for Specialization in Textile Chemical Processing

1. Elective-I: Pre-treatment of Textiles
2. Elective-II: Textile Dyeing
3. Elective-III: Textile Printing
4. Elective-IV: Textile Finishing
5. Elective-V: Color Science
6. Elective-IV: Colorants and their Synthesis

Electives for Specialization in Garment Manufacturing

1. Elective-I: Anthropometry and Clothing Constructions
2. Elective-II: Sewn Production Engineering
3. Elective-III: Clothing Productivity and Quality Management
4. Elective-IV: Production Planning and Control
5. Elective-V: Merchandising
6. Elective-VI: Denim Sewing Techniques

Electives for Specialization in Technical Textiles

1. Elective-I: Medical Textiles Production and its Application
2. Elective-II: Geo Textiles Production and its Application
3. Elective-III: Agritech Production and its Application
4. Elective-IV: Sportech Production and its Application
5. Elective-V: High Performance Garments
6. Elective-VI: Mobiltech Production and its Application

Electives for Specialization in Energy Management and Auditing

1. Elective-I: Boilers and Steam Systems
2. Elective-II: Industrial Furnaces, Refractoriness and Insulation
3. Elective-III: Electrical Energy End Use
4. Elective-IV: Computer Application in Energy Management
5. Elective-V: Renewable / New Energy Sources and their Application
6. Elective-VI: Energy Technology

Inter-Disciplinary Engineering Breadth Courses

1. Inter-Disciplinary-I: Fundamentals of Mechanical Engineering
2. Inter-Disciplinary-II: Electrical and Electronic Systems

Capstone Project Courses

1. Project-I: Capstone Project-I
2. Project-II: Capstone Project-II

In addition to the above specializations, universities may also offer other specializations in areas like:

- Non-woven and Technical Textiles
- Textile Materials
- Textile Machine Manufacturing
- Textile Information Systems Design, etc.

Bachelor of Textile Technology and Management

Rationale

The BTTM program is designed with a view to meet the current market demands of the textile industry which requires a person to be skilled, both technically and managerially. The BTTM program presents a distinct blend of technical and managerial courses, and hence aims to equip its participants with the technology of textiles employed in different sectors of the industry along with the important managerial, marketing and finance oriented concepts. The BTTM program is unique in the sense that it reflects the interrelationships of various sectors of the textile industry. All sectors of the industry are represented in this course, enabling access by the participants to the diverse knowledge of processes and technology utilized in each sector. The textile industry is undergoing rapid changes in technology, markets, government's industrial policy and global competition. The BTTM courses are designed to meet these diverse needs.

Objectives

The BTTM program aims to provide the students with a high degree of technical competency for a range of occupations in the textile industry of the country. More specifically, the program aims to:

- provide firm and analytical concepts of the manufacturing technology applied in different sectors of the textile industry, i.e., spinning (yarn manufacturing) weaving (fabric manufacturing) and textile processing (dyeing, printing and finishing of textiles).
- enable the participants to use their technical knowledge for improving the quality and the productive efficiency of the textile manufacturing units;
- provide participants with a thorough knowledge of the fundamental principles of management, marketing and finance in the context of textile industry;
- develop skills for managerial decision-making in complex business and production environments;

- enhance understanding of textile organizations and the ability to design plans for these organizations for marketing, profit maximization and quality control;
- enable participants to make efficient use of computer technology in the production lines of spinning, weaving, textile finishing, garment manufacturing and managerial decision-making; and
- develop leaders of the industry who excel in decision-making and problem solving, and who can become agents of change as well as visionaries.

Admission Criteria

- Intermediate with minimum 2nd division (45%) or equivalent
- All applications are evaluated on the basis of merit as determined by the applicant's previous academic record and performance in the Admission Test.
- All candidates are required to sit for an entrance examination that covers General Mathematics and English.

Road Map of Bachelor of Textile Technology and Management (BTTM)

First Year

Semester 1

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
EN 101	Grammar and Comprehension	3	-	3	Freshman Standing
CS 141	Programming Fundamentals	2	1	3	Freshman Standing
NS 109	Chemistry for Engineers	3	1	4	Freshman Standing
ME 105	Applied Mechanics	3	1	4	Freshman Standing
MA 100	Calculus-I	3	-	3	Freshman Standing
Total		14	3	17	

Semester 2

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
EN 102	Composition and Communication	3	-	3	EN 101

NS 115	Chemistry-II/ Applied Physics/ Engineering				NS 105/ NS 109
MA 103	Economy	2	1	3	MA 100
TX 100	Calculus-II	3	-	3	Freshman Standing
TX 161	Textile Raw Materials	4	-	4	
	Fundamentals of Mechanical Engineering	2	1	3	
Total	14	2	16		

**Second Year
Semester 3**

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
EN 201	Research and Presentation	3	-	3	EN 102
MA 200	Calculus-III	3	-	3	MA 103
TX 213	Introduction to Yarn				
TX 210	Manufacturing Fiber Science	3	1	4	TX 100
	Fundamentals of Accounting	3	1	4	TX 100
	Principles of Marketing	2		2	
		2		2	
Total		16	2	18	

Semester 4

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
EE 250	Electrical and Electronic Systems	3	1	4	TX 200
HM 150	Islamic Studies	2	-	2	Freshman Standing
TX 216	Introduction to Weaving and Knitting				
TX 226	Introduction to Textile Chemical Processing	3	1	4	TX 213, TX 210
TX 224	Introduction to Non-woven and Technical Textiles	3	1	4	NS 111, TX 213
		3	1	4	TX 213, TX 210
Total		14	4	18	

**Third Year
Semester 5**

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
MG 330	Organizational Behavior	3	-	3	Freshman Standing
CS 245	Computer Simulations	2	1	3	CS 141
SS 171	Pakistan Studies	2	-	2	Freshman Standing
IS-550	Management Information System	3	-	3	
EC-123	Engineering Economics	3	-	3	
TX 345	Introduction to Garment Manufacturing	3	1	4	TX 216, TX 226
Total		16	2	18	

Semester 6

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
MA 310	Statistical Methods in Textile Engineering	3	-	3	MA 200
TX 323	Textile Testing	3	1	4	
TX 352	Textile Operations Management	3	-	3	
TX 330	Cost Accounting in Textiles	2	-	2	
TX yyy	Elective-I*	2/1	1/2	3	TX 216, TX 226, TX 300
Total		13/12	2/3	15	

**Fourth Year
Semester 7**

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
MG 365	Entrepreneurship	3	-	3	MG 330
TX 495	Capstone Project-I	1	2	3	Elec.I*, TX 328, TX 365
MG 205	Human Resource Management	3	-	3	
OM 460	Total Quality Management	3	-	3	

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TX yyy	Elective-II*	3	1	4	Elec.II*, TX 495, TX 375
TX yyy	Elective-III* (3+0 cr. Only for Garments)	3	1/0	4/3	Elec.II*, TX 495, TX 375
Total		16	4/3	20/19	

Semester 8

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TX yyy	Elective-IV* (0+1 Cr. Only for Garments) Project Management	3/0	1	4/1	Elec.II*, TX 495, TX 375
TX 496	Capstone Project-II	3	-	3	
TX 475	Environmental Issues Related to Textile Industry	1	2	3	TX 495
TX yyy	Elective-V* (2+0 Cr. Only for Garments)	2	1	3	TX 375
TX yyy	Elective-VI* (2+0 Only for Garments)	3/2	-	3/2	Elec.II*, Elec.III*, Elec IV*
TX yyy	Elective-VI* (2+0 Only for Garments)	2	-	2	Elec.II*, Elec.III*, Elec IV*
Total		14/10	4	18/14	

Major Specific Electives

(6 Courses, 18/21 Credit Hours)

Electives for Specialization in Yarn Manufacturing

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TX 367	Pre-spinning Processes	2	1	3	TX 216, TX 226,
				TX 300	
TX 368	Yarn Production Engineering	3	1	4	TX 367
TX 369	Advanced Spinning Techniques	3	1	4	TX 367
TX 376	Fancy Yarns	3	1	4	TX 367
TX 450	Spinning Calculations	3	-	3	TX 368, TX 369,
				TX 376	
TX 367	Pre-spinning Processes	2	1	3	TX 216, TX 226,
				TX 300	
Total		16	5	21	

Electives for Specialization in Fabric Manufacturing

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TX 344	Weaving and Knitting Preparatory Processes	2	1	3	TX 216, TX 226, TX 300
TX 364	Weaving and Knitting Mechanisms	3	1	4	TX 344
TX 366	Fabric Design and Structure	3	1	4	TX 344
TX 347	Advanced Weaving and Knitting Techniques	3	1	4	TX 344
TX 348	Weaving and Knitting Calculations	3	-	3	TX 364, TX 366, TX 347
TX 344	Weaving and Knitting Preparatory Processes	2	1	3	TX 216, TX 226, TX 300
Total		16	5	21	

Electives for Specialization in Textile Chemical Processing

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TX 332	Pre Treatment of Textiles	2	1	3	TX 216, TX 226, TX 300
TX 331	Textile Dyeing	3	1	4	TX 332
TX 327	Textile Printing	3	1	4	TX 332
TX 326	Textile Finishing	3	1	4	TX 332
TX 334	Color Science	3	-	3	TX 331, TX 327, TX 326
TX 332	Pre Treatment of Textiles	2	1	3	TX 216, TX 226, TX 300
Total		16	5	21	

Electives for Specialization in Garment and Apparel Manufacturing

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TX 358	Anthropometry and Clothing Constructions	1	2	3	TX 216, TX 226, TX 300,

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TX 354	Sewn Production Engineering	3	1	4	TX 358
TX 363	Clothing Productivity and Quality Management	2	-	2	TX 358
TX 356	Production Planning and Control	3	-	3	TX 358
TX 335	Merchandising	3	-	3	TX 354, TX 363, TX 356
TX 473	Denim Sewing Techniques	3	-	3	TX 354, TX 363, TX 356
Total		15	3	18	

Electives for Specialization in Energy Management and Auditing

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TX 372	Boilers and Steam Systems	3	-	3	TX 216, TX 226, TX 300
TX 384	Industrial Furnaces, Refractoriness and Insulation	3	-	3	TX 372
TX 386	Electrical Energy End Use	2	1	3	TX 372
TX 387	Computer Application in Energy Management	2	1	3	TX 372
TX 388	Renewable / New Energy Sources and their Application	3	-	3	TX 384, TX 386, TX 387
TX 389	Energy Technology	3	-	3	TX 384, TX 386, TX 387
Total		16	2	18	

Electives for Specialization in Textile Management

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
SM 615	Managing Supply Chains	3	-	3	-

SM 620	Enterprise Resource Planning	3	-	3	-
SM 637	Production Planning and Inventory Control	3	-	3	-
SM 653	Vendor Selection and Development	3	-	3	-
MKT655	Customer Relationship Management	3	-	3	-
MG 490	International Business	3	-	3	-
MK 652	Strategic Brand Management	3	-	3	-
MK 670	Advertising and Sales Promotion	3	-	3	-
MKT650	Product Innovation				
	Planning and Development	3	-	3	-
MK 425	Dynamics of Research	3	-	3	-
TQM610	ISO Implementation and Monitoring	3	-	3	-
TX 356	Production Planning and Control	3	-	3	-

Bachelor of Fashion and Design

Rationale

The four-year degree program is designed to equip its participant with a distinct blend of knowledge in textile, fashion and design along with the necessary skills of management. The program is unique as it reflects the interrelationships of the various sectors of the fashion and design industry enabling access to the diversified knowledge of processes, techniques and technology in the modern world.

Specializations

Textile Design

The Textile Fashion and Design courses are designed to deliver the participant of the program with a new understanding of creativity, opening their imagination to explore their abilities and to secure a place in the industry with a bright future and immense opportunities. The programs provide a creative learning, teaching and research environment for students wishing to develop a career path in textile sectors such as interior, automotive and fashion design, branding, textile design research, etc.

Outcome: The design oriented courses offered in our degree program help students to develop an understanding of design and its basic building modules. The textile design courses will help students to design, judge and evaluate textile design on modern lines, thus meeting one of the most basic and important aspects of the textile industry. The introduction of courses such as interior design and graphic design also help students to get equipped with the lineup of advanced and modern courses.

Fashion Design

The fashion design program is designed to acquire knowledge of the various materials and fabrics, and learn about the many possibilities of pattern design, garment construction, draping, sewing and tailoring. The program helps students to learn to design, create and market a design collection, and understand the dynamics of the job market and fashion trends.

Outcome: On completion of the program, the participants are able to transform design ideas into garments. This course helps students to learn the elements, principles and techniques of pattern drafting, draping, sewing and tailoring. It will help to translate fashion concepts into sketches and illustrations using freehand drawing techniques, Adobe Illustrator and Photoshop. The course will help to learn the history of fashion design and how the economy, society and culture influence fashion trends.

Career Paths: Fashion design graduates may begin working as fashion design assistants. Designers can start their own firms. They can become pattern drafters, costume designers (for theatre, print, television and film), fashion coordinators, buyers, researchers, production sewers or fashion writers.

Leather Accessories and Footwear

Leather accessories and footwear design is an intensive skill-based program emphasizing the crucial relationship between designs and manufacturing needs of the modern leather industry. This program is based on technical development appropriate to the satisfactory completion of the prototypes. Students develop accessories and shoes as a collection of their own.

Outcomes: By the end of this program, participants are able to develop design research drawing and illustration skills. This includes a series of leather accessories and shoe design exercises focusing on a comprehensive range of styles. Students learn technical modern shoemaking skills and make a range of prototypes of their own. They are enabled to develop a collection for leather accessories and footwear with genuine and synthetic leather.

Career Paths: The program leads to a successful career in leather accessories and footwear manufacturing. Upon completion of the program, the student can join the industry as a designer, buyer, brand manager, product manager, product developer, manager for merchandising marketing, planner, and even as an entrepreneur in retailing or cottage level industry.

Interior Design

The four-year degree program combines theoretical, conceptual and practical experiences that reinforce the relationship between knowledge and application within the interior design profession. Major concentration courses cultivate students' skills and talents to provide graduates with the foundation to become versatile and responsible interior designers in constantly evolving field to meet the needs of all who utilize space whether to live, work, play or learn. Interior design degree students develop portfolios to showcase their work to potential employers.

Outcomes: The interior design degree program is designed to equip the participants with contextual knowledge and make design decisions relative to ecological, socio-economic and cultural contexts. Participants are enabled to display design and problem solving skills. They learn to implement the design process using critical and creative thinking to solve problems appropriate to client's needs. Participants gain knowledge of the field of interior design while considering the impact of building construction and systems.

Career Paths: Interior designers may take up teaching positions in government or private sector institutes that offer courses in interior designing. They also do very well on self employment basis. They may seek employment in private or public sector firms, work with top notch architects and architectural firms, or in design studios and as exhibition organizers.

Product Design

Through an immersion in materials, fabrication processes, aesthetics, functional considerations, and proactive social engagement, students cultivate the essential intellectual habits and technical skills to explore and responsibly integrate the expanding roles of a professional product designer. To work in product design, you need to understand the relationship between art, science and technology.

Career Paths: As a product designer, you will spend your time planning, designing, and modeling products, producing prototypes and conducting rigorous testing. There are generic types of product design and conception, product and prototype development, design consultancies, experimental design, CAD design, architecture (design elements), component design, consumer goods design, merchandising, product safety design, children's products, packaging and furniture.

Admission Criteria

Minimum 45% marks / 2nd division in FA / FSc / A Level or equivalent degree

Test and Interview: All applicants are evaluated on the basis of merit as determined by their previous academic record and performance in the admission test and interview.

Note:

- If FSc / A Level is done with Biology, then Pre-Math will be compulsory for the student/s
- If NTS is passed by any student, he/she will be exempted from UMT test.

Duration 4 years

Semesters 8

Credit Hours 131

Road Map of Bachelor of Fashion and Design

SEMESTER-I

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
EN-101	English-I (Compulsory)	2	0	2	
SS-171	Pakistan Studies (Compulsory)	2	0	2	
DN-101	Basic Drawing-I	1	2	3	
DN-102	Design History and Theory-I	1	0	1	
DN-103	Digital Communication-I	1	0	1	
DN-104	History of Art and Culture-I	1	0	1	
DN-105	Material and Models-I	1	2	3	
DN-106	Shaping-I/ Drafting - I	2	3		
	Total	10	6	16	

SEMESTER-II

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
EN-102	English-II (Compulsory)	2	0	2	
HN-152	Islamiat (Compulsory)				
Religion	2	0	2		
DN-107	Basic Drawing-II	1	2	3	
DN-108	Design History and Theory-II / History of Furniture	2	0	2	

DN-109	Digital Communication-II	0	2	2
DN-110	History of Art and Culture-II/ Color Theory	1	0	1
DN-111	Mathematics	1	2	3
DN-112	Shaping-II/ Drafting - II	1	1	2
Total	10	7	17	

Specialization in Textile Design

SEMESTER-III

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TD-201	Textile Basics	1	2	3	
TD-202	Weave Design Studio-I	1	2	3	
TD-203	Drawing-I DN-201 Design Foundation-I (Ornaments)	0	2	2	
DN-202	Design Foundation-II (Colors)	1	2	3	
EN-220	English-III (Academic Writing)	3	0	3	
Total		7	10	17	

SEMESTER-IV

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TD -204	Fibres and Yarns	2	0	2	
TD -205	Weave Design Studio-II	1	2	3	
TD -206	Knit Design and Technology	1	1	2	
TD -207	Design Studio-I	1	3	4	
TD-208	Textile CAD	0	2	2	
TD -209	Drawing-II	0	2	2	
TD -210	Applied Processes and Finishes	2	0	2	
Total		7	10	17	

SEMESTER-V

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
EN-320	English-IV (Technical Writing)	3	0	3	
TD-301	Advance Weaving	1	2	3	

TD-302	Knit Design Studio	1	2	3
TD-303	Drawing-III	0	2	2
TD-304	Textile Design Seminar-I	1	0	1
TD-305	Textile Chemistry	2	0	2
TD-306	Printing Technology	1	2	3
Total	9	8	17	

SEMESTER-VI

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TD-307	Design Studio-II	2	3	5	
TD-308	Textile Marketing and Management-I	2	0	2	
DN-301	Product Design Execution-I	1	2	3	
TD-309	Textile Design Seminar-II	0	1	1	
TD-310	Textile Embellishments and Coating	1	2	3	
DN-302	Product Detail and Development	0	2	2	
Total		6	10	16	

SEMESTER-VII

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TD-401	Textile Marketing and Management-II	3	0	3	
TF-310	Experimental Textiles (Eco-Textiles)	1	2	3	
TD-402 (Textile Calculations)	Mathematics-II	3	0	3	
TD-403	Research Methodology	2	1	3	
DN-401	Product Design Execution-II	1	2	3	
Total		10	5	15	

SEMESTER VIII

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TD-404	Collection Drawing (Research and Development)	0	3	3	
TD-405	Collection Product Development	0	2	2	
TD-406	Collection Textile Construction (Development)	1	3	4	
EN-415	English-V (Dissertation Writing)	2	0	2	
TD-408	Final Collection	1	4	5	
Total		4	12	16	

Optional/Elective Courses

Courses will be offered by the other Department/School considering the availability of faculty and number of students required for class, i.e., 20.

Specialization in Fashion Design

SEMESTER-III

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
EN-220	English-III (Academic Writing)	1	0	1	
FD-201	Pattern-I (Fundamentals of Flat Pattern Calculations)	1	1	2	
DN-203	Fashion Design Studio-I (Introduction)	1	1	2	
TF-456	Sewing-I (Machine Sewing-I)	0	1	1	
DGF-205	Digital Fashion-I (Introduction)	0	1	1	
TF-125	History of Costume-I	1	0	1	
TF-454	Draping-I (Basics)	1	2	3	
TF-201	Textile Basics	1	1	2	

TF-202	Human Anatomy: Drawing	0	1	1
TX—201	Basics of Hand Sewing	0	1	1
TF-203	Fashion Details	1	1	2
Total		7	10	17

SEMESTER-IV

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
TF-204	Pattern-II (Mathematics of Pattern)	1	1	2	
TF-205	Fashion Design Studio-II	1	2	3	
TF-206	Sewing-II (Machine Sewing-II)	0	1	1	
TF-207	Digital Fashion-II (Advance Design)	0	1	1	
TF-208	History of Costume-II	1	0	1	
TF-455	Draping-II (Draping Techniques)	1	2	3	
TF-209	Textile Design-I (Introduction to Textile Design)	1	1	2	
FD-201	Couture Finishes (Hand Sewing-II)	0	1	1	
FD-202	French-I (Basics)	1	0	1	
FD-203	Introduction to Marketing and Merchandising	2	0	2	
Total		8	9	17	

SEMESTER-V

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
EN-320	English IV (Technical Writing)	1	0	1	
FD-301	Pattern-III (Mathematics of Pattern)	1	2	3	
FD-302	Fashion Design Studio-III (Trend Forecast and Project)	1	2	3	

FD-303	Sewing-III (Advanced)	1	2	3
FD-304	Digital Fashion-III (Portfolio Development)	0	1	1
FD-305	History of Costume and Fashion-III	1	0	1
FD-306	Draping-III (Advance Level-I)	1	2	3
FD-307	Textile Design-II (Technical Analysis of Fabrics)	1	1	2
FD-308	French-II (Comprehension and Expression)	1	0	1
Total		8	10	18

SEMESTER-VI

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
EN-321	English -V (Research and Communication Skills)	1	0	1	
FD-309	Pattern and Grading-IV (Mathematics)	1	2	3	
FD-310	Fashion Design Studio -IV	1	2	3	
FD-311	Sewing-IV	1	2	3	
FD-312	Digital Fashion IV (Portfolio and CAD/CAM)	0	1	1	
FD-313	History of Costume and Fashion-IV	1	0	1	
FD-314	Draping-IV (Advanced Level-II)	1	2	3	
FD-315	Textile Design-III (Surface Decoration)	1	1	2	
FD-316	French-III (Communication Skills)	1	0	1	
Total		8	10	18	

SEMESTER-VII

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
EN-415	English-VI (Dissertation Research and Writing)	1	0	1	
FD-401	Pattern-V	1	2	3	
FD-402	Fashion Design Studio-IV (Design Research Methodology)	1	2	3	
FD-403	Sewing-V	1	2	3	
FD-404	Draping-V (Haute Couture)	1	2	3	
FD-405	Textile Design-IV (Research and Development)	0	2	2	
FD-406	French-IV (Language Proficiency)	1	0	1	
Total		6	10	16	

SEMESTER VIII

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
FD-407	Fashion Design Thesis Breakdown as follows:	2	10	12	
EN-418	English - VII Dissertation Collection	2	0	2	
FD-409	Pattern-VI (Collection)	0	2	2	
FD-410	Fashion Design Studio (Collection)	0	2	2	
FD-411	Sewing - VI (Collection)	0	2	2	
FD-412	Draping-VI (Collection)	0	2	2	
FD-413	Textile Design -V (Collection)	0	2	2	
Total		2	10	12	

Specialization in Leather Accessories and Footwear

Second Year

Semester 3

Course Code	Course Title	Credit Hours			Pre and Co-Requisites		
		Lec	Lab	Total			
EN-220	Research and Presentation	2	0	2			
DF-201	History of Leather Accessories and Footwear-I	1	0	1			
LD-201	Design Studio (Leather Accessories and Footwear)-I	0	2	2			
LD-202	Human Anatomy-I	1	0	1			
DN-204	ARW-205 Anatomy Drawing-I Digital Visualization - I (CorelDraw)	0	2	2	2	2	
LTC-207	Leather Technology-I	1	0	1			
MNM-208	Mathematics-II (Drafting of Men's Shoe and Sizes)	1			2	3	
PTC-209	Production Techniques-I (Upper and Bottom Cutting Process)	1	2	3			
Total		7	10	17			

Second Year

Semester 4

Course Code	Course Title	Credit Hours			Pre and Co-Requisites		
		Lec	Lab	Total			
EN-221	English (Compulsory)-IV	1	0	1			
DF-202	History of Leather Accessories and Footwear-II	1	0	1			
LD-203	Design Studio (Leather Accessories and Footwear)-II	0	2	2			
DN-205	Human Anatomy-II (Orthopedic)	1	0	1			
DN-206	Anatomy Drawing-II	0	2	2			

LD-204	Digital Visualization-II (Adobe Photoshop)	0	2	2
LD-205	Leather Technology-II	1	0	1
LD-206	Footwear and Accessory Details	1	1	2
DN-207	Drafting-I (Ladies Shoes and Hand Bags)	1	2	3
LD-207	Production Techniques-II (Upper Closing/ Stitching Process)	1	2	3
Total		7	11	18

Third Year Semester 5

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
EN-320	English (Compulsory)-V	2	0	2	
LD-301	Design Studio -III	0	2	2	
LD-302	Garments Drawing (Leather Garments Studies)	0	2	2	
LD-303	Leather Garments	1	2	3	
DN-303	Shoe CAD/CAM (2D Shoe Master)	0	2	2	
QTM-306	Quality Management	1	0	1	
DN-304	Drafting-II (Hats and Gloves)	1	2	3	
LD-304	Production Techniques-III (Upper Lasting Process)	1	2	3	
Total	6	12	18		

Third Year Semester 6

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
LM-301	Marketing (Leather Accessories and Footwear)	1	1	2	

DN-305	Design Studio (Leather Accessories and Footwear)	0	2	2
LM-302	Retail Management	0	2	2
DN-306	Shoe CAD/ CAM-II (3D Shoe Master)	0	2	2
LM-303	Production Planning and Control (PPC)	1	0	1
DN-307	Drafting -III (Motorbike Long Boot and Sports Trainer)	1	2	3
DN-308	Production Techniques-IV (Upper and Sole Attaching Process)	1	2	3
INT-358	Internship	1	2	3
Total		5	13	18

**Fourth Year
Semester 7**

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
LM-401	Merchandizing (Leather Accessories and Footwear)	1	1	2	
LD-401	Design Studio (Leather Accessories and Footwear)	1	1	2	
LD -402	Shoe CAD/ CAM-III (2D and 3D Shoe Master)	0	2	2	
LD -403	Drafting-IV (Canvas and Moccasin Shoe)	1	2	3	
LD -404	Production Techniques-V (Finishing and Packing Process)	1	2	3	
LD -405	Foreign Language (Chinese or Italian)	3	0	3	

DN -402	Foot Care Studies (Orthopedic, Diabetic, Care and Reflexology)	1	1	2
LM-402	Entrepreneurship	1	0	1
Total		9	9	18

**Fourth Year
Semester 8**

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
DN-403	Design Studio (LA and F)-VI	1	1	2	
LD-406	Drafting-V	1	1	2	
LD-407	Production Techniques-VI Final Project	1	1	2	
LD-409	Written Thesis Verbal Presentation	1	1	2	
Total		4	5	9	

**Specialization in Interior Design
Second Year
Semester 3**

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
EN-220	ENGLISH III	3	0	3	
ID-201	Mathematics for Interior Design II	3	0	3	
DN-208	Design Studio I	0	3	3	
DN-209	Fundamentals of Space Planning	1	2	3	
DN-210	Photoshop for Interior Designers 1	1	2	3	
TF-201	History of Textiles	3	0	3	
Total		11	7	18	

**Second Year
Semester 4**

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
ID-202	Design Studio II	0	3	3	
ID-203	Fire, Safety and Local Building Codes	3	0	3	

ID-204	Perspective Drawing for Interior Design 1	0	3	3
ID-205	Introduction to 3D Software for Interior Design-1	1	2	3
ID-206	Architectural Standards	3	0	3
Total		7	8	15

**Third Year
Semester 5**

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
DN-309	Landscaping	2	1	3	
ID-301	Decorative Arts (Working with Interior Details)	1	2	3	
DN-310	Understanding Interior Lighting	2	1	3	
DN-311	Photoshop for Interior Designer 2	1	2	3	
DN-312	Building Concepts and Environments	1	2	3	
ID-302	Materials Study for Interior Designers	2	0	2	
Total		9	8	17	

**Third Year
Semester 6**

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
EN-320	English IV (Dissertation writing)	2	0	2	
TXT-430	Entrepreneurship	3	0	3	
DN-313	Visual Research and Communication	1	2	3	
DN-314	Perspective Drawing for Interior Design-2	0	2	2	
DN-315	Rendering Interior Design Layouts Techniques	1	2	3	
DN-316	Portfolio Management	1	2	3	

DN-317	Interior Design Exhibits	0	2	2
Total		8	10	18

Fourth Year Semester 7

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
DN-404	Eco-Friendly Interior Design	2	1	3	
DN-405	Environmental Design	2	1	3	
DN-406	Research Methodology	2	1	3	
IM-401	Marketing and Merchandizing	3	0	3	
DN-407	Introduction to 3D Software for Interior Design-2	1	2	3	
DN-408	Senior Design Project 1	1	2	3	
Total		11	7	18	

Fourth Year Semester 8

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
DN-409	Project Management	2	1	3	
DN-410	Modular Design	1	2	3	
DN-411	Graphic Design	1	2	3	
DN-412	Senior Design Project 2	2	3		
Total		5	7	12	

Specialization in Product Design Second Year Semester 3

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
EN-220	English III	3	0	3	
DN-211	Design Studio 1	1	2	3	
MA-210	Linear Algebra	3	0	3	
SS-140	Introduction to Psychology	2	0	2	
NS-122	General Physics	3	0	3	
DN-212	Industrial Design Analysis	3	0	3	
Total		15	2	17	

**Second Year
Semester 4**

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
ID-201	Design Studio 2	1	2	3	
ID-202	Mass Production Technology	3	0	3	
DN-213	Computer Applications 1	0	2	2	
DN-214	Form and Color Fundamentals	1	2	3	
ID-203	Ergonomics	2	0	2	
ID-204	Product Life-Cycle	2	0	2	
Total		9	6	15	

**Third Year
Semester 5**

CS-301	Computer Applications 2	0	2	2	
IM-301	Principles of Marketing	3	0	3	
DN-318	Industrial Design and the User	3	0	3	
ID-301	Innovative Materials and Technologies 1	2	1	3	
ID-302	Building Concepts and Environments	1	2	3	
Total		9	5	14	

**Third Year
Semester 6**

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
ID-303	Visual Research and Communication	1	2	3	
ID-304	Operations Management	3	0	3	
ID-305	Professional Practice	3	0	3	
ID-306	Portfolio Management	1	2	3	
ID-307	Engineering Modeling	1	2	3	
ID-308	Innovative Materials and Technologies 2	2	1	3	
Total		11	7	18	

**Fourth Year
Semester 7**

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
DN-412	Special Design (Layout Design)	1	2	3	
DN-413	Furniture- Theory and Analysis	1	2	3	
DN-414	Objects and Impact 2	2	1	3	
DN-415	Sustainable Materials and Manufacturing for Product Design	3	0	3	
DN-416	Senior Design Project 1	1	2	3	
DN-417	Research Methodology	2	1	3	
Total		10	8	18	

**Fourth Year
Semester 8**

Course Code	Course Title	Credit Hours			Pre and Co-Requisites
		Lec	Lab	Total	
DN-418	Project Management 3	1	4		
DN-419	Modular Design	1	2	3	
TXT-430	Entrepreneurship Design	3	0	3	
DN-420	Visualizations 1	2	3		
DN-421	Senior Design Project 2	2	3		
Total		9	7	16	

Bachelor of Fine Arts

Specializations

Painting, Drawing, Printmaking, Digital Arts, Miniature, Ceramics, Calligraphy, Landscape Painting, Sculpture

Objective

The School of Textile and Design (STD) offers a Bachelor of Fine Arts degree, exposes students to a wide range of activities, faculty, resources and facilities. This experience is further enriched through frequent visits by many distinguished visiting artists, scholars and guest critics from all over Pakistan and abroad. Students work closely with faculty and visiting artists, through electives, workshops and the Fine Art major studio, a largely independent, practice driven studio, where they are encouraged to explore individual concerns. STD is the first art school to focus on the promotion and study of Islamic Art perspectives in almost all disciplines of art and design.

A mandatory Foundation Year Program, imparting fundamental skills in the first semester, and a thematically driven second semester, equips students from all departments, to independently become aware of, and resolve their formal, conceptual as well as socio-political concerns through their personal art practice.

Career Paths

Fine Artist; Painter, Printmaker, Web Artist, Miniaturist, Ceramic Artist

Fields: Studio/Advertising, Illustration, Arts Administration, Art Education, Model Maker, Set Design for Theatre, Film and TV, Furniture Design, Interior Design, Exhibition and Events Design, Public Art Projects, Computer Graphics related professions, Advertising, Entertainment Industry, Art Education.

Outcomes

The program enables students to study both contemporary and traditional art practices through a variety of media. The program is motivated towards both skill building and the development of critical and analytical skills. Experiencing a range of interdisciplinary fields through Major studios and elective courses, students are able to broaden their scope towards an independent body of work in the final year.

Plan of Study

First Year

Semester I

Course Code	Course Title	Credit		
		Lec	Lab	Total
FA 119	History of Art - I	2	0	2
EN 101	English I	3	0	3
FA 123	Art and Society	2	1	3
FA 104	Foundation Drawing I	0	3	3
FA 105	Foundation 2D Studio I	0	3	3
FA 108	Foundation 3D Studio I	0	3	3
FA 106	Techniques and Technologies of Graphic Communication	1	1	2
	Total			19

Semester II

Course Code	Course Title	Credit		
		Lec	Lab	Total
FA 120	History of Art - II	2	0	2
EN 102	English II	3	0	3
FA 114	Foundation Drawing II	0	3	3
FA 115	Foundation 2D Studio II	0	3	3
FA 124	Techniques and Technologies of Graphic Communication II	1	1	2
FA 125	Foundation 3D Studio II	0	3	3
FA 128	Calligraphy	0	3	3
	Total			19

Second Year

Semester III

Course Code	Course Title	Credit		
		Lec	Lab	Total
FA 112	Painting - I (Studio Elective - I)	0	3	3
FA 212	Printmaking (Studio Elective - II)	0	3	3
FA 214	Drawing -I (Drawing Elective)	0	3	3
EN 201	English III	3	0	3
FA 219	History of Arts - III (Art History Elective)	3	0	3
SS 171	Pakistan Studies	3	0	3
	Total			18

Semester IV

Course Code	Course Title	Credit		
		Lec	Lab	Total
FA 251	Fine Art Minor Studio - I	0	3	3
FA 221	Painting – II (Studio Elective)	0	3	3
FA 224	Drawing – II (Drawing Elective)	0	3	3
FA 220	History of Arts – IV (Art History Elective)	3	0	3
SS 102	Islamic Studies	3	0	3
	Total			15

**Third Year
Semester V**

Course Code	Course Title	Credit		
		Lec	Lab	Total
FA 351	Fine Art Minor Studio II	0	3	3
FA 311	Painting –III (Studio Elective)	0	3	3
FA 314	Drawing – III (Drawing Elective)	0	3	3
FA 319	History of Arts - V (Art History Elective)	3	0	3
FA 354	Research Methodology	2	1	3
	Total			15

Semester VI

Course Code	Course Title	Credit		
		Lec	Lab	Total
FA 371	Fine Art Major Studio III	0	6	6
FA xxx	Studio Elective	0	3	3
FA yyy	Theory Elective	3	0	3
FA zzz	Theory Elective	3	0	3
	Total			15

**Forth Year
Semester VII**

Course Code	Course Title	Credit		
		Lec	Lab	Total
FA 451	Fine Art Major Studio IV	0	9	9
FA xyz	Studio Elective (Independent Studies)	0	3	3
HC 449	Contemporary Art Seminar	3	0	3
	Total			15

Semester VIII

Course Code	Course Title	Credit		
		Lec	Lab	Total
FA 471	Fine Art Major Studio V	0	12	12
HC 450	Beyond Art Making	0	3	3
	Total			15
	Total Program credit hours			131

* Studio Elective: A studio elective, in the case of a BFA can be any practice based course offered by the Department of Fine Art of UMT. Students can take studio electives in consultation with their advisor. However, students specializing in 2 Dimensional, 3 Dimensional or New Media Arts must complete introductory, intermediate and advanced level courses in the area of their specialization - for example Painting I, II, III.

Studio Elective

Course Code	Course Title	Credit		
		Lec	Lab	Total
FA 321	Painting	3	(0+3)	
FA 323	Miniature	3	(0+3)	
FA 322	Print Making	3	(0+3)	
FA 325	Sculpture	3	(0+3)	
FA 327	Ceramics	3	(0+3)	
FA 324	Drawing (Life, Still Life Conceptual)	3	(0+3)	

Theory Elective

Course Code	Course Title	Credit		
		Lec	Lab	Total
FA 320	History of Arts	3	(3+0)	
FA 326	History of Cultures	3	(3+0)	
FA 328	History of Architecture	3	(3+0)	
FA 332	History of Islamic Art and Architecture	3	(3+0)	
FA 336	History of Crafts	3	(3+0)	
	Total			15

Specialization Courses

- Painting
- Printmaking
- Miniature Painting
- Sculpture
- Calligraphy
- Ceramics
- History of Arts
- Islamic Arts History

Minor

- Printmaking
- Ceramics
- History of Art
- Sculpture

Major

- Painting
- Miniature
- Calligraphy
- Islamic Art History

Master of Science in Textiles (MSTX)

Program Overview

The textile industry in the country is in dire need of competent human resources equipped with a strong technical background and a vision for developing new products and services. In order to address this need, the University of Management and Technology (UMT) has launched the Master of Science in Textiles (MSTX) and Postgraduate Diploma programs in the field of textiles.

The Master of Science in Textiles (MSTX) is a two-year program that has five unique specializations catering for the requirements of the Pakistani textile market. Classes are normally scheduled in the evening for the benefit of the employed participants.

General Information

Thesis and non-thesis options are offered at the master level. Students may specialize in several areas as follows:

- Yarn Manufacturing
- Fabric Manufacturing
- Textile Wet Processing

- Apparel Manufacturing
- Textile Management

MS Textiles Degree Thesis Option (33 credits)

1. Requires 6 credits of orally defended thesis spanning two semesters.
2. Requires 27 credits of approved coursework with the following constraints:
 - a. Minimum of 15 credits at the 600 level in their major.
 - b. Maximum of 12 credits in TX elective courses from other specializations.
3. An oral final examination consisting of a thesis defense must be passed. The exam must be scheduled at least two and a half (2.5) weeks in advance through the Thesis Advisor and Graduate Committee of the Department by completion and submission of the specific form.
4. The thesis must be submitted in proper form electronically as well as in the hard copy approved format to the Department within 2 weeks of the oral final exam date.

Core Courses

- Master Thesis
- Fiber and Yarn Studies
- Fabric Manufacturing (Knit, Woven)
- Wet Processing or Advanced Pre Treatment
- Apparel Manufacturing
- Industrial and Technical Textiles or Technical Textiles
- Research Methodology Techniques
- Departmental Seminar carries 0 credit hour

List of Specializations

Yarn Specializations

- Mechanics of Materials
- Advanced Yarn Studies
- Mechanics of Yarn Manufacturing
- Methods, Tools and Techniques, Measurement and Evaluation of Yarn Properties

Fabric Specializations

- Advanced Weaving Technology
- Advanced Knitting Technology
- Methods, Tools and Techniques, Measurement and Evaluation of Fabric Properties
- Advanced Textile Composites

Textile Wet Processes Specializations

- Advanced Textile Wet Processes
- Advanced Textile Printing Technologies
- Advanced Textile Finishing Technologies
- Methods, Tools and Techniques, Measurement and Evaluation of Wet Processes

Apparel Specializations

- Production Planning and Control
- Merchandising
- Advanced Sewing
- Garments Statistical Process Control

Textile Management Specializations

- Competitive Strategy and Planning for the Textile Industry
- Textile and Apparel Operations Management
- Textiles Supply Chain Management
- Operational MGT
- TQM Costing (Management)

Faculty

Dr Nabeel Amin

Director STD, Associate Professor

director.itis@umt.edu.pk

PhD (Coloration & Environmentally Friendly Processes)

University of Leeds (UK)

M Naveed Akhtar

Lecturer

naveed.akhtar@umt.edu.pk

MS Textile Management (Thesis in Progress)

BSc Textile Engineering (Yarn Manufacturing)

N.C.T.E (UET Lahore)

Haseeb Akram

Assistant Professor

haseeb.akram@umt.edu.pk

MSc Advanced Textiles, University of Leeds (UK)

Adil Masood Qazi

Assistant Professor Textile Fashion and Design

adil.masood@umt.edu.pk

Bachelor in Design, National College of Arts, Lahore ,equivalent to 18 years education

Engineer Babar Ramzan

Assistant Professor

babar.ramzan@umt.edu.pk

MSc Textile Engineering

National Textile University, Faisalabad

Alvina Fatima

Lecturer Textile Fashion and Design

Web/Graphic Designer

alvina.fatima@umt.edu.pk

BFA - Graphic Design, National College of Arts Lahore (Pakistan)

Syeda Sidra Batool

Lecturer Textile Fashion and Design

sidra.batool@umt.edu.pk

MA - Fine Arts, Lahore College for Women University Lahore (Pakistan)

Mr Umair Mukhtar

Lecturer

umair.mukhtar@umt.edu.pk

MS Textile Chemistry, University of Management & Technology, Lahore

Engineer Muhammad Shoaib-ur-Rauf

Adjunct Lecturer

shoaib.rauf@umt.edu.pk

BSc Textile Engineering,, N.C.T.E, Faisalabad, Pakistan

MS Textiles in progress at UMT

N.C.T.E (UET Lahore)

Aqsa Imran

Lab Engineer cum Lecturer

aqsa.imran@umt.edu.pk

BSc Textile Engineering (Garments Manufacturing)

National Textile University, Faisalabad

Engineer Sajid Hussain

Lecturer

sajid.hussain@umt.edu.pk

MSc Textile Engineering (Thesis in Progress)

BSc Textile Engineering (Fabric Manufacturing)

National Textile University, Faisalabad

Tabinda Riaz

Lab Engineer cum Lecturer

tabinda.riaz@umt.edu.pk

BSc Textile Engineering (Garments Manufacturing)

National Textile University, Faisalabad

Qurbat Zahra

Lab Engineer cum Lecturer

qurbat.zahra@umt.edu.pk

B.Sc. Textile Engineering (Yarn Manufacturing)

National Textile University, Faisalabad

Engineer Almas Anwar

Lab Engineer cum Lecturer

mianalmas@gmail.com

MSc Textile Engineering (Thesis in Progress)

B.E. Textile Engineering (Yarn Manufacturing)

National Textile University, Faisalabad

Engineer Bilal Javed

Lab Engineer cum Lecturer

bilal.javed@umt.edu.pk

BSc Textile Engineering (Garments Manufacturing)

University of Faisalabad, Faisalabad

**School of
Law and Policy**

Director's Message

University of Management and Technology's mission is to "evolve" by "actualizing strategic partnerships with stakeholders, harnessing leadership, generating useful knowledge, fostering enduring values, and projecting sustainable technologies and practices". Training students in legal and policy analysis is fundamental to each of these goals.

Also, keeping in view the current state of legal and policy studies in the country, there is a dire need for institutions and programs that introduce the students to latest approaches and discourses in these fields and, consequently, enable them to develop their own expertise and become competent academics and professionals. School of Law and Policy (SLP) has been set up in order to address all these issues. It will offer undergraduate and graduate programs in law and policy.

The immediate objective of the School is to equip law graduates with knowledge and skills that are most useful for lawyers working in-house for corporations or with law firms. The long-term objective is to provide people aspiring to become lawyers and/or policy experts with an extensive understanding of current and emerging domestic and global trends in law and/or policy, in their areas of interest, producing academics and professionals that have a thorough and comparative understanding of legal and/or policy issues and principles.

Syed Imad-ud-Din Asad

LLM (Harvard); Advocate, High Court

SCHOOL OF LAW AND POLICY (SLP)

ACADEMICS

Specialized Courses

School of Law and Policy (SLP) is offering the following specialized courses for MBA students:

International Commercial Arbitration (LW601)

Multinational Enterprises and the Law (LW602)

Transnational Commercial Law (LW603)

International Commercial Arbitration (LW601)

The purpose of this course is to acquaint students with the substantive and procedural aspects of arbitration especially in an international commercial setting. It is designed to stand as an outline of the key principles involved in the practice of international commercial arbitration. As its central theme, the course analyses the contemporary issues in international/ trans-border arbitral practice and the various steps required in an international arbitration. The importance of international commercial arbitration to international commerce is a key theme throughout the course.

Multinational Enterprises and the Law (LW602)

The objective of this course is to provide a comprehensive study of the business and legal organization of MNEs and the regulation of their activities. It focuses on both the principal commercial and the social issues raised by their operations. In addition, it examines the regulatory environment for international business by dealing with sub-national, national, regional and multinational policies and rules for the regulation of MNEs.

Transnational Commercial Law (LW603)

The purpose of the course is to familiarize the students with: (1) the manner in which uniform laws governing cross-border commercial transactions have evolved; (2) the sources of transnational commercial law; and (3) the instruments and institutions that have played a role in these developments. The course offers students an opportunity to examine certain areas of commercial law. The course will focus on concepts of agency and distribution, international bank payment/undertakings and transnational insolvency. It will provide students with an overview of commercial law as well as bring them up to date with recent developments in this field.

Summer Program for Foreign Students

Summer Program for Foreign Students is designed for foreign, English-speaking, under-graduate, graduate, and postgraduate students interested in learning about Islamic law, Pakistan, and Urdu.

The program will offer foreign students a unique opportunity to learn about the political and cultural challenges and problems confronting Islam and Pakistan. Our faculty and speakers will offer in-depth analyses of the major issues and will provide a platform for open discussions resulting in solutions and strategies.

The students will also get a chance to enjoy the city of Lahore--- the cultural capital of the country.

Program Design

In 2012, the students will take any two of the following courses:

Issues in Islamic Law

After briefly introducing the basic legal concepts, the course will cover matters related to constitutional law, commercial law, family law, and humanitarian law.

Contemporary Pakistan

After a quick glance at the history of Pakistan, the course will focus on the numerous crises and dilemmas that the country is facing. Prominent Judges, lawyers, policy makers, politicians, and economists will also be invited to share their views with the students.

Urdu

The course will allow students to acquire basic written and spoken skills in Urdu. Advanced lessons will be arranged for students that already have a basic understanding of the language.

In the three-week program, the classes will take place in the morning session. The total amount of classroom instruction will be sixty hours.

Program Cost

The total program cost of \$1500 will include tuition, course materials, two meals a day, shared accommodation, and administrative expenses.

Master in Commercial Law

Objective

The objective of Master in Commercial Law (MCL) is to equip business managers, bankers, entrepreneurs, etc., with knowledge and skills that are most useful for understanding the legal aspects and consequences of different commercial transactions.

Benchmark

The program is structured and implemented in accordance with the precedents set by Harvard and other top American schools while adhering to the standards prescribed by Higher Education Commission.

Strengths and Prospects

Our full-time faculty comprises alumni of Harvard, Boston University, and Berkeley.

Our visiting faculty comprises alumni of Harvard, Columbia, Cornell, and London.

The program offers quality education at an affordable price.

Duration

Total duration of the program is two years.

Credits

33 credits

Admission Criteria

An applicant must have sixteen years of education from a Pakistani or foreign university in order to be considered for admission.

A committee of three faculty members interviews and evaluates the candidates whose decision is final. The committee considers the applicant's previous academic performance, letters of recommendation, professional and personal accomplishments, and other relevant factors.

Teaching Methodology

Courses are taught using the Socratic Method, which has been used at top American schools for over a century.

Fee

Total fee for the program is Rs 400000/- (rupees four hundred thousand). Course packs are provided by for no extra charge.

LLM in Commercial Law

Objective

The immediate objective of LL.M. in Commercial Law is to equip law graduates with knowledge and skills that are most useful for lawyers working in-house for corporations or with law firms doing commercial transactions.

The long-term objective of the program is to provide law graduates with an extensive understanding of regional and global trends in commercial law, in their areas of interest, producing academics and practitioners that are able to improve the existing legal framework for businesses in Pakistan.

Benchmark

The program is structured in accordance with the precedents set by top European and American law schools while adhering to the curriculum prescribed by Higher Education Commission.

Strengths and Prospects

The faculty comprises alumni of top American and British universities like Harvard University, Columbia University, Cornell University, Boston University, and University of London.

The specialized program--- the first of its kind in Pakistan--- is designed to equip the graduates with skills that are highly sought by corporations and law firms doing commercial transactions.

The program offers quality legal education at an affordable price.

Duration

Total duration of the program is two years.

Credits

33 credits

Admission Criteria

An applicant must have a first law degree (JD, LLB, LLB (Hons), BA/LLB, or equivalent) from a Pakistani or foreign university in order to be considered for admission.

The school conducts its own admission test which examines an applicant's skills in English, law, and general knowledge.

A committee of three faculty members interviews and evaluates the candidates whose decision is final. The committee considers the applicant's previous academic performance, letters of recommendation, professional and personal accomplishments, and other relevant factors.

Teaching Methodology

Courses are taught using the Socratic Method, which has been used at top American law schools for over a century.

Fee

Total fee for the program is Rs 400000/- (rupees four hundred thousand). Course packs are provided by for no extra charge.

FACULTY

Director

Syed Imad-ud-Din Asad

LLM (Harvard)

Advocate, High Court

Associate Professor

Permanent Faculty

Sara Mahboob

LLM (Boston University)

Advocate, High Court

Lecturer

Sarwat Waseem

LLM (Punjab)

Advocate, High Court

Teaching Fellow

Visiting Faculty

Rana Sajjad Ahmed

LLM (Columbia)

Member of the New York Bar

Advocate, High Court

Haider Ashraf

MA (Columbia)

Senior Superintendent of Police

Police Service of Pakistan

Mariska Joyce de Wit

LLM (Amsterdam)

Mian Tariq Hassan

LLM.(Harvard)

Advocate High Court

Muhammed Khurram

LL.M. (Harvard)

Director Legal, Intellectual Property Organization of Pakistan

John Odito

BA (Hopkins), JD (Harvard)

Dr Niels Petersen

Dr iur. (Frankfurt)

Senior Research Fellow, Max Planck Institute for Research on Collective Goods

Husnain Javaid Syed

LLM (SOAS)

Advocate, High Court

Dr Bastiaan van Zelst

LLM (Amsterdam)

PhD (Amsterdam)

Member of the Amsterdam Bar

**Institute of
Audit and Accountancy**

Message from the Director

The Institute of Audit and Accountancy (IAA) was founded to provide affordable quality education in academic and professional accountancy programs. Our vision is to be recognized locally and globally for excellence in accountancy and finance education, and for leadership in our chosen areas of specialization. We deliver an outstanding education to our students that meets international standards and is integrative, innovative and experiential. We have an exceptional faculty comprising of chartered accountants, management accountants, and MPhil and PhD degree holders. We launch new programs from time to time by adopting a futuristic approach in view of the fast paced evolutions taking place in the business and corporate world. That is why our graduates are well-equipped to tackle all issues faced by organizations in audit, finance and information systems. We develop leaders that excel in the ever-changing global market place by thinking strategically about solving issues and meeting challenges while harnessing opportunities.

Our approach focuses on the practical application of theory including innovative, career-focused concentrations in our BS program and specialized master program in distinct functional areas. These programs specifically ensure comprehensive coverage of all core areas of audit, finance and information systems and provide a basis to the participants to obtain other professional qualifications like ACCA, CA, CMA, CFA, CIMA etc., and academic qualifications such as MS Accounting and PhD.

At IAA, we are striving for the best quality education for our participants to equip them with skills and requisite knowledge so that they become an asset for any organization.

I invite you to discover more about us by browsing our site at <http://iaa.umt.edu.pk/>. You may call me directly at Ph. No. 042-35212801-10 Ext (356) or contact me via e-mail at iaa.dir@umt.edu.pk

Mohyuddin Tahir Mahmood

FCCA – UK

FCA – Pakistan

Institute of Audit and Accountancy

Introduction

The University of Management and Technology (UMT) has a rich history of academic success and accomplishment. It is well known for upholding a tradition of innovative and challenging programs that meet the requirements of the modern world. UMT is a chartered university and has built a name for imparting high quality education. It has been awarded “W” category by the Higher Education Commission (HEC), thus placing it among the few select universities in the country. UMT students are preferred for job placements in business organizations due to better knowledge and higher competency.

In today's rapidly transforming and dynamic global business world, the importance and depth of areas of audit and finance is well understood and acknowledged by everyone. Keeping this in view, UMT has established the Institute of Audit and Accountancy (IAA) for imparting quality education in the field of finance and auditing. The objective of IAA is to focus on audit and finance by developing new programs that meet today's business requirements and to train students with the requisite knowledge and skills to become leaders in business organizations, both nationally and internationally.

The Institute of Audit and Accountancy (IAA) is known for its high profile faculty comprising of chartered accountants, chartered certified accountants, management accountants and MS finance degree holders who have a blend of teaching and practical exposure. IAA offers undergraduate and graduate programs with specializations in accounting, finance, auditing and information systems. IAA is also planning to launch diploma programs and coaching for various professional qualifications like CA, CIMA, CFA, etc. in the near future.

IAA is committed to produce accounting, audit and finance professionals to compete in a dynamic and challenging business environment. It assures a bright and prosperous future for its students by providing them quality education in the fields of audit and finance.

Career Prospects for IAA Graduates

A wide range of highly rewarding career opportunities are available for IAA graduates in the corporate sector. They are employed as:

- Account Executives
- Account Officers
- Internal Auditors
- Financial Analysts
- Chief Executive Officers
- Chief Accountants

Co-Curricular Activities

The Office of Participants Affairs (OPA) at UMT invites students to join different clubs to develop and promote managerial skills. All students of the University, including those from IAA, take part in the wide range of activities organized by these clubs and societies. Some of these include the Art Club, Debating Society, Leaders Forum, Sport Club, etc.

Extra Curricular Activities

Recreational tours and educational trips are arranged to provide much needed respite from the tough academic routine. Sports days are arranged to provide students with a healthy environment. Matches and tournaments are arranged at intercollegiate and university levels.

Academic Programs

Finance and auditing are the major functions of every organization. The programs designed at IAA will develop knowledge, expertise and skills to enable participants to cope successfully with the challenges posed by the rapidly evolving global business and financial environment. At present, IAA offers the following degrees and professional programs.

MS/MPhil (Weekend)

MS/MPhil in Accounting

Master Programs

Master of Commerce (2 years) with specializations in

– Accounting – Finance – Corporate Governance

Bachelor Programs

BS Accounting – 4 years (For ICom, FA, FSc or equivalent)

BS Accounting – 2 years (For BCom IT or equivalent)

BCom – Honors 4 years (For ICom, A-Level, FA, FSc or equivalent)

BCom – Honors 2 years (For BCom IT or equivalent)

BCom IT – 2 years (For ICom, A-Level, FA, FSc or equivalent)

with specialization in

– Finance – Auditing – Corporate Governance

– Taxation – Islamic Banking

Future Plans

In the near future, IAA will launch diploma programs and coaching for professional qualifications like CA, CIMA, etc.

Vision

To gain recognition as a premier institute of audit and accountancy in the region, by producing professional accountants who will distinguish themselves in their chosen careers, and will become agents of change in the corporate world through best and transparent accounting practices

Mission

To prepare its participants at the undergraduate and graduate levels to successfully compete in a very dynamic and challenging business environment. It focuses to provide quality accountancy education through real world focused teaching and open access to life-long learning which enables our participants to update themselves in critical current issues and modern trends in the accounting profession

MS/MPhil in Accounting

Mission

To develop participants' competencies in accounting, technical, analytical, and research skills needed to become innovative problem solvers when crafting solutions to the challenges encountered in complex global markets.

Objective

The main objective of the program is to enable participants to demonstrate an ability to utilize accounting techniques and methods to solve business problems and to report effectively accounting and financial information to various stakeholders. Participants will also be able to identify ethical issues and learn how to use their own personal values in forming solutions to ethical dilemmas.

Rationale

The emerging global scenario requires financial organizations to look for capable researchers in accounting who are competent of responding to market needs, acting as ethical leaders with the capacity to analyze complex problems and make intelligent, cost effective decisions. This is a unique program that emphasizes qualitative and empirical approach to deal with financial reporting problems in financial and non-financial sectors of Pakistan.

Career Opportunities

MS in Accounting program is a gateway to CIMA, ACCA and ICAEW, leading to PhD in Accounting that can offer rewarding careers in research organizations, financial institutions, i.e., banks, insurance companies, leasing companies, etc. and in the teaching profession.

Curriculum Structure

Duration	Two years
Semester	4
Courses	9+ thesis
Total Credit Hours	33

Course Load Requirement

A regular participant will take course load of maximum nine credit hours in a semester.

Extension Rules

An extension of maximum one year may be given to a participant if he/ she fails to complete either coursework or thesis within the prescribed timeframe of 2 years due to some unforeseen or unavoidable circumstance.

Road Map

Research Methods and Techniques	3
Inferential Statistics	3
Econometrics	3
Management Accounting and Decision Making	3
Corporate Audit and Assurance	3
Financial Reporting and Analysis	3
Accounting for Derivatives and Financial Instruments	3
Professional Ethics and Corporate Governance	3
Corporate Mergers, Acquisitions and Restructuring	

1. Taxation Management

2. International Business and Investment Transactions

Note: Participants can opt for optional courses if they are not interested in completing their thesis

Thesis/ Dissertation

Participants are required to study two courses and start preparing research proposal in the third semester. In the fourth semester, they will exclusively undertake research work leading to a thesis of 6 credit hours. The minimum duration required to complete the research work including final submission of thesis will be six months.

Entrance Requirement

16 years of education in commerce/ business or equivalent with 1st division or 2.5 CGPA out of 4 or equivalent. The candidate must have passed entry test GRE general or NTS with minimum score of 50 percent.

Comparative Study

Presently, MS in Accounting is not offered by any institution/ university in Pakistan.

The University of Lahore and Superior University are offering MS in Accounting and Finance, a mixture of accounting and finance courses.

MS Commerce

Introduction

The emerging global scenario necessitates the organizations to look for capable researchers in commerce, competent of responding to the market need and who are ethical leaders, having the capacity to analyze the complex problems and make intelligent, cost effective decisions. This is a unique program that emphasizes qualitative and empirical approach to deal with risk and return trade-off problems in financial and non financial sectors of Pakistan.

Objective of Program

To acquaint the participants with recent trends in commerce & management

To equip them with required skills that will help them to critically understand and interpret business realities

To identify ethical issues

To learn how to use their own professional judgment in forming solutions in ethical dilemmas

Career Opportunities

MS Commerce program is a gateway to PhD in Commerce that can offer rewarding careers especially in academia, research organizations and also in corporate sector like banks, insurance companies, leasing companies, various commercial sectors etc

Program Details

Duration: Two years

Semester: 4

Courses: 8+ thesis

Total Credit Hours 30

Course load Requirement

A regular participant will take course load of maximum nine credit hours in a semester

Road Map for MS Commerce

Research Methods and Techniques

Inferential Statistics

Corporate Governance

Trade, Investment and Financial Issues

Investment and Portfolio Management

Management Accounting and Decision making

Strategic Business Management

Global Economic Issues

Global Banking and Capital Markets

Corporate Mergers, Acquisitions and Restructuring

Econometrics

Thesis/ Dissertation

Participants are required start preparing research proposal in the third semester than in the forth semester, they will exclusively undertake research work leading to a thesis if 6 credit hours. The minimum duration to complete the research work including final submission of thesis will be six months.

Note: Participants not interested in PhD may take optional papers in lieu of thesis.

Entrance Requirement

16 years of education in commerce/business or equivalent with 1st division or 3 CGPA out of 4 or equivalent. The candidate must have passed entry test GRE general or NTS with minimum score of 50 percent.

Master of Commerce (MCom)

Developing Business and Finance Professionals

Introduction

Get a master of commerce degree that will not only thrust you to the next level of professional excellence, but will also provide you with a comprehensive coverage of ACCA syllabus and also provide an opportunity to specialize in Accounting, Finance, or Corporate Governance.

The Master of Commerce program aims to produce well-trained professionals who have the capacity for independent thought and work, as well as for teamwork. Students are given education and encouragement to develop their full potential, which allows them to make an intellectual contribution at the highest levels of business, government and the community. There has always been a great demand for accounting and finance executives. The innovative MCom program develops critical and conceptual thinking skills in the participants. It also provides them exposure to cutting-edge business/industrial issues being faced by the real world and provides their solutions. The program has been devised keeping in view the current market needs, economy requirements and the globalization demands.

Objectives

The program is designed to enable the students to:

- Obtain professional accountancy qualification (ACCA and ICMAP) during or shortly after the completion of their degrees.
- Acquire knowledge and develop understanding of the areas that are fundamental to the administration of individual businesses as well as organizations of all kinds.
- Learn established as well as new concepts and develop skills in accounting and related fields.
- Pursue a professional career as an analyst, consultant or manager in the business and financial sectors.
- Excel in their professional careers pertaining to accounting, auditing and taxation.

Career Opportunities

The successful graduates of the MCom program can look for jobs and career related growth opportunities in areas like

- Business/industry
- Accounting firms
- Government departments
- Consulting firms

- Insurance companies
- Banking sector
- NGO's

Salient Features

- Recognized master degree
- Complete coverage of ACCA courses
- Latest teaching and learning methodologies
- Highly qualified and experienced faculty
- Practical world exposure

Specializations

The Institute of Audit and Accountancy (IAA) offers specializations in accounting, finance and corporate governance.

Program Duration

- Two years (four-semester) program for BCom graduates
- One year program for BCom Honors degree holders

Exemptions

The following exemptions are available for our MCom program.

ACCA (UK)

FUNDAMENTAL LEVEL

F1	Accountant in Business (AB)	Exempted
F2	Management Accounting (MA)	Exempted
F3	Financial Accounting (FA)	Exempted
F4	Corporate and Business Law (CL)	Exempted

ICMAP (Pak)

Stage 1

- | | | |
|----|--------------------------------------|----------|
| 1. | Fundamentals of Financial Accounting | Exempted |
| 2. | Business Economics | Exempted |
| 3. | Business Law | Exempted |
| 4. | Business English | Exempted |

Stage 2

- | | | |
|----|--|----------|
| 1. | Fundamentals of Cost and Management Accounting | Exempted |
| 2. | Management and Marketing | Exempted |
| 3. | B. Mathematics and Statistics | Exempted |
| 4. | Introduction to Information Technology | Exempted |

Stage3

- | | | |
|----|---------------------------------------|----------|
| 1. | Presentation and Communication Skills | Exempted |
|----|---------------------------------------|----------|

Eligibility Criteria

BCom or equivalent from a recognized university with minimum second division.

Admission Criteria

The Admission Committee processes applications on the basis of merit as determined by the applicant's previous academic record and performance in the interview. Different weights are assigned to these selection criteria.

O-Level/Matriculation Marks	20%
A-Level/Intermediate Marks	20%
Graduation Marks	30%

Interview 25%

Additional five points will be awarded to all master degree holders.

Job Placement

MCom is competitively valuable for employment in the fields of accountancy and finance. The Office of Participants Affairs (OPA) ensures job placement.

Road Map MCom Program

Semester I

Financial Accounting	3
Management Accounting	3
Financial Communication	3
International Economics	3
Accountant in Business	3
Total	15

Semester II

Financial Reporting	3
Financial Management	3
Corporate and Business Law	3
Performance Management	3
Marketing Management	3
Total	15

Semester III

Advanced Performance Management	3
Advanced Financial Management	3
Audit and Assurance	3

Two Courses from Specialization 3+3

Total 15

Semester IV

Business Taxation 3

Business Information for Management 3

Business Analysis 3

Two Courses from Specialization 3+3

Total 15

Note: Final Project/Thesis having 3 credit hours will be offered after completion of 4th Semester. Internship will be offered in the final year

Specializations

Auditing

1. Internal Control and Design
2. Forensic Auditing
3. Computer Audit and Control
4. Internal Audit Risk Management
5. Auditing for Specific Industries

Finance

1. Financial Markets
2. Investment Portfolio Management

3. Financial Institutions
4. International Finance
5. Business Valuations
6. Financial Derivatives
7. Capital Budgeting and Long Term Investment Decisions
8. Banking Risk Management
9. Leasing and Insurance Management

Corporate Governance

1. Corporate Governance Best Practices
2. SECP Regulations / Prudential Regulations
3. Governance and Family Business
4. Regulatory Authorities (NEPRA, OGRA, PEMRA)
5. Project Management
6. Operation Management

Islamic Banking

1. Islamic Economics and Finance
2. Islamic Commercial Law
3. Islamic Modes and Financing
4. Islamic Banking Operations
5. Islamic Insurance System

Taxation

1. Corporate Tax
2. Sales Tax, Excise duty and Customs

3. Local & Provincial Taxes

4. Global Taxation

Semster 4

Duration 02 years

Total Credit Hours 63

BS Accounting – 2 years

For BCom Students

Mission

To provide a program of professional accounting education that will enable BCom (2 years) graduates to become productive and contributing members of the accounting profession and provide them with a foundation upon which continued life-long learning can be built.

Objective

The core objective of 2-year BS Accounting Degree is to support B Com degree holders with 16 years of academic education as per required by HEC.

BCom graduates can meet this objective by understanding of financial and managerial accounting, commercial law, taxation, auditing, accounting framework, and other elements of accounting as they apply to business enterprises, governmental agencies, and not-for-profit organizations

Rationale

The emphasized focus behind this draft is to facilitate 2 years BCom students with quality education and standardization at national and international intensity. This proposed 2 year degree will help these BCom students by continuing their higher education locally and abroad while providing support to compete for the international job market.

After completing this degree, the BCom students will achieve uniformity as per the HEC requirement of 16 years of education at graduate level. The course contents are aligned to current needs of national and international market, which provides professional and character development of these students.

Career Opportunities

After getting the relevant qualification, candidates will be able to serve in the following areas:

- Business/industry

- Accounting firms
- Government departments
- Consulting firms
- Insurance companies
- Banking sector
- NGO's

Moreover, they are also able to get admitted their selves in the MS Program which could lead them to PhD more easily and promptly.

BS Accounting Roadmap (2 years Program)

Semester I

1 Accounting Software	3
2 Management Accounting	3
Financial Management	3
Financial English/Business Communication 2	3
Information System	3
Islamic Studies 2	3

Semester 2

Strategic Management Accounting	3
Financial Analysis	3
Audit and Assurance Services	3
Production Management	3
Leadership Skills	3

Semester 3

Advanced Corporate Reporting	3
Corporate Finance	3
Two Specialization Courses	
Corporate and Secretarial Practices	3

Semester 4

Project/Thesis	3
Three Specialization Courses	
Business Strategy	3
Corporate Governance	3

BS Accounting Roadmap

(4 years Program)

Semester I

AC-130	Financial Accounting	3
EN-110	English 1	3
IS-126	Intro to Comp Applications	3
QM-110	Business Mathematics	3
SC-160	Intro to Sociology	3
	Total	15

Semester 2

AC-220	Financial Reporting	3
EC-225	Business Economics	3
EN-120	English 2	3

QM-120	Intro to Statistics	3
SC-165	Intro to Psychology	3
	Total	15

Semester 3

AC-240	Accounting Software	3
MG-221	Accountant in Business	3
EN-235	Business Communication 1	3
QM-210	Statistical Inferences	3
MG-230	Business Laws	3
SC-120	Islamic Studies 1	3
	Total	18

Semester 4

AC-230	Cost Accounting	3
AC-305	Advanced Corporate Reporting	3
FN-320	Financial Analysis	3
EN-245	Business Communication 2	3
IS-241	Information System	3
QM-346	Production Management	3
	Total	18

Semester 5

AC-260	Management Accounting	3
FN-340	Business Finance	3
AU- 370	Audit and Internal Control	3
CL-340	Business Taxation	3

MK-211	Fundamentals of Marketing	3
SC-220	Islamic Studies 2	3
	Total	18

Semester 6

AC-310	Strategic Management Accounting	3
FN-490	Financial Management and Control	3
AU-470	Audit and Assurance Services	3
SC-170	Intro to Philosophy	3
SD-411	Leadership Skills	3
	Total	15

Semester 7

FN-496	Corporate Finance	3
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Two Specialization courses

CL-450	Corporate and Secretarial Practices	3
SC-180	Pakistan Studies	3
	Total	15

Semester 8

SD-490	Project / Thesis	3
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Three Specialization Courses

MG-400	Business Strategy	3
CL-400	Corporate Governance	3
	Total	18

Specializations

Finance

- | | | |
|-----|---|--------|
| 1. | Financial Markets | FN-410 |
| 2. | Financial Derivatives | FN-411 |
| 3. | Public Finance | FN-495 |
| 4. | International Trade and Banking | FN-412 |
| 5. | Capital Budgeting and Long term
Investment Decisions | FN-413 |
| 6. | Investment Portfolio Management | FN-420 |
| 7. | Islamic Trade and Contracts | FN-414 |
| 8. | International Finance | FN-421 |
| 9. | Business Valuations | FN-422 |
| 10. | Banking Risk Management | FN-423 |

Auditing

- | | | |
|----|----------------------------------|--------|
| 1. | Internal Control and Design | AU-440 |
| 2. | Forensic Auditing | AU-441 |
| 3. | Computer Audit and Control | AU-442 |
| 4. | Internal Audit Risk Management | AU-443 |
| 5. | Auditing for Specific Industries | AU-444 |

Taxation

- | | |
|----|------------------------------------|
| 1. | Corporate Tax |
| 2. | Sales Tax, Excise Duty and Customs |
| 3. | Local and Provincial Taxes |
| 4. | Global Taxation |

Note: Internship will be offered in the final year.

Total Courses:	44
Duration:	4 years
Total Credit Hours:	132

BCom (Honors)

Pathway 1: 4-year Program for Intermediate or equivalent

Pathway 2: 2-year Program for 2-year BCom (IT)

Mission

To provide the participants of BCom proficiency in financial reporting framework and lead them to higher education opportunities and job placement in the field of commerce, banking and finance.

Objectives

BCom will equip the participants with:

- the roles to be played by accountants in society, providing and ensuring the integrity of financial and other information;
- recording, analysis, and interpretation of historical and prospective financial and non-financial information;
- designing and applying the techniques of information technology to financial and non-financial information management;
- following ethical and regulatory environment for accountants;
- establishing business processes and conducting analysis;
- designing and implementing internal controls and security; and
- managing risk assessment and assurance for financial and non-financial reporting.

Rationale

- To meet the HEC requirements for undergraduate programs
- To provide modern commerce education to the youth of Pakistan
- To cater for the existing and upcoming demand for commerce graduates

Career Opportunities

The program leads students to higher education opportunities in the field of business and commerce such as ACCA, CA, ACMA, CISA, CIA, CIMA, MS in Accounting and MCom (H), etc. It allows students to enter the profession at entry level positions in various business organizations such as banking, insurance and manufacturing as accounts officers, import officers, tax consultants and brokers, etc.

BCom 2-years (14-year degree program)

The BCom 4-year program has been designed in such a way that the 1st four semesters (1st 2 years) are equivalent to BCom 2 years being offered by University of the Punjab. The students desirous of 2-year BCom or those who wish to transfer to MCom can get the degree of BCom 2-years upon the completion of 1st two years (21 courses).

Road Map BCom - 4 years Program

Semester I

AC-130	Fundamentals of Accounting	3
MG-110	Business Environment	3
EN-110	English Grammar and Comprehension	3
IS-126	Computer Applications in Business	3
SC-120	Islamic Studies	3
	Total	15

Semester 2

EC-210	Micro Economics	3
EN-120	Spoken English	3
QM-110	Business Mathematics	3
MG-230	Business Laws	3
SC-180	Pak Studies	3
	Total	15

Semester 3

AC-210	Advanced Financial Accounting	3
EC-220	Macro Economics	3
EC-310	Money and Banking	3
QM-120	Intro to Statistics	3
SD-420	Foreign Language	
	Total	15

Semester 4

AC-230	Cost Accounting	3
AU-370	Auditing and Internal Control	3
FN-340	Principles of Finance	3
EC-315	Economy of Pakistan	3
EN-235	Business Communication and Report Writing	3
CL-340	Business Taxation	3
	Total	18

Semester 5

AC-220	Corporate Reporting	3
MG-120	Principles of Management	3
EN-350	Financial Communication	3
QM-346	Production Management	3
MK-211	Introduction to Marketing	3
	Total	15

Semester 6

AC-305	Advanced Corporate Reporting	3
FN-490	Financial Management	3
MG-230	Human Resource Management	3
EC- 400	International Economics	3
SD-430	Leadership Skills	3
	Total	15

Semester 7

AC-260	Management Accounting	3
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2 Courses of Specialization

AC-240	Accounting Software	3
CL-450	Corporate and Secretarial Practices	3
	Total	15

Semester 8

AC-350	Performance Management	3
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AU-470	Audit and Assurance	3
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2 Courses of Specialization

MG-365	Entrepreneurship	3
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CL-460	Corporate Taxation	3
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	Total	18
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Specialization in BCom - 4 Years

Specialization in Banking

- Islamic Banking and Finance
- Banking Laws and Practices

- Consumer Banking
- Banking Credit and Risk Management
- Leasing and Micro Financing
- Commercial and Investment Banking
- International Trade & Foreign Exchange Operations

Specialization in Finance

- Corporate Finance
- Investment Analysis and Portfolio Management
- Money and Capital Markets
- Risk Management
- International Finance
- Financial Derivatives
- Financial Statement Analysis
- Advanced Financial Management
- Capital Budgeting and Long Term Financing Decisions

Specialization in Taxation

- Corporate Tax
- Sales Tax, Excise Duty and Customs
- Local and Provincial Taxes
- Global Taxation

Total Courses: 42

Duration: 4 years

Total Credit Hours: 126

Road Map BCom 2- year Program

Semester 1

AC-220	Corporate Reporting	3
MG-120	Principles of Management	3
EN-350	Financial Communication	3
QM-346	Production Management	3
MK-211	Introduction to Marketing	3
	Total	15

Semester 2

AC-305	Advanced Corporate Reporting	3
FN-490	Financial Management	3
MG-230	Human Resource Management	3
EC- 400	International Economics	3
SD-430	Leadership Skills	3
	Total	15

Semester 3

AC-260	Management Accounting	3
2 Courses of Specialization		
AC-240	Accounting Software	3
CL-450	Corporate and Secretarial Practices	3
	Total	15

Semester 4

AC-350	Performance Management	3
AU-470	Audit and Assurance 3	
2 Courses of Specialization		
MG-365	Entrepreneurship	3
CL-460	Corporate Taxation	3
Total		18

Specialization in BCom 2-Year Program

Specialization in Banking

- Islamic Banking and Finance
- Banking Laws and Practices
- Consumer Banking
- Banking Credit and Risk Management
- Leasing and Micro Financing
- Commercial and Investment Banking
- International Trade and Foreign Exchange Operations

Specialization in Finance

- Corporate Finance
- Investment Analysis and Portfolio Management
- Money and Capital Markets
- Risk Management
- International Finance
- Financial Derivatives
- Financial Statement Analysis

- Advanced Financial Management
- Capital Budgeting and Long Term Financing Decisions

Specialization in Taxation

- Corporate Tax
- Sales Tax, Excise Duty and Customs
- Local and Provincial Taxes
- Global Taxation

Total Courses: 21

Duration: 2 years

Total Credit Hours: 63

Permanent Faculty

Mohyuddin Tahir Mahmood

Associate Professor & Director
Institute of Audit and Accountancy
FCCA (UK), FCA (Pakistan)

Farah Yasser

Lecturer
ACMA, ICMAP (Pakistan), MCom (KU)

Muhammad Gulzar

Lecturer
ACMA, ICMAP (Pakistan)

Taha Fraz Haider

Lecturer
ACCA (UK)

Zohair Farooq Malik

Lecturer
ACMA, ICMAP (Pakistan)

**Institute of
Applied Sciences**

Message from the Director

At IAS, we believe in educating “T-shaped” individuals, i.e., those who have deep knowledge in one discipline but are able to collaborate across the boundaries of several knowledge disciplines.

To address current and future societal challenges, knowledge from fundamental sciences, humanities, information / communication technology and business education must be all linked through the application of engineering and technology principles.

Let me share what IAS offers!

As long as there is sunshine, those trained in the emerging field of solar energy technology will have a power source fueling their business life, work life and home life. BS program in Renewable Energy Technology and Business prepares students for careers in helping the global and Pakistani environment while working in a hands-on business with very good future return-on investment.

Social Media, Internet media and Digital media in a flat world is providing a playing field for all citizens of the world to discover new ideas, to share for fun or for flare and develop to earn profit. BS program in Mobile Technology and Business serves the purpose.

Next generation aviation leaders at UMT understand the complexities of technology, business and society. With a BS degree, they take their education beyond the curriculum. Aviation graduates evolve into perfect entities through a synergy of academic education and various co-curricular training activities with a holistic mind-set and a professional hand-set.

I want to use this opportunity to assure you that while at UMT, you will make new discoveries, invent new ways to recreate, and share knowledge to design and develop yourself, your family and your community.

WELCOME; come on board and define yourself.

Dr Rashid Kausar

Institute of Applied Sciences (IAS)

Introduction

Technology is changing at a rapid pace and there is an immense demand for professionals who have the right combination of business and technology skill in emerging interdisciplinary fields like Mobile, Sustainable Energy, Forensic Sciences and Aviation. IAS was established to fulfill the demands of such professionals.

The programs offered by the Institute are technology-based and as such require state-of-the-art facilities. UMT is equipped with both Mac and Windows-based computers for mobile computing. It will offer aircraft flying and maintenance licenses for its programs. It is also in the process of establishing a world class flight simulation setup at UMT. Once this has been accomplished, UMT will be the first university in Pakistan to have a Civil Aviation Authority approved flight simulation setup. The flight simulation course on this setup will include a 10 hrs basic training on one of the most modern Flight Simulator available in the world.

IAS values corporate and government liaisons and has either already established or is in the process of establishing links with PIA, ATS, AirBlue, etc. It has strong links with leading software houses in Pakistan and its supervisory academic council members hail from prestigious national and international academic and professional institutions.

Academic Programs

The Institute's goal is to provide top notch interdisciplinary programs in emerging technologies. Starting from Fall 2012, it will also offer four-year BS degree programs in Mobile Business and Technology, and Sustainable Energy Business and Technology. Both programs will offer state of the art courses in Mobile and Sustainable Energy Technology.

Since Fall 2011, the Department of Aviation at IAS is offering a four-year BS degree program in Aviation Management with a flying license. The Department will also offer another four-year BS degree program from Fall 2012 in Aviation Technology with an aircraft maintenance license.

Research Initiatives

The Institute sent a preliminary research proposal to ICT R&D Fund about Boundaryless & Accessible Technology for Human Information and Knowledge (BATHIK). The initial proposal has been approved by ICT and a more detailed proposal application is in the works.

The Aviation Department has designed six new courses with proper research and academic material to lay a firm foundation of our programs. The Department is now working on Flight Simulator Specifications and Virtual ATC techniques to enhance knowledge of the students regarding these important aspects of commercial aviation.

Corporate Liaison

- Links with leading software houses and corporate professionals have already been established for Mobile Business & Technology Program
- Corporate linkage with ATS (a CAA authorized institute of aviation licensing) has been established. ATS will provide BS Aviation Technology students a much demanded License that can enhance their job prospects.
- Relationship with Gliding Club of Pakistan has been established.
- The IAS is working towards establish links with PIA.
- It is also in the process of establishing a collaborative relationship with AIR BLUE and Qatar Aviation.

Clubs

- UMT MAPPS Club

This club aims to promote Mobile Business and Technology BS degree Program.

- UMT Aviation Club

This club is for promoting Aviation Management and Aviation Technology BS degree Programs.

Vision

To offer interdisciplinary degree programs focusing on business aspects as well as on technology in emerging fields fulfilling the needs of the service based economy

Mission

To produce technology professionals, entrepreneurs and managers who will either launch their own companies or work in startups and established companies in new business ventures in the Internet, Mobile, Sustainable Energy and Forensic Science Sectors and offer state of the art aviation management and technology programs to meet rapidly growing demand for professionals in this exciting area.

BS Mobile Business and Technology

Mission Statement

To produce technology entrepreneurs and managers who will either launch their own companies or will work at startups and established companies in new business ventures in the Internet, Mobile and Enterprise Software Sectors.

Program Structure and Objectives

The Bachelor of Mobile Business & Technology at UMT is a four year, 132 credit hours program. It is designed to provide breadth and depth on both the business and technology side of Mobile Technology. Its purpose is to produce well trained professionals who will have state of the art business and technology knowledge about the rapidly expanding Mobile Technology field. This is an interdisciplinary program with courses in Mobile Computing, Web 2.0, Cloud Computing, IT Entrepreneurship, Information Systems, and Management of Technology etc.

The program objective is to produce professionals with the following competencies.

1. The graduates of this program will have state of the art knowledge about different mobile devices architectures and they will be able to distinguish these architectures from traditional desktop architectures.
2. They will have the latest knowledge about the current limitations of mobile devices and mobile paradigm.
3. They will have in-depth Knowledge about the state of current mobile business industry and will be trained to figure out how advances in mobile technology can be utilized in different industry sectors like education, finance, social media, video gaming etc.
4. They will be able to use advances in mobile technology to enhance business performance and bring organizational change.
5. They will be able to harness mobile technology for new business ideas as entrepreneurs.
6. They will be trained to convert a mobile application idea into a financially viable business case.
7. They will know the legal and ethical implications of using mobile technology in business.
8. They will have state of the art knowledge about Web 2.0 and Cloud Computing in Mobile Technology and Business context.

Career Prospects

The program is centered around the emerging Mobile and Web 2.0 technology sectors; one of the fastest growing areas in both business and technology. The graduates of this program will have the essential personal and professional skills necessary to assess the potential commercial viability of mobile technology applications. They will also have the essential technical skills to either build or supervise state of the art mobile applications. They will be able to work at startups and at established companies launching new businesses in the Internet and mobile software sectors. They will also be able to launch their own mobile technology ventures.

Admission Requirements

Higher Secondary School Certificate (Pre-engineering) or General Science from any Board of Intermediate and Secondary Education with minimum 50% marks or an equivalent qualification like Overseas High School Certificate, A-level or International Baccalaureate with Physics, Chemistry and Mathematics.

List of Courses

Computing Courses, 15 Credit Hours

1. Programming Fundamentals
2. Object Oriented Programming
3. Data Structures & Algorithms
4. Enterprise and Mobile Database Management Systems
5. Analysis of Algorithms

Business Courses, 30 Credit Hours

1. Principle of Management
2. Principle of Marketing
3. Computer Applications in Business
4. Organizational Behavior
5. Managing Human Capital
6. Leadership Skills
7. IT Entrepreneurship

8. Internet Marketing
9. Technology and Entrepreneurial Strategy
10. Project Management

Information Systems Courses, 15 Credit Hours

1. Web Marketing & Analytics
2. E-Business
3. Management Information Systems
4. System Analysis & Design
5. Data Communication & Networking

Mobile Technology Core Courses, 15 Credit Hours

1. Evolution of Mobile Technology
2. Mobile Business Models
3. Human Computer Interaction
4. Web 2.0 and Mobile Web Technologies
5. Mobile Middleware Concepts and Technologies

Mobile Technology Electives, 9 Credit Hours

(Chose 3 Courses from the following electives)

1. Android Phone & Tablet Programming
2. iPhone & iPad Programming
3. Cloud Computing
4. Enterprise and Mobile Operating Systems
5. Windows Phone Programming
6. Blackberry Programming

Humanities & Mathematics Courses, 39 Credit Hours

1. English Grammar & Comprehension
2. Technical/Business Writing
3. Spoken English
4. Business Presentations
5. Introduction to Sociology
6. Introduction to Psychology
7. Pakistan & Islamic Studies
8. Business Mathematics
9. Discrete Mathematics
10. Applied Calculus
11. Introduction to Statistics
12. Introduction to Economics
13. Business & Technology Ethics and Law

Research Project and Internship,

9 Credit Hours

1. Mobile business & technology

Project (6 Cr Hrs)

2. Internship (6 - 8 weeks) (3 Cr Hrs)

Curriculum Structure

Duration: 4 Years

Credit Hours: 132

Number of Courses: 41

BS Sustainable Energy Business & Technology

Mission Statement

To produce technology professionals, entrepreneurs and managers who will either launch their own companies or will work at startups and established companies in new business ventures in the Sustainable Energy especially Solar Technology Sector.

Program Structure and Objectives

The Bachelor of Sustainable Energy Business & Technology (SEBT) at UMT is a four year, 132 credit hours program. It is designed to provide breadth and depth on both the business and technology side of Photovoltaics and Solar Technology. Its purpose is to provide students with educational path to careers in virtually any business or industry that seeks to identify methods of becoming more sustainable through the use of Solar Technology. Also environmentally friendly nature of solar energy products has made it a very attractive alternative as compared to petrol or diesel based electricity generators. Decreasing cost of solar panels is another factor in its popularity. Its purpose is to produce well trained professionals who will have state of the art business and technology knowledge about rapidly expanding photovoltaic Solar Technology systems. This is an interdisciplinary program with courses in basic and applied science related to energy and sustainability, management, marketing and Management of Technology etc.

The program objective is to produce professionals with the following competencies.

1. The graduates of this program will have state of the art knowledge about different solar devices and their pros and cons.
2. They will have in-depth Knowledge about the state of current solar business industry and will be trained to figure out how solar technology will be used to deploy renewable energy technologies in homes and buildings.
3. They will know the legal and ethical implications of using solar technology in business.

Career Prospects

Worldwide, Solar industry is growing at approximately 30% each year. Recent studies, publications and media releases indicate that large numbers of jobs are being created in all aspects of photovoltaic and renewable energy field. Job opportunities exist in PV system design and implementation for remote areas, quality control, grid-connected systems, fault diagnosis and testing, maintenance, technology development, marketing, financing, policy, education, project management, etc. The graduates of this program will have the essential personal and professional skills necessary to assess the potential commercial viability of solar technology applications. In Pakistan, recent electricity crisis and lack of inexpensive alternatives due to high fuel costs has created an increasing demand for a workforce with knowledge and expertise in solar energy. The graduates will not only be able to start their own Solar based venture, but also be in high demand in industry due to their breadth and depth of knowledge.

Admission Requirements

Higher Secondary School Certificate (Pre-engineering) or General Science from any Board of Intermediate and Secondary Education with minimum 50% marks or an equivalent qualification like Overseas High School Certificate, A-level or International Baccalaureate with Physics, Chemistry and Mathematics.

List of Courses

Foundation Courses 15 Credit Hours

1. Circuit Analysis
2. Power System Fundamentals
3. Electrical Machines
4. Instrumentation and Measurements
5. Electronic Devices and Circuits

Business Courses 30 Credit Hours

1. Principle of Management
2. Principle of Marketing
3. Internet Marketing
4. Computer Applications in Business
5. Organizational Behavior
6. Managing Human Capital
7. Leadership Skills
8. Technology Entrepreneurship
9. Technology and Entrepreneurial Strategy
10. Project Management

Computing and Information Systems Courses 15 Credit Hours

1. Programming Fundamentals
2. Web Programming and E-Marketing
3. E-Business

Solar Technology Core Courses 18 Credit Hours

1. Introduction to Sustainable Energy Technologies
2. Solar Cells
3. Applied Photovoltaics
4. Photovoltaic System Design & Installation
5. Grid-Connected Photovoltaic Systems
6. Solar Thermal Energy Design

Solar Technology Electives 6 Credit Hours

(Chose 2 Courses from the following electives)

1. Sustainable Building Design, Construction and Operations
2. Wind Energy
3. Renewable Energy Law and Policy

Humanities & Mathematics Courses

39 Credit Hours

1. English Grammar & Comprehension
2. Technical/Business Writing
3. Spoken English
4. Applied Physics
5. Applied Chemistry

6. Applied Calculus
7. Probability & Statistics
8. Linear Algebra & Differential Equations
9. Introduction to Economics
10. Introduction to Sociology
11. Introduction to Psychology
12. Pakistan & Islamic Studies
13. Business & Technology Ethics and Law

Research Project and Internship 9 Credit Hours

1. Sustainable Business & Technology Project
(6 Cr Hrs)
2. Internship (6 - 8 weeks) (3 Cr Hrs)

Curriculum Structure

Duration: 4 Years

Credit Hours: 132

Number of Courses: 41

BS Aviation Technology

Rationale

Air travel provides safety, comfort and the most convenient means of transportation in airplanes and helicopters helping travelers in reaching the required destination in the shortest possible time in an affordable manner. The growth of the aviation business worldwide has provided a quantum jump in all aviation related fields ranging from manufacturing of aircraft to the development of related infrastructure and maintenance of various aviation equipments. Technology has become a deciding factor in running aviation systems efficiently and effectively. Due to advanced growth in commercial aviation, the demand for people having the required professional knowledge and skills has risen. At present, very few universities are offering aviation courses in the fields of aviation technology. The Bachelors of Science in Aviation Technology provides a wide range of specialized aviation courses coupled with solid general education and management courses. The program provides majors in Airframe and Power Plant (A&P) and Avionics Systems.

Mission

To meet the needs of the continually adapting educational and business environment with emphasis on aviation technology.

Aim

To equip BS Aviation Technology students with aviation technology knowledge and skill for placement in professional jobs in the competitive and growing aviation industry.

Objectives

The BS Aviation Technology degree aims to:

- establish a world class Aviation Department at UMT;
- enroll the best aviation instructors available;
- formulate easy and competitive syllabus;
- produce the best candidates to serve in the ever growing and competitive aviation industry;
- provide best resources in all technical trades of the aviation sector;
- train graduates to conduct themselves professionally and ethically, and promote a proficient technical image;
- impart proficiency in automation, complex equipment and technically challenging systems and with the verification of status, level and programming of automated systems;

- maintain safe operating conditions in all geographical areas and flying conditions;
- present ideas, directions and operations effectively and concisely in written and oral communications;
- use effective stress-management strategies.

Program Description

The Aviation Department at Institute of Applied sciences (IAS) offers the four-year BS Aviation Technology program that provides the necessary educational background for aviation industry professionals to solve problems within the field of aviation including the airlines, corporate aviation, general aviation, and aircraft maintenance. Aviation Technology graduates gain an understanding of the various complexities facing the industry through a breadth of aviation technology industry related courses. They also gain an understanding of statistics and research methods, and how they may be applied in research to solve problems within the aviation industry. The program provides graduates with the knowledge and skills that prepare them for the aviation industry, aviation related government jobs, research, development and inventions in the field of aviation. The Bachelors of Science in Aviation Technology provides a wide range of specialized aviation courses coupled with solid general education and management courses. The program provides majors in Airframe and Power Plant (A&P) and Avionics Systems. Aviation Technology graduates may become professional aircraft designers, aircraft maintenance specialists and more.

Professional Preparation

A new generation of leaders is needed in aircraft designing, aircraft maintenance, etc. The current generation of professionals is either overworked or rapidly approaching retirement age. Equipped with an aviation technology degree, graduates will be qualified to fill such vacancies. This program also provides a comprehensive background in aviation studies, technology and basic sciences which is appropriate for careers in aero modeling, air, aircraft maintenance, and fiscal aspects of aviation technologies.

The BS Aviation Technology degree gives you a competitive edge and puts you at the leading edge of aviation training. As a graduate of this program, you will be well-positioned to compete in the global market as a professional aviator in general aviation and with regional air carriers, later progressing to corporate aviation and major airlines. The breadth and depth of the program mean that you could also pursue exciting careers in government regulatory agencies, airport authorities, flight test and evaluation, aircraft manufacture and marketing, and the aviation insurance industry.

In addition to traditional technological and flight competencies, the aviation industry is increasingly demanding management and interpersonal skills. The BS Aviation Technology helps develop these competencies and the result leads to progression in aviation industry. This degree program is ideally positioned to meet the future requirements of the aviation world and aerospace industry. Consequently, career options will increase with experience and many graduates can expect a progression to higher ranks over time. You will also have the opportunity to pursue additional studies at the post graduate level abroad.

The Outcome

The BS Aviation Technology degree prepares students to work in a public or private airport or a general aviation company. Graduates will be able to:

- demonstrate a comprehensive understanding and appropriate application of aerospace principles, airplane design, airplane characteristics, operational limitations, aerodynamic principles and airplane properties for a variety of airplanes and designs;
- conduct themselves professionally and ethically while promoting a professional aviator image;
- demonstrate appropriate and effective decision-making skills;
- demonstrate effective leadership and motivation skills;
- work as Aircraft Maintenance Personnel;
- work as Logistics Engineer;
- comprehend the role of technology in aviation business including technical planning and forecasting;
- easily acquire the position of Technical Assistant Engineer in an aviation related organization;
- analyze the growth of the major apparatuses of the aviation industry at the national and international levels;
- analyze the current structure of the aviation industry including general aviation, the airlines, corporate aviation, airports, original equipment manufacturers (OEMS), etc.;
- describe the impact of limited resources and airport capacity on the growth of the aviation industry;
- make technological innovations;
- understand the causes of noise generation and procedures for noise abatement;
- apply land use and facilities planning practices to airports and general aviation facilities;
- apply technology to increase efficiency and security in airports.

Course Plan

Credit Hours	130
Total Courses	43 + 1 Project and Internship report
Total Semesters:	8

Eligibility

FS c (Pre-eng), ICS with Physics and Math

Course Offered

Semester 01

Subjects	Credit Hours
Aviation Law	3
Advanced Aerodynamics	3
Introduction to Aviation	3
English 1	3
Aviation Weather	3

Semester 02

Mathematics-II	3
Flight Control Sys	2+1
Aircraft Weight and Balance	2+1
English Composition and Literature	3
Pakistan Studies	3
Compressed Fluid Dynamics	3+1

Semester 03

Flight Operations I	3
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Aircraft Structures	3
Fluency With Information Technology	1+2
Engineering Drawing	1+2
Thermodynamics	3
Essentials of Aviation Technology	3

Semester 04

Aircraft Instruments and Radio Navigation Aids	3
Computer Applications in Technology	1+2
Flight Navigation	2+1
Aircraft Electronics	2+1
Technical report Writing	3

Semester 05

Chemistry of Structures	2+1
Reciprocating Engines	1+2
Communication and Navigation Systems	2+1
Fiscal aspects of Aviation Engineering	3
Advanced Instruments and Avionics	3

Semester 06

Maintenance Lab	3
Aircraft Fluid Power and Landing Gear Systems	3
Propellers	2+1
Fixed Wing Aircraft – Turbine	2+1
Workshop Technology	1+2
Product Design and Development	3

Semester 07

Aviation Hanger Lab (on real air craft)	1+2
Composite Materials and Procedures	1+2
Helicopters	2+1
Compressed Fluid Dynamics	2+1
Aircraft Fluid Power and Landing Gear Sys	2+1
Project	3

Semester 08

Non-Destructive Testing	2+1
Quality Control and Management	3
Airline Maintenance Procedures and Management	3
Internship	3

Note: These courses are subject to change

BS Aviation Management

Rationale

Air travel is a form of transportation in vehicles (such as airplanes and helicopters) that can sustain flight. It provides safety, comfort and the most convenient means of reaching the required destination in the shortest possible time in an affordable manner. The growth of the aviation business worldwide has provided a quantum jump in all aviation related fields ranging from manufacturing of aircraft to the development of related infrastructure and management of various aviation activities. To run the aviation systems efficiently and effectively, human resource development has become a deciding factor. Due to the advanced growth in commercial aviation, the demand for people having the required professional knowledge and skills has risen. At present, very few universities are offering aviation courses in the fields of aviation management and technology.

Mission

To meet the needs of the continually adapting environment of education and business with emphasis on aviation.

Aim

To equip BAM students to get aviation management jobs in the competitive and growing aviation industry.

Objectives

The BS Aviation Management degree aims to achieve the following objectives:

- Establish a world class Aviation Department at UMT
- Enroll the best aviation instructors that are available
- Formulate easy and competitive syllabus
- Produce the best candidates to serve in the ever growing and competitive aviation industry
- Provide best resources in all technical trades of aviation sector (Flight Simulators for Airline/General Aviation Pilots).

Program offers CAA Approved Flying License to each student with no additional charges

Program Description

The Aviation Department at SBE offers the four-year BS Aviation Management program that provides the necessary educational background for aviation industry professionals to solve problems within the field of aviation including the airlines, corporate aviation, general aviation, and airport management. Aviation graduates gain an understanding of the various complexities facing the industry through a breadth of aviation industry related courses. They will also gain an understanding of statistics and research methods, and how they may be applied in research to solve problems within the aviation industry. The program provides graduates with the knowledge and skills that prepare them for the aviation industry, aviation related government jobs, research and development in the field of aviation.

Moreover, being a licensed pilot every student will better understand the depth of all technical and managerial fields of aviation.

Professional Preparation

A new generation of leaders is needed in air traffic control and airport administration, as the current generation of professionals is either overworked or rapidly approaching retirement age. With an Aviation Management degree, graduates will be qualified to fill those vacancies. This program also provides a comprehensive background in aviation studies, management and business which is appropriate to careers in air transportation, air commerce, airport planning and management, and fiscal aspects of aviation.

The Outcome

The BS Aviation Management degree prepares students to work in a public or private airport or a general aviation company. Graduates of aviation management will be able to:

- Apply marketing principles to the aviation industry
- Interpret and analyze financial statements and control concepts
- Develop and use accounting and budgetary data to assist management in decision making and control activities
- Comprehend the role of finance in an aviation business including financial planning and forecasting
- Apply business principles to the management of environmental issues including noise generation and abatement
- Understand the nature and sources of law and legal problems encountered by managers
- Apply principles of human resource management
- Analyze the growth of the major components of the aviation industry at the national and international levels
- Analyze the current structure of the aviation industry including general aviation, the airlines, corporate aviation, airports, Original Equipment Manufacturers (OEMS), etc.
- Describe the impact of limited airspace and airport capacity on the growth of the aviation industry
- Use business principles in airport planning and management
- Understand the role and politics of local governments and how this impacts the aviation industry

- Describe aspects of managing air transportation companies
- Describe the air traffic control system and relationships between en route, terminal, tower, and flight service functions
- Understand private sector union-management issues
- Understand the causes of noise generation and procedures for noise abatement
- Apply land use and facilities planning practices to airports and general aviation facilities
- Understand aviation leasing and property management issues including the impact of federal regulations
- Apply technology to increase efficiency and security in airports

Course Offered

Semester 01

Subjects	Credit Hours
Airplane Aerodynamics, Engine and Systems	3
Aviation English for Aviators	3
Aviation Weather	3
English Grammar and Comprehension	3
Introduction to Business	3
Computer Applications in Business	3

Semester 02

Navigation, Flight Planning and Instrument	
Flight Procedures	3
Aviation Law	3
Aircraft Instruments and Radio Navigational aids	3
Composition and Communication	3

Micro Economics 3

Fundamentals of Accounting 3

Semester 03

Aviation Operations Management 3

Introduction to Commercial Aviation 3

Aircraft Operations and Performance 3

Research Paper Writing 3

Principles of Marketing 3

Semester 04

Airspace and Air Traffic Management 3

Essentials of Aviation Management 3

Aviation Safety Management 3

Principles of Management 3

Macro Economics 3

Semester 05

Air Port Planning and Management-I 3

Fiscal Aspects of Aviation Management 3

Aviation Marketing 3

Cost Accounting 3

Business Law 3

Semester 06

Air Port Planning and Management-II 3

Business and Corporate Aviation Management 3

Human Factor in Aviation 3

Business Finance 3

Organizational Behavior 3

Semester 07

Managing Air port Security 3

Aircraft Accident Investigation-I 3

Airline Route Planning Management 3

Marketing Management 3

Management Information Systems 3

Semester 08

Air Craft Accident Investigation-II 3

Airline Management 3

Low Cost carriers 3

Leadership Skills 3

Financial Management 3

Total Credit Hours of Aviation Subjects: 72

Total Aviation Courses: 24

Research Project: 1

Total Semesters: 8

Eligibility

Intermediate/Equivalent

IAS Faculty

Dr A Rashid Kausar

Founding Director
Professor of Knowledge Management

Naveed Anwar

Assistant Professor
OIT Consultant

Imran Saeed

Director
Aviation Department

Ali Barkaat

Lecturer
Aviation Department

Aqeel Ahmad

Lecturer
Interdisciplinary Faculty

Dr Sajjad H Shami

Professor
PhD (UK)

Syed Hussnain Abbas Shah

Assistant Professor
MS (Australia)

Hammad Mushtaq

Assistant Professor
MS (Singapore)

Mirza Mubasher Baig

Assistant Professor
MS (LUMS)

Institute of Islamic Banking

Institute of Islamic Banking

Background

The University of Management and Technology (UMT) is committed to the noble task of dissemination of knowledge for the development of human beings enabling them to undertake divine responsibilities ensuing from their distinguished position as vicegerents (Khalifah) of God on earth. Besides compulsory courses in Islamic Studies at the undergraduate level, UMT also offers graduate courses to students to infuse in them the spirit of dedication for Islamic norms and values so that they not only excel in their worldly profession but also become practicing Muslims. As such, the teaching of Islamic Studies has a special place in the scheme of studies at UMT. Even before getting the university charter, two courses of Islamic Studies (3 credit hours each) were being offered at the Institute of Leadership and Management (ILM) as it was known at the time. The first course titled 'Islam and Personality' focused on the basic teachings of Islam and their role in developing a Muslim personality. The second course called 'Islam, Society and Systems' looked at Islam as a system of social governance offering solutions to contemporary issues and challenges faced by Muslim societies.

Introduction

Over the last few decades, Islamic Banking has made significant advances on the global scene with its market share likely to rise to \$4 trillion over the next 3-4 years. In Pakistan too, Islamic Banking is making inroads into conventional banking as more Islamic banks become operational. Recognizing the need for human resource development in the expanding field of Islamic Banking, University of Management and Technology has taken the lead in establishing the Institute of Islamic Banking (IIB) at its main campus. Under the patronage of Dr Hasan Sohaib Murad, Rector UMT, it is a pioneering initiative as the new Institute embarks on an ambitious multidimensional program.

The IIB is simultaneously engaged at three major fronts. Its activities and programs are geared towards becoming a leading source of education, research and information in Islamic Banking. At the same time, IIB aims to become a self-sustaining arm of the University by generating substantial revenues through academic programs, consultancy and products sales. In the area of academic training and research, IIB is offering postgraduate degrees in three disciplines: Islamic Banking, Islamic Finance, and Islamic Economics. Moreover, with the participation of several reputed scholars from the Muslim world and elsewhere, IIB is ready to launch a refereed quarterly journal called Islamic Banking and Finance Review.

In order to fill the gap in trained manpower, IIB is launching a monthly series of Executive Development Programs for the banking industry. With the cooperation of UMT's Center for Management Development (CMD), these seminars will introduce the participants to the conceptual basis of Islamic Banking and how this can be translated into operational terms in this transition from conventional to Shariah-based financial practices. Fully cognizant of the fact that HRD and R&D resources in Islamic Banking are in disarray for lack of a systematic approach, IIB intends to become a world leader in providing one-stop access to academic research, and human resources in Islamic Banking and Finance. To accomplish these goals, IIB has initiated several projects to develop retrospective and current bibliography, glossary, monographs, database, and a digital library on Islamic Banking.

MS Islamic Banking

Mission

MS in Islamic Banking is envisioned as a pioneering educational and training program for participants to acquire both theoretical knowledge and practical skills to win a distinguished place in the emerging global market of Islamic Banking.

Aims and Objectives

MS in Islamic Banking is aimed at providing relevant education and training in all aspects of the operation of Islamic Banking. The program's specific objectives are:

1. To provide opportunity to graduates with relevant experience to acquire knowledge and training for a career in Islamic Banking and Finance.
2. To train executives desiring specialization in Islamic Banking in expanding banking and financial institutions.
3. To provide opportunity for graduates in related disciplines to prepare them to enter the ever-expanding job market in Islamic Banking and Finance.

Career Opportunities

The participants after successfully completing the MS program are expected to be competent for a wide variety of positions in Islamic Banking. They can be considered for jobs in both public and private educational institutions, research organizations, State Bank of Pakistan, and commercial banks. They can also expect to hold positions in various Federal and Provincial ministries.

Admission Criteria

Admission to the program is based entirely on merit. The basic policy of the Admissions Committee of the Institute of Islamic Banking is to select those men and women whose intellectual capacity, potential and personal characteristics best qualify them to pursue careers in Islamic Banking.

Eligibility Requirement for Admission

- The candidate must have 1st Division (where division criteria are applicable) or Cumulative Grade Point Average (CGPA) of 3 out of 4 in MA/MSc (Economics, Agricultural Economics or Business Economics.) or equivalent degree in Economics after 16 years of education from an institution/university recognized by HEC.
- No 3rd division in entire academic career (where 'division' criteria are applicable). No 'D' grade in entire academic career (where 'grade' criteria are applicable).
- Must have passed entry test GRE General or NTS (GAT) with a minimum score of 50%.
- A combination of designated pre-requisite courses per individual academic preparedness.

Interview Performance

There are no age, nationality or gender restrictions. The Admission Committee will first review the applications to ensure that candidates meet the basic requirements. After preliminary review, the Admission Committee will shortlist candidates for interviews and final decision.

**Institute of
Trade Competitiveness
and Sustainability (ITCS)**

Message from the Director

I want to introduce you to the Institute of Trade Competitiveness and Sustainability (ITCS) at UMT. In this day and age when our economy is rapidly adapting to the global economic system, research and innovation have become the cornerstone of modern academics. Taking this trend in stride, UMT took the initiative to create ITCS that is one of a kind policy think tank dedicated to trade and sustainability issues. This is the only such institution in the private sector that works with government as well as industries to put out evidenced based policy recommendations that will have a genuine impact on our economic future. ITCS also engages with students and faculty to help them understand the ever changing needs of our economy so that they can be embedded into academics. I encourage you all to visit us at ITCS and see firsthand the sort of work we are involved in.

Adnan Rasool

Institute of Trade Competitiveness and Sustainability (ITCS)

Mission

To help in the creation of a knowledge based economy in Pakistan and South Asia through contributing empirical and qualitative research on trade, competitiveness and sustainability

Vision

To become the leading research institution in South Asia by producing high quality research that has practical implications for not just our economies but also for our peoples

Introduction

The Institute of Trade, Competitiveness and Sustainability (ITCS) is a one of a kind initiative in Pakistan. It is the first time that a think tank dedicated to trade and sustainability issues has been created at a university. The idea behind the Institute is to help the government as well as the private sector cope with the growing competition regionally and globally. In accordance with this logic, ITCS produces new knowledge based on empirical as well as qualitative evidence that is useful to not just the policy makers but also for the policy users such as the industries and common people. Our ambition is not just limited to Pakistan but we are working towards having a regional impact through seeking out partnerships and research collaboration throughout South Asia.

It is worth mentioning that ITCS is structured in a unique manner. All research is conducted under 3 distinct research clusters that operate on project management basis, i.e., each research project is operated within the cluster as a unique project with its own team and set of deliverables. This allows ITCS to follow our research agenda while allowing researchers maximum space for fresh work. Each research cluster is overseen by a Research Fellow.

Research Clusters

Trade and Competitiveness

The focus of research in this cluster is on all issues related to trade. Currently the work being undertaken in this cluster includes:

- State of the Sector Reports
- State of the Economy Reports
- Policy Briefs

- Original Research Papers
- Provincial Competitiveness Report
- Analysis of Regional Trade Agreements and Terms of Trade
- State of Domestic Commerce

Sustainability

The Sustainability cluster covers a wide range of things. As the name suggests, research work in this cluster is focused on understanding how our societies and economies can be made sustainable over time. It is not just about Sustainable Development, it is about making the whole economic as well as the social eco system sustainable in the long run. Currently the work being undertaken in this cluster includes:

Green Economy and Climate Change

- IT Outreach and Governance
- Education Systems and Policy
- Food and Water Security
- Social Development and Uplift
- Institutional Development

Corporate Affairs

Corporate Affairs is the most unique part of ITCS and its research portfolio. Unlike most think tanks, ITCS has a whole cluster dedicated to working with corporations and industry partners. The idea is to help create customized knowledge and services that are needed by the industries to make them more competitive internationally as well as allowing them to diversify responsibly. Corporate Affairs not only provides industries advisory, it does market research work and future diversification planning for them as well. All this is done on evidence based empirical data that is collected periodically from the industries. Currently the research focus is on the following themes:

- Market Research Reports
- Diversification Patterns Study
- Regional Trends
- State of Industry Reports

- Industrial Policy Briefs
- Industrial Cluster Development
- Green Trade and Supply Chains
- Special Economic Zones
- Transit Trade
- Tourism
- Food Security
- Foreign Investment
- Informal Sector

In addition to the research clusters, ITCS is also involved in raising the level of public knowledge about the impact trade and sustainability. Through our advocacy initiatives such the TRADE BLOG, ITCS simplifies complicated issues. Its straightforward blogs posts are also widely circulated. ITCS believes that in order to achieve our mission of creating knowledge based societies, it is crucial to disseminate knowledge at all levels. And in this day and age, blogging and social media are one of the key tools in reaching a wider audience. In addition to this, ITCS also believes in making data more accessible as currently one of the biggest issues in research is the quality and availability of data. Keeping this mind, ITCS uploads to its website regularly updated data sets that include a wide variety of indicators. The idea is to provide data to the public so that it may help others. ITCS also holds other activities under the domain of advocacy, such as:

- Seminars
- Policy Dialogues
- Colloquiums
- Workshops

Centers at UMT

Centers at UMT

Strong Academia-Industry Linkage

Following Centers are working at the University

to facilitate academia-industry linkage,

provide real-world exposure to the UMT participants and faculty, offer excellent learning and placement opportunities, and promote research and consultancy:

- Academic Development Center (ADC)
- Center for Management Development (CMD)
- Center for Law and Policy (CLP)
- Center for the Globally Responsible Leaders (CGRL)
- Center for Entrepreneurship and Innovation (CENTIN)
- Center for Supply Chain Research (CSCR)
- Center for Women's Studies (CWS)
- Textile Productivity Center (TPC)
- Center for English Language (CEL)
- Graduate Research Center (CGR)

Academic Development Center

Fostering Teaching Excellence, Research Enhancement and Student Learning

Mission

To assist the university in improving the academic system continuously by enabling the teaching community to manage their potential in teaching, research and the enhancement of academic programs in addition to providing support to the staff of the university in all aspects of quality enhancement related to learning and teaching, including quality assurance, staff development, and the quality enhancement strategy

Vision

To be a leading institution of Pakistan for the provision of best academic development services meeting international standards.

About the Academic Development Center (ADC)

The Academic Development Center (ADC) provides a wide range of support and developmental services across the University and this support is achieved by developing policies and procedures for improving teaching effectiveness, holding academic development workshops, and seminars that are attended by national and international participants, sponsoring the activities regarding teaching, research, faculty evaluations, student learning for new faculty, heads of departments, and deans.

Quality Strategy and Activities

The ADC assists in quality management and quality assessment of academic programs and the university as a whole. The main activities currently undertaken by the Center are:

1. Assessment of student's learning
2. Assistance in assuring quality of programs
3. Faculty development to enhance teaching, learning and research productivity

Achievements

Program Specifications

Course Report Template

Self Assessment Manual – Third Edition (Beta)

Dean Evaluation Instrument Developed

Department Chairman Evaluation Instrument Developed

Graduating Student Feedback Form and Software

University Quality Standards and Assessment Model Working Papers Prepared

Institutional Collaboration

Higher Education Commission of Pakistan

University of the Punjab, Lahore, Pakistan

National University of Textile Engineering, Faisalabad, Pakistan

Recent Publications

Developing Measures for Performance Excellence - Is the Baldrige Criteria Sufficient for Performance Excellence in Higher Education? Accepted for publication in Quality and Quantity, April 2012.

Setting the Course for Quality Assurance in Higher Education. Published in Quality and Quantity, November 2011.

For details please visit <http://umt.edu.pk/adc/index.html>

Center for Management Development (CMD)

Waqar Ahmed
Director CMD

Mission

To help individuals and organizations discover and maximize their potential

Introduction

The Center for Management Development (CMD) was founded in 2002 as a strategic business unit of University of Management and Technology (UMT) with the objective to enhance academia business linkage. CMD aims to help organizations enhance their performance by providing a broad range of cutting edge trainings and consultancy services. With more than 40 permanent trainers, CMD is currently amongst the biggest training organization in Pakistan. It is also the only training organization which is working in all three sectors of Pakistan, namely: private, public, and social sectors. CMD's training portfolio includes almost all managerial, financial, and technical areas along with various soft skills development areas. In a short stint of ten years, CMD has grown to prominence as one of the leading training and consultancy providers in Pakistan. Its clients list includes more than 350 organizations in Pakistan and abroad. Its trainers, many of whom have worked with multinational organizations within and outside Pakistan, have a vast knowledge base and significant industry experience, providing a unique mix of theory and best practices in the market. As the pioneer in introducing the concept of experiential learning and outdoor teambuilding in Pakistan, CMD focuses on experiential learning that helps individuals learn from their own experiences instead of lectures. In the outdoor programs, CMD uses the ruggedness of the natural environment as its ally. Natural environment of outdoors becomes a proxy for the high pressure real life corporate environment and helps the team to learn and perform as a cohesive team.

CMD is not only focused on corporate trainings and consultancy but as a strategic business unit of UMT, it also seeks to add value to the classroom environment. As most of the trainings are provided by the faculty of UMT, they not only get industry exposure but also bring back real life examples of corporate practices to the classroom, hence, bridging the gap between business and the academic world. CMD also adds value to the quality of UMT students' knowledge and personality through trainings. Owing to its vast experience of business world, CMD has initiated a program to polish various soft and managerial skills of the students. Currently, these workshops are being offered to the students enrolled in BBA, MBA, MCom, BCom, and BS Textile Management as per their specific program road maps.

These series of workshops are aimed at giving professional trainings to students of UMT to enhance and improve not only their personality but also their market worth.

For details please visit <http://cmd.org.pk/>

CENTER FOR LAW AND POLICY (CLP)

The Center for Law and Policy, under the patronage of UMT, is an institute for the study of national and international legal and policy issues and to translate those studies into solutions, strategies, and decision making tools. The Center undertakes and facilitates research on various areas of local and global concern, and, collaborating with Pakistani and foreign law professors, judges, practitioners, and policy makers, offers a credible and prominent platform for rigorous and substantive analyses and deliberations.

The Center also aims to play a meaningful part in improving the existing system of legal and policy education in Pakistan. In this regard, the Center is trying to introduce and promote, through a number of activities, the same academic trends and standards that are prevalent in North America and Europe.

Activities of the Center

Visiting Fellows

Distinguished local and foreign scholars are hosted as visiting fellows. Not only does the Center benefit from their research, but, most importantly, the students are also exposed to latest courses and learning trends.

Conferences, Seminars and Lectures

Along with organizing conferences and seminars on various legal and policy issues, academics, practitioners, and policy makers are invited, as guest speakers, to share their views and experiences with UMT's faculty and students.

Research Projects

For certain significant areas, permanent research forums will be set up. These projects will address: Islamic legal studies, Islamic financial regulation, antitrust/competition, corporations and securities, human rights and humanitarian law, public law, internet and technology, international and comparative law, and gender and law.

It must be mentioned that once a research project acquires enough capability to function on its own, it will be made independent of the Center.

Courses

The Center invites Pakistani and foreign professors and practitioners to offer certificate courses on different areas of law and policy. The aim is not only to enhance the skills and capabilities of Pakistani lawyers and policy makers, but also to introduce western teaching techniques and standards in the country.

Internships

The Center offers internships to foreign students throughout the year. The purpose is to allow them a significant opportunity to acquaint themselves with Pakistan and the various issues that the country is facing, while making a meaningful contribution towards efforts aiming to solve some of the problems or, at least, come up with possible solutions. The following Harvard organizations provide travel grants to Harvard students selected for the internships: (1) Harvard University South Asia Initiative, Harvard University; (2) Bernard Keeton Office of Public Interest Advocacy, Harvard Law School; (3) Chayes International Public Service Fellowship, Harvard Law School; and (4) Human Rights Program, Harvard Law School.

Academic Partnerships

The Center has initiated academic collaborations with the following: (1) Cevro Institute, Prague; (2) Intellectual Property Organization of Pakistan, Islamabad; and (3) Harvard University South Asia Initiative, Cambridge.

For details please visit <http://clp.umt.edu.pk/>

Center for the Globally Responsible Leaders (CGRL)

Professor Muhammad Nazim
Director General CGRL

Vision

Developing the new generation of Globally Responsible Leaders

Mission

To promote the initiative to forge links between internal and external stakeholders for integrating corporate social responsibility issues in the business school curriculum and trying out innovative approaches to develop the new generation of Globally Responsible Leaders.

About the Center for the Globally Responsible Leaders (CGRL)

The Center for the Globally Responsible Leaders (CGRL) is a center of policy dialogue, education and partnership dedicated to developing the new generation of leaders who have acquired the fundamental understanding of the interconnectedness of the world and are committed to put ethics at the centre of their thoughts, words and deeds.

The CGRL was launched in 2009 to advance the work undertaken by the founding members of the Globally Responsible Leadership Initiative (GRLI), European Foundation for Management Development, (EFMD), and the UN Global Compact for undertaking the key challenges faced in pursuing economic and societal progress in a globally responsible and sustainable way. Four key areas identified by our international partners, and upon which CGRL has immediately embarked upon, to transform our leadership to globally responsible leadership are:

1. Thinking and acting in a global context;
2. Broadening the corporate purpose to reflect accountability to society around the globe;
3. Putting ethics at the centre of thoughts, words and deeds; and
4. Making the business schools and centers for leadership learning transform their business education to give corporate global responsibility the centrality it deserves.

The Center is playing a pivotal role in Pakistan to initiate a series of activities to introduce the required transformation by inspiring, involving, influencing, and interconnecting with internal and external stakeholders. It plans to conduct specialized programs for business organizations, policy makers from civil society, academia, and the government. The central feature of all these activities will be to provide intensive education/training on implementing CSR, understanding global ethics, revising degree programs in accordance with the UN Global Compact principles, developing leadership skills, and a wide range of other stimulating and challenging global issues.

Center for Entrepreneurship and Innovation (CENTIN)

Khalil Muhammad
Director CENTIN

Mission

To empower men and women through business entrepreneurial knowledge transfer to enable them to take over the socio-economic development challenges and become effective entrepreneurs by utilizing their full potential

About the Center for Entrepreneurship and Innovation (CENTIN)

The 21st century has dawned with entrepreneurship as a major force shaping the global economy. The future growth of this economy lies in the hands of men and women committed to achieving success through innovative customer-focused new products and services. At the heart of this global movement are entrepreneurs who demonstrate willingness to assume the risks associated with creating new business ventures. Those who possess the spirit of entrepreneurial leadership have led, and will continue to lead the economic revolution that has proved repeatedly to raise the standard of living everywhere. The Center for Entrepreneurship and Innovation (CENTIN) aims to strengthen the process of socio-economic development and empowerment of the disadvantaged sectors of society at the grassroots level through transfer of knowledge without any ethnic, political, religious, or gender bias. At CENTIN, the underlying belief is that the permanent solution to improve communities can only be achieved by developing their ability to mobilize, manage, and control resources by themselves. CENTIN aims to realize this vision by empowering both men and women entrepreneurs as builders of the future.

As one of the unique initiative of its own kind, CENTIN is committed to encourage potential entrepreneurs to realize their dreams and build their futures. The Center, through its innovative programs and diverse faculty, is supporting individuals to successfully move innovation to capitalize on social, economic, environmental, and commercial gains.

CENTIN enjoys cooperation with public and private enterprises and intends to partner with government agencies such as SMEDA, LCCI, and FPCCI to channel and enhance the commitment to entrepreneurship development. CENTIN will serve as a source of innovation and new ideas through innovative approaches and programs, but will also be a point of convergence for all those who have or want to build a stake with realm of entrepreneurship.

Objectives

- To develop a team of dedicated professionals and provide training to both practicing and potential entrepreneurs
- To partner with NGO's, donor agencies, educational institutions, governmental institutions, financial institutions, chambers, and institutions working towards similar tasks of capacity-building

- To create awareness among men and women regarding the benefits and risks of being an entrepreneur through seminars, workshops, and conferences
- To be a resource center for providing training and on-the-job assistance to women entrepreneurs
- To devise programs for the conceptual development, intellectual nourishment and skill enhancement of women entrepreneurs
- To conduct and publish research on issues regarding entrepreneurial challenges in society
- To offer certificate / diploma courses, and degree programs in the area of entrepreneurship in line with the mission of UMT

Incubation Cell

The objective of setting up the Incubation Cell at the Center for Entrepreneurship and Innovation (CENTIN) is to encourage and promote new business ideas, provide support to businesses during the stages of their early growth, and impart business development guidance for expansion. The Center will especially focus on home-based businesses.

Future Projects

- Social Enterprise Cell
- Directory of Pakistani Entrepreneurs
- Urdu Language Guidebook for Small and Home-based Entrepreneurs

Programs Offered

1. New Ventures Entrepreneurship Certificate Program

- a. Identifying Entrepreneurship
- b. Recognizing Opportunities
- c. Defining a Business Concept
- d. Developing a Business Plan
- e. Testing for Feasibility

2. Diploma in Entrepreneurship

- a. Creativity and Idea Generation
- b. Business Planning and Research
- c. Accounting and Finance
- d. Management
- e. Marketing, Sales and Advertising
- f. HR and Administration
- g. Operations and Facility Layout
- h. Information Technology

3. Training for Existing Entrepreneurs/Family Business Owners/New Business Starters

Whether you are already managing or are planning to start a new business, you need to understand the importance and application of basic business functions for the success of the venture. This course will help you experience all aspects of managing or planning a new venture from determining your personal vision and conducting market analysis to testing financial feasibility, drawing from the whole spectrum of business and management principles. This course demonstrates why good planning leads to successful business performance. It will also give you insight on how the various pieces of the business puzzle fit together and why the different aspects need to be managed in harmony for the venture to operate successfully.

Center for Supply Chain Research (CSCR)

Ijaz Yusuf
Director CSCR

Mission

To create and share knowledge that adds value to the industry, academia and government sector, provide a platform for professionals to propagate the best practices in supply chain management, and develop collaboration between industry and academia that will enhance the efficiency and effectiveness of supply chain management

About CSCR

The Center for Supply Chain Research (CSCR), School of Business and Economics (SBE) at the University of Management and Technology, Lahore, is dedicated to the development of leading-edge strategies and practical solutions to problems encountered by the business community related to the management of the end-to-end supply chain. With a distinguished faculty, including world-class researchers and a talented core of PhD scholars, the CSCR offers extensive research and consulting in supply chain management operations. Recognized as a strategic multi-disciplinary core unit within the School of Business and Economics, CSCR is proud to have developed the first MBA concentration in Supply Chain Management in Lahore.

Managerial problems are inevitably complex, requiring a mixture of functional and thematic approaches. In this regard, research at CSCR is devoted to making contributions to the knowledge and practice of management and leadership, and aims to be both academically rigorous and relevant to practitioners.

Objectives

The CSCR has been set up to:

- enhance research collaborations among affiliated faculty and participating industry;
- provide a forum for discussion and cross-fertilization of ideas through seminars and conferences;
- augment the national and international visibility of Supply Chain Research at the University of Management and Technology; and
- boost industry outreach and educational programs through diplomas, short courses, degree certificates, consultancy industry-based projects and corporate training workshops.

Research Areas

The CSCR undertakes a variety of research projects, mostly industry funded, which focus on the generation of new knowledge that addresses specific needs. The Center for Supply Chain Research (CSCR) conducts research in a wide range of areas including warehousing and inventory management, supplier-customer relationships, aligning objectives throughout the supply chain, transportation and material handling, supply network strategies, supply chain distribution strategies, supply chain risk management, enterprise resource planning, performance measurement throughout the supply chain, supply chain modeling, international SCM issues, radio frequency identifications, 3PL services providers, reverse logistics, new product development, and project management.

Center e-newsletter

The Center for Supply Chain Research is regularly issuing an e-newsletter on quarterly basis to give all relevant information to the stakeholders, including but not limited to the students, industry and universities along with their faculty. Details regarding all the supply chain related conferences, seminars, workshops, job opportunities, and social get-togethers would be part of the e-newsletter.

Supply Chain Forum

The CSCR has established the Supply Chain Forum, which brings together industrial partners to meaningfully interact with the faculty and share knowledge and experience of managing supply chains in practice. The Supply Chain Forum extends virtual invitation not only to the academicians but also to the professionals and practitioners in the field of Supply Chain Management to relate theory with practice and to integrate knowledge and experience in the field.

Professional Certificates and Diploma Programs

As renowned leader in executive education, CSCR offers innovative, highly stimulating, and challenging certificate and diploma programs that meet both industrial and individual needs. Participants may choose the program that develops knowledge, advances their career and makes a real difference to the organization. The subject areas include:

- Managing Supply Chains
- Logistics Management
- Inventory Management
- Vendor Development
- Supply Chain Strategies
- Production Management
- Supply Chain Performance Measurement

- Advanced Production Technologies
- Customer Relationship Management
- Total Quality Management
- Innovation and Change Management
- Enterprise Resource Planning

Supply Chain Industry Magazine

The Center for Supply Chain Research plans to issue a bi-annual industry-based Supply Chain Magazine in order to provide a platform for convergence of knowledge and experience, and allow academia and industry to meaningfully interact and share real time scenarios.

Career Development in Supply Chain Management

CSCR provides each participant with personalized career and academic advising. The participants are connected, directly and personally, with an extensive network of industry executives, alumni, corporate partners, and faculty. The participants may also receive personalized guidance from this network throughout their time of study at the Center for Supply Chain Research.

Future Projects

- International Conference on Supply Chain Management
- International Research Journal on Supply Chain Management

Center for Women's Studies (CWS)

Dr Uzma Quraishi
Executive Director

About the Center for Women's Studies (CWS)

The Center for Women's Studies at UMT is an academically high quality center, established to create space for discussion regarding the roles and positions of women in society, promote women empowerment and systematically eliminate gender inequalities.

The CWS is a revitalization of a gender and development center at UMT that was established a decade back as an organization for the purpose of assisting women in their route to emancipation, and has remained inactive for a while. CWS aims to foster advancement of women. The main role is to establish, facilitate and develop programs aimed at ensuring matters related to the well being, empowerment and consciousness-raising of women.

Aims and Objectives

The CWS aims to create awareness and develop communities where both men and women may live and work in mutual respect, peace and harmony. The Center has been set up to:

- Work for the visibility, advancement and participation of women in all spheres of public and private life
- Provide awareness regarding fundamental human rights of women according to Islamic jurisdictions and the Law of Pakistan
- Carry out extensive research on women empowerment, advancement and education; gender mainstreaming; and social and legal issues affecting the fundamental human rights of women
- Enhance focus on and provide guidance for personal and skills development of women as a first step to empowerment
- Engage women in exploring their individual selves, and work with their own imaginations and their peculiar contexts to emerge as writers and creators in their own right
- Provide career counseling and assistance in job placement through networking, and counseling and consultancy for awareness of legal difficulties
- Establish and preserve linkages with other Centers for Women and Gender Studies all around the globe
- Undertake initiatives to establish partnerships/coalitions and/or consultative processes for civil society to participate in the creation, implementation and accountability mechanisms of policies that affect women and women's rights

Textile Productivity Centre (TPC)

The School of Science and Technology (SST) offers textile courses at the doctoral, master and bachelor level. It has the expertise to help the garment industry meet international standards. The University of Management and Technology has set up a Textile Productivity Center (TPC) to overcome the shortcomings of technical know-how in the local garment industry. The Pakistani garment industry suffers from low productivity and high product rejection rates. The TPC promotes productivity excellence at the management level, provides training and expertise to the

- Create awareness about productivity excellence among those who are working in the garment industry, addressing the top management
- Make it possible for the textile industry to achieve excellence in productivity through training programs and expert advice

The Textile Productivity Center (TPC) maintains an impressive portfolio of clients. It has helped them overcome problems in critical areas. For example, its expertise has reduced the gas tariff of a client by 45%. It has been instrumental in decreasing the product rejection rate of a client from 12% to 3.5%. It has also helped another client reduce labor hours by 30% without any adverse effect on production quantity.

Center for English Language

Vision

The Center for English Language (CEL) develops a strategic vision of optimizing each student's potential through the shared joy of learning and teaching. This vision underpins all the pedagogical activities of the Center. As such, it is developing as a centre of excellence for the effective learning and teaching of English. CEL provides a scholarly climate in which staff and students are encouraged, enabled and empowered to reach their full academic and pedagogical potential in a spirit of collegiality and co-operation.

Mission

The mission of the Center for English Language is to train students in the study of English language by making them proficient speakers of English language as well as acquainting them with significant new works, and by familiarizing them with various critical tools and precepts to understand the significance of English language and literature. Class-room lectures are supplemented by tutorials catering to specific needs of students and various extra-curricular activities with an academic base such as seminars, group and panel discussions. This is done in order to foster a composite and comprehensive approach towards the creation of future scholars and teachers.

Objectives

Interactions between literary and other forms of cultural production

Interrelationships between British and other literatures and the importance of non British literature in English

To enhance students' proficiency in English language skills

To equip students with the awareness and strategies needed to enable the study of English as a lifelong process.

History since its inception (2010) and its contribution to UMT

Center for English Language successfully catered to five thousand three hundred and eighty five (5385) students since its inception in fall -2010, across the university.

We strive to provide our students with:

Skilled and professional instructors with an experience of teaching English as a Second Language (ESL).

Use of Computer Assisted Learning (CAL) with supporting supplemental materials for the curriculum, specialized software (Moodle)

Flexible schedule including morning, afternoon, and evening classes

Performance-based assessments, evaluations, and classroom activities to measure student's progress.

Workshop on grammar, creative writing and photography

Specialized classes for specific purposes, i.e., Business English, Business Writing, Inter-personal Communication, Conversation, etc.

Center designed English language proficiency courses keeping in view the requirements of students' respective departments and their language learning needs.

Existing Curricular Framework

Number of Students

5370

Number of Teachers

20

Courses

CEL offers courses in Basic English (Noncredit), English I – Reading Comprehension and Communication, English II-Composition and Communication, English III- Research Project and Proposal Presentation, and English for Specific Purposes (ESP-Business Track)

For details please visit <http://cel.umt.edu.pk/index.html>

Organization Theory Center

Organization Theory Center (OTC) is the platform offered by UMT for scholars of diverse disciplines including, but not limited to economics, sociology, philosophy, natural sciences, art, literature, literacy, linguistics, complexity science, critical theory, social constructionism, symbolic interactions, and phenomenology. OTC focuses on generation of research and development of researches from multiple disciplines. Research Capacity Building (RCB), and Research Management (RM) are also the core functional areas of OTC.

What we do?

Research Management (RM)

Managing Research around major research themes of contextually, reflexivity and multi-disciplinarity.

Research Capacity Building (RCB)

Research Capacity Building (RCB) focuses its activities around the development of researchers, in addition to rendering financial assistance to post graduates and post doctoral candidates.

Motives for setting up OTC

The main purpose of Organization Theory Center (OTC) is to integrate the existing different Organization Theory discourses with the intent to create holistic, contextualized and local epistemologies of disciplines such as arts and literature, religion, philosophy, linguistics, history and other knowledge fields.

The second main stimulus for launching OTC is to promote contextualization of Organization Theory. Recently there has been an upsurge to contextualize the field around the constructs of culture, society and nation states. OTC's objective s to ascend further and to utilize higher and whole constructs like civilization in cotextualizary endeavors.

The third main motive of OTC is to encourage interdisciplinary learning and knowledge creation. The fields of medicine, physics, psychology and sociology are witnessing the emergence of new paradigms in the form of holography, quantum theory, symbolic interpretation and ethnographies. Organization Theory literature is paying isolated and scant attention to these advances. Organizations are made up of human beings who have the capacity to build and create collective and holographic organizational consciousness. OTC seeks to create interdisciplinary links with other knowledge fields so that the organizational individuals, processes, tasks and functions are understood in the realm of holistic knowledge rather than as mere positivistic and empirical constructs.

For details please visit <http://otc.umt.edu.pk/index.html>

Our Strength

comes from our
unique ability to innovate
and respond to the
rapidly changing environment,
to sharpen our
competitive edge
by dedicating to
and sacrificing for
the singular focus of
enriching the
real potential of
learning for leadership.

The Learning Methodology

The learning methodology adopted by UMT is entirely different as compared to other educational institutions. The fundamental difference lies between the assumptions regarding education and assumptions regarding learning. UMT learning methodology creates a totally new institutional climate and academic culture that is highly rewarding for resource persons as well as participants.

The concepts of training, development, improvement and learning are more suited to UMT methodology. Following are the salient features of the learning methodology:

- Learning concentrates on how to learn, how to ask good questions, how to pay attention to the right things, how to remain open to new things and evaluate concepts, and how to increase availability and access to information.
- Emphasis is given on context rather than on content and to the right question rather than the right answer.
- The issues of context, perspective, and retrospective meanings are given more importance because what is known may change on shifting of the contextual factors.
- Learning is considered as a process and a journey, not as a product or destination.
- The system encourages autonomy and freedom. Candor and dissent is permitted. Participants and resource persons see each other as colleagues, people, and roles. There is no hierarchical / authoritarian structure, where conformity is rewarded and dissent is discouraged. Guessing and divergent thinking is also encouraged to promote creative thinking. Participants are pretty much independent in selecting the courses and topics for papers, projects, etc.
- It is believed that there are many ways to teach a given subject and subjects do not have rigid boundaries. Thus, different resource persons are allowed to teach the same course in different manners. The scope of subject remains flexible in the interest of satisfaction of the participants that issues raised in the class have not been left out.
- The self-image of the participant is more important than performance as reflected in the grades. The purpose of grades is to provide feedback to the self-image of the participants.
- Resource persons also benefit as learners and they learn from the participants.
- Resource persons are concerned with performance in terms of the future potential. Resource persons test the outer limits of the participants, transcending perceived limitations. All participants are treated as future leaders and managers.
- There is great emphasis on class interaction, sharing of inner experiences, exploration of feelings, and discovery of the self. This process is seen as quintessential setting and the context for learning.

- Learning also focuses on the development of right as well as left-brain. In a good learning process, left-brain rationality would blend with the holistic, nonlinear and intuitive contribution of the right brain.
- Wherever possible, theory and abstract knowledge is reinforced by experiments and experiences.
- Human relationships play the role of catalyst in the learning process. Education is a lifelong pursuit. It is not an economic or social necessity. A very friendly and cordial relationship is maintained.

Welcome to the World of LILAKS!

LILAKS is a unique methodology geared to provide maximum learning advantage to the learners and ensure that they outsmart everyone in the real world. In the following section, the core features of this scheme are shared so that you can clearly distinguish how UMT is different and better than others. The objective of sharing this with you is to make you understand the academic culture and system that you would experience at UMT and that promises you the best that the world has to offer in terms of approach and method. I believe that as participants enrolled in degree programs you would repose a great trust and your future on the faculty of UMT. It is our commitment to your learning that motivates you to be with us. LILAKS raises your hopes from us and increases your own and our expectations from your own self. We want you to be with us fully and wholly, with heart and mind, soul and spirit.

LILAKS stands for Leadership in Learning and Knowledge Systems (LILAKS). Its introduction is akin to a learning revolution in the most advanced level of learning at the tertiary level. The mission of this revolution is to provide you with maximum learning by employing cutting-edge techniques and world-class practices. The objectives are to increase the quality and quantum of learning so that you become a great human being and also compete and win better position in the job market. You as participants are the singular focus of this change. We want you to do much better than what you do now. Certainly, we need to do much more to enable you to assume leadership in learning and knowledge. We want you to be unique and great! We want you to be proactive in pursuing knowledge. We like to see you in full command of your self and your future. You will find us a reliable partner in your efforts to fulfill your highest ambitions and dreams.

LILAKS will turn around things as it unfolds in innovative ways in the coming weeks. It is called a revolution because it will bring sweeping changes in systems to bring them in line with spirit. A new academic culture based on the spirit of inquiry and dialogue, partnership and competition is being nurtured at UMT.

Respected deans and members of the faculty play a central role in unleashing and creating this revolution. The new coursework is being designed and would be characterized by mission-driven course layouts, real world outcomes based assessment, and team based learning. Revolutions tend to be ruthless. They make heroes of those who ride on them and wipe out those who stay away. We hope that you would volunteer to become a player and a partner in this revolution. Your willingness is important to help you make the most successful human and help you discover in you, a worthy leader.

What is LILAKS?

LILAKS refers to a specific blend of knowledge culture, teaching methodology, and learning process. Independent of systems and structures, it can be adopted at any educational level. It captures the quality and orientation of learning and indicates optimal standards for academic process. It is dramatically different from the philosophy and structures of outdated educational system currently prevalent in traditional institutions of higher education. LILAKS celebrates the shift toward cutting-edge learning paradigm to boost the effectiveness of academic pursuits.

It epitomizes the latest research in the subject of the whole person learning and provides for life-long learning value to the participants by making them autonomous, empowered, and self-reliant in fulfillment of their emerging learning needs and evolving needs for self-improvement. All of this culminates in the shape of development of leadership in learning and knowledge which is the most celebrated core characteristic of successful human beings.

Ten Commandments of LILAKS

1. Purposefulness

Humans are born with a purpose. A greater sense of objectives of this life can be the only most powerful source of motivation for a learner: to serve creatively, to contribute to the well-being of other fellow humans, to sustain nature, to make a difference in the workplace, and to advance the progress of civilization. The urge to impact positively by playing a constructive role in the society can build leadership momentum in the making of the personality.

2. Self-Mastery

Human beings begin to learn naturally from day one. Later on, they invest consciously to survive and lead in their world. They learn about faith, knowledge, attitude, mental models, practices, skills, and applications to achieve excellence and command. Holistic development of an all-round, integral, consistent, focused and purposeful personality should be the first and foremost concern of higher learning.

3. Learning Activism

The prospective learner must rise to the challenge of purpose and potential self-mastery. Initiative lies with the learner. The command of the process also rests with the learner. The rewards are also realized by the learners alone. Active participation based on sincerity of the purpose and objectivity of life is the essential ingredient. The learner must take full command of the learning in view of the future responsibilities.

4. Teaching Leadership

Learning process depends upon the harmonious relationship between teacher and learner. Teachers must lead the active and purposeful learners. Leadership in teaching goes beyond showing slides and checking projects and quizzes. Teachers play the dominant role as enablers, facilitators, energizers and counselors. They hold referent and expert powers. In the end, learners become proud of their teachers and teachers relish in the achievements of learners.

5. Context Driven Content

Learning is drawn not as much from the books as from the context. Learning accrues even through passive perception and observation. Texts books form the core as they package the standard and prevalent theory and practice. But that is only the starting point to kick off imagination and creativity. Much more is required by way of building of attitude, sharpening of applied skills, and development of the mindset. Immediate context also refers to relevance and usefulness in the workplace within Pakistan as well as the world at large.

6. Technical Competency

Knowing 'what' is never good enough if not followed by knowing 'how.' However, going up to this far only, in itself, does not entail a job. What is ultimately demanded by the real world is the ability to do it. The need to excel and surpass the existing standards is now considered to be within the minimum requirement. The confidence and the competence to make it happen must be backed up by evidence of the work done during the learning process. Such kind of practical talent is the forbearer of leadership roles. Organizations hire people when they show the promise that they can be of value to the organization by making value of the work.

7. Generative Assessment

Typically, assessment consists of exams and its variations. This mode of assessment works well when the objective is to ascertain whether the persons can remember and replicate. But our job is not to prepare you for the past. Our job is to prepare you for the future. In addition to such kind of assessment, greater emphasis will be given to imaginative, experiential, research oriented, simulative, customized, project-based, field-based, real-world based, professional, and in-company type of work. The spirit is to assess your future and to let you do now what is to be done on the job tomorrow. The assessment activity in itself becomes a basis for an accelerated and critical learning. In that sense, it is generative as it leaves makes a long-term impact.

8. Pro-Learning Environment

In-class learning has to be fully supported and reinforced by pro-learning activities outside the class room. The time spent at UMT outside the class room and spent outside UMT should also add value to the learning. A lot of motivation comes from the competitive traditions, intellectual stimulation and academic values prevailing in the teachers and participants. Pro-learning activities include debates, magazines, seminars, industry visits, guest speakers, exhibitions, etc. Opportunities to interact informally in teams and in groups also result into learning through peers.

9. Systems View

This world in the planet earth is an infinitesimally small place in the larger universe. A person is only one in the mix of over six billion people in this world. Same is true for a country, a nation, a community, a family, and a company. One event is only an iota in a series of plays. One color of behavior is only a shade in the wider spectrum of possibilities. So breakdown of traditional mental models and thinking structures is required to pave the way for fresh understanding of relationships, complexity, and interdependency.

10. Life-Long Continuity

Learning knows no boundary, no beginning, no ends, and indeed no limits. It is a dynamic and ceaseless journey. It goes on with life, around life, and about life. Different kinds of learning mechanisms and programs must be constituted to meet the needs of the learners at various stages of the life. A person who truly becomes a learner once stays as one till the end.

Resource Persons: the Magnets

Stars on the Sky

Frontline Faculty

The central role of the resource persons in a learning institution cannot be overemphasized in any system, which purports to become an agent of change and development in the society. The professional demands from resource persons require them to be intellectually rich, practically competent and fully conversant with cuttingedge developments. The development of clearer career structures and diversity in professional duties gives a new vigor to contemporary teaching practice.

Undoubtedly, the quality of any educational institute is determined by the quality of its faculty. The outstanding repute and quality image of UMT owes to its faculty which comprises of a super blend of academic luminaries, business experts and corporate executives who are equally at home in boardrooms and classrooms. UMT resource persons distinguish themselves not only by achieving the highest in scholarship but also by the accomplishments of participants as they involve them, challenge them, and help them thrive. A veritable "Who's Who" in Pakistan's academic setting, the 60 member Academic Council, the most prestigious academic forum at UMT, provides advice and recommendations on curriculum and makes academic policy decisions to keep UMT abreast of the latest developments and attuned to the contemporary challenge.

UMT is presently located in one of the most elegant cities of Asia and the second largest city of Pakistan, Lahore a seat of learning and a growing center of business and industry. Lahore is a center of higher education and professional training and UMT takes full advantage of the vast resource potential available in this vicinity. To cope with the quantum of work and to ensure high quality teaching and research, UMT maintains a dynamic network of local as well as foreign qualified professionals, researchers, trainers, and consultants intellectually rich, practically competent and fully versant with cutting edge developments. Committed to UMT, the extensive faculty gives experience and zest to our integrated curriculum, delivers excellent instruction and guidance in their specialized areas, lays down theoretical foundation, and exposes the participants to the practical issues and challenges.

UMT draws its teaching resource base from full-time as well as part-time, and from academia as well as real world. The ratio of full-time faculty to the participants is approximately equal to one is to fifteen which puts UMT as a top ranking institution. By inviting the part-time faculty members from the business world, UMT is able to take benefit of qualified, competent, and experienced resource persons. With 180 full-time teaching professionals including more than three dozen full-time PhDs, the faculty enjoys international reputations and connections, appears in the business and academic journals and leading national dailies, and is frequently interviewed by print and electronic media. Approximately 200 adjunct faculty members supplement the full-time faculty's efforts. They know what it will take to succeed in business tomorrow because they're doing it today.

Held leading positions within business and technological corporations, most faculty members are engaged in research and many are working on integrated solutions for industry, whilst focusing primarily upon teaching and helping participants achieve their goals.

The resource persons with superior credentials, expertise and recognition in relevant disciplines and areas attract motivated participants from around the world and lead them from where they are to where they want to be. The resource persons are more than often sought out for individual counseling and assistance and are respected off campus and on campus as men of values and visions, ideas and insights. The participants receive an ideal mix in theory and practice from the diverse and dynamic blend of experts from both on and off campus, and from academia as well as the corporate world. Beyond classroom discussions, the resource persons engage participants in active and diverse research and consultation projects and emphasize the holistic, integrated and real world approach of learning.

UMT now plans to offer doctoral program with a three-fold purpose to establish a viable system for in-house facility of developing competent resource persons, promote research and development, and provide consulting to the industry. All doctoral candidates will be required to teach the graduate classes and work as a partner on research projects with the senior faculty members.

The resource persons and other professionals associated with UMT are encouraged, facilitated, and suitably rewarded for developing case studies and other teaching material originally suited to our socio-economic environment and cultural factors. UMT has already negotiated agreements for faculty training and development with the American and European institutions. These institutions have also agreed to offer scholarship or to bear all expenses in this regard. Currently, some members of the permanent faculty are pursuing higher studies abroad, in the USA and UK, while many others may be sponsored soon.

UMT requires its faculty to become active member of academic and professional bodies in their respective fields of specialization. UMT also facilitates organization of national and international academic seminars, symposia, conferences and workshops. It also encourages participation of its faculty in such events organized by other institutions in Pakistan and abroad.

Curriculum Structure

The curriculum of undergraduate and graduate programs at UMT is designed to provide conceptual depth as well as practical skills. The pre-requisites for courses are determined largely on the basis of classification. The methods of assessment employed also reflect the primary objective and emphasis of the given category.

Pre-Foundation Courses

Participants come from a variety of social and educational backgrounds. The graduate syllabus in engineering, physical sciences, and social sciences does not provide sufficient background. In order to cover up this deficiency, participants are required to take up the foundation-level courses. These deficiency removal courses are offered in different subject areas such as mathematics, calculus, statistics, English, and information skills. This stage helps to bring the participants on a common level in the first trimester and provides them orientation about the constituent disciplines and participants with unrelated previous education to fully benefit from them. At the time of registration, advisors assess the strengths and weaknesses of the participants and recommend the necessary courses. Exemptions can be sought on the basis of previous qualifications.

Foundation Courses

These courses represent the first step towards build up of knowledge base in the respective subject areas. The emphasis is on introduction to the subject area by providing an understanding of historical developments, concepts, theoretical constructs, and relevance of the subject area with the knowledge base required for the degree. The objective is to build clarity of concepts, understanding of the knowledge system, and development of a professional mindset.

Core Courses

These courses build upon the foundation courses and discuss the concepts at an advanced level with a minor touch of practices to prepare participants for application courses. The analytical part of the learning process actually begins from these courses. Participants must ensure that when they complete these courses, they have understood all that is necessary to start thinking on application.

Application Courses

The primary objective of these courses is to develop expertise in decision-making and leadership. They provide opportunity to apply to the real world situations, what has been learnt previously. Application courses build confidence in finding solutions from the knowledge base accumulated so far.

Integration Courses

The purpose of such courses is to integrate functional approaches and built multidisciplinary foundation for holistic view at the top level. The level of discussion borders on all subjects learned previously and the participants formulates a grand vision for total solution.

Specialization Courses

Towards the end of a program, participants select one field exclusively or two fields in combination to focus on developing expertise related to the line of professional career and discipline of knowledge. Also included in this module are options for individualized studies, based on projects and fieldwork.

Academic System

1. Academic Calendar and Registrations

The schedule of course registrations, payment of dues, beginning and closing of academic sessions, examinations, holidays, semester-breaks, etc., for the next academic year, are communicated through the Academic Calendar by Office of the Registrar. The Academic Calendar may be collected from Office of the Registrar or downloaded from the website (www.umt.edu.pk).

Academic Session: The academic year at the University consists of two regular semesters: 'Fall Semester' and 'Spring Semester'. In each semester, there are fifteen weeks of teaching and two weeks of final examinations. Besides, a summer session is offered during summer of each year, comprising of eight weeks of teaching and one week of final examinations.

Credit Hour: One credit hour is equal to one contact hour of teaching in a class for a particular course, per week, for a fifteen-week semester. Thus, a three-credit hour course requires three contact hours of teaching per week or a total of forty-five contact hours in a semester. During the summer semester, the contact hour in the semester remains the same by doubling the contact period during the week. For laboratory sessions, three contact hours per week in a semester constitute one credit hour.

Course Registrations: Participants are required to register in courses offered in a particular semester according to the dates specified in the Academic Calendar. For new entrants, course registration is completed on the Orientation Day.

2. Credit Transfer Policy

The Credit Transfer policy applies to the participants who have not completed the relevant degree program from HEC recognized University/DAI. Participants desirous of transferring credits shall apply on the prescribed form to the concerned Chairperson along with evidence of completion of courses for which transfer is solicited. The concerned Chairperson shall ensure that the applicant(s) has completed same level course(s) with a letter grade of at least 'C+' or '60%' marks from HEC recognized University/DAI for which credit transfer is being sought at bachelor level and at least Grade 'B' at master level. The request for credit transfer shall be approved by the Dean on the recommendation of the concerned Chairperson. Credit transferred shall be counted towards the completion of degree requirements. However, these shall not be counted toward the calculation of CGPA. The word 'Transferred' shall be written on the Final Transcript in such case(s). No fee is charged for credits transferred.

Credit Transfer Limit: The total credits accepted for transfer in any program shall not exceed 50% of the total credits required to complete a bachelor program and one-third of the total credits required to complete a master program.

3. Payment of Dues

Participants may opt to deposit lump-sum dues with a discount of 15% in four-year degree program and 10% in three and two-year degree program of the total tuition fee payable at the time of admission. The annual fee is calculated on the basis of the average course load of a participant incorporating all financial assistance granted. The annual fee is payable in four equal installments on or before the 10th day of September, 10th day of December, 10th day of March and 10th day of June of each year. Those who fail to pay their dues by the given dates shall be liable to pay fine of Rs100/- per day. Results of the fee defaulters shall be withheld and they shall not be allowed to register in any course in the next semester. The participant who defaults for two consecutive quarters shall be expelled from the University.

4. Degree Requirements

A participant has to complete the scheme of studies of a particular degree program as per the prescribed road map including thesis/project/internship. Road map of the degree program includes semester-wise courses, total number of credit hours required to complete a degree program, foundation, core and elective courses. Minimum passing CGPA for bachelor level programs is 2.50/4.00 and for master level programs is 3.00/ 4.00. Participants, who fail to maintain a CGPA of at least 2.00/4.00 at bachelor level and at least 2.50/4.00 at master level for three consecutive semesters, shall be expelled on academic ground and shall not be readmitted in any program of the University.

Probation

Whenever a bachelor level participant's CGPA decreases from 2.00/4.00, the participant shall be on "first probation" for the next semester. If the bachelor level participant does not come out by increasing the CGPA to 2.00, then again the participant shall go on "last probation". If the participant, who was earlier on first probation does not come out in the last probation by achieving the minimum required CGPA 2.00/4.00, the participant shall be dropped from the University and shall not be readmitted in any program of the University. Whenever a master level participant's CGPA decreases from 2.50/4.00, the participant shall be on "first probation" for the next semester. If the master level participant does not come out by increasing the CGPA to 2.50, then again the participant shall go on "last probation". If the participant, who was earlier on first probation does not come out in the last probation by achieving the minimum required CGPA 2.50/4.00, the participant shall be dropped from the University and shall not be readmitted in any program of the University.

Degree Requirements

Maximum time frame allowed for the award of four-year bachelor degree is six calendar years / twelve semesters and for master degree (2 years) it shall be three years/six semesters. Summer semesters are not counted in maximum time frame allowed for completion of the degree.

Methods of Assessment

A wide range of methods of assessment is available to resource persons. Resource persons select the methods of assessment in view of the learning objectives of the course. These methods are used as learning tools rather than tools of assessment. Resource persons can employ any blend of the following methods:

Reading Material is provided to communicate the knowledge, necessary to be learnt by the participants in view of the objectives of the course. This includes textbooks, reference books, journal articles, etc. It is expected that participants will thoroughly read the material in an interactive manner. They should be able to answer any question from any topic which is supposed to be covered in the next session or which are already covered. It is not necessary whether the resource persons have actually covered the material in class or not. Given the amount of material and emphasis on engaging participants in analysis of the material rather than consuming time on description, it becomes primarily the responsibility of participants to make sure they have understood the material before coming to the class. They are expected to participate in the class when analytical discussions are held. Resource persons can also assign the questions from the next chapter to the participants for brief presentation or can ask the participants to come up with a bullet summary of the important ideas presented in the chapter. Another way of involving participants is to ask them to deliver short lectures.

In foundation courses, reading material will consist of a textbook and one supplementary book. In core courses, reading material will consist of one textbook and three to four reference books. In application courses, reading material will consist of one textbook, and selected material from professional periodicals and current magazines. Resource persons may choose to supply a collection of 20 to 30 articles on various topics. Participants may also be asked to visit libraries and collect material on their own.

Bullet Summary is required to ensure that participants have gone through the readings intensively and interactively. They may be required to submit point-wise summary of the material in one page.

Class Participation is given weight to motivate the participants towards active role in the class. Sometimes in a competitive class, the difference in participation actually determines the difference in final grade. Participants are expected to not only attend the classes regularly and with full preparation but they are also required to play a very active role in the class. They are invited to play the role of active listener and involved members of the class team. They raise questions, contribute in developing responses to the questions, generate ideas, innovate and apply the concepts, and take the class ahead.

Lectures focus on critical issues and debates in the subject area, while reading material deals with basic concepts and theories. Resource persons select topics of significant importance and give an impact-oriented presentation using transparencies. The lectures should be carefully noted and recorded by the participants. They can focus on issues not covered in the course material. The fact that some topics could not be covered during lectures will not refrain resource persons from asking questions in the examinations.

Quiz can be very instrumental in providing feedback to the participants on concurrent basis. It puts the pressure on the participants and motivates them to remain updated and achieve not less than full command over the fresh material. Quiz can be taken announced or unannounced. It has to be short and concise. Quizzes are graded immediately to achieve the objective.

Handouts refer to the material distributed to aid the understanding of lecture focus. They include photocopies of transparencies, models, diagrams, charts, tables, etc. Handouts may also consist of the outlines of lectures.

Assignments/Tutorials are used as important tools of learning in quantitative type of courses. These primarily center on the application of the concepts in different real world situations. In qualitative courses, it can also be used to train participants in formulating and communicating opinions on various issues and debates. Assignments are done at home while tutorial sessions are held in the class. The whole class is involved in solving problems.

Case Study refers to the problem solving exercise focusing on the real world situations. In foundation courses, single event based and narrow scope case studies are conducted in class and participants prepare individually. Cases are very brief, limited to two pages only. At this stage, purpose is to develop skills in reading, understanding, and analyzing the case material.

In core courses, about one-fourth time and points are reserved for case studies. Case studies are comparatively longer, from five to ten pages. In these courses, participants prepare cases in groups of five to six. A written report as well as oral presentation is required. In application and specialization courses, about two-third or more of the time is devoted to the case studies. Cases are extensive, about 20 to 40 pages long. Group members are limited to two. In some of the application courses, resource persons can require participants to develop new cases after doing the fieldwork. Another group critiques each presentation. All other participants submit two-page brief outline of the case of the day to resource person. Grading on case studies can be a combination of grades obtained in the areas of group grades on presentation and report as well as individual grades on communication, summary and critique. The purpose of gradually increasing the intensity and range of case study exercises is to develop greater appreciation of the practical problems, and provide training in executive decision making in a controlled environment.

Research Paper is required in the core courses, where emphasis is on providing the essentials of knowledge system about the field. The term paper creates skills in research and writing. It also develops a mind capable of formulating opinion and finding and analyzing viewpoints of others. Research Paper is a very effective way to make the participants do proper research work using all tools and methods, at the level of core courses.

Project Report is different from Research Paper only in the sense that the major content of the report comes from fieldwork, observations, interviews, surveys, and other sources of collection for primary data. This is required in application and specialization courses. Project Paper replaces Research Paper in the advanced stage. Research Paper emphasizes solid ground for theoretical concepts, while Project Report emphasizes understanding and analysis of the practice.

Field Trips are organized on the suggestion of the resource persons and participants. After a field trip, participants submit a written note on their observations and comments. In every trimester, there should be at least one field trip for the participants. The administration and participants can mutually share the cost of field trips.

Training Films are shown on the suggestion of the resource persons. After the film, participants are asked to discuss what they liked or disliked about the film.

Quizzes are directly concerned with the lectures focus. In order to motivate the participants, resource persons can choose to offer surprise quiz, which contains five brief questions taking not more than ten minutes on the topics discussed in the previous class.

Guest Speakers are invited to enlighten the participants on specialized topics on the suggestion of resource persons. The resource persons are requested to convey the names and topics of the Guest Speakers at least two weeks prior to the course.

Subject Log Books are required to be prepared by the participants in key functional areas, especially in the field of specialization. It consists of listing all concepts, tools, theories, etc., which can be relevant in decision-making framework. Resource persons opt for this type of assessment in application and specialization courses.

Periodical Watch Reports are required to be submitted by the participants in specialization courses. Resource persons supply a list of relevant newspapers, magazines, and journals to the participants. They monitor news and developments relevant to the field of interest. The participants submit the report at the end of the course. This exercise develops the skills of monitoring, scanning, and analyzing the environments in view of the topic of interest.

Skills Development Exercises consist of a self-assessment questionnaire, related to a certain professional topic. On the basis of the answers to questions, participants are given a score. These instruments are very useful in the process of self-development. The resource persons conduct these exercises at least once a week in-group or class.

Subject Review Note contains summary of all lectures and activities that have taken place in the class. It is like minutes of the course. It can be converted into course manual later on by resource persons. The participants who undertake to write the Subject Review Note are not given weight in the points allocated to class participation.

Role Playing Exercises involve participants, when they take up different roles to understand the difference of perspectives and dynamics of issues confronting different people as they interact from their entrenched positions.

Action Learning helps the participants learn from experience through reflection and action. Action Learning groups focus on questions to broaden thinking reveal blind spots, and to create new insights, enhance learning capacity improve decision making, and effectively share knowledge with peers. Participants question their own and each other's thinking rather than giving so called "expert's advice". They develop new product ideas, marketing strategies, staffing structures and team development options. Action Learning focuses on real work issues, builds upon group commitment, refines the art of effective questioning, and legitimizes learning as being as essential to success as task accomplishment.

Management Games are widely used in training courses and team-building to provide a rapid experience of a particular learning. They can be quick and simple or varying levels of length and sophistication. Properly designed management games serve to break the link with the workplace and entrenched thinking habits long enough for new behaviors and thinking styles to be tried. Once a new behavior has been experienced, the manager is on the way to a change in behavior. Use of management games encourages new, even novel, alternatives, coping mechanisms and models of thinking.

Internet Exercises are being utilized by the resource persons as a vital learning technique to keep the participants abreast of the latest development in the relevant discipline and as regards current practices in different industries. As the Internet becomes an increasingly valuable tools for information and promotion and has opened up new vistas of opportunities, Internet exercises are of immense value. These are characterized by proactive learning, increased participant involvement, instant results, and accessibility from anywhere, anytime, at any place.

Simulations are about building environments or systems that look and behave like the real thing, but are in fact models created on the computer. Simulations are extremely effective as participants learn by doing. Participants use simulations in the context of a scenario, like a short story or description of a situation. They work through the scenarios using the simulations to complete tasks. It is this doing that greatly increases the value of training. Besides typical benefits of e-learning, simulation learning delivers the best rate of knowledge retention and is directly relevant to learner's role. The participants push the boundaries of learning, make mistakes and learn from those mistakes in a simulated, risk free environment. They accrue real work experience, prior to commencing their role, and become productive from day one at their jobs.

Mid-Term Test is taken in the beginning of seventh week. It assesses the level of learning attained by the participants half way through the course. As compared to the Quiz, in Mid-Term Tests, participants are evaluated on long questions and for at least two hours. It provides good indication of learning and is widely used in quantitative courses at the foundation and core levels. In later part of the program, quizzes and other activities are given more weight.

Final Test is given to test the cumulative understanding of the total course material or the subject material covered in previous courses. It is a very good tool and indicates the level of competence and mastery attained by the participants in the broad field of the subject.

As a matter of fact, the objective and utility of the tests is not only limited to evaluating the participants, but it also provides one more learning opportunity in an atmosphere of high pressure and short time. The final examination lasts for about three hours. Generally, in application and specialization courses, Final Tests are replaced with the Project Reports.

There is variety in the types and modes of testing, available to resource persons. It includes Open Book Test, Take Home Test, and Make Your Own Question Test. Resource Persons may apply these tools to increase the learning potential of the participants.

Participants Development and Placement

Besides curricular activities and academic rigor, year-round extra-curricular and co-curricular activities organized by the Office of Participants Affairs (OPA) at UMT have literally made learning worthwhile fun and real-time enjoyment. Such activities form an integral part of the learning experience at UMT and keep on exciting, exuberating, and refreshing the participants who develop team building, people management, public speaking, leadership and decision-making skills. Together with academic environment and learning methodology, such activities inculcate in the participants team spirit as they learn how to interact, re-act, pro-act and finally win. The regular activities in this regard feature sports tournaments, declamation contests, software competitions, exhibitions, participant weeks, annual dinners, excursion trips, and study tours as well as the activities and events organized by the dramatic club, participant bodies and associations.

Celebrating Excellence

OPA organizes “Achievement Evenings” to recognize, celebrate and promote the achievements of the participants who secured a place at the Dean's Merit List and also for those who excel or outperform others in co-curricular and extracurricular activities. Leadership Award Ceremony is a long standing tradition of the OPA.

Organizing Clubs and Activities

The OPA also organizes various clubs and supports student bodies in co-curricular and extra-curricular activities. The events, functions, ceremonies, and activities enlighten the participants' perspectives and help them develop their organization, team building, time-management, negotiation, persuasion, and communication skills, etc. Some of the clubs and bodies organized, managed, and supported by the Office of Participants Affairs are given here.

Overseas Participants Club (OPC) is a student body representing all the overseas and foreign participants studying at UMT. The Club organize the activities and plans study tours and recreation trips for the overseas and foreign participants. The participants visit a number of places to explore the scenes, sounds, and sights of Pakistan. The Overseas Participants Club also assists the members in finding solution to their social and academic problems.

Adventure Club organizes exciting and thrilling activities like camping, hiking, etc. for the participants and arranges trips for them to different areas of the country with the assistance of the department.

Art Club is working mainly to cultivate, channel and nurture the artistic talents of the participants. It encourages them to come up with their original artistic contributions and provides them avenues to promote their artistic talents and outcome.

Debating Club arranges debate competitions and symposiums and many other competitions among the participants on issues of national significance or relevant to topics that cover a wide range of issues and areas like economy, business, technology, personality development etc. Such competitions in a healthy environment help the participants develop their communication and persuasion skills. Debates are held inside the University as well as outside. The debaters also get an opportunity to represent UMT in different seminars and symposiums organized by bodies and institutions other than UMT.

Dramatic Club arranges a number of dramas and plays originally written, directed and produced by the participants of UMT. The number of items produced by the Club at different occasions attracted appreciation from the relevant quarters, amused the participants and generated much interest among the audience.

Eagle Crest organizes extra-curricular activities and has contributed a lot in bringing about positive change in the participant-centered culture at UMT.

Alumni Club is a network of UMT graduates that are ambassadors of the University in the real world and provides the first hand information regarding the expectations of corporate sector from our graduates. Alumni Dinner, Alumni Focus Group Discussion, Get Together and many other functions are arranged by that club. Such events provide an opportunity to alumni to network and exchange experiences with those who are performing in other fields. The Club also helps in the placement of UMT graduates.

Executives Forum arranges interface with the executives and senior professionals and organizes activities concerning sports, dramatics, etc. that provide an opportunity to the participants to develop and exhibit their skills and talents.

Leaders Forum organizes seminars, dars-e-Quran, workshops and talk shows for the participants to build knowledge, create awareness and enrich the perspectives.

Literary Club serves as a platform of participants with literary taste and writing acumen. The club is meant to promote literary activities and helps the members cultivate their literary tastes and sharpen their writing skills. Different write-ups of the students are collected, presented and displayed by this club.

Social Welfare Club organizes fund-raising campaign or blood donation drives for the humanitarian cause and charity purpose and to help the deprived and under-privileged. The members learn to live and sacrifice for others and the good of society.

Sports Club organizes different sports events and tournaments in sports like cricket, football, table tennis, etc. The participants also get a chance to play against professional clubs and teams from different institutions. The Clash 20 Inter-University Cricket Challenge Trophy is successfully being organized by the Sports Club for the last seven years and it has now become an icon of cricket in Lahore.

Gal Zone, a female participants club at UMT, arranges female exclusive events, functions and activities on important topics and occasions such as seminars, talk shows, meena bazar, mehfil-e-milad, International Women Day. Such activities are vital for the development of participants.

UMT Events and Activities

Curricular, Co-Curricular, Extra-Curricular

The University of Management and Technology, formerly known as ILM, established since 1990, is the only educational institution in Pakistan who has the privilege to welcome the President of Pakistan, Prime Minister of Pakistan, Chairman of the Senate of Pakistan, Governor of the Punjab, and Chief Minister of the Punjab in its prestigious and worth recalling events.

Events provide meaningful avenues for the UMT faculty and students to disseminate research work and to interact and conduct dialogue with academicians, business practitioners and public policy makers alike. In the year 2010 alone, UMT hosted almost 100 events including International Conference on Textiles and Clothing, Clash 20 Inter-University Cricket Challenge Trophy, Job Fair 2010, and several seminars, conferences and workshops on topics of national and regional significance. The following events are important milestones in the history of UMT.

Leadership Award Ceremonies

UMT holds Leadership Award Ceremony in which successful participants of the educational and training programs of UMT are handed out the diplomas and certificates. The Leadership Award is given to the outstanding participant in each program, whereas the Excellence Awards are given to the participants demonstrating excellent performance in the program.

International Business Conference

The International Business Conference organized by the Pakistan Business Forum in collaboration with ILM, was really a remarkable feat in the history of Pakistan. Inaugurated by the President of Pakistan, Sardar Farooq Ahmad Khan Leghari, in Lahore on September 21, 1995, the Conference attracted more than 300 delegates from 33 countries around the globe and 500 participants from all corners of Pakistan. The delegates signed 143 Memoranda of Understanding (MOUs), worth US\$ 800 million for extending cooperation among the participating countries in the sectoral discussions pertaining to 20 different areas and sectors of the economy. General trading attracted 36 MOUs. 18 MOUs were signed in the field of textiles, 14 in financial services and 2 MOUs were signed in education and health worth US\$150,000 each.

The research and development, administration, and coordination responsibilities were undertaken by ILM whose participants, faculty and staff helped to turn the mega event in to a real success. The foreign delegates lauded the contribution of ILM participants who served as secretaries and coordinators in the round table workshops that culminated into the signing of 143 MOUs. The Conference extended a rich promise to ILM associates and affiliates. The participants benefited from the international exposure, interfaced with the corporate leaders in a multi-cultural environment, and gained access to the worldwide trade and business web for business, internship and employment opportunities, whereas, the faculty tapped the consulting potential.

The Conference concluded with the formation of International Business Forum (IBF) to network industrialists and businessmen worldwide for an economically sovereign Muslim World. In recognition to the meritorious services of ILM to make the Conference a real success, a permanent secretariat of IBF was established at ILM and Dr Hasan Sohaib Murad, the then Director General and Dean ILM was designated as its first Secretary General.

Since then International Business Forum has established linkages with business forums and associations worldwide, and has emerged as a unique platform for business professionals to capitalize from networking opportunities. A board of governors comprising of representatives from the USA, Malaysia, Iran, Turkey, Bangladesh, the Sudan, Pakistan and the Kingdom of Saudi Arabia has been formed to promote the cause of IBF. International Business Conference has been given a permanent status and 13th Congress accompanied by International Grand Fair is being held in Istanbul-Turkey in November 2010.

Business Leadership Seminar 1997

As the nation extolled its jubilee year in 1997, ILM, keeping up with its reputation, organized a 2-day countrywide Business Leadership Seminar '97 on "Setting an Agenda for Change" at Pearl Continental Hotel, Lahore, on December 15-16, 1997. Governor Punjab, Shahid Hamid, presided over the inaugural ceremony.

The Seminar attracted a mammoth gathering of distinguished figures from public and private sector, from academia as well as corporate world, and from all corners of the country. It provided the participants a rare opportunity of dialogue and interaction with experts and speakers who presented 50 papers in 18 research sessions, concurrently held. The presentations reflected upon the key issues and future challenges confronting Pakistan and helped devise an 'Agenda for Change' in areas like marketing, management, finance and accounting, information technology, economics, agriculture, industry and trade, etc.

The remarkable event attracted more than 600 delegates from all corners of the country.

ILM Convocations

First Convocation

In recognition to its standards par excellence and its contribution towards the national cause Hamdard University, Karachi granted affiliation to ILM in 1997. This milestone marked ILM as the first and the foremost institution in the country having affiliation with a domestic university for all of its graduate and under-graduate degree programs.

After getting affiliated with Hamdard University, a special convocation for ILM participants was held on September 27, 1997. The then President of the Islamic Republic of Pakistan, Sardar Farooq Ahmad Khan Leghari, was the chief guest of this august event, which was presided over by the Chancellor of Hamdard University, Hakim Mohammed Said. Governor Punjab, Shahid Hamid and Vice-chancellor Hamdard University, Dr M H Qazi, also marked the memorable occasion.

President of Pakistan awarded degrees to 156 successful graduates, while gold medals were awarded to 16 graduates for their outstanding performance in their respective academic programs.

Second Convocation

Chairman of Pakistan Atomic Energy Commission, Dr Ashfaq Ahmad Khan, was the Chief Guest of the Second Convocation of ILM, held in October 1998. While Chancellor of Hamdard University, Hakim Mohammed Said, presided over the worth recalling event. Dr Samar Mubarik Mand, Incharge of the team of scientists that conducted nuclear tests at Chagi, was the guest of honor on this memorable occasion marked by the presence of Chairman ILM, Professor Khurshid Ahmed and Vice-chancellor Hamdard University, Dr M H Qazi.

Hakim Said awarded degrees to 198 successful graduates, while gold medals were awarded to 16 graduates for their outstanding performance in their respective academic programs.

Third Convocation

Presided over by the Chancellor Hamdard University, Former Chief Justice of the Supreme Court of Pakistan, Justice Ajmal Mian, the Third Convocation of ILM was held on October 26, 1999 at Alhamra Hall, Lahore. In the event marked by the presence of Chairman ILM, Professor Khurshid Ahmed and members of the boards of governors of both the institutions, the honorable Chancellor Hamdard University conferred degrees upon 118 successful graduates of MBA(Professional), MBA(Executive), BBA(Honors), and BCS(Honors) programs, and awarded Chancellor's Gold Medals to the outstanding performers and top achievers.

Fourth Convocation

The Chancellor of Hamdard University, former Chief Justice of Pakistan, Justice (Retd) Ajmal Mian, presided over the fourth convocation held at Aiwan-e-Iqbal, Lahore, on November 18, 2000. While Chairman Board of Governors of ILM, Prof Khurshid Ahmad, and Rector ILM, Dr Hasan Sohaib Murad, also addressed the ceremony. The event marked the presence of Chairperson Hamdard Foundation, Mohtarma Saadia Rashid.

Chancellor Hamdard University awarded degrees to 304 successful graduates of MBA (Professional), MBA (Executive), MCS (Morning), MCS (Evening), BTTM (Honors), BBA (Honors), BCS (Honors), while 15 top participants received gold medals for their overall academic performance in their respective programs.

Fifth Convocation

Chairperson Hamdard Foundation, Mohtarma Saadia Rashid presided over the Fifth Convocation of ILM held at Aiwan-e-Iqbal, Lahore, on February 7, 2002. While Vice Chancellor Hamdard University, Karachi, Dr Ismail Saad was the chief guest of the ceremony. Dr Ijaz Shafi Gilani, chairman Gallup Pakistan delivered the keynote address. Rector ILM, Dr Hasan Sohaib Murad, and Dean ILM, Dr Rashid Kausar also addressed the ceremony. 323 successful graduates of MBA (Professional), MBA (Executive), MCS (Morning), MCS (Evening), MED, BTTM (Honors), BBA (Honors), BCS (Honors), and BEd received degrees in the convocation. Chancellor's Medals were accorded to 15 top participants while Rector's Medals were awarded to 3 successful graduates.

Sixth Convocation

The Chancellor of Hamdard University, former Chief Justice of Pakistan, Justice (Retd) Ajmal Mian, presided over the sixth convocation held at Aiwan-e-Iqbal, Lahore, on May 25, 2003. While Chairman Board of Governors of ILM, Prof Khurshid Ahmad, and Rector ILM, Dr Hasan Sohaib Murad, also addressed the ceremony. The event marked the presence of Chairman Dawood Group of Industries, Hussain Dawood, who as guest of honor addressed the graduates and announced Ahmad Dawood Excellence Award. The award worth rupees one lac shall be awarded to the most distinctive academic achiever of UMT. In this special convocation of Hamdard University for ILM, Chancellor Hamdard University awarded degrees to 685 successful graduates of MBA (Professional), MBA (Executive), MCS (Morning), MCS (Evening), MA ELT, MA ELM, MA Ed, MED, BTTM (Honors), BBA (Honors), BCS (Honors), MS E-business, MSc Mass Communication, while 39 top participants received gold medals for their overall academic performance in their respective programs.

UMT Convocations

First Convocation

The first Convocation of the University of Management and Technology (UMT) was held in April 2005 at the UMT Campus, Johar Town, Lahore. Vice Chancellor of the University of Engineering and Technology (UET), Lahore, was the Chief Guest. The guests of honor included Imran Khand (CEO Picsel Technology Ltd, UK), Dr Rafique Ahmad (Vice Chairman ILM Trust) and Dr Abdul Raouf (Sitara-e-Imtiaz, Advisor UMT). A total of 1028 successful graduates were awarded degrees, while 59 outstanding graduates were awarded Patron's medals.

Second Convocation

The second Convocation of the University of Management and Technology (UMT) was held on December 29, 2006 at the Aiwan-e-Iqbal Auditorium, Lahore. The Chief Minister of Punjab, Ch Pervaiz Elahi was the Chief Guest on the occasion. The guests of honor included Imran Masud (Minister of Education, Punjab), Mian Muhammad Mansha (Chairman Nishat Group), S M Muneer (Chairman Din Group of Companies, Karachi), Imran Khand (CEO Picsel Technologies, UK and ILM Trustee), Ch Muhammad Sarwar (Member Parliament, UK), Khalid Mahmood (Member Parliament, UK), Farooq Salman Murad (ILM Trustee), Dr Ehsan Riaz (Tricast Media, UK), Dr Rizwan Sheikh (Chairman PITB), Dr Rafique Ahmad (Vice Chairman ILM Trust) and Dr Abdul Raouf (Sitara-e-Imtiaz, Advisor UMT).

A total of 820 graduates were awarded degrees while 56 graduates received gold medals for outstanding academic achievements. The highest academic award, the Ahmed Dawood Gold Medal, was awarded to Ms Rakhshanda Shaukat of BS Computer Engineering. The award also carried a prize of Rs 100,000/-. S M Muneer, Chairman Din Group of Companies, Karachi, announced Rs 100,000/- annual award for outstanding student of the Textile Department.

Third Convocation

The third Convocation of the University of Management and Technology (UMT) was held on December 31, 2008 at its campus in C - II, Johar Town, Lahore. Senator Prof Khurshid Ahmad, Chairman Board of Governors, UMT, was the Chief Guest. Degrees of various programs were awarded to 633 graduates, of which 28 graduates were awarded Patron's and Rector's Medals.

The Ahmed Dawood Gold Medal was awarded to Dawood Qaseem of MBA Professional by Mr Shahzada Dawood, CEO Dawood Hercules Chemicals Limited. The Din Group Gold Medal was awarded to Akmal Mahmood Kalair, Bachelor of Science in Textiles by S M Naveed, Director Din Group. These two medals also carry a prize of Rs 100,000/- each. Parents, members of the teaching faculties of the university, vice chancellors of universities academicians, CEO's of leading companies and dignitaries attended the function. Prof Dr Rafique Ahmad, Ex-Vice Chancellor Punjab University and Vice Chairman Board of Governors UMT, was also present on the occasion.

Fourth Convocation

The Fourth Convocation was held on April 25, 2010 at the UMT campus. Dr Javaid R Laghari, Chairman Higher Education Commission (HEC) graced the occasion as chief guest. Dr Hasan Sohaib Murad Rector, UMT welcomed the guests and congratulated the graduates on completing their degrees. He also advised them to counter future challenges with resolve and dedication. Degrees in various disciplines at Bachelor, Master and MS level were conferred upon a total of 889 students including 552 graduates of the School of Business and Economics (SBE), 114 from the School of Social Sciences and Humanities (SSH), and 223 from the School of Science and Technology (SST). Graduates with outstanding performance were awarded with the Patron's Medal and Rector's Medal as per policy. Apart from these, Qurat Ul Ain Ali (BBA) and Sonia (BBIT) received the Ahmad Dawood Gold Medals for being the top position holders among business graduates. Tayyab Ashaq (BS Textile Engineering) and Arooba Sarfaraz (BS-TDT) topped the list of SST graduates to claim the Din Group Gold Medal along with an additional cash prize of Rs 100,000 each. Abdullah Saqlain (BS Electrical Engineering) secured the Sardar Muhammad Ghalib Gold Medal.

Cosmopolitan Character

Yet another factor that distinguishes UMT is its cosmopolitan character. The University is member of the widely acclaimed professional bodies such as AACSB International, USA; European Foundation for Management Development (EFMD), Belgium; Association of Management Development Institutions in South Asia (AMDISA), India; Academy of Management (AOM), USA; and Association of Management Development Institutions in Pakistan (AMDIP).

While 12000 alumni/ae of UMT are contributing to the development of economies and businesses and as such are making the difference inland and abroad, almost 4000 participants are enrolled from 5 continents across the globe, 28 countries of the world, and 68 districts of Pakistan.

These participants bring with them rich social and cultural perspectives and enrich the learning experiences augmented by full-time faculty members, mostly foreign qualified, including 32 PhDs of whom 24 are foreign qualified. Besides adding value to the learning perspectives and experiences, they also add color to the campus life by actively participating in the co-curricular and extra-curricular activities.

The student body representing overseas and foreign participants, the Overseas Participants Club (OPC) is an active contributor to the rich and diverse cosmopolitan culture and character of the University.

Our Investment

is reflected in the
commitment of the people
who interact in
initiating, invigorating, and
intensifying the learning processes
as learning agents;
these include resource persons,
participants, facilitators,
families of our participants,
prospective employers,
and the society as a whole.

Physical Infrastructure and Facilities

Compact and Efficient System

Approach

In contrast to the elite class image of private institutions of higher learning, the University of Management and Technology abhors any linkage with any particular class. It sincerely believes in providing education to all.

It attempts to harness the leadership and managerial potential of all class segments, and truly serves as a mechanism for the transfer of knowledge to all who demand it.

Luxurious and glamorous style so evident in moneymaking institutions is strictly avoided in a highly professional and work-oriented culture.

UMT Campus Project

The UMT campus master plan includes all features of a modern university meeting international standards and offers excellent facilities for teaching and learning. The first phase of the UMT campus project, comprising of the academic block, external works, utilities and supplies, was completed in June 2007, with a covered area of 200,000 sq ft. The entire student body, faculty and staff members shifted to the purpose-built campus in a phased manner. However, extensions to the existing academic block to cope with the increasing number of students and expansion in academic programs and disciplines were part of the campus master plan which is being carried out now.

The objective of this extension project is to create space on the eastern side of the existing academic block by covering around 50,000 sq ft on the roof of the building and creating a separate structure on eastern side of the academic block. This aims to cater for projected increase in the number of students and faculty. The proposed expansion in the UMT campus will create space for more laboratories and classrooms, and expedite the development that has been envisaged by the University management in terms of academics and physical infrastructure. The campus extension will be carried out in Phase II and Phase III respectively.

The major components of the second phase of the campus project include construction of the UMT School of Law, faculty apartments, social sciences block and a mosque. The foundation stone of the University mosque has already been laid. Based on basic elements and principles of the traditional mosque on the prototype developed by our Holy Prophet (PBUH), the proposed mosque has been conceived as landmark and hub of the UMT Campus and surrounding area. The use of natural elements such as sun, water, vegetation, natural light and intrinsic factors like color, rhythm, harmony in the traditional man made elements of mosque architecture i.e. arches, domes, minarets, courtyards, ablution, jali, calligraphy, and tile work etc has been fully exploited in the proposed design of the UMT Campus Mosque.

A well-equipped gymnasium, auditorium and community center are being made part of the plan. The auditorium will be fully equipped with board room, press room, projection room, back stage and other facilities. The community center will be complete in all respects, comprising of a bank, post office, venues for student extra-curricular activities, cafeteria with separate dining facilities for male and female students, counseling rooms for the participants, common rooms and much more. The second phase of the project would also comprise of much needed additions to the existing campus infrastructure such as examination halls, demonstration halls, classrooms, reception, and information desk, student sitting areas, foyers, entrance halls and lobbies.

The third phase of the campus project would comprise of the School of Engineering (academic building and laboratories), laboratory equipment, library and research center, and UMT School of Medicine.

Once completed, the 160 kanal purpose-built UMT campus would meet all standards of a modern university worthy of its status as a premier institution of higher learning.

Library and Learning Resource Center

Mission

To serve the University in its educational and research initiatives by providing intellectual platform to support scholastic innovations, proactively delivering learner-centered services by deploying cutting edge technologies and developing learning materials in various formats

The University of Management and Technology (UMT) supports its academic programs and research initiatives through a state-of-the-art Library and Learning Resource Center. The UMT Library actively supports learning and is committed to the dissemination of knowledge and improvement in the intellectual content of its users. The intrinsic focus of the library is to make available the persistent intellectual linkage required to build specific resources and to pave the path towards attainment of rare to-be-found scripts, contents and substances for researchers and students.

The number of corporate clients and alumni who continue to use our services on a regular basis speak of the quality of our resources. The development and enhancement of services designed around the broad-spectrum of contents and concepts are done on continuous basis.

Learning Resources

The library acquires high quality instructional and other learning material to facilitate users' requirements and demands of the curriculum, and provide access to information that can be utilized in all spheres of the academic as well as the professional lives of its patrons. The Library holds 50,000+ collections of books, required readings, comparative analysis and other learning materials on academic as well as on various disciplines of general interest.

General Collection

Approximately 40,000 circulating titles support course requirements, research needs and supplement the wide variety of patrons' interests.

Reference Collection

Reference Collection includes basic research tools such as dictionaries, encyclopedias, handbooks, almanacs and bibliographies on several topics. It also holds directories of associations and demographic data and reports.

Theses and Projects

The library acts as a depository for UMT research and maintains a collection of theses, dissertations and projects produced by students of final-year graduating classes and also the theses and dissertations published by other institutions of higher learning.

Text Books Collection

The collection consists of textbooks, read-outs and photocopies of articles recommended as course readings. Borrowing of text books collection is limited to some definite period of time. Normally, these resources are consulted within the library.

World Bodies Collection

The materials published by national and international research organizations like the World Bank, United Nations, Asian Development Bank, International Monetary Fund, International Trade Center, PIDE, ICG, and SPDC are placed separately in World Bodies Collection. This collection mostly contains world data, demographic statistics and economic trends.

Government Publications

The library acquires government documents related to the study and research needs of its users. These documents highlight important statistics, budgets, census reports, various surveys and other materials published by the federal and provincial government agencies, ministries and divisions.

Urdu Collection

This comprises all publications the library has and receives in Urdu. It consists of Urdu Literature, translations of the Holy Qu'ran, Seerat-un-Nabi (PBUH), Ahadiths, Islamic philosophy, theology and other subjects.

Audio/Video Collection

The audiovisual materials support the course and research needs of students. The audio visual collection consists of audio/video cassettes, CDs and DVDs that contain UMT video recordings, current affair commentaries, interviews and biographies, environmental issues, globalization, culture and religion, gender and identity, psychology, motivational skills, leadership skills, language learning skills, IELTS, TOEFL and other international testing services preparatory materials.

Research Publications

The library cultivates an atmosphere of research and development by escalating the UMT community's awareness of research work and their relevance. Research publications collection is made up of research materials extensively used by the patrons for their research. Research reports based on industry analysis, working papers, term papers, and small sized publications are placed in this collection.

Annual Reports

The library houses annual reports of the companies listed at the stock exchanges in Pakistan for analysis by the participants. At present, 5000 annual and half-yearly reports of more than 350 companies are available in the library.

Pakistan Foundation London Collection

Noteworthy individuals and esteemed organizations are invited to support the cause of knowledge dissemination through philanthropy, sponsorships and volunteering. The Pakistan Foundation London (PFL), a UK-based charity organization committed to the noble cause of education, has donated 5000+ books. The PFL Collection covers psychology, political science, economics, management, leadership, home-economics, sports, arts, English literature, autobiographies, etc. The books are arranged in a separate section. PFL collection contains certain rare books having publication dates ranging from 1890s to 1960s.

CAD Collection

More than 300,000 selected newspaper and magazine articles on 53 broad subject areas covering different sectors of the economy, national and international affairs, and social issues related to the Pakistani society have been made available through the Current Affairs Database (CAD) Collection. This collection is unique in Pakistan and is a tremendous resource base.

Periodicals (Current/Archive)

The library subscribes to 15 local and foreign newspapers including Financial Times, Khaleej Times, International Herald Tribune, and almost 150 current international and national journals and magazines. Periodicals are arranged subject-wise in alphabetical order. Back volumes and issues are available in the archive section. Newspapers are listed in the periodical section. Latest issues of newspapers are displayed on the newspaper stand while back issues, bound month wise, are housed in the newspaper archive section.

Digital Resources

The UMT library provides access to several online digital resources that comprise of a wide range of eJournals and eBooks related to various academic disciplines. Many more ePublications are being made available through this facility to provide campus-wide access to more than 14,000 peer reviewed leading international journals and over 35,000 eBooks. The online databases are accessible through digital resources website at http://library.umat.edu.pk/digital_resources.html

Learner Support Services

The integrated library system facilitates lending, reference, information access and offers comprehensive portfolio of services to the students, faculty and researchers. The LSS assists the information needs of the UMT learning community. A key focus of the LSS is to enable users to utilize these learning facilities to the maximum.

Lending

All registered patrons with valid UMT Library ID are eligible for library loans with varying borrowing privileges. Renewal and reservation services are also available for the materials already borrowed. Library materials on reserve, periodicals, reference, government publications, A/V, CDs, CAD files and items with restricted access can not be borrowed.

Searching Assistance

If the required item is not found on the shelf, searching assistance can be requested by filling in the search assistance form at the Circulation Desk or simply by contacting the Help/Circulation Desks.

Inter Library Loan (ILL)

The aim of the ILL is to render relevant information services; modus operandi is to work in conjunction with libraries and other institutions to implement bi-way cooperation. Library extends instant help without zero-waiting of time to those who want to benefit from other important and renowned libraries of the country. The ILL service helps staff, faculty and students to obtain material that is not available in the UMT Library.

Multimedia Section

The multimedia section is responsive to new technologies in educational media and is equipped with CD/DVD/audiocassette/videocassette players. It is also connected to the digital cable TV network.

Photocopy Services

The photocopy facility is available within the library under strict code of copyright laws. To avail this facility, one needs to purchase the photocopy card from the Circulation Desk.

Timings

The library is open six days a week from 0800 hrs to 2200 hrs except for certain designated official holidays.

Learning Innovation and Research Support

Our strategic thrust is to enhance well-researched learning resources and knowledge creation by further integrating services that allow our users to exploit these immense repositories of knowledge and information. We aim to proactively understand and respond to the information and learning needs of our clients. We chalk out plans and conduct research on development of knowledge resources and their applications by exploring new horizons of learning, innovation and research support.

Reference Services

Experienced and learned library professionals are always willing to assist users with comprehensive information and research materials. The Reference Desk is staffed throughout the day to help researchers in locating information and data by using the latest print and electronic resources. The Reference Desk provides support as to the use of library collections, and responds to in-person, phone and e-mail subject inquiries. Reference assistance includes answering directional and reference queries, providing instruction, know-how of searching resources, technical assistance, and referral services. If required, users can also be referred to other libraries, offices or individuals.

Literature Searching Services

The library offers assistance to the users in identifying sources and resources, extracting facts and figures, and exploring data and databases. It extends assistance and cooperation in preparing proposals, conducting projects, compiling statistics for reports, carrying out systematic reviews and writing a thesis or a term paper. Experienced professionals provide additional support in planning, implementing and evaluating literature searching services by tapping huge repositories of scholarly information.

User Education and Information Literacy

The Library and Learning Resource Center's services employ in-depth instruction and cognitive methodologies for the effective use of information services, facilities, and resources. Regular library instructional sessions are conducted to enhance information-handling skills of the users and even to increase the effectiveness of research. Trained and skilled library staff design, develop, improve, assess and evaluate the delivery of information literacy programs. They also lend a hand to users in becoming information literate. Instructions are organized for small groups, as well as for whole classes.

Document Delivery Services

The library acquires distant-material by overcoming access barriers through its document delivery service. Materials, especially journal articles, which are not available locally, are acquired from overseas.

Current Affairs Database

Current Affairs Database (CAD), a classified database updated on a regular basis, developed by the UMT Library provides quick and easy access to selected newspaper and magazine articles, and is of immense value for library users.

Library Website

The Library has developed an extensive website that serves as a gateway to information. It offers links to the library catalogue, electronic journals, local resources, web resources, and other information searching tools. The resources are categorized and managed in such a way that the user is conveniently connected to the desired information.

Digitization Project

The knowledge services of the library will be introduced soon with the creation of databases comprising of journal articles, current affairs database collection and research produced by UMT students, and faculty. This will have standardized features and can function on speedy information networks. Painstaking efforts are being undertaken to transform all existing large non-electronic ingenious information resources into e-format and integrate them into the overall family of online databases.

Knowledge Contributor

Knowledge dissemination is an integral element of the UMT Library. It furthers its objectives in education by sharing learning resources with other institutions. The strategic thrust of the UMT Library is to help learning communities by providing quality learning materials to other institutions. The UMT Library, with the help of the Pakistan Foundation London (PFL), UK, has donated books to Fatima Memorial College of Medicine and Dentistry, Children's Hospital and Institute of Child Health, Shalimar Hospital College of Nursing, ILM Colleges, Gates College Lahore, and Defence Public School (Junior Campus), Lahore.

Learning Resources Development and Organization

On average, the library adds 3000 books annually to its collection. For quality and richness of contents, the addition criterion is need-based only. Faculty, researchers and students are encouraged to request, suggest and recommend books for their courses, research and other study needs. The acquired collection is processed and organized as per international standards of classification and cataloging rules.

Information Processing Center (IPC)

Mission Statement

To provide the best computing facilities to all worthy participants for all schools with ultra-modern computing resources and the highest degree of privacy, security, and professionalism.

Areas of Activity

The Information Processing Center (IPC) at UMT provides state-of-the-art computing facilities. It accommodates more than 4000 participants and serves 1200-1500 participants daily. Our standards meet international requirements of highly advanced IT equipment and services such as:

- 156 Latest Intel Core 2 Duo systems
- 100 Intel P-IV upgraded systems
- 10 Apple 21.5-inch iMac (all-in-one design)
- 2 Computer Classrooms with 36 PCs each
- 2 HP 9040 Laser Printers
- 14Mbps CIR Internet Bandwidth
- HP Laser Color Printers
- Scanners and CD/DVD Writers
- Sun Ray Thin Client Virtual Technology

All the participants of the University are being provided with the latest IT facilities with highly skilled and professional support and assistance available in an ideal work environment. These services include:

Login Accounts

Each participant is issued a unique login, Email, and Help Desk ID at first visit. The username ID of these three accounts is the same but the password is required to change on first login because of the security reasons.

Unlimited Internet Access

The IPC is facilitating high speed unlimited Internet access of 14Mbps CIR Internet bandwidth, 6Mbps from Pakistan Education and Research Network (PERN), a project of Higher Education Commission (HEC) and 8Mbps optical link from world call. A total of 14 Mbps bandwidth is allocated to three different areas, 6Mbps for IPC (Computer Center), 6 Mbps for Office of Information Technology (faculty and staff) and 2Mbps for Web, Mail and FT Services. PERN has conducted a survey and approved Optical Fiber Link for greater bandwidth.

Access to HEC Digital Resources

Participants can access the immense digital resources managed and provided by the Higher Education Commission (HEC) via UMT website in IPC as HEC restricts the access to these resources in their recognized institutions only.

150 MB Secure Data Storage

The IPC provides 150 MB secure data storage (Z:\Drive in “My Computer”) per participant for assignments, project, and other research work. Participants can access this data from any networked computer. The data back-up is scheduled by the lab administration on regular basis. This storage will be doubled in the near future.

Software Applications and Development tools

The IPC facilitates all types of software recommended by resource persons. These include graphics, web development tools, programming languages, databases, documentation, project management, accounting and other advanced software.

Open Source Support

Open Source software are warmly welcomed in the Asian region, especially in India, Bangladesh, China, Malaysia and Pakistan. We have three Linux based servers in the Datacenter, Squid-Proxy (running on Fedora Core 5), SoftBankd (running on CentOS) and NFS Server for Network Installing (running on Red Hat Enterprise Linux 4). To gain familiarity with the open source technologies, participants are being provided with Linux OS (Red Hat Enterprise Linux 4) and other Open Source software e.g. Open Office, Linux Apache MySQL and PHP (LAMP) etc.

Low Cost Laser Printing

The IPC supervised latest printing facilities include 2 heavy duty HP 9040 laser printers having the capability of 40 ppm (pages per minute) and automatic two-sided printing (duplex printing) with 100-sheet multipurpose tray and 1,100-sheet capacity and HP Laser CP1515n color printer.

Scanning and CD/DVD Writing

The IPC has provided 3 HP and Acer scanners to its participants. Students can scan printed material to soft copy and this can save time that would otherwise be spent on typing. The Center has 1 CD writer, 1 DVD writer and 1 Super Drive (which support both CD/DVD functions). Students can burn their software from IPC Soft, projects and other important documents to CDs and DVDs for backup purpose.

Support and Assistance

A team of 10 highly qualified, skilled and cooperative IT Professionals is serving the department. This assistance can be related to logins, Internet, software, printing, and scanning, etc.

WiFi (Wireless Connectivity)

The IPC provides wireless connectivity (WiFi) in its premises. The University is considering expanding the coverage area of wireless connectivity the entire campus in the near future.

IPC Team

Network and System Administration team is responsible for smooth and reliable services from server-sides like Domain Controllers, File-Servers, Proxy-Servers, and Print-Servers. Database and Final Project team manages Database-servers and provides assistance to the students related software problems as well as final project students. This team is also responsible for deploying all software requirements in IPC. Network Support team is responsible for overall client-side network support and troubleshooting. Hardware and Daily Reporting team ensures total display of 300+ nodes, hardware maintenance and daily hardware reports.

UMT Hostels

Appropriate hostels – UMT Lodges – for male and female participants, with pick and drop facility, have been provided as a necessary requirement to maintain educational standards across the board, and to provide equitable opportunities to day scholars and outstation and overseas participants. The University hostels are situated at Wahdat Road. The hostels offer independent messing and recreation areas. All rooms are well furnished and have attached bath facility. The hostel life further adds to the already rich learning experience at UMT. The boarders come from diverse social and cultural backgrounds, nevertheless as part of community they live like a family. They interact, help, support, encourage, and guide each other and enrich their perspectives. Discipline, collegiality, team-spirit, fun, and learning are the features that reflect the life and times at UMT Hostels. Currently almost 450 male participants and 150 female participants are residing in the UMT Hostels.

Scholarships and Financial Assistance

UMT has been established by a not-for-profit organization. As distinct from the business like educational ventures, the financial values of UMT reflect cost-effectiveness approach. Financial support is provided to the qualifying and deserving participants. Since its inception, the University of Management and Technology firmly believes in providing equitable access to higher education. In each class, about twenty percent of participants receive full or partial waiver of tuition fees. So far more than two thousand participants have benefitted from this facility. These waivers are provided in confidence to protect the interest of the beneficiary. UMT provides generous financial assistance on need-basis, on merit, and in shape of special scholarships to ensure that those who are admitted to a program are not left behind merely on the basis that they cannot afford the fee. However, there is a fair and transparent process for the grant of need-based financial assistance.

Participants desirous of getting scholarships or financial assistance can apply on the prescribed 'Financial Assistance Form' along with the necessary documents to the Office of Registrar at the time of admission.

Merit Scholarships

Merit scholarships are granted to the participants seeking admission in bachelor degree programs at the time of admission on submission of proof of marks/grades obtained in the Intermediate/A-level examination. Following are the categories of these awards:

- i) Top five position holders from any Board of Pakistan get 100% tuition fee discount
- ii) Participants who have obtained 85% or above marks in Board Examination get 75% tuition fee discount
- iii) Participants who have obtained 80 - 84.99% marks in Board examination get 50% tuition fee discount
- iv) Participants who have obtained 75 - 79.99% marks in Board examination get 25% tuition fee discount

Three As in A-Level: 50%

Two As in A-Level 25%

Need-based Awards (Qarz-e-Hasana)

Participants desirous of getting Qarz-e-Hasana shall apply on the prescribed Financial Assistance Form along with the necessary documents as mentioned in the financial assistance form to the Office of Registrar. Qarz-e-Hasana is returnable in equal monthly installments within three years from the date of first employment and it is not applicable an admission fee and first quarter fee.

Shaheed Hakim Said Scholarships

Shaheed Hakim Said was a great educationist who was one of the finest exponents of eastern medicine and one of the founding members of ILM Trust. To honor him, two scholarships per year are available for eligible participants. Participants domiciled outside Punjab, obtaining at least 65% marks or equivalent in Intermediate/ A-Level/ Graduation, get 50% tuition fee discount.

Khurram Murad Scholarships

In the honor of a great thinker, writer and orator whose writings and speeches have inspired many young men and women all over the world, and who is also one of the founding members of ILM Trust—Khurram Murad, the University offers five Khurram Murad Scholarships per year. Participants having foreign nationality who fulfill the admission criteria of any degree program of the University get 50% tuition fee discount.

Justice A R Cornelius Scholarships

To pay tribute to the former Chief Justice of Pakistan, Justice A R Cornelius, UMT offers three scholarships per year for minorities with 50% tuition fee concession. Participants belonging to minorities and having obtained at least 65% marks or equivalent in Intermediate/A-level/Graduation examination may qualify for these scholarships.

Awards for Outstanding Sportsmen and Debaters

Outstanding sportsmen and debaters are awarded 50% tuition fee concession on submission of credible evidence.

Ahmed Dawood Gold Medal

Ahmed Dawood Gold Medal is awarded annually to outstanding student of the year according to the prescribed criteria. This award includes cash prize of

Rs 100,000/-.

Awards for the Alumni

The UMT alumni/ae do not have to pay the admission fee. However, they are given tuition fee discount as per the following criteria:

Sr No	CGPA	Financial Award
1	4.00	100% discount in tuition fee
2	3.9 to 3.99	90% discount in tuition fee
3	3.5 to 3.89	70% discount in tuition fee

4	3.10 to 3.49	50% discount in tuition fee
5	2.5 to 2.99	35% discount in tuition fee
6	2.10 to 2.49	25% discount in tuition fee

Kinship Awards

The kin of alumni and existing participants receive tuition fee discount as under:

First kin: 20% tuition fee discount

Second kin: 30% tuition fee discount

Third kin: 40% tuition fee discount

Kin includes brother, sister, husband, wife, father and mother.

Our Success

is reposed
in the confidence
of our participants
that their today
is better than yesterday
and the best is yet to come.

The Life after UMT: Challenging and Rewarding

Pathways to the Real World

Demand for UMT graduates is high. In the past few years, UMT has been ranked in the preferred pool of select institutions from where corporate sector recruits professionals and future leaders. Most of the graduates are employed in the first four to six months.

People come to UMT for a number of reasons: to gain more control over their careers, to strike off new directions, to strengthen credentials in specific fields, to get out of something which becomes stagnant, and to turn it into absorbing, interesting and rewarding change. Making more money may also be a very important goal. But in reality when participants are ready to choose their jobs, this criterion sinks under the weight of much more compelling decision factors: self-owned business, a great company, a good boss, a new product, a new geography, a promising industry or exposure to a new technology.

However, for nearly everyone, from those who decide to go to work for major multinationals to those who right away launch their own business, the reason they cite most often for taking the position that they do is the chance to lead and make a difference. It all depends upon what you want to do, what you can do, and how and where to find it! Studying at UMT is not an end in itself. Participants always consider it as the beginning of a lifelong investment. UMT is geared to help them to make the most of their lives and nowhere is this more important than in the career resource center open to them.

Offering Career Advisory and Information

The Office of Participants Affairs (OPA) is a dedicated advisory and information resource serving participants and recruiters by offering career management services and also by forging meaningful relations with the industry. It prepares the participants for first career choice after graduation, strategic career shifts, provides access to job opportunities, and equips them with the tools needed to define career choices.

OPA help starts soon after a participant arrives at UMT. All participants are required to take stock of the career situations. Throughout the year, OPA provides access to careers reference texts and offers workshops for planning and stocktaking.

These workshops provide information and training in career decision making, resume writing, job search strategies, networking, job market research, interview techniques, job offer analysis, and compensation negotiations. Career seminars organized by OPA help participants clarify their career interests, set realistic goals, and learn how to present themselves effectively. The sessions involve small groups led by experienced facilitators, who guide the attendees through a series of exercises designed to assist with life/career choice. However, there is a nominal commitment fee for such seminars.

OPA conducts mock interviews that are recorded and critiqued to improve the interview skills of participants. Alumni/ae play a key role in these efforts by returning to talk about their work experiences, conduct mock interviews, and help participants write their resumes. Some participants elect not to undertake time-consuming job seeking campaigns during the program. If a participant thinks that it is inappropriate during studies, then OPA may provide support for six months following completion of the program. Thereafter, assistance is available as per request on payment of service charges.

Monitoring Performance of Graduates

OPA also conducts research and surveys to get feedback from the employers regarding performance of UMT graduates at workplaces in order to help the graduates develop themselves as per employer's expectation. For the purpose, OPA arranges focused workshops and short courses for relevant training. The feedback from the employers about UMT graduates is regularly passed on to the faculty to bring about necessary changes in the curriculum and in the development process, in purview of industry requirements.

Networking Alumni

OPA is also engaged in the networking of alumni. For the purpose, it organizes alumni reunions, maintains and updates the alumni contact list, regularly tracks and facilitates alumni in career placement and advancement, and arranges workshops, get-togethers and seminars for their development and help the alumni network, refresh their memories, share their experiences, and benefit from each other.

Harnessing Industry Linkage

OPA maintains strong links with the personnel and human resources managers of leading companies. It organizes Job Fairs and invites companies to give presentations about their work and about job opportunities, which they offer, and also to hold personal interviews with participants, either at UMT or elsewhere for on-campus or off-campus recruitment. To this end, OPA occasionally distributes a report containing detailed professional biographies of UMT graduates and participants to over 200 prospective employers of different organizations. The objective is to ensure that prospective employers know about UMT educational programs and the characteristics of the people who attend them.

So far more than 4500 alumni/ae have found better job placements through the closed loop interaction between UMT and the world of work.

Our Alumni, the World of ILMIES

Our Pride and Partners

As ILM celebrates its 20th anniversary, the whole community of teachers, staff, alumni, and all stakeholders remain increasingly proud of the impact of those who have graduated from ILM when it was affiliated with Hamdard University from 1995 to 2004 and University of Management and Technology since then. The rising trend shows increasing confidence and trust of the families as ILM/UMT evolves as an institution of excellence capable of meeting all expectations of the parents and participants.

It is worth noting that the graduates of ILM/UMT are working in almost all major sectors of employment. This demonstrates that curriculum of UMT fulfills the requirement of the corporate sector and graduates are recognized for their performance and effectiveness.

Similarly, the distribution of the total placement according to the broad spectrum of the core functions of management also shows fairly even composition. As such, the graduates of UMT can find opportunities open across all core functions and pursue their unique ambitions and aspirations with freedom and confidence.

The industrial base of Pakistan consists of variety typical of any emerging economy in terms of size and scale. The data shows that UMT graduates have found opportunities in all types of companies, large scale multinational or national as well as small or medium. This is again a very robust indicator of the acceptance of UMT graduates and their formidable presence.

UMT has always drawn its enrollment from all over the country as well as abroad and as a result its graduates are currently placed all over the country. In terms of geographical distribution, the global presentation is symbolic and promises avenues of networking in future. When UMT graduates walk out of their alma mater to the real world they are whole heartedly received by their seniors and supported and facilitated in every respect. The combination of knowledge and access to an exclusive growing network strengthens the chances of favorable placement and projection in all regions.

The above data indicates the projection and contribution of ILMIES. It clearly demonstrates the excellence, richness, and formidable presence of the class of ILMIES. The ILMIES community looks forward to the future graduates of UMT to strengthen their organizations and projects. As sons and daughters of the soil, they adhere to the cherished corporate values of meritocracy, hard work, institutional loyalty, patriotism, respect of family values, integrity, and eagerness to leave a legacy of results and roles to be emulated by future generation. This is in contrast to the elitist culture promoted by typical private sector institutions which is built upon the notion of exclusive rights to superior privileges without any concern for values or merit.

Our Opportunity

is manifest
anywhere, anytime
when anybody
brilliantly imagines,
truly believes,
profoundly desires,
and sincerely sacrifices,
to provide
quality leadership
and brings out the best in
individuals and organizations.

Admission: The Choice is Yours

Aiming to be the First, the Best, and the One on Top

What is your philosophy about education? What is quality to you? What kind of career do you want? What kind of companions do you want? What kind of institution would you prefer? Answer to all these questions is important as regards your future. The institution should be able to help you to pursue your interests and provide you with opportunities you deserve. Not all institutions are alike. Not all people are alike. Not all have same destiny. Not all have same motivation.

Institutions claim philosophy, results, and quality. It is all up to you to go for the first, the best, and the one on the top. Choose your institution carefully. This is one of the most important decisions you will make in your life. Make sure it is the right one.

Each year UMT attracts talented professionals, potential business and technology leaders and future knowledge professionals, from a wide range of academic and cultural backgrounds with the potential to become tomorrow's leaders.

While recruiting participants, we look for three factors: academic performance, personality and leadership capability. Take a chance, only if you are highly motivated, sharp-minded, value-oriented and ready to take up the leadership challenge.

Academic Performance

In reviewing academic credentials, the Admissions Committee assesses a candidate's aptitude for intense learning. Class ranking is given weight to determine competitive position of the candidate. As a pre-qualification, mark sheets or transcripts of grades from secondary school to the most recent level of education are required. Normally a good bachelor's degree of 16 years of education or equivalent is required for entrance into graduate level, while intermediate or 14 years of education or equivalent is required to start under-graduate level of education. In the absence of bachelor degree or intermediate certificate, certain approved professional qualifications can be considered.

Personality

Evidence of broad personal qualities is sought throughout the application. Excellence, maturity, realism, ambition, and a sense of purpose are all essential qualities, which will enhance the enjoyment of the program and the potential for an exciting and successful career ahead.

Leadership Capability

Leadership potential is the most important aspect of a candidate's overall profile, which ultimately determines his or her suitability for admission. Profiles, awards, job descriptions, and essays submitted with the application form are used to evaluate leadership potential.

Reports from referees and interviews also form an integral part of this assessment. In search of winners and heroes, the Admissions Committee studies achievements and failures in the context of personal and professional opportunities and constraints. It values the self-assessment of the candidates, in view of past performance, present progress and future potential, and also how others perceive them. These points are taken together to form a composite picture of the candidates in the light of which it decides whether to offer a place on the program or not. Every year, representatives of UMT Office of Admissions participate in educational exhibitions and visit a number of cities in Pakistan and abroad to conduct orientation seminars and to offer evaluative interviews and information. Candidates from other cities of Pakistan and abroad should check with the Office of Admissions to obtain the schedule, or they may visit the website: www.umt.edu.pk

How to Apply

If you want to apply, please check the following.

- Study this brochure and application form carefully.
- Join us in one of our information evenings or orientation sessions.
- Visit our website www.umt.edu.pk
- Obtain the latest admission schedule and application materials from the Office of Admissions.
- Discuss the program with friends, family, colleagues, including your current employer, if that is appropriate.
- Talk to a current participant or alumna/alumnus of the program. We would be glad to put you in touch.
- Try to visit UMT. We welcome prospective candidates.
- Come and join us in a class and experience first-hand, what being a participant at UMT is like.
- Ask for a career counseling session with the qualified, professional and motivated career counselors and advisors and seek guidance from them.
- Make sure you are confident in your written and spoken competence, if English is not your first language.
- Initiate the application procedure by completing the admission form available upon request from the Office of Admissions.
- Attach all relevant mark sheets, certificates, letters, essays, etc, after you have duly filled in the application form.

- Request a non-committal opinion on submission of the preliminary profile, in case you are unsure of your suitability for a certain program.
- Forward your application according to the published deadlines.
- The earlier you apply the better are your chances of securing a place, and the less likely you are to find yourself on the waiting list.
- There is a non-refundable application fee. Details of fees and the cost of living are included in the application form that accompanies this brochure.
- Submit the application, complete in all respects, to the Office of Admissions.

Get UMT Admission Test (UMTAT) card to know about the date and venue of UMTAT, for which two separate versions for graduate and under-graduate programs currently exist. Only UMTAT cardholders are allowed to appear in the admission test. UMTAT card also serves as the provisional UMT identity card till the issuance of the original card.

After appearing in UMTAT, confirm the date and time of display of the merit list.

Check your name in the merit list on the date announced and if you have been declared successful, confirm the last date for submission of dues.

Online Application

Admission schedules, program information, and application forms are also available online. Interested candidates may apply online. For the purpose, visit: www.umd.edu.pk

Deferred Admissions

Candidates are expected to apply for admission to the term in which they intend to enroll. Under unusual circumstances, an accepted applicant may seek a deferral by writing to the Office of Admissions.

Re-application for Admissions

If your application to UMT is not successful, re-application is permitted, but not for the same academic session. Candidates previously accepted that chose not to attend may also re-apply.

International Applicants

For candidates who are unable to visit UMT for interview or test, we can usually arrange an interview with someone in the country of residence. In case, it is not possible then applications of foreign candidates may be considered without interview or test.

When to Apply

Places are offered on a continuing basis throughout the year and early application is strongly recommended.

There are two cut-off points for graduate degrees and two for under-graduate degrees.

The exact dates can be found from the Office of Admissions.

For information regarding admission schedule and program details, interested candidates can also visit the university website

www.umt.edu.pk

Our Clients: Our Trustees

Partners in Success

Strong links with industry are of prime significance for a learning institution to be truly successful. UMT has forged a meaningful and mutually beneficial relationship with the industry rewarding for all the stakeholders.

The University works closely with the organizations, companies and institutions across a broad spectrum of activities in order to respond to the market needs, global changes, local challenges, societal responsibilities, and national objectives.

Following is an alphabetical list of select organizations that have recruited our graduates, or have engaged UMT for training of employees, improvisation of systems, achievement of international standards for certification, research surveys and projects, consulting and business solutions.

Such institutions and organizations are in fact our clients and our trustees, and we always value them as our partners in success. These organizations include but are not limited to:

- AA Printers
- Aamer Traders
- Abdul Qadeer Laboratories
- ABN AMRO Bank
- Accord Textiles
- Adamjee Insurance Co., Ltd.
- Agha Khan Educational Services
- AGHS Legal Aid Cell
- Ahmed Jamal (Pvt) Ltd.
- Ali Gohar and Company
- Align Technologies
- Allied Bank of Pakistan
- American Center
- American Express
- American National School
- Amira Textiles
- Ammar Textiles
- Angora Textiles
- ANS Enterprises
- Ansari Glass and Steel Furniture
- Anwar Khawaja Industries
- Army Public School
- Army Welfare Pharmaceuticals
- Asia FX
- Asif Associates (Pvt) Ltd.
- Askari Exchange Islamabad
- ASR Resource Center
- Associated Consultancy Center (ACC)

- Associated Consulting Engineering
- Association of Overseas Technical Scholarships (AOTs)
- Atlas Honda Ltd.
- Atta Steel
- Avari Hotel
- Babar and Zafar Bros. Co
- Balsam House School
- Bank Al-Falah
- Bank of America (BOA)
- Bankers Equity Ltd.
- Barex
- BASF
- Berger Paints
- Best Food Ltd
- Big Mac Food Ltd.
- Bunny's Bread
- Capital Sports (Pvt.) Ltd.
- Cellular House (Dealer Paktel)
- Century Paper and Board Mills
- Chaudhri Group of Industries
- Chenab Builders
- Ciba Geigy Pakistan Ltd.
- Citi Bank
- Civil Services Academy
- CMB Worldwide Cargo System
- Coca Cola
- Comfort Knitwears
- Command and Staff College, Quetta
- Country Juices
- Creative Builders
- Cres Bank
- Crescent Model Higher Secondary School
- Cyber Net
- Dadex
- Daily Jang
- Daily The News International
- DAL Corporation
- Dawn Pressure Cooker
- Dawn Sports
- Decora Plastic Industry
- Descon Engineering (Pvt) Ltd.
- Design Development and Fabrication Co., Ltd.
- Digital Communications
- Din Textile Mills Limited
- Diners Club of Pakistan
- Directorate of Soil Fertility
- District Public School
- Divisional Public School

- Doha Bank
- Ehsan Group of Industries
- Ejaz Group
- Elahi Group
- EME Cooperative Housing Society
- Engineering Associates
- Ericsson
- Falcon Public School
- Fashion Invaders
- Ferozesons Publications (Pvt) Ltd.
- FFC Grammar School
- Fidelity Bank
- Fillcop Leasing Company
- First Capital Equities Ltd.
- Forward Sports (Pvt.) Ltd.
- Freed Printing Associates
- Fuji Color Pakistan Laboratories (Pvt) Ltd.
- GFC Fans
- Geonex International Operations Inc.
- Ghee Corporation of Pakistan
- Global Enterprises
- Global Forex
- Golden Blue Group
- Granada Textile Mills Ltd.
- Grays of Cambridge
- Griffon Pipe Industries (Pvt) Ltd
- Gulf Commercial Bank
- H Wahid Sons (Pvt) Ltd
- Habib Bank Limited
- Habib Commerce
- Halifax and Company (Pvt) Ltd.
- Hamdard Public School
- Haroon Group
- Harvest Brokerage House
- Harvest International
- Hashmat Public School
- Hasna Leather Garments
- Heaven House School System
- Heera Group
- Heral Textile
- Hewlet Packard (HP)
- Highnoon Laboratories
- Highnoon Textiles
- Himayat-e-Islam Higher Secondary School
- Hino Pak Motors Limited
- Hira Public School system
- Hoechst Pakistan Ltd.
- Honda Atlas
- Honda Forte
- Hong Kong Bank

- Hope and Heal
- Hotel Ambassador
- House of Technology
- Hudabiya Paper Mills Ltd.
- Ibrahim Fibers
- Ibrahim Textiles
- ICI Pakistan
- Indus Bank
- Industrial Management Consultants
- Instaphone
- Institute of Education and Research
- Integrated Management Consultants
- International Industries
- International Labour Organization (ILO)
- Iqra Public School and College
- Irfan Textiles
- Irza Pharma
- Ittehad Chemicals
- Ittefaq Foundries
- Jaff Link
- Jaffer Brothers
- Jaffer Consulting
- Jawad Links International
- Kent Industries
- Khawaja Electronics
- Kissan Agriculture Farm
- Klass Textile Mills (Pvt) Ltd
- Kohat Cement Ltd
- Kohinoor Hosiery
- Kohinoor Market Information Services
- Labour Welfare Directorate
- Lahore College of Computer Science
- Lahore Flying Club
- Lahore Garrison Educational Institutions
- Lahore Metropolitan Corporation
- Lahore school System
- Lever Brothers
- MI Textiles
- Machine Craft (Pvt) Ltd.
- Madina Industrial Co.
- Malik Food Industries
- MAP Enterprises (Pvt) Ltd.
- Marble Tiles
- Marine Services
- MASCO Engineering Services
- Master Textile Mills Ltd.
- Mayfair Foods
- McDonalds
- MCM (Pvt) Ltd.
- Medi Pak

- Mediglass
- Medipak Pharmaceuticals
- Medipharm (Pvt) Ltd.
- Mehran Foam
- Metro Fan
- Metropolitan Corporation Schools
- Mian Laboratories
- Mian Tyre and Rubber
- Micro-Electronics
- Millat Tractors (Pvt) Ltd
- Mir Yousaf Leather wear
- Mitchell's Fruit Farms Ltd.
- Mitsubishi
- MNS Enterprises
- Mobil Communications
- Mobilink
- Modern Enterprises
- Mohib Exports Ltd.
- Mohib Textiles Ltd.
- Monza Impex
- Moonrise Overseas Trading
- Mount Pleasant High School
- Muslim Commercial Bank
- Najia Spinning Mills (Pvt) Ltd.
- National Bank of Pakistan
- National Development Consultants
- National Logistic Cell (NLC)
- National Model School/ College
- National Scientific Corporation
- Nayyer Industries
- Nespak
- New Era Furnishers (Pvt) Ltd.
- NFML
- Nishat Group
- Nishat Textile Mills
- Nissan Motors
- Nobel Grammar School
- Nobel Travelers
- Overseas Education Service
- Pace Shopping Center
- Packages Group
- PAF Schools and Colleges
- Pahrianwali Sugar Mills Ltd.
- Pak Elektron Ltd. (PEL)
- Pak German Group
- Pak Saudi Fertilizers
- Pak Software Co.
- Pak Telecom
- Pakistan Air Force (PAF)
- Pakistan Army

- Pakistan Computer Bureau
- Pakistan Consultant International
- Pakistan Industrial Leasing Corporation (PILCORP)
- Pakistan Institute of Medical Sciences (PIMS)
- Pakistan International Airlines (PIA)
- Pakistan Oil Field
- Pakistan Online
- Pakistan Railways
- Pakistan Steel
- Pakistan Telecommunication Co., Ltd. (PTCL)
- Pakistan Times
- Paktel
- Palace Fans
- Pasrur Sugar Mills Limited
- Pearl Continental Hotel, Bhurban
- Pearl Continental Hotel, Lahore
- Pearl Fabrics
- Pepsi Cola
- Peshawar University
- Pioneer Cement Ltd.
- Pioneer Pak Seed
- Plastic Packaging Industry Ltd.
- Population Welfare Department
- Pride Public School
- Prime Chemicals (Pvt) Ltd.
- Prince Commercial Bank Ltd.
- PRONTO Promotionals
- Prosperity Weaving Mills
- Punjab Cooking Oil
- Punjab Impex
- Punjab Industrial Development Board
- Punjab Institute of Cardiology (PIC)
- Punjab Police (PP)
- Punjab University (PU)
- Pyrope Fibres
- Qaaf Industries (Pvt) Ltd.
- Rafhan Maize Products
- Rahman and Rahman (Dental Surgeons)
- Rainbow Traders
- Raja Farms
- Ravi Enterprises
- Ravi Glass Ltd.
- READ Foundation
- Reckitt and Colman
- Regent and Dying Finishing Mills Ltd.
- Regent Group
- Remington Pharmaceuticals

- Riaz Ahsan Sons Sulfite and Stapling Company (RASSSC)
- Rosewood Hall Public School
- Royal Leather Industries
- Royal Marketing
- Rubberex
- Rupali Polyester
- S Enterprises
- Sach International (Pvt) Ltd
- Sacred Heart Cathedral High School
- Safe Network
- SAGA Sports (Pvt) Ltd
- Sahara Autos (Pvt) Ltd.
- Sally Textile Mills
- SAMPAK Paper and Board
- Sanabel Trading and Marketing Co
- Sandhy Engineering Services
- Sandoz
- Sargodha Textile Mills
- Sayyed Engineers (Pvt) Ltd.
- Schazoo Laboratories
- Schering Asia
- Selecto International Ltd.
- Shaheen Corporation
- Shaheen School System
- Shahkam Industries
- Shalimar Papers
- Shaukat Khanum Memorial Cancer Hospital
- Sheikh Zayed Hospital
- Sidat Hyder Murshid Associates Pvt.Ltd.
- Siemens Pakistan
- Sigallo Asia Ltd.
- Sigma Systems International
- Silver Reed
- Smith Kline Beecham
- Soneri Bank
- Spinyer Corporation
- Standard Chartered Bank
- Standard Manufacturing
- Standard Pharmaceuticals
- State Cement Corporation
- State Life Insurance
- Steak-out Restaurant
- Stock Exchange, Lahore
- Style Enterprises
- Style Textile Pvt Ltd
- Sublime Sports
- Sunflo Citrus
- Sunrise Textiles
- Sunshine Cloth Ltd.

- Suraj Oil Mills
- Tandlian Wala Sugar Mills Ltd.
- TCS Courier
- Tech Logistics
- Technical and Business Services
- Technology Communication
- Techred
- Tetra Pak
- The American School
- The Bank of Punjab
- The Black Burn Montessori School
- The City School
- The National College
- The Punjab School
- The Renaissance School System
- The Salvation Army
- Trade Rays
- Trafco Logistics
- Tricastmedia
- Tri Soft
- UNDP
- UNFPA
- Unicef
- Union Bank
- United Bank Limited
- United Computers
- United Engravers
- Universal Autos
- Universal Business Equipment
- Universal Resources (Pvt) Ltd
- University of Engineering and Technology
- UP-John
- US Consulate, Lahore
- US Embassy
- USAID
- Varioline Pakistan
- Viking Travel GSA Royal Jordanian Airlines
- VIP Marketing
- WAPDA
- Glaxo Wellcome
- Wise Educational Society
- Workers Welfare Schools
- Wyeth Laboratories
- Xinhua Restaurant
- Yaqub Industries
- Yonus Fan
- Zamrock
- Zeb Traders Ltd.
- Zelin

