University of Management and Technology

Department of City and Regional Planning

Courses Outline (Elective Courses)

MSc. City and Regional Planning

University of Management and Technology

Course Outline

Course code: CRP-610 Course title: Local Planning Practice

Program	MS.CRP- Local Planning Practice
Credit Hours	3
Duration	15
Prerequisites	NONE
Resource Person	
Counseling Timing (Room#)	
Contact	

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Dean's signature…… Date……

Learning Objective:

1. Describe past, present, and future local planning practice
2. Need of planning legislation
3. Search for new avenues in planning practice
4. Professional aptness in planning practice
5. Ethics in planning practice

Learning Methodology:

- Lecturing
- Practical Assignments
- Guest Speaker
- Case Studies

Grade Evaluation Criteria

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

Marks Evaluation percentage	Marks in
Quizzes	
Assignments	
Mid Term	20
Attendance & Class Participation	
Term Project	
Presentations	
Final exam	80
Total	100

Recommended Text Books:

Punjab Laws Online

The Punjab Land Revenue Act, 1967

Reference Books:

The Land Acquisition, Act, 1894

Leslie A Stein, Principles of Planning Law (Oxford University Press, 2008)

Calendar of Course contents to be covered during semester

Course code: CRP-610
Course title: Local Planning Practice

Week	Course Contents	Reference Chapter(s)
1	Planning Practice : Concepts and Definitions	
2	Planning Legislation	

3	Planning Legislation in UK and USA	
4	The legislative basis for planning and implementation of plans	
5	Concepts, definitions and objective of zoning and land subdivision regulations.	
6	Legislation relating to city and regional planning in Pakistan	
7	Master Planning	
8	Area Development Schemes	
9	Land Acquisition,	
10	Housing, Building Control	
11	Public Health and Environmental protection.	
12	Planning legislation in developing world	
13	Planning Departments	
14	Planning Legislation presentations	
15	Course Summary	

Course Outline

Course code: CRP-611
Course title: Environment Resources And Development

Program	MS.CRP- Environment resources and development
Credit Hours	3
Duration	15
Prerequisites	NONE
Resource Person	
Counseling Timing	

(Room#)	
Contact	

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Learning Objective:

1. Explain the differences between renewable and non-renewable natural resources.
2. Outline the ways that appropriate management practices can increase the harvest of biological resources.
3. Describe at least two case studies of the degradation of potentially renewable resources and explain why those damages occurred.
4. Distinguish between economic growth and economic development and outline the nature of a sustainable economy

Learning Methodology:

- Lecturing
- Practical Assignments
- Guest Speaker
- Case Studies

Grade Evaluation Criteria

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

Marks Evaluation	Marks in percentage
Quizzes	
Assignments	
Mid Term	20
Attendance & Class Participation	
Term Project	

Presentations	
Final exam	80
Total	100

Recommended Text Books:

Gasper, Des (2004) The Ethics of Development: From Economism to Human Development, Edinburgh University Press, Edinburgh

Mieg, Harald A. and Töpfer, Klaus (2013) Institutional and Social Innovation for Sustainable Urban Development, Routledge

Reference Books:

UNHABITAT (n.d.) Join the World Urban Campaign: Better City, Better Life, UN-Habitat Secretariat

Wheeler, Stephen M. and Beatley, Timothy (2014) The Sustainable Urban Development Reader, 3rd ed., Routledge

Calendar of Course contents to be covered during semester

Course code…CRP-611 **Course title……**

Week	Course Contents	Reference Chapter(s)
1	Introduction to Economic Development and the Environment	
2	Environmental Issues in Developing Countries: An Overview	
3	Household Perspectives on Natural Resource Management	
4	Agricultural Change and the Environment	
5	Spatial Decision Support System	
6	Community Perspectives on Natural Resource Management	
7	Economics of Environment and Development Projects	
8	International Perspectives	
9	Measuring human development index	
10	Cities and globalization	

11	Sustainable development goals way forward	
12	Measuring sustainability	
13	Energy resources and environment	
14	Energy conservation	
15	Sustainability planning tools	

Urban design

Course code: CRP-612 **Course title: Urban design**

Program	MS.CRP- Urban design
Credit Hours	3
Duration	15
Prerequisites	NONE
Resource Person	
Counseling Timing (Room#)	
Contact	

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Learning Objective:

1. To expose students to a range of historical precedents, theoretical ideas, case studies, and field experiences relevant to the study and practice of urban design and planning.

2. To situate urban design within its social, cultural, political, technological, and aesthetic context.

3. To facilitate the development of a rigorous intellectual framework for design and research on cities, and an awareness of the student's emerging personal theoretical position and approach to urban design.

Learning Methodology:

- Lecturing
- Practical Assignments
- Guest Speaker
- Case Studies

Grade Evaluation Criteria

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

Marks Evaluation percentage	Marks in
Quizzes	
Assignments	
Mid Term	20
Attendance & Class Participation	
Term Project	
Presentations	
Final exam	80
Total	100

Recommended Text Books:

Lance Jay Brown, Urban design for an urban century: place making for people, John Wiley & Sons, cop. Hoboken 2009;

Carmona, M., de Magalhaes, C., and Edwards, M. (2002) What value urban design? Urban Design International, 7. pp 63–81.

Dieleman, F. and Wegener, M. (2004) Compact City and Urban Sprawl. Built Environment, Volume 30, Number 4. pp 308–323.

Reference Books:

Local Government Commission, US EPA. (2003) Creating great neighbourhoods: Density in your community. Washington: National Association of Realtors. Retrieved from www.lgc.org

Anne Vernez Moudon (1986) Built for Change: Neighbourhood Architecture in San Francisco, Chapter 3 "Elements of order: Gridiron, Lots, and Boxes" pp 51–73.

Calendar of Course contents to be covered during semester

Course code: 612 **Course title: Environmental Planning**

Week	Course Contents	Reference Chapter(s)
1	What is urban design?	
2	The value of urban design	
3	Urban Structure Do cities have a coherent structure?	
4	Urban design urban planning and the cities	
5	Benefits of a well-structured city	
6	Elements of urban structure	
7	Site and Neighborhood Planning	
8	Built Form and Neighborhood Character	
9	Public Space Design	
10	Problems of contemporary cities.	
11	Principles of functional program development of the urban planning team: idea of school unit, idea of the sustainable development. Hierarchy of service centers	
12	Implementation: Vision making ,Organization, Observations	
13	Typology of city structures: Exogenous and endogenous functions of cities	
14	The role of local planning in the development of space. Planning tools - local land use plans. The role of "special laws" in the shaping of space	
15	Principles of designing transport systems in the city: vehicular, pedestrian, cycling, rail communication and public transport.	

Rural planning

Course Outline

Course code: CRP-613 **Course title: Rural Planning**

Program	MS.CRP- Rural planning
Credit Hours	3
Duration	15
Prerequisites	NONE
Resource Person	
Counseling Timing (Room#)	
Contact	

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Learning Objective:

1. Understanding the rural planning and development

2. Highlighting the significance of rural planning

3. To learn the methods and techniques to analyze a rural planning situation

4. Rural planning policy and why it is needed

Learning Methodology:

- Lecturing
- Practical Assignments
- Guest Speaker
- Case Studies

Grade Evaluation Criteria

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

Marks Evaluation percentage	Marks in
Quizzes	
Assignments	
Mid Term	20
Attendance & Class Participation	
Term Project	
Presentations	
Final exam	80
Total	100

Recommended Text Books:

Carley (1994): Policy Management Systems and Methods of analysis for Sustainable Agriculture and Rural Development, IIED and FAO, Rome.

C Carew-Reid J., Prescott-Allen R., Bass S. and Dalal-Clayton D.B. (1994): Strategies forNational Sustainable Development: A Handbook for their Planning and Implementation. International Institute for Environment and Development (IIED) and World Conservation Union (IUCN), in association with Earthscan Publications Ltd, London.

Reference Books:

Singh, K. (2009). Rural development: Principles, policies and management. SAGE Publications India Pvt Ltd, https://www.doi.org/10.4135/9788132108399

Ploeg, Jan & Renting, Henk & Brunori, Gianluca & Knickel, Karlheinz & Mannion, Joe & Marsden, T. & Roest, Kees & Sevilla-Guzman, E. & Ventura, Flaminia. (2000). Rural Development: From Practices and Policies towards Theory. The Rural: critical essays in human geography. 40.

Calendar of Course contents to be covered during semester

Course code: CRP-613 **Course title: Rural Planning**

Week	Course Contents	ReferenceChapter(s)

1	International Rural Development Planning: Principles and Practices	
2	Environment and Development: Biophysical Resources and Sustainable Development in Rural Environments	
3	Rural Research Methods	
4	Planning and Development Policy Analysis	
5	Foundations in Rural Planning Practice	
6	Town and country Planning Law	
7	Special Topics in Rural Planning and Development	
8	Rural Development Administration	
9	Public Space Design	
10	Resource Management	
11	Community Based Resource Management	
12	Community development and upliftment	
13	Community Participation and CBOs	
14	Geography and Urban Studies	
15	Strategic Planning of Rural Development	

Geographic Information System

Course Outline

Course code: CRP-614 Course title: Geographic Information System

Program	MS.CRP- Geographic Information System
Credit Hours	3
Duration	15
Prerequisites	NONE

Resource Person	
Counseling Timing (Room#)	
Contact	

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Learning Objective:

After successfully completing this course the student will:

- Understand how spatial data is input and analyzed in the GIS environment
- Have a basic understanding of the nature of spatial data
- Gain proficiency with a commercial GIS software package
- Be familiar with the issues related to implementing and managing GIS technology

Learning Methodology:

- Lecturing
- Practical Assignments
- Guest Speaker
- Case Studies

Grade Evaluation Criteria

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

Marks Evaluation	Marks in percentage
Quizzes	
Assignments	
Mid Term	20
Attendance & Class Participation	
Term Project	
Presentations	

Final exam	80
Total	100

Recommended Text Books:

1. Aronoff, S. (2004) "Geographic Information Systems: A Management Perspective", WDL Publications, Ottawa, Fifth Edition. ISBN - 0912804008

2. Clarke, K. (2004) “Getting started with Geographic Information System”, Prentice Hall , New York, Second Edition. ISBN - 1879102897

3. Heywood, I., Cornelius, S. and Carver, S. (2003) “ An introduction to Geographic Information System”, Addison Wesley Longman, New York, Second Edition. ISBN - 0130611980

Reference Books:

Geographic Information Systems and Science, Second Edition, Paul Longley, Michael Goodchild, David Maguire, David Rhind, John Wiley and Sons, 2005

Getting to Know ArcGIS, Ormsby et al. 2nd edition 2004

Calendar of Course contents to be covered during semester

Course code: CRP-614 Course title: Geographic Information System

Week	Course Contents	Reference Chapter(s)
1	Introduction to GIS	
2	Data Base Systems	
3	Global Positioning System	
4	Spatial Data Visualization	
5	Spatial Decision Support System	
6	GIS Programming	
7	Spatial Data Analysis	

8	Database Design and Development	
9	Feature Extraction from Satellite Imagery	
10	Data Acquisition Using GPS	
11	Digital Cartography and Visualization	
12	Special Project	
13	Special Project remote sensing	
14	Advance Geo-referencing	
15	GIS & Spatial Decision Support, & Spatial Modeling with GIS	

Community Organization and Development

Course Outline

Course code: 616 Course title: Community Organization and Development

Program	MS.CRP- Community Organization and Development
Credit Hours	3
Duration	15
Prerequisites	NONE
Resource Person	
Counseling Timing (Room#)	
Contact	

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Learning Objective:

1. Describe the historical, social, political, and economic forces that have shaped and continue to shape macro practice in social work, with special attention to community organization, management, policy, and research;

2. Identify community organization, management, and policy-planning strategies, as well as empirically supported practices for dealing with contemporary social work and social welfare problems;

3. Demonstrate beginning level community organization, management, and policy/evaluation competencies in identifying the major internal and external environmental factors that affect the selection of those strategies;

4. Demonstrate the ability to utilize selected assessment tools for addressing practice issues (e.g., flow-charts, force field analysis, nominal group technique, task analysis, community profiling, asset mapping, community needs and strengths assessment,

Learning Methodology:

- Lecturing
- Practical Assignments
- Guest Speaker
- Case Studies

Grade Evaluation Criteria

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

Marks Evaluation	Marks in percentage
Quizzes	
Assignments	
Mid Term	20
Attendance & Class Participation	
Term Project	
Presentations	
Final exam	80
Total	100

Recommended Text Books:

Brown, Michael Jacoby. (2006). Building powerful community organizations: A personal guide to creating groups that can solve problems and change the world. Arlington, MA: Long Haul Press. [~$20 new] Altshuler, A. A. and Luberoff, D. (2003). Mega-projects: The changing politics of urban public investment. Brookings Inst Pr.

Coley, Soraya M. & Scheinberg, Cynthia A. (2007). Proposal Writing: Effective Grantsmanship (3rd edition). Thousand Oaks, CA: Sage.[paperback ISBN 9781412937757, ~$40 new]

Reference Books:

Netting, Kettner, McMurty & Thomas (2012). Social Work Macro Practice (5th Edition). Upper

Coley, SM & Scheinberg, CA (2008). Proposal Writing: Effective Grantsmanship-3rd edition. Thousand Oaks, CA: Sage Publications

Calendar of Course contents to be covered during semester

Course code: 616 Course title: Community Organization and Development

Week	Course Contents	Reference Chapter(s)
1	Introduction: The History and Components of Macro Practice	
2	Advocacy as a Form of Social Action	
3	Models of Community Organization Practice and Their Implications Understanding Communities: Their Problems & Their Populations	
4	Assessing Community Needs and Strengths	
5	Organizing and Mobilizing Communities	
6	Community Engagement,	
7	Understanding Community-Based Organizations	
8	Human Resources Management: Managing Staff in Organizations Inter-Organizational Practice Visioning and Strategic Planning in Community-Based Organizations	
9	Community Observation Day	
10	Community Presentation	
11	Program Development, Implementation, Monitoring, and Evaluation	
12	Resource Development & Management in Community-Based Organizations	

13	Social Policy and Community Practice	
14	The Future of Macro Practice	
15	Course Summary	

Course Outline

Course code: 619 **Course title: Project Appraisal**

Program	MS.CRP- Project Appraisal
Credit Hours	3
Duration	15
Prerequisites	NONE
Resource Person	
Counseling Timing (Room#)	
Contact	

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Dean's signature…… **Date……**

Learning Objective:

1. Demonstrate acquisition of the knowledge and skills of Project Management and appraisal

2. Indicate the importance of both socio-cultural and technical issues in the successful management of a project;

3. Apply modern project management techniques and tools within a professional area of expertise.

Learning Methodology:

- Lecturing
- Practical Assignments
- Guest Speaker
- Case Studies

Grade Evaluation Criteria

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

Marks Evaluation percentage	Marks in
Quizzes	
Assignments	
Mid Term	20
Attendance & Class Participation	
Term Project	
Presentations	
Final exam	80
Total	100

Recommended Text Books:

The PMBOK® Guide – Sixth Edition/Agile Practice Guide

Project Management 2013 Mr Dennis Lock

Reference Books:

The Essentials of Project Management 2014 Mr Dennis Lock

Identifying and Managing Project Risk: Essential Tools for Failure-Proofing Your Project 2009 Tom Kendrick

Calendar of Course contents to be covered during semester

Course code: 619 **Course title: Project Appraisal**

Week	Course Contents	Reference Chapter(s)
1	Project Appraisal: Concepts and Definitions	
2	Process of project planning and implementation in Pakistan.	
3	Relationship between policies, plans and projects in urban and regional development.	
4	Project identification and formulation.	
5	The planning commission of Pakistan, The PC_I and P_II Forms	
6	Financial and economic appraisal and selection of projects	
7	Legal backing for the plans and projects.	
8	Social acceptability of projects.	
9	Sanctioning authorities and approval of projects	
10	The role of project execution authority.	
11	Scheduling of project components; the Critical Path Method (CPM).	
12	Monitoring and evaluation of projects; Planning Evaluation and Review Technique (PERT).	
13	Community participation for effective implementation and monitoring of projects	
14	Introduction to concepts of arbitration, litigation, easement and dilapidation.	
15	Course Summary	

Course Outline

Course code: 21 Course title: Guided Individual Studies in Urban & Regional Planning

Program	MS.CRP- Guided Individual Studies in Urban & Regional Planning
Credit Hours	3
Duration	15
Prerequisites	NONE

Resource Person	
Counseling Timing (Room#)	
Contact	

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Dean's signature…… Date……..

Learning Objective:

1. Demonstrate acquisition of the knowledge and skills of Urban and Regional Planning

2. Indicate the importance of both socio-cultural and technical issues in Urban and regional Planning

3. Research individual studies in Urban and Regional Planning

Learning Methodology:

- Lecturing
- Practical Assignments
- Guest Speaker
- Case Studies

Grade Evaluation Criteria

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

Marks Evaluation	Marks in percentage
Quizzes Assignments Mid Term	20
Attendance & Class Participation	

Term Project	
Presentations	
Final exam	80
Total	100

Recommended Text Books:

Whyte, Ian Boyd "Man-Made Future" UK, USA and Canada, Routledge

Levy, John M. "Contemporary Urban Planning" Upper Saddle River, NJ, Pearson Prentice Hall

Reference Books:

Jane Jacobs "The Life and Death of Great American Cities"

Identifying and Managing Project Risk: Essential Tools for Failure-Proofing Your Project 2009 Tom Kendrick

Calendar of Course contents to be covered during semester

Course code: 21
Course title: Guided Individual Studies in Urban & Regional Planning

Week	Course Contents	Reference Chapter(s)
1	Concepts and Definitions	
2	History of Cities, History of Urban and Regional Planning	
3	Development of Contemporary City	
4	New Town	
5	Research and Analysis for Urban Planning	
6	Transportation Planning, Regional Planning	
7	Presentations on individual Planning Studies	
8	Presentations on individual Planning Studies	

9	Sustainable Development and Future Out-look	
10	Public Policy And Planning Theory	
11	Economic Analysis For Urban Planning	
12	Community Planning & Social Policy	
13	Multiculturalism In Planning	
14	Negotiation And Mediation In Planning	
15	Course Summary	

Course Outline

Course code: 634 Course title: Environment Impact Assessment

Program	MS.CRP- Environment impact assessment
Credit Hours	3
Duration	15
Prerequisites	NONE
Resource Person	
Counseling Timing (Room#)	
Contact	

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Dean's signature…… Date……

Learning Objective:

The objective of this course is to provide a working knowledge of current environmental, social and economic impacts and methods relating to EIA, and consider in detail how these impacts can be quantified and analyzed. The course provides an overview of the legislative framework of EIA and explains the EIA process, providing examples of techniques used in impact assessment relating to topics including soils, ecology and landscape. Much of the teaching input to the course is provided by external practitioners specializing in certain aspects of the EIA process, including developers, representatives from local government and other key stakeholders such as SNH, as well as EIA consultants.

Learning Methodology:

- Lecturing
- Written Assignments
- Guest Speaker
- Case Studies

Grade Evaluation Criteria

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

Marks Evaluation percentage	Marks in
Quizzes	
Assignments	
Mid Term	20
Attendance & Class Participation	
Term Project	
Presentations	
Final exam	80
Total	100

Recommended Text Books:

Fischer, Thomas & Nadeem, Obaidullah. (2014). Environmental Impact Assessment Course Curriculum for Higher Education Institutions in Pakistan.

Wood, C. (2002). Environmental impact assessment: a comparative review. Pearson Education.

Reference Books:

Glasson, J., & Therivel, R. (2013). Introduction to environmental impact assessment. Routledge.

Environmental Impact Assessment: A Comparative Review 2014

Calendar of Course contents to be covered during semester

Course code: 634 Course title: Environment Impact Assessment

Week	Course Contents	Reference Chapter(s)
1	What is EIA, what is it trying to achieve, what are its principles, what are its procedural stages, what benefits can result from EIA if considered in decision making and where in the world is it applied?	
2	Decision making theory and practice	
3	EIA guidelines of international development	
4	Legal background and guidance on EIA	
5	Scoping - Purpose, objectives, guiding principles	
6	Baseline data collection and consideration of alternatives	
7	Assessment of impacts-Methods and techniques used for assessing impacts in EIA	
8	Public participation and consultation in EIA Participation, consultation, communication & reporting	
9	Models of public decision making	
10	Avoidance and mitigation of impacts	
11	EIA report and quality review	
12	EIA follow-up, monitoring and auditing	
13	EIA effectiveness	
14	Developing EIA and SEA	
15	EIA reports quality review	

Course Outline

Course code: 636 Course title: Climate Change Impacts and Adaptation

Program	MS.CRP- Climate Change Impacts and Adaptation
Credit Hours	3
Duration	15
Prerequisites	NONE
Resource Person	
Counseling Timing (Room#)	
Contact	

Chairman/Director signature……

Dean's signature…… Date……

Learning Objective:

This course is concerned with how we determine the impacts of climate change on the natural and managed systems on which we depend, and how we might adapt to these impacts. It provides you with an overview of projections of future climate at the regional scale and the chance to evaluate the associated uncertainties, illustrated through programs .You will consider the general 'top-down' methodology of climate change impact assessment, illustrated with case studies from a range of sectors including water resources, forestry, food production, coastal systems and health. The material will focus on quantifying the risks of climate impacts and methods to determine uncertainty. You will also consider how you can determine what is considered to be 'dangerous climate change', and the spectrum of complementary approaches to developing adaptation strategies (such as the bottom-up 'vulnerability assessments' and adaptive social protection). Issues relating to adaptation policy at the local and national level

Learning Methodology:

- Lecturing
- Written Assignments
- Guest Speaker

- Case Studies

Grade Evaluation Criteria

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

Marks Evaluation percentage	Marks in
Quizzes	
Assignments	
Mid Term	20
Attendance & Class Participation	
Term Project	
Presentations	
Final exam	80
Total	100

Recommended Text Books:

IPCC (2014) Fifth Assessment Report - Synthesis Report
http://www.ipcc.ch/pdf/assessment-report/ar5/syr/SYR_AR5_LONGERREPORT.pdf

The Hot Topic by Gabrielle Walker and Sir David King

Reference Books:

UKCIP (2009) UK Climate Projections 2009 http://ukclimateprojections.defra.gov.uk/

UKCIP Adaptation overview
http://www.ukcip.org.uk/index.php?option=com_content&task=view&id=54&Itemid=179

Calendar of Course contents to be covered during semester

Course code: 636 Course title: Climate Change Impacts and Adaptation

Week	Course Contents	Reference Chapter(s)
1	Welcome, Opening and Introductions	
2	Basic Climate Change Science: Global Warming, Greenhouse Gases and Consequences	
3	Responses to Climate Change – Mitigation and Adaptation and Justice	
4	Key Terminologies	
5	Impacts of Climate Change	
6	Vulnerability to Climate Change	
7	Linkage between Climate Change and Disaster	
8	Adaptation to Climate Change	
9	Link between Adaptation to Climate change and Development	
10	Methods and Tools: Impacts, Vulnerability and Adaptation	
11	Reconstructing Past Climates	
12	Attributing and Predicting Climate Change	
13	International Development and Adaptation	
14	Global and Regional Climate Change Impacts	
15	Global and Regional Climate Change Adaptation	

Course Outline

Course code: 24 Course title: Participation and Social Assessment

Program	MS.CRP- Participation and Social Assessment
Credit Hours	3
Duration	15
Prerequisites	NONE
Resource Person	
Counseling Timing (Room#)	
Contact	

Chairman/Director signature……

Dean's signature…… Date……

Learning Objective:

1. To develop knowledge and understanding of content and techniques of community participation at local to international levels

2. To locate, analyse and synthesise information about the diversity of community participation approaches in a planned and timely manner

3. Develop ability to apply effective, creative and innovative solutions to governance problems that require community participation

4. Via use of problem solving and critical thinking exercises using community participation case studies, develop teamwork, and interpersonal skills

5. To articulate critically the theoretical and methodological foundations of social impact assessment (SIA)

6. Participate professionally as practitioners of SIA

7. Make independent, creative and expert decisions for selecting specific techniques for data collection and public engagement

8. Perform as a team in designing, executing, managing and completing an SIA and to interpret and commun

Learning Methodology:

- Lecturing
- Practical Assignments
- Guest Speaker
- Case Studies

Grade Evaluation Criteria

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

Marks Evaluation percentage	Marks in
Quizzes	
Assignments	
Mid Term	20
Attendance & Class Participation	
Term Project	
Presentations	
Final exam	80
Total	100

Recommended Text Books:

Arce-Gomez, A., Donovan, J.D., & Bedggood, R.E. (2015). Social impact assessments:Developing a consolidated conceptual framework, Environmental ImpactAssessment Review, 50: 85–94.

Barrow, C.J. (2000). Social impact assessment: An introduction. London: Hodder Arnold.

Reference Books:

Becker, H. A., & Vanclay, F. (Eds.) (2003). The international handbook of social impact assessment: Conceptual and methodological advances. Cheltenham, Colchester, UK: Edward Elgar.

Burdge, R.J. (2004). A community guide to social impact assessment. (3rd Ed.). Middleton, WI: Social Ecology Press.

Calendar of Course contents to be covered during semester

Course code: 626 Course title: Participation and Social Assessment

Week	Course Contents	Reference Chapter(s)
1	Concepts and Definitions	
2	Why is public participation important?	
3	International, Regional and National Instruments	
4	Principles of public participation	
5	How to engage public participation	
6	Introduction to SIA	
7	Theoretical and Methodological Basis of SIA	
8	Processes of SIA	
9	Identifying Social Impacts: Delphi Technique	
10	Identifying Social Impacts: Nominal Group Technique	
11	Identifying Social Impacts: Community Survey	
12	Cross Impact Analysis	
13	Relevant Impact Tree	
14	Scenario Generation	
15	Evaluating Social Impacts	

Course Outline

Course code: 628 Course title: Negotiation and Conflict Resolution

Program	MS.CRP- Negotiation and conflict resolution
Credit Hours	3
Duration	15
Prerequisites	NONE
Resource Person	
Counseling Timing (Room#)	
Contact	

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Learning Objective:

- to understand the nature of conflict and that conflict can serve a functional purpose
- to learn the various strategies and techniques to manage conflicts
- to be able to apply the most appropriate conflict resolution method to the situation
- to gain practical experience on negotiations and other dispute resolution mechanisms

Learning Methodology:

- Lecturing
- Assignments
- Guest Speaker
- Case Studies

Grade Evaluation Criteria

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

Marks Evaluation percentage	Marks in
Quizzes	
Assignments	
Mid Term	20
Attendance & Class Participation	
Term Project	
Presentations	
Final exam	80
Total	100

Recommended Text Books:

'Think Before You Speak: A Complete Guide to Strategic Negotiation' (1996) Roy J. Lewicki, Alexander Hiam, and Karen Wise Olander. New York: John Wiley & Sons, Inc.

Reference Books:

Blake, Robert R., and Jane Srygley Moulton. Solving Costly Organizational Conflicts. Jossey Bass, 1984.

Brams, Steven J., and Alan D. Taylor. The Win-Win Solution. Norton, 1999.

Bramson, Robert. Coping with Difficult People. Anchor, Doubleday, 1981.

Calendar of Course contents to be covered during semester

Course code: 628 Course title: Negotiation and Conflict Resolution

Week	Course Contents	Reference Chapter(s)
1	What Is Negotiation?	
2	Negotiation Strategies and Biases	
3	Processes and Phases of Negotiation	
4	Managing Different Types of Business Negotiations	
5	Conflict Resolution	

6	International and Cross-Cultural Negotiation	
7	Conflict analysis tools	
8	Glasl's escalation model	
9	Conflict wheel	
10	Conflict mapping	
11	Conflict perspective analysis	
12	Conflict tree	
13	Needs fear mapping	
14	Multi causal role model	
15	Assignment	

Course Outline

Course code: 629 **Course title: Poverty Alleviation**

Program	MS.CRP- Poverty Alleviation
Credit Hours	3
Duration	15
Prerequisites	NONE
Resource Person	
Counseling Timing (Room#)	
Contact	

Chairman/Director signature……

Dean's signature…… **Date……**

Learning Objective:

- Demonstrate in-depth knowledge of development studies at advanced levels
- Provide a critical examination of definitions and theories of poverty, poverty reduction, and social development
- Demonstrate the ability to frame research questions and develop effective ways of pursuing them
- Develop and apply critical thinking skills
- Demonstrate skills in communication and collaborative enquiry
- Foster an awareness of ethical, social, and cultural issues within a global context and their importance in the exercise of professional skills and responsibilities

Learning Methodology:

- Lecturing
- Assignments
- Guest Speaker
- Case Studies

Grade Evaluation Criteria

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

Marks Evaluation	Marks in percentage
Quizzes	
Assignments	
Mid Term	20
Attendance & Class Participation	
Term Project	
Presentations	
Final exam	80
Total	100

Recommended Text Books:

Book Title:Handbook on Poverty and Inequality, Author:Jonathan Haughton and Shahidur R. Khandker, Publisher:The World Bank

Book Title:Handbook of Income Distribution ,Author:Atkinson, A.B. and Bourguignon, Edition:2000, Publisher:Elsevier

Reference Books:

Book Title:Handbook of Income Distribution Author:Atkinson, A.B. and Bourguignon Edition:2000 Publisher:Elsevier

Calendar of Course contents to be covered during semester

Course code: 629 **Course title: Poverty Alleviation**

Week	Course Contents	Reference Chapter(s)
1	Course Importance	
2	Who is Poor? Unidimensional/Multi-Dimensional Poverty	
3	Types of Poverty in Multi-perspective	
4	Sen's Capability Approach	
5	Multi-dimensionality of Poverty	
6	Poverty, Inequality and Vulnerability	
7	Why Measure Poverty?	
8	keeping Poor People on Agenda	
9	Targeting Domestic and Worldwide Interventions	
10	Monitoring and Evaluating Projects and Policy Interventions	
11	To Evaluate the Effectiveness of Institutions Whose Goal is to Help Poor People	
12	Thinking Systematically: Poverty Reduction Strategy Papers	
13	Multi-dimensional Poverty Index (MPI)	
14	Steps in Measuring Poverty	
15	Key Issues in Household Survey and Survey Design as Common Problem	

Course Outline

Course code: 629 **Course title: Infrastructure Development**

Program	MS.CRP- Infrastructure development
Credit Hours	3
Duration	15
Prerequisites	NONE
Resource Person	
Counseling Timing (Room#)	
Contact	

Chairman/Director signature……

Dean's signature…… Date……

Learning Objective:

- Explain how improvements in sustainability related performance can deliver value add to infrastructure projects.
- Identify cost effective opportunities for increasing the sustainability of infrastructure related projects across design, construction and operation.
- Calculate sustainability related impacts from proposed infrastructure projects in the area of materials consumption and environmental systems.
- Present the value of sustainability related initiatives in infrastructure projects with consideration to economic, social and environmental outcomes based on small group work.
- Express the potential for low carbon related initiative in infrastructure projects to deliver performance and cost improvements as well as improve the sustainability performance of the overall project.

Learning Methodology:

- Lecturing
- Practical Assignments
- Guest Speaker

- Case Studies

Grade Evaluation Criteria

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

Marks Evaluation	Marks in percentage
Quizzes	
Assignments	
Mid Term	20
Attendance & Class Participation	
Term Project	
Presentations	
Final exam	80
Total	100

Recommended Text Books:

Agyeman, J., McLaren, D., and Schaefer-Borrego, A. (2013). Sharing cities. Friends of the Earth Briefing.

Altshuler, A. A. and Luberoff, D. (2003). Mega-projects: The changing politics of urban public investment. Brookings Inst Pr.

Anand, N. (2011). Pressure: The PoliTechnics of Water Supply in Mumbai. Cultural Anthropology, 26(4):542–564.

Reference Books:

Eichengreen, B. (1995). Financing Infrastructure in Developing Countries: Lessons from the Railway Age. The World Bank Research Observer, 10(1):75–91.

Estache, A. (2004). Emerging infrastructure policy issues in developing countries: a survey of the recent economic literature. World Bank Policy Research Working Paper 3442, World Bank Publications.

Calendar of Course contents to be covered during semester

Course code: 629 **Course title: Infrastructure Development**

Week	Course Contents	Reference Chapter(s)
1	Introduction: Concepts, Challenges, Opportunities	
2	Infrastructure, Economic Growth, Land Use and Sustainability	
3	Mega-Projects and Risk	
4	Infrastructure policy and decision making	
5	Evidence Based Infrastructure Planning	
6	Infrastructure Planning and Community Engagement,	
7	Innovation in the Infrastructure Sector	
8	Who owns, regulates and plans infrastructure projects?	
9	Infrastructure Public-Private Partnerships	
10	Infrastructure in Indigenous Communities	
11	Infrastructure and Resilience	
12	Infrastructure in Developing Countries	
13	Information, individuals & systems	
14	Size and centralization	
15	System paths & transitions	

Course Outline

Course code: 631 **Course title: Disaster Management**

Program	MS.CRP- Disaster management
Credit Hours	3
Duration	15
Prerequisites	NONE
Resource Person	
Counseling Timing (Room#)	
Contact	

Chairman/Director signature……

Dean's signature…… Date……

Learning Objective:

1. Key issues and debates related to the theory and practices of disaster risk reduction. Students will show familiarity with different theoretical approaches, practical problems and an appreciation of the diversity of polices at international and national levels
2. The range of environmental, health and social science topics which influence disaster risk reduction and management
3. The analytical and policy literature concerning the related issues of disaster risk reduction including environmental/geological studies, emergency management structures and institutions, the role and perspectives of the state, multilateral and bilateral agencies, international and domestic NGOs and other civil institutions.
4. An understanding of common approaches to disaster risk reduction, including an awareness of the problems and critiques associated with disaster prevention, mitigation, preparedness, response and recovery in both industrialized and developing countries.
5. The development of a range of academic and professional/transferable skills through both independent and group-based work.
6. A detailed understanding of a specific conceptual and/or policy-related area of disaster risk reduction along with implications and limitations of research findings on this subject, and of how to produce an original piece of academic research. Delivered via a dissertation.

Learning Methodology:

- Lecturing
- Written Assignments
- Guest Speaker
- Case Studies

Grade Evaluation Criteria

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

Marks Evaluation percentage	Marks in
Quizzes	
Assignments	
Mid Term	20
Attendance & Class Participation	
Term Project	
Presentations	
Final exam	80
Total	100

Recommended Text Books:

1. BIRKMANN, J. (2006) Measuring Vulnerability to Natural Hazards: Towards Disaster Resilient Societies. Tokyo, United Nations University Press.

2. BURTON, I.; Kates, R.W. and White, G.F. (1993) The Environment as Hazard, The Guildford Press, London, UK.

3. COLLINS, A.E. (2009) Disaster and Development, Routledge, London, UK.

4. CROUHY, Michel; Galai, Dan and Mark, Robert (2005) The Essentials of Risk Management. The McGraw Hill Co., New York, US.

Reference Books:

1. LEWIS, J. (1999) Development in Disaster-Prone Places, IT Press, London, UK.
2. SMITH, Keith and Petley, David N. (2009) Environmental Hazards: Assessing Risk and Reducing Disaster tKe enodno .London, UK.

Calendar of Course contents to be covered during semester

Course code: 631 **Course title: Disaster Management**

Week	Course Contents	Reference Chapter(s)
1	Welcome, Opening and Introductions	
2	Disaster Management - Theory and Application	
3	Research and Evaluation Methods	
4	Disaster Governance	
5	Humanitarianism and Conflict Response: Inquiries	
6	A Critical Introduction to GIS and Disasters	
7	History of Humanitarian Aid	
8	Anthropology of Violence and Reconstruction	
9	Humanitarian Diplomacy: Examining the Actors, Issues and Norms	
10	Security, Emergencies and Technologies of Control	
11	Economic Resilience to Natural and Man-made disasters	
12	Process of financing development in Pakistan	
13	Hazard identification and hazard profiling	
14	Earthquake hazards and safety measure	
15	Pakistan flood early warning systems	

Course Outline

Course code: 632 **Course title: Participatory Approaches To Waste Management**

Program	MS.CRP- Participatory approaches to waste management
Credit Hours	3
Duration	15
Prerequisites	NONE
Resource Person	
Counseling Timing (Room#)	
Contact	

Chairman/Director signature……

Dean's signature…… Date……

Learning Objective:

1. Describe past, present, and future solid waste management issues.

2. Apply current/future waste management practices in order to divert solid waste from going to a waste disposal facility.

3. Demonstrate the ability to perform waste audits.

4. Understand current waste management legislation.

5. Describe various waste disposal techniques / designs and monitoring.

Learning Methodology:

- Lecturing
- Practical Assignments
- Guest Speaker
- Case Studies

Grade Evaluation Criteria

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

Marks Evaluation percentage	Marks in
Quizzes	
Assignments	
Mid Term	20
Attendance & Class Participation	
Term Project	
Presentations	
Final exam	80
Total	100

Recommended Text Books:

Central Public Health and Environmental Engineering Organization (CPHEEO) (2000) Manual on Municipal Solid Waste Management, New Delhi, Controller of Publications

Freeman H.M. (1988) Standard Handbook of Hazardous Waste Treatment and Disposal, New York, McGraw-Hill.

Reference Books:

SW-846 (1980) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Washington, DC, USEPA, Available at http://www.epa.gov/epawaste/hazard/testmethods/sw846/index.htm.

Tchobanoglous G., Theisen H. and Vigil S. (1993) Integrated Solid Waste Management: Engineering Principles and Management Issues, New York, McGraw-Hill.

Vesilind P.A., Worrell W.A. and Reinhart D.R. (2001) Solid Waste Engineering, Australia, CLEngineering

Calendar of Course contents to be covered during semester

Course code: 632
Course title: Participatory Approaches to Waste Management

Week	Course Contents	Reference Chapter(s)
1	Solid waste : Concepts and Definitions	
2	Solid waste legislation	
3	Solid waste generation and trends (residential, commercial, industrial, institutional)	
4	Current solid waste management strategies (collection, disposal, transportation	
5	Waste management facilities (site, assessments, politics, public opinion, economic plans, waste management master plan)	
6	Landfill design and monitoring leachate containment	
7	Special waste management initiatives (household hazardous waste, biomedical, radioactive)	
8	Waste audits (strategies, administrative processes)	
9	Current waste reduction, reuse, and recycling strategies	
10	Waste management as a system	
11	Operational Controls for Waste Disposal	
12	Community Participation and waste management	
13	Social Policy and Community Practice	
14	Visit to Landfill site	
15	Course Summary	