

Department of City & Regional Planning,
School of Architecture & Planning,
University of Management and Technology

Course Outline – Environmental Planning & Management (CRP-242)

UMT Vision

OUR VISION IS 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.

UMT Mission

OUR MISSION IS 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.

Vision and Mission Statements of the City & Regional Planning Department

The vision statement of the Department of City & Regional Planning is:

- To be a leading City & Regional Planning Department aiming for excellence in learning, research and innovation with integrity and equity.

The mission of the Department of City & Regional Planning is:

- The mission is to establish a very important program concerning the development and management of the built environment. This is entitled as Bachelor of Science in City and Regional Planning. The studies will be focused on needs of the nation in the field of built environment of our regional, urban and rural settlements. The students are required to be equipped with knowledge of advanced skills, latest knowledge and technology used in the planning and management of various settlements. They need to be fully aware of the current world, new trends and direction of the developments in future.

Program Educational Objectives (PEOs)

Five years after graduating, the graduates of the program should be characterized by the following three features:

PEO-1:

The graduates will apply learnt knowledge and skills of spatial, temporal, and physical planning.

PEO- 2:

The graduates will propose and execute appropriate solutions to complex planning and urban issues and adapt recent developments in planning focusing on research, creativity, and innovation.

PEO-3:

The graduates will reflect core ethical values in their professional conduct and become responsible members of society.

Program Learning Outcomes (PLOs) / Graduate Attributes

Graduates of the BS CRP program at UMT are expected to have acquired and developed the following set of knowledge, skills, and personality traits (these are also referred to as graduate attributes)

PLO 1: Planning Knowledge

An ability to demonstrate knowledge of contemporary planning theories and conceptual ideologies and models.

PLO 2: Designing Analysis

An ability to identify and investigate problems, construct theoretical framework through literature review and case studies and synthesize information.

PLO 3: Professional Skills

Apply planning knowledge in design/planning process to synthesize and articulate multi-faceted variables to generate an integrated solution based on societal and environmental considerations.

PLO 4: Usage of IT

An ability to select and apply appropriate techniques and resources, including prediction and modelling, to complex planning activities.

PLO 5: Communication

Convey ideas and solutions of planning/urban problems in verbal, written and graphical modes, effectively.

PLO 6: Leadership

Ability to opt a role for affective coordination within the team & collaboration with the community.

PLO 7: Professional Ethics

An ability to apply ethical principles and professional codes following the social norms to the best interest of the society.

PLO 8: Lifelong Learning

Capable of acquiring knowledge, skill, and information self-reliantly from diverse sources and appreciating new ideas and concepts.

Course Learning Outcomes:

After studying this course, the learners will be able to:

- Understand the basic concepts in environmental planning and management
- Discuss and critically evaluate various existing environmental policies, rules, regulations, and institutional structures relating to environmental planning and management
- Discuss modern environmental planning and management approaches around the world
- Assess impacts of human activities on environment and ecology
- Examine the relationship of environmental degradation and extreme weather conditions
- Propose policies and measures for environmental improvement and risk reduction

Title	Course Learning Outcomes	PLO 1: Planning Knowledge	PLO 2: Designing Analysis	PLO 3: Professional Skills	PLO 4: Usage of IT	PLO 5: Communication	PLO 6: Leadership	PLO 7: Professional Ethics	PLO 8: Lifelong Learning
Environmental Planning and Management	Understand the basic concepts in environmental planning and management	✓							
	Discuss and critically evaluate various existing environmental policies, rules, regulations, and institutional structures relating to environmental planning and management		✓						
	Discuss modern environmental planning and management approaches around the world		✓						
	Assess impacts of human activities on environment and ecology		✓						
	Examine the relationship of environmental degradation and extreme weather conditions			✓					

	Propose policies and measures for environmental improvement and risk reduction			✓					
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CODE	NAME	CLO	CLO Type
242.1	242.C1	Understand the basic concepts in environmental planning and management	C2
242.2	242.C2	Discuss and critically evaluate various existing environmental policies, rules, regulations, and institutional structures relating to environmental planning and management	C2
242.3	242.C3	Discuss modern environmental planning and management approaches around the world	C2
242.4	242.C4	Assess impacts of human activities on environment and ecology	C5
242.5	242.C5	Examine the relationship of environmental degradation and extreme weather conditions	C5
242.6	242.C6	Propose policies and measures for environmental improvement and risk reduction	C6

Proposed Teaching Methodology

- Lectures
- Assignments

- Field Visits
- Class Project

Proposed Assessment (theory, 100%)

Mid Term (40%)

- Written long/short questions, quizzes etc.

Final Term (60%)

- Written long/short questions, quizzes etc.

Proposed Assessment (practical, 100%)

- Presentations, assignments, report writing, viva voce, field visits etc.

Recommended Text Book

1. Daniels, T. (2014), *The Environmental Planning Handbook for Sustainable Communities and Regions*, American Planning Association (ISBN 1611901510, 9781611901511).
2. Momtaz, S., Kabir S. M. Z. (2013), *Evaluating Environmental and Social Impact Assessment in Developing Countries*, Waltham, US, Elsevier Inc.
3. Rom, W. N. (2012), *Environmental Policy and Public Health: Air Pollution, Global Climate Change and Wilderness*, Jossey-Bass, San Francisco.
4. Miller, G. T. and Spoolman, S. (2012), *Living in the Environment: Principles, Connections, and Solutions*, Brooks/Cole, CENGAGE Learning.
5. UN-HABITAT (2011), *Cities and Climate Change: Global Report on Human Settlements 2011* (ISBN: 9781849713702).
6. Lehmann, S. (2010), *The Principles of Green Urbanism: Transforming the City for Sustainability*, Earthscan (ISBN: 9781844078172).
7. Imran, Muhammad (2010), *Institutional Barriers to Sustainable Urban Transport in Pakistan*, Pakistan Oxford University Press, (ISBN: 9780195476668).
8. Tinsley, S. and Pillai, I. (2006), *Environmental Management Systems: Understanding Organizational Drivers and Barriers*, EarthScan, Bath Press, UK.
9. Keizers, G. (2005), *Business, Government and Sustainable Development*. Routledge, (ISBN 0-415-33963-4).
10. Randolph, J. (2004), *Environmental land use planning and management*, Covelo, CA. Island Press.

Course Calendar

Course code: CRP-242

Course title: Environmental Planning and Management

Course Contents	Weeks	CLO
Introduction to Environmental Planning and Management, Basic Concepts Practical: Study of research articles & brainstorming	1	1
Relationship between Environmental Planning and Town Planning Practical: Project Brief; Environmental Planning and Management for Extreme Weather Resilience in Lahore	2	1
Institutional Framework for Environmental Protection and Management in Pakistan Practical: Secondary data collection (relationship of environmental degradation and extreme weather conditions)	3	2
Environmental Policy of Government of Pakistan Practical: Class discussion and Report writing of the collected data	4	2
Environmental Law in Pakistan Practical: Questionnaires Formulation	5	2
Concept of Sustainable Development and Agenda 21 Practical: Questionnaires Development	6	1
Student presentation: Modern approaches to Environmental Planning and Management around the world Practical: Primary Data Collection (19 th April, 2024)	7	3
Cities and Sustainability Measuring the Environmental Impacts of the Cities Practical: Data Compilation	8	4
Mid-term Exam	9	
Environmental Assessment Practical: Analysis of several EIA Reports	10	1
Guest Lecture Tentative Date: 13 th May, 2024 Practical: Data Analysis of the project	11	5
Urban Heat Island Practical: Data Analysis of the project	12	1,5
Solid Waste Management	13	1,6

Practical: Proposing policies and measures for planning and managing the environment (based on data analysis)		
Hospital Waste and its Management Practical: Report writing	14	1,6
Environmental Problems at Workplace Practical: Final Report compilation	15	1,6
Global Environmental Concerns and Resource Management Practical: Submission and Presentation of Final Report	16	1,5,6
Resource Management Practical: Viva Voce	17	1,5,6
Final Exam	18	-