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

SITE PLANNING AND LANDSCAPE DESIGN

Credit hours: 3 (1+2)
Prerequisites: None

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.

Specific Objectives

To develop skills for site analysis and landscape design.

Learning Outcomes

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

1. Develop skills in site planning and landscape design
2. Understand impact of site planning and landscape design on urban and regional planning
3. Plan sites of medium scale
4. Design and document natural and man-made features on planning sites

Tittle	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
Site Planning and Landscape Design	Develop skills in site planning and landscape design		✓						
	Understand impact of site planning and landscape design on urban and regional planning	✓							
	Plan sites of medium scale		✓						
	Design and document natural and man-made features on planning sites			✓					

CODE	NAME	CLO	CLO Type
329.1	329.C1	Develop skills in site planning and landscape design	C1
329.2	329.C2	Understand impact of site planning and landscape design on urban and regional planning	C1
329.3	329.C3	Plan sites of medium scale	A1
329.4	329.C4	Design and document natural and man-made features on planning sites	A4

Content List

- Site Planning Overview, Definitions, Professional Roles, Resources, Process, Techniques and Technology.
- Site Analysis Parameters; Climate, Views, Landscape, Infrastructure, Location, Neighborhood, Density, Urban Scape, Byelaws Etc.
- Development Program Elements: User/Client Input. Functions, Uses, Clients, Visitors, Access, Circulation, Scale, Context, Grading, Drainage, Views, Orientation, Sequence Of Arrival, Hierarchy And Definition Of Spaces, Parking, Landscaping, Lighting, Safety, Defensible Space/Deliveries, Utilities, Storm Water And Drainage, Snow Storage, Architecture, Building Orientation, Trash, Budget, Sustainability, Politics And Neighbors Etc.
- Physical, Environmental, Social, and External Influences on Sites and Their Regional Settings and Contexts.
- Impact of Zoning, Regulations & Performance Standards on Site and Landscape Design.
- Concept Planning For Sites through Relationship Diagrams, Overlay Drawing Techniques, Design Process Charts Etc.
- Contemporary Trends and Influences on Site and Landscape Designing.
- Techniques in Review of Site and Landscape Plans.
- Design Elements and Principles for Landscape Planning Of Open Spaces and Parks.

Practical

- Site Analysis (research, diagrams and report).
- Site plan review checklist.

- Exercises in review and selection of site for a new town and its civic components.
- Landscape plans for medium scale sites

Proposed Teaching Methodology

- Lecturing
- Field Visits
- Assignments

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 Books

1. Passe, Ulrike (2015), *Designing Spaces For Natural Ventilation*, Routledge.
2. Blake (2015), *An Introduction To Landscape And Garden Design*, Routledge.
3. James A. LaGro Jr. (2013), *Site Analysis*: *Informing Context-Sensitive and Sustainable Site Planning and Design*, 3rd Edition, John Wiley and Sons, New Jersey.
4. Stern (2013), *Paradise Planned: The Garden Suburban And The Modern City*, Monacelli Press.
5. Lynch, Gary and Hack, David (2012), *Site Planning*, 3rd Edition, MIT Press, Massachusetts.
6. Thomas Russ (2009), *Site Planning and Design Handbook*, The Mc-Graw Hill Companies, Inc., New York.
7. Leonard J. Hopper D. (2007), *Landscape Architectural Graphic Standards*, John Wiley and Sons Inc., New Jersey.
8. Watson, D. (2003), *Time-Saver Standards for Urban Design*, McGraw-Hill Professional.
9. Edward T. White (1983), *Site Analysis*, Architectural Media Ltd.