**COURSE CODE:** **GIE-461**

**COURSE NAME:** **REGIONAL PLANNING AND MANAGEMENT**

**CREDIT HOURS:**

| | |
|---|---|
| Theory | = 02 |
| Practical | = 01 |
| Total | = 03 |

**CONTACT HOURS:**

| | |
|---|---|
| Theory | = 32 |
| Practical | = 48 |
| Total | = 80 |

**PREREQUISITE:** Nil

**MODE OF TEACHING:**

| | | |
|---|---|---|
| Instruction: | Two hours of lecture per week | 75% |
| Practical: | Three hours of Lab work per week | 25% |

**COURSE DESCRIPTION**:

This course provides an elementary introduction to efficient placement of land use activities, infrastructure and settlement growth across the larger areas of land than an individual city.

**COURSE OBJECTIVES**:

To provide the students understanding and in-depth knowledge of the principles of landuse planning and management of urban areas focusing on sustainability.

**RELEVANT PROGRAM LEARNING OUTCOMES (PLOs):**

The course is designed so that students will achieve the PLO/s:

| | | | | | |
|---|---|---|---|---|---|
| 1 | Engineering Knowledge: | ☐ | 7 | Ethics: | ☐ |
| 2 | Problem Analysis: | ☐ | 8 | Individual and Collaborative Team Work: | ☐ |
| 3 | Design/Development of Solutions: | ☐ | 9 | Communication: | ☐ |
| 4 | Investigation: | ☑ | 10 | Project Management: | ☐ |
| 5 | Tool Usage: | ☐ | 11 | Lifelong Learning: | ☐ |
| 6 | The Engineer and Society: | ☑ | | | |

**COURSE LEARNING OUTCOMES (CLOs):**

Upon successful completion of the course, students will be able to:

| S No | CLO | Domain | Taxonomy Level | PLO |
|---|---|---|---|---|
| 1 | Comprehend the basic concepts of Regional Planning and Management. | Cognitive | 1 | 6 |
| 2 | Regionalization and Delineation of regions, formal and functional regional delineation techniques using flow analysis, factor analysis and index method | Cognitive | 3 | 4 |
| 3 | Industrialization, its effect on urban growth and early modern cities Urbanization: global perspective and its implications Urban Regeneration and urban renewal; Concepts, Approach and Processes Theories of over-urbanization and approaches to regional dev | Cognitive | 2 | 6 |

**PRACTICAL APPLICATIONS:**

- Preparation of Regional Plan of a Region
- Study of Urbanization and related urban issues
- Study and investigation of emerging trends in Urban and Regional Planning

**TOPICS COVERED**:

**Theory:**

| Week | Topic |
|---|---|
| 1 | **INTRODUCTION REGIONAL PLANNING**<br>– Needs of Regional Development Planning<br>– Regional Development Planning- Concepts, types, issues etc |
| 2 | **INTRODUCTION REGIONAL PLANNING**<br>– Key planning periods<br>– Impetus for Regional Planning |
| 3-4 | **REGIONALIZATION**<br>– The Region in the Regional Planning<br>– Regionalization and Delineation of functional regions<br>– Regionalization and Delineation of formal regions |
| 5-6 | **URBANIZATION**<br>– Industrialization, its effect on urban growth and early modern cities<br>– Urbanization: global perspective and its implications<br>– Characteristics of planned and unplanned Human Settlements |
| 6-7 | **Urban Regeneration and urban renewal; Concepts, Approach and Processes** |
| 8 | **Theories of overurbanization and approaches to regional development** |
| 9 | **EMERGING TRENDS IN URBAN PLANNING**<br>– Sustainable urban development |
| 10 | – Mixed used development<br>– Spatial development planning |
| 11 | – Use of big data in urban planning |
| 12 | – Climate change and disaster management |
| 13 | – Affordable housing |
| 14 | – Participatory planning |
| 15-16 | – Urban Governance |

| | |
|---|---|
| | – Infrastructural disparities in Pakistan |
| | ESE |

**Practical:**

| No. | Topic |
|---|---|
| 1 | Field visits to study the characteristics of planned and unplanned areas |
| 2 | Preparation of a zoning plan and neighbourhood plan |
| 3 | Identification of urban issues and basic needs of community |
| 4 | Review of Sustainable Development Goals in context of Pakistan |
| 5 | Review of Master Plan of selected cities |

**TEXT AND MATERIAL:**

**Textbook (s):**

a. Hall, P., and Tewdwr-Jones, M. (2011), Urban and Regional Planning, Routledge

b. Allmendinger, P., Prior, A., and Raemaekers, J. (eds.) (2000), Introduction to Planning Practice, John Wiley.

c. Ur Rahmaan, A. (2011), The Imperatives of Urban and Regional Planning: Concepts and Case Studies from the Developing World, Xlibris Corporation.

**Reference Material:**

d. Regional and Economic Analysis for Practitioners. 4th ed. Praeger, New York. Location analysis, comparative advantages, regional income, and other concepts and methods in regional planning. Requires intermediate preparation in economic theory

e. FAO 1993. Guidelines for Land-Use Planning. FAO Development Series 1, Inter-Departmental Working Group on Land Use Planning. Rome, Italy. A complete step-by-step guide to principles and methods of preparing land-use plans. Helpful checklists, tables, figures, and diagrams.

f. National Reference Manual of Pakistan

g. Anthony, William P. Participative Management. 1978. Addison-Wesley Publishing, Reading, MA.

h. A. E. Turban and J. Aronson (1998), Decision Support Systems and Intelligent Systems, 5th edition, Prentice Hall. ISBN: 0-13-781674-8

**ASSESMENT SYSTEM:**

1. **CLOs Assessment**

| **Cognitive** | **Psychomotor** | **Affective** |
|---|---|---|
| Spreadsheet | Rubrics | - |

2. **Relative Grading**

| | | | |
|---|---|---|---|
| **Theoretical / Instruction** | | | 75% |
| | *Assignments 10%* | | |
| | *Quizzes 10%* | | |
| | *Mid Semester Exam 30%* | | |
| | *End Semester Exam 50%* | | |
| **Practical Work** | | | 25% |
| *Laboratory Work* | | *70%* | |
| | *Laboratory Attendance 20%* | | |
| | *Laboratory Report 20%* | | |
| | *Laboratory Quiz 30%* | | |
| *Viva/Quiz* | | *30%* | |
| **Total** | | | **100%** |