FACULTY OF PHYSICAL PLANNING & ARCHITECTURE

SYLLABUS

FOR

MASTER OF PLANNING (M. PLAN.)(URBAN)

(SEMESTER: I - IV)

(Credit Based Evaluation and Grading System)

Examinations: 2019-20

GURU NANAK DEV UNIVERSITY
AMRITSAR

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Semester - I

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<th>Course No.</th>
<th>Course Code</th>
<th>Title of the Course</th>
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<tr>
<td>GUL 501</td>
<td>C</td>
<td>Planning History and Theory</td>
<td>2 1 0</td>
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<tr>
<td>GUL 503</td>
<td>C</td>
<td>Housing</td>
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<tr>
<td>GUL 504</td>
<td>C</td>
<td>Transportation Planning</td>
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<td>GUL 505</td>
<td>C</td>
<td>Planning for Utilities and Services</td>
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<tr>
<td>GUU 506</td>
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<td>GUU 508</td>
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<td>Site Planning of an Urban Area</td>
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Note: GUU 508 shall be undertaken after GUU 506 during the semester.

Semester - II

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<th>Course No.</th>
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<tr>
<td>GUL 551</td>
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<td>Urban Planning Legislation</td>
<td>2 1 0</td>
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<tr>
<td>GUL 552</td>
<td>C</td>
<td>Techniques of Planning</td>
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<tr>
<td>GUU 560</td>
<td>C</td>
<td>Study of Town</td>
<td>0 2 6</td>
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<td>GUU 561</td>
<td>C</td>
<td>Preparation of Master Plan</td>
<td>0 2 4</td>
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<td>GUL 556</td>
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<td>Urban Heritage and Conservation</td>
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<tr>
<td>GUL 557</td>
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<td>Urban Transportation Systems</td>
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<tr>
<td>GUL 558</td>
<td>E2</td>
<td>Landscape Planning</td>
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<td>GUL 559</td>
<td>E2</td>
<td>Urban Design</td>
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<td>80</td>
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<tr>
<td></td>
<td></td>
<td><strong>Student has to select two elective courses, one each from E1 and E2</strong></td>
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<td><strong>Student may opt for an ID Course for credits based on undergraduate/ Post Graduate course from any department of the University having minimum 3 credits</strong></td>
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<td><strong>Credits to be added after the student opts for a particular course</strong></td>
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<td><strong>Total Credits</strong></td>
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<tr>
<td>GUE 676</td>
<td>C</td>
<td>Internship (8 weeks) (to be conducted during summer vocations after 2nd semester and viva-voce to be conducted in the 3rd semester)</td>
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Note: GUU 561 shall be undertaken after GUU 560 during the semester.
## Master of Planning (M. Plan) (Urban) (Semester-I) 2019-20
(Credit-Based Evaluation and Grading System)

### Semester - III

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Code</th>
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<td>L  T  U</td>
<td>Internal</td>
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<td>GUL 671</td>
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<td>Urban Land Economics</td>
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<td>GUL 672</td>
<td>C</td>
<td>Project Management</td>
<td>2 1 0 3</td>
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<tr>
<td>GUL 673</td>
<td>C</td>
<td>Research Methodology</td>
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<tr>
<td>GUU 674</td>
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<td>Detail Project Report of Urban Project</td>
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<tr>
<td>GUU 675</td>
<td>C</td>
<td>Re-planning of an area</td>
<td>0 2 6 5</td>
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<tr>
<td>GUE 676</td>
<td>C</td>
<td>Internship (8 weeks)</td>
<td>- - 4 4</td>
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<tr>
<td>GUL 677</td>
<td>E</td>
<td>Metropolitan Planning</td>
<td>2 1 0 3</td>
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<tr>
<td>GUL 678</td>
<td>E</td>
<td>Environment Planning and Management</td>
<td>2 1 0 3</td>
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</table>

**Student has to select one elective course from E**

<table>
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<tr>
<th>Course No. to be added after the student opts for a particular course</th>
<th>Student may opt for an ID Course for credits based on undergraduate/ Post Graduate course from any department of the University having minimum 3 credits</th>
<th>Credits to be added after the student opts for a particular course</th>
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<tbody>
<tr>
<td>GUL 689</td>
<td>City Exposure (to be conducted after theory and planning practice classes of 3rd semester and viva-voce to be conducted in the 4th semester)</td>
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**Note:** GUU 674 shall be undertaken after GUU 675 during the semester

### Semester-IV

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<tr>
<th>Course No.</th>
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<th>Title of the Course</th>
<th>Credits</th>
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<td>L  T  U</td>
<td>Internal</td>
<td>External</td>
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<tr>
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<tr>
<td>GUF 689</td>
<td>C</td>
<td>City Exposure</td>
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<td>GUL 683</td>
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<td>Urban Development Management</td>
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<td>GUL 684</td>
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<td>Urban Governance and Finance</td>
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<td>GUL 685</td>
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<td>Professional Practice</td>
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<td>GUL 686</td>
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<td>Community Participation in Planning</td>
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<td>GUL 687</td>
<td>E3</td>
<td>Planning for Tourism</td>
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<td>GUL 688</td>
<td>E3</td>
<td>Planning for Disaster Management</td>
<td>2 1 0 3</td>
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**Student has to select three elective courses, one each from E1, E2 and E3**

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<thead>
<tr>
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**Total Credits** 24
GUL 501: PLANNING HISTORY AND THEORY

Credits: 03 (L=2, T=1, U=0)
Max. Marks: 100
(Mid Semester Examination–20,
End Semester Examination–80)

Instructions for paper-setters:
Eight questions of equal marks (specified in the syllabus) are to be set, two in each of the four sections (A-D). Questions may be subdivided into parts (not exceeding 4). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

Section A
Significance of the study of evolution of settlements; Hunter, gatherer, farmer and formation of organized society; Cosmological and other influences, origins and growth of cities, effects of cultural influence on physical form; Evolution of Planning thought from ancient texts and treatise in India (Vedic Literature), Classification of settlements and plans of ancient Indian villages and towns.

Section B
Ancient Civilizations: Salient Town Planning Characteristics in Indus, Case Studies- Harappa and Mohenjo-Daro, Egyptian, Mesopotamian Greek and Roman Civilizations; Medieval Town Planning in Europe and India; Renaissance; Industrial and post industrial cities; Model and New Town Movements; Town Improvement and City Beautiful Movements.

Section C
Planning Theories by Ebenezer Howard, Camillo Sitte, Patrick Geddes and Clarence Perry, C.A. Doxiadus, Lewis Mumford, F.L. Wright, Le Corbusier and Peter Hall; City as a living spatial entity; Concepts of landmark, axis, orientation; City form as a living space; City as a political statement: New Delhi, Chandigarh.

Section D
Modernism and Post Modernist Planning Thought; Neo-Marxist and Neo Liberal perspectives in Planning; Comprehensive Rational Planning Approaches; Disjointed Incrementalism and Mixed Range Approach, Strategic Spatial Planning, Advocacy and Pluralism, Collaborative and Communicative Planning, New Urbanism and Smart Growth Developments.

Suggested Readings:

**Recommended Journals**
1. Planning Theory, Sage
2. Planning Theory and Practice, Taylor and Francis
GUL 503: HOUSING

Credits: 03 (L=2, T=1, U=0)

Mid Semester Examination: 20% weightage
End Semester Examination: 80% weightage

Instructions for the Paper Setters:
Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Section A
Housing definition and subject matter, Modernist and post-modernist Housing thought, Housing Ideologies; their assumptions related to poverty, housing issues, housing interventions, modernization, redistribution with growth, neo-liberal, pragmatic neo-liberal, Critique of ideologies and way forward, Housing need, demand and supply; definitions, factors affecting them, theoretical models and dynamics.

Section B
Residential mobility; impacting factors and models (invasion and succession, filtering, housing chains, gentrification, life cycle and trade off model) Slums; causes and consequences and approaches, Housing area planning consideration and modules, Residential densities, Low cost housing; methodologies of cost reduction in housing, Low cost and eco-friendly building materials (indigenous, agricultural, industrial, others), Land for housing; formal and informal conduits of land supply, land partnership models for affordable housing provision (land pooling and readjustment, land reconstitution, land sharing).

Section C
Role of Institutions in housing generation and upgrading ; Housing and Urban Development Corporation, Building Materials Training and Promotion Council, Central Building Research Institute, Participatory models and their application in housing, Conducting social audits in housing.Housing and community development schemes, Formal housing finance outreach and the urban poor in India, Role of informal housing finance.

Section D
Housing finance networks and institutions, Community micro-finance institutions; Self Employed Women Association Bank, Grameen Bank, Habitat International Coalition, International Slum Dwellers Federation, Urban Housing and Habitat Policy, International Agencies in Housing and Community Development, Best practices in Housing (slum upgrading, city wide networking, affordable housing provision).
Suggested Readings:


Journals

1. Housing Theory and Society, Taylor and Francis
2. Journal of Housing Studies, Sage
3. Journal of Housing and Built Environment, Taylor and Francis.
GUL 504: TRANSPORTATION PLANNING

Credits: 03 (L=2, T=1, U=0)

Mid Semester Examination: 20% weightage
End Semester Examination: 80% weightage

Instructions for the Paper Setters:
Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Section A
Meaning, scope, objectives and components of transportation planning and its importance in urban planning; Importance of traffic and travel characteristics in transportation planning; Relationship between traffic volume, concentration and speed; Hierarchy of roads; Highway capacity and level of service; Transport problems and mobility issues.

Section B
Cross sectional and longitudinal elements of urban roads - right of way, carriageway, median, service lane, footpath, curb, camber, side slope, service road, horizontal curves, vertical curves, super elevation, sight distance, access control; Intersections and interchanges – types, capacity and design principles; Traffic controls and regulation devices - traffic signs, signals and markings; Road infrastructure and road landscape design features.

Section C
Transport plan and management - comprehensive traffic & transportation plan, city mobility plan, transport system management; Urban form and transport patterns; Land use – transport integration; Accessibility and mobility issues in transportation planning; Transportation planning process – stages and surveys/ studies; Traffic surveys, presentation and analysis- traffic volume, parking, origin & destination, speed & delay, accidents; Planning considerations, norms and designs of bus and truck terminals.

Section D
Transport system and urban structure; Transport systems – meaning, types, characteristics of BRTS, LRTS, MRTS and NMTS; City size and sustainable transport options. Intelligent transport system – meaning, components, characteristics and guidelines; Smart transport solutions; Legal and organizational framework for transportation; Funding of transportation systems; Transport technologies and environmental impacts - relevance in urban transportation planning; Urban transport policies in India; Transport, environment and safety issues; Principles and approaches of traffic management, transport system management.
Suggested Readings:

2. Road Safety Bill (2016). Ministry of Road Transport & Highways, Govt. of India, New Delhi.
GUL 505: PLANNING FOR UTILITIES AND SERVICES

Credits: 03 (L=2, T=1, U=0)

Mid Semester Examination: 20% weightage
End Semester Examination: 80% weightage

Instructions for the Paper Setters:
Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Section A
Definition of Utilities and its importance, Role of utilities in the functioning of settlements, water shortage and scarcity, importance of water supply schemes, Sources of Water- surface and underground source, Water Collection and conveyance- intakes, Distribution system, Methods of supplying water,, Water treatment processes – plain sedimentation, sedimentation with coagulation, filtration and disinfection (excluding the design part).

Section B
Issues related to Quality of water, Assessment of water demand or quantity of water for various types of demands,Urban Sanitation- systems of sanitation- conservancy and water carriage, Disposal in unsewered areas like septic tanks, privies, Sewerage systems, Pattern of Collection system, sewage disposal, sewage treatment process – screening and skimming, sedimentation, activated sludge process, Sewage sludge treatment Disposal and Utilization (excluding the design part)

Section C
Swach Bharat Mission asGovernment Programs related to Sanitation. Urban Storm water collection system and its components, Drainage system: determination of intensity of rainfall and run off coefficient for various sources; rain water harvesting; Reuse and recycling of water

Section D
Solid waste generation and disposal methods like composting, incineration, sanitary landfill Biomass, energy –solar, photovoltaic cells, use of PPP models in various kinds of utilities, Govt. Programs on storm water and urban drainage system and Municipal Solid waste disposal case studies. Government Programs on water supply like AUWSP (Accelerated Urban Water Supply Program)

Suggested Readings:

GUU 506: CAD and GIS

Credits: 03 (L=0, T=0, U=6)
Max. Marks: 100
Internal examination: 50
External examination: 50

The evaluation of final practical examination shall be done both by external & internal examiners jointly.

Introduction to AutoCAD, Setting up of a drawing – Coordinate system, Limits, Units, Precision, Introduction to Format, Draw, modify, commands in AutoCAD. Concept of Dimension, Layers, and Text, Arrays and Hatching in AutoCAD. Concepts of blocks and external referencing, Printing of drawing to a particular scale, concept of 3D in AutoCad.

Basic concepts of GIS and to represent geographical features in GIS. Concept of digital maps and its advantages, raster and vector maps, spatial and attributes data, various types of spatial and non-spatial analysis in urban planning using GIS.

Various data input methods in the ArcView of ArcGIS software, which includes geo-referencing, digitization, query building, spatial and non-spatial analysis, and final production of maps using GIS. For the purpose of digitization and data existing data source may be used.

Exercises undertaken by the students will be submitted in the form of soft copy of problems, hard copy of some problems, and reports / assignments.

In addition, a final practical examination will be conducted.

Suggested Readings:

GUU 508: SITE PLANNING OF AN URBAN AREA

Credits: 05 (L=0, T=1, U=8)
Max. Marks: 100
Internal examination: 50
External examination: 50

The evaluation of final practical examination shall be done both by external & internal examiners jointly.

Each student or group is required to prepare a site plan of an area. Area may be residential, commercial, industrial, institutional, parks and open spaces, transport nagar. The students are required to identify the features of aforesaid selected area and work out the compatibility of various uses with the help of norms and standards. They will further carry out the literature review with an emphasis of its applications in the selected site. The students should work out the constraints of the site and achieve the objective of healthy living environment.

The students are required to collect relevant data and work out requirements for the given site and prepare various plans, i.e., layout plans, circulation plan, utility plan and landscape plan.

“Note: The Students are required to undertake field surveys for data Collection for the said Planning Studio Exercise.”

Suggested Readings

GUL 551: URBAN PLANNING LEGISLATION

Credits: 03 (L=2, T=1, U=0)
Max. Marks: 100
(Mid Semester Examination–20,
End Semester Examination–80)

Instructions for paper-setters:

Eight questions of equal marks (specified in the syllabus) are to be set, two in each of the four sections (A-D). Questions may be subdivided into parts (not exceeding 4). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

Section A

Section B

Section C
The Punjab Regional and Town Planning and Development Act: objectives, content, procedures for preparation and implementation of regional plans, Master Plans and Town Planning schemes; The National Capital Region Planning Board Act; The Punjab District Planning Committees Act; Periphery control, land conversion in the peri-urban areas.

Section D
Slums in urban area: legal aspects -The Tamil Nadu Slum Areas (Improvement and clearance) Act; Rent Controls in India; The Water (Prevention & Control of Pollution) Act; The Air (Prevention & Control of Pollution) Act; The Environment Protection Act; Legal aspects of innovative techniques such as Transfer of Development Rights.

Suggested Readings:
GUL 552: TECHNIQUES OF PLANNING

Credits: 03 (L=2, T=1, U=0)

Mid Semester Examination: 20% weightage
End Semester Examination: 80% weightage

Instructions for the Paper Setters:
Eight questions of equal marks (specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Section A
Planning definitions and concept, Categories of Planning (economic, social and physical) and their integration; Planning at different levels, Town as a physical, social, economic and functional entity, Town typology and their characteristics, Urbanization and Urban Growth, Identification of problems and priorities, Preparation of plans; Perspective Plan, Master Plan, Development Plan, Zonal Plans, Project Plans/Schemes;

Section B
Concept of Regional Planning and development. Aims & Objectives of Regional planning, classification of regions, regionalization and delineation techniques for various types of regions., regional planning vis-vis National Five Year Plans, Regional economic activities such as primary, secondary, tertiary – factors governing & influencing the size, structure of these activities, Role of public participation in plan formulation and implementation.

Section C
Planning Surveys, Primary-Sampling techniques, interview schedules and questionnaire design, Secondary data-format and attributes of data in terms of its relevance, reliability and compatibility Data processing: Designing performa for computers, classification, coding & tabulation, editing and control of error, Data presentation techniques,

Section D
Site planning process; selection of site, site analysis, general principles and guidelines for plan preparation, Site Planning standards, Preparation of plans for residential, commercial, Institutional, recreational and industrial sites. Norms &Standards.

Suggested Readings:
GUU 560: Study of Town

Credits: 05 (L=0, T=2, U=6)
Max. Marks: 100
Internal examination: 50
External examination: 50

The evaluation of final practical examination shall be done both by external & internal examiners jointly.

Understanding the theoretical base of the city—Prevailing concept of urban planning and development, contents of the study of a city/town, best practices adopted in India (abroad-examples), Review of the previous works done, Outline of the planning laws. Stage of the Comprehensive Plans- Regional, City and Local Area Plans (LAP). Preparation of detailed Map-Regional, City and Local Area (selected pockets for Zonal Plans).

Preparation of Detailed report- With clear use of references and approach adopted. Basis of analysis, Broad Chapter classification, briefing outline of each chapter, work details. Delineation of region or Influence area of city may be concluded. Detailed Discussions of the work, Identifications of the Problems and Potentials in: Regional context (Settlements, Networks, Resources Uses, Siting.)

City- Aspects as per discussion, Local- As per critical and priority in the approach adopted. Application Planning Norms- Existing Planning procedure, Identification of GAPS. Final Submission and review (Drawing, Maps, Report).

“Note: The Students are required to undertake field surveys for data Collection for the said Planning Studio Exercise.”

Suggested Readings:
GUU 561: PREPARATION OF MASTER PLAN

Credits: 04 (L=0, T=2, U=4)

Max. Marks: 100

Internal examination: 50

External examination: 50

The evaluation of final practical examination shall be done both by external & internal examiners jointly.

The students are required to prepare a plan on the basis of identification of problems, potentials of the town studied as per “GUU 560 – Study of Town”.

The scope of Comprehensive Development plan preparation will include working out the detailed requirements; formulation goals, objectives and policies; planning considerations; conceptual framework; planning proposals including zoning and phasing; and implementation strategy covering organizational and financial aspects.

The Master plan shall be submitted in form of a detailed report illustrated with necessary maps, charts, drawings, sketches.

“Note: The Students are required to undertake field surveys for data Collection for the said Planning Studio Exercise.”

Suggested Readings

Journals
1. Spatio-Economic Development Record
2. ITPI Journal, ITPI
3. Cities, Elsevier
4. Third World Planning Review, Liverpool University Press
GUL 556: URBAN HERITAGE AND CONSERVATION (Elective-1)

Credits: 03 (L=2, T=1, U=0)

Mid Semester Examination: 20% weightage
End Semester Examination: 80% weightage

Instructions for the Paper Setters:
Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Section A
Definition, importance of Urban Heritage and its relevance in urban planning; Basic concepts of redevelopment & renewal. Conservation, meaning, techniques and relevance in urban planning. Conservation Plan for Urban Areas, Surveys and Studies for Conservation Plan.

Section B
Concept of listed Buildings, Concept of Heritage zones, Preparation & Implementation of Conservation Plan, Integrating Conservation Plan with Master Plan; Integrating Tourism Plan of the City. Conservation movement; International Perspective, International Organizations, their role & functions; WHC, ICOMOS, ICCROM, CIPA.

Section C
International Charters namely Venice Charter, Charter of the conservation of historic towns and urban areas. National perspective, National Organizations their role & functions Archeological Survey of India, IHCN, Indian National Trust for Art and Cultural Heritage (INTACH).

Section D

References:


GUL 557: URBAN TRANSPORTATION SYSTEMS (Elective-1)

Credits: 03 (L=2, T=1, U=0)

Mid Semester Examination: 20% weightage
End Semester Examination: 80% weightage

Instructions for the Paper Setters:
Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Section A
Public transport systems and their characteristics; mass transits system, para transit system, Physical, morphological and socio-economic bases of public transport systems, Landuse and transportation interface, Public transport demand and supply – characteristics, indicators and determinants in cities of various sizes and socio-economic settings, Transportation and environment.

Section B
Urban Transport modeling; classic demand forecasting model (trip generation, trip distribution, modal split and traffic assignment), Mass transit system – meaning, types and characteristics; Role of mass transit system in growth and development of cities, Mass public transit system characteristics - MRTS, LRTS, BRTS; Physical, technological, social and economic feasibilities of their network planning and operations, Problems of mass transit.

Section C
Multi-modal transport system and its planning considerations, Para transit system; types and characteristics, Para transit and city size, Problems of paratransit in cities, Physical, social and economic relevance of para transit, Planning for non-motorized transport and special needs, freight transport demand; influencing factors and service components, customer satisfaction assessment.

Section D
Intelligent Transportation Systems and their sub-systems and applications, Role of transportation in poverty eradication, Legal, financial and administrative concerns of public transport systems, Public Private Partnerships in Transport Sector, National Urban Transport Policy, Case studies from India.
Suggested Readings


Recommended Journals

1. International Journal of Sustainable Transport
2. Transport Planning and Technology
GUL 558: LANDSCAPE PLANNING (Elective 2)

Credits: 03 (L=2, T=1, U=0)

Mid Semester Examination: 20% weightage
End Semester Examination: 80% weightage

Instructions for the Paper Setters:
Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Section A
Theory of Landscape Planning & Design: Definition and objective of landscape design and planning; Inter relation of landscape design with urban design; Trends in landscape planning, Landscape design process, surveys, site analysis, Elements & principles of landscape design. Landscape Elements: Hard and soft i.e. vegetation, land, rock, type, species, composition & structure of vegetation for landscaping; Plants as elements of landscape design.

Section B
Water as an element of Landscape design Environment and visual concerns of plants in urban planning. Functional, architectural and environmental aspects of landscape design elements; Composition and structure of plants for landscaping; Characteristics and use of Trees, Shrubs, Flowers and Climbers; Planting design theory; Geographic & climatic determinants of plants, Plant selection criteria and plantation plan, Environmental concern,

Section C

Section D
Landscaping of Living & Work Area: Approaches and concepts of landscaping residential, commercial and administrative area, industrial areas, airport zones. Landscape along lines of movement – roads, rails & water channels. Case studies for landscape concepts/projects in Delhi, Chandigarh, Bangalore.
Suggested Readings

GUL 559: URBAN DESIGN (Elective 2)

Credits: 03 (L=2, T=1, U=0)

Mid Semester Examination: 20% weightage
End Semester Examination: 80% weightage

Instructions for the Paper Setters:
Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Section A
Definition of Urban Design, its relevance and importance in urban planning; Urban design in historical context; Concepts & terminology of Urban design. Urban design as interface between architecture and planning; city as a three dimensional entity; Study of volumes and open spaces at all spatial levels; Elements of urban design : point, line, shape, form and organization of forms in space. Scale, proportion, composition, texture and pattern in urban design.

Section B
Bye laws regulations & urban Design relationship, influence of growth and change on forms & functions of city and its impact on the urban design. Determinants of Urban Form – Scale, texture, grain and activity patterns. Urban form as determined by inter – play of masses, voids, Building typology and its impact on urban forms and merging boundaries of Architecture and urban design; aesthetical and functional aspects of urban design.

Section C
Urban signage and graphics; organization of spaces and their articulation in the form of squares, streets, vistas and focal points; Image of city and its elements : nodes, districts, paths, edges and landmarks. Norms & standards, controls, zoning regulations determining style and character of urban design.

Section D
Activity and the morphology of places; Urban design and its control; Control of visual pollution; Urban design policy and guidelines for urban development plans. Efficacy of different agencies as promoter and protector of urban design. Urban Design case studies (a) Bangalore, (b) New Delhi (c) Shimla (d) Amritsar.
Suggested Readings:

Master of Planning (M. Plan) (Urban) (Semester-III) 2019-20
(Credit-Based Evaluation and Grading System)

GUL 671: URBAN LAND ECONOMICS

Credits: 03 (L=2, T=1, U=0)
Max. Marks: 100
(Mid Semester Examination–20, End Semester Examination–80)

Instructions for paper-setters:

Eight questions of equal marks (specified in the syllabus) are to be set, two in each of the four sections (A-D). Questions may be subdivided into parts (not exceeding 4). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

Section A
Nature and scope of urban economics and its significance in urban planning, characteristics of land, basic concepts, economics, micro economics, macro economics, goods, wealth, income, money, price, cost, revenue, value, land, capital, labour, enterprise, utility, demand, supply.

Section B
Principal type of land uses, land use capacity, highest and best use. Formal and informal sectors, economies and dis-economies of agglomeration and its impact of urban growth. Economics of location – factors affecting different land uses such as residential, commercial, industrial, public and semi-public, parks and open spaces, circulation.

Section C
Land value – concept and factors affecting. Macro and micro approaches such as trade off model and environmental preference model. Real estate – concepts and characteristics, urban real estate market problems.

Section D

Suggested Readings:
Master of Planning (M. Plan) (Urban) (Semester-III) 2019-20
(Credit-Based Evaluation and Grading System)

Master of Planning (M. Plan) (Urban) (Semester-III) 2019-20
(Credit-Based Evaluation and Grading System)

GUL 672: PROJECT MANAGEMENT

Credits: 03 (L=2, T=1, U=0)
Max. Marks: 100
(Mid Semester Examination–20,
End Semester Examination–80)

Instructions for paper-setters:

Eight questions of equal marks (specified in the syllabus) are to be set, two in each of the
four sections (A-D). Questions may be subdivided into parts (not exceeding 4). Candidates
are required to attempt five questions, selecting at least one question from each section.
The fifth question may be attempted from any section.

Section A
Concept and classification of project, Meaning and Objectives of Project Management, stages of
project management – Project Conception and Initiation, Project launch or Execution, Project
Performance or Control, Project Commissioning; Significance of project Management in urban
planning, Life cycle of a project.

Section B
Stages of project formulation and their significance, Identification of a project, feasibility
Analysis: Techno-Economic Analysis, Design and network analysis, Network Rules, Application
of C.P.M. & P.E.R.T., Numericals for calculating various floats for Management Decisions,
determining critical paths and forward pass and backward pass computation methods; Time
estimates and Work schedules- concepts & techniques.

Section C
Techniques of project Monitoring- Integrated Reporting Technique, Milestone, Time and Cost
under run & over run technique and Unit Index Technique. Project Evaluation: criteria and
stages of Project Evaluation – Technical, Financial, Commercial, Sociological, Institutional and
Economic; Techniques of project Evaluation- Net Present Value, Internal Rate of Return, Benefit
Cost Ratio (Profitability Index), Payback Period, Accounting rate of return.

Section D
Discounted Cash-flow analysis, Cost-benefit analysis: Financial & social cost-benefit analysis in
public and private sector projects. Application of cost and benefit analysis in developing
countries – Case studies in housing, transportation and infrastructure development projects under
JNNURM and NCR.

Suggested Readings:
2 Prasanna Chandra, (2011). “Projects Planning, Analysis, Financing, implementation and
Master of Planning (M. Plan) (Urban) (Semester-III) 2019-20
(Credit-Based Evaluation and Grading System)

GUL 673: RESEARCH METHODOLOGY

Credits: 03 (L=2, T=1, U=0)
Max. Marks: 100
(Mid Semester Examination–20,
End Semester Examination–80)

Instructions for paper-setters:

Eight questions of equal marks (specified in the syllabus) are to be set, two in each of the four sections (A-D). Questions may be subdivided into parts (not exceeding 4). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

Section A
Definition and needs of Research, Scientific research and methods, System approach of research, Levels of research: micro and macro; Major steps in the conduct scientific research, induction, deduction and verification; Selection and formulation of research problems, reviewing of literature, Designing a research, Pre-test and pilot study.

Section B
Hypothesis; meaning, importance and different concept, formulation and testing of hypothesis, Tests of Hypothesis, z-test, t-test, F-test, Chi-square test. Lorenz Curve. Measures of central tendency and Measures of dispersion – measures of dispersion – meaning and importance, range, quartile deviations, mean deviation, standard–deviation. Correlation and Regression Analysis - meaning, types, importance, methods of measurement.

Section C
Synopsis, and components of synopsis, Research Compilation and report: contents and style, factors in the organization of a research report, writing of foot notes, quoting styles, references, cross referencing and bibliography; Issues & areas of urban planning research and data.

Section D
Definition of Concept, Theory and facts, Process of theorization.; Meaning. Definition and classification of Model, of models, role of different types of models used in urban planning, process of model application, Understanding and evaluation of operational models related to landuse, transportation, location/allocation of activities, land value, accessibility and simulation of urban growth, in terms of their objectives, theoretical structure, mathematical formulation, applications and limitations.
Suggested Readings:
Master of Planning (M. Plan) (Urban) (Semester-III) 2019-20
(Credit-Based Evaluation and Grading System)

GUU674: DETAIL PROJECT REPORT OF URBAN PROJECT

Credits: 04 (L=0, T=2, U=4)
Max. Marks: 100
Internal examination: 50
External examination: 50

The evaluation of final practical examination shall be done both by external & internal examiners jointly.

The students shall undertake the preparation of project/s in detail. The aim of the exercise is to understand a project while preparing Detailed Project Report (DPR) of designed project/s of various nature i.e. Commercial, Industrial, Institutional, Residential, Transportation or any other project. The exercise will be completed as per the following:

The study of project is to highlight the prime objectives of the project and set Network priorities of the project and feasibility analysis of the project. To identify the components as major tasks of project and set their priority for the implementation with the help of PERT/CPM charts. The students shall be required to prepare cost estimates of the various identified tasks and total project cost along with the time frame. They shall identify the returns from the project, total seed money required, working capital and breakeven point on timeframe. Student has to identify the agencies, financial and legal mechanism involved in the implementation of different components of the project.

“Note: The Students are required to undertake field surveys for data Collection for the said Planning Studio Exercise.”

Suggested Readings:

GUU 675: RE-PLANNING OF AN AREA

Credits: 05 (L=0, T=2, U=6)
Max. Marks: 100

Internal examination: 50
External examination: 50

The evaluation of final practical examination shall be done both by external & internal examiners jointly.

Our cities and parts thereof require re-planning in the light of changing requirements of their residents. These changes can be of varying nature such as re-densification, change of land use, significant alteration in development controls, provision of parking, or other requirements as desired by the inhabitant of the area. This requires to consider such changes keeping in view the problems, constraints and potentials of such pockets and impact of such alterations on the surroundings of these pockets.

The students, individually or in groups, shall be required to meet the desired outcome with essential required alterations without changing the basic character of the area as per the changed scenario. The students can take a proposed project or identify an area and its potential and re-plan the site.

The final submission shall be in the form of various layouts and report.

“Note: The Students are required to undertake field surveys for data Collection for the said Planning Studio Exercise.”

Suggested Readings

GUE 676: INTERNSHIP  
(8 Weeks)  
Credits: 04 (L=0, T=0, U=4)  
Max. Marks: 100

The students are required to work in the planning office /organization they are assigned to, for a period of 8 weeks. The students are required to understand the following and write a report (25-30 pages) containing the following aspects

1. A brief introduction to the organization.
2. Objectives and functions of the organization.
3. Nature and structure of the organization, explanation of various divisions and their role/working in the organization.
4. Nature of projects, responsibilities and authority (Legal, Jurisdictional etc.) of the organization in the recent past.
5. Nature of current projects in brief, undertaken by the organization.
6. Details of the project(s)/activities the student has worked upon.
7. Student’s contribution, comments/observation on various activities/project(s) undertaken by him in the organization.
8. Nature of responsibility given to the student and the work done by him/her on weekly basis.
9. The viva-voce of the report shall be conducted by the Internship Coordinator.

The student is required to bring the following documents on the official letterhead from the organization in which he/she has undergone internship

1. Joining Report: A letter issued by the organization duly signed by the internship supervisor/authorized signatory.
2. A certificate from the head of the organization/division regarding attendance of internship and its successful completion.
GUL 677: METROPOLITAN PLANNING (Elective)

Credits: 03 (L=2, T=1, U=0)
Max. Marks: 100
Mid Semester Examination–20
End Semester Examination–80

Instructions for paper-setters:
Eight questions of equal marks (specified in the syllabus) are to be set, two in each of the four sections (A-D). Questions may be subdivided into parts (not exceeding 4). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

Section A
Urbanization – concept, degree and level; Metropolis - classical and neo-classical definitions; Related concepts - urban agglomeration, conurbation, necropolis, primate city, metropolitan region and area of influence, megalopolis, world cities, global city; Socio-economic character of metropolis, Issues and problems in metropolitan planning and development; Metropolitanization process -metropolis and its growth process.

Section B
Area of influence of metropolis; Primate City - degree of primacy and its phenomena; Metropolitan region and its characteristics; Form and structure of metropolis - sheet, galaxy, core, star, ring and multinucleated; Centralization and decentralization processes and their impacts on metropolitan planning and developments; Case studies – Delhi, Mumbai, Calcutta, Madras.

Section C
Metropolitan planning and development process: surveys and studies, development strategies, preparation of plans and their implementation, Constraint in plan implementation - Physical, administrative, legal and financial constraints in plan implementation. 74th Amendment Act, 1992, role of MPC. Case studies on metropolitan planning and development – mega cities and metropolitan cities.

Section D
General global issues and action programs—relevance for Indian cities; Guidelines of UNDP for metropolitan planning and development; Policies and development strategies of metropolis and its region – case studies from UK, USA and South Asian Cities.

Suggested Readings:
Master of Planning (M. Plan) (Urban) (Semester-III) 2019-20
(Credit-Based Evaluation and Grading System)

GUL 678: Environmental Planning and Management (Elective)
Credits: 03 (L=2, T=1, U=0)
Max. Marks: 100
Mid Semester Examination–20
End Semester Examination–80

Instructions for paper-setters:
Eight questions of equal marks (specified in the syllabus) are to be set, two in each of the
four sections (A-D). Questions may be subdivided into parts (not exceeding 4). Candidates
are required to attempt five questions, selecting at least one question from each section.
The fifth question may be attempted from any section.

Section A
Concept of Environment, Ecology & Ecosystem; Types of Environment: Natural, Built and
Social, Concept of Resources, Types of Resources Economic, Natural, Potential vs. Actual, Non-
renewable, Renewable and Perpetual Resources, Sustainable use of resources, Resources needed

Section B
Defining Urban Environmental Problems, City related environmental hazards types,
Environmental issues in Settlements, Environmental Considerations in Urban Planning:
Overpopulation, Pollution, Traffic Related Environmental Issues, Urban Expansion, Industrial
Development, Urban Ecosystem, Environmental issues in Fringe areas, Ecological Footprint,
Ecosystem Valuation, Climate Change and Urban areas.

Section C
Urban Environment Management: The Enabling Environment, Environmental Maps,
Community Surveys, Environmental Risk and Landuse Impact Analysis, Strategic Planning and
Implementation tools, Role of National and Local Govt., Monitoring and Compliance, Managing
Urban Environment through Poverty Alleviation, Slum Upgradation, Access to Clean Water,
Clean Industry, Transportation Pollution, Energy Consumption, Sewage and Sanitation in urban
area

Section D
Environmental Impact Assessment: Basic principles, Process in India, Public hearing, Projects
requiring EIA, Screening, Preliminary Assessment, Comprehensive EIA, Evaluation &
Mitigation, EIA Techniques: Baseline studies, Ad-hoc method, Checklists, Matrices, Sectoral
Guidelines, Systematic Sequential Approach, Network method, Spatial analysis/Overlay method,
Urban Environment in international agenda: Earth Summits, Habitat Conferences, MDGs, World
water summits, Urban Management Programme.

Suggested Readings:
1. Pirta, Devendra (2013). Environmental Planning and Management in the Himalayan City,
   Bookwell Publications, Delhi.
As per the clause 4 of revised ordinances of Credit Based Continuous Evaluation Grading System 2018, thesis shall be evaluated by a Board of three examiners comprising the Head of the Department or Nominee, Thesis Coordinator and Supervisor.

The main objectives of preparing a thesis is to provide an opportunity to each student to undertake an independent study/research to explore in depth and to develop a subject of his/her own choice demonstrating the ability to use effectively the tools of independent investigation and judgment. The theme of the thesis should offer scope to adopt a fresh approach in formulating a concept of developing a methodology, effective and useful in the realm of urban planning. Each student shall prepare thesis on a selected topic under the supervision of a guide.

Both thesis topic and guide shall be approved by BOC. The thesis shall forthright be presented in the External Viva-voce examination, in the form of a report well illustrated by maps, drawings, charts, sketches, photographs.
GUF 689: CITY EXPOSURE
Credits: 02 (L=0, T=0, U=2)
Max. Marks: 100

Each student shall be required to visit different places in the country or abroad of his or her own choice. The objective of the visit is to experience the students to the functioning of various planning & development organizations as well as to see their live projects.

1. The students shall, as a part of the exposure visit Town & Country Planning offices/Municipal corporations and other related offices and conduct site visits of live projects and observations of the city.

2. A report (25 pages) is to be submitted to the respective coordinators covering the following details:
   i) Organizational and legal setup of the visited offices.
   ii) Projects of the organization (last 5 years).
   iii) Site visit reporting must be supported by photographs / illustrations and Maps.
   iv) Observations regarding spatial planning in the city.

3. The final report shall be evaluated through a viva-voce examination by the respective coordinator.

Note: Exposure tour is to be conducted during III semester and Viva-voce to be conducted in the IV semester.
Master of Planning (M. Plan) (Urban) (Semester-IV) 2019-20
(Credit-Based Evaluation and Grading System)

GUL 683: URBAN DEVELOPMENT MANAGEMENT (Elective-1)

Credits: 03 (L=2, T=1, U=0)
Max. Marks: 100
Mid Semester Examination–20
End Semester Examination–80

Instructions for paper-setters:
Eight questions of equal marks (specified in the syllabus) are to be set, two in each of the four sections (A-D). Questions may be subdivided into parts (not exceeding 4). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

Section A
Definition, objectives and scope of Development Management: Basic principles and process of management, Role of management in a developing economy; Theory and meaning of organization, Settlement planning, decision making process and corporate activity; actors in urban development management. Application of management techniques in urban & regional planning.

Section B
Emerging urbanization patterns and city growth. Inter relationship between urban development management and development administration Development Administration at National, Regional, State, District and Local levels and the process of decision making at various levels related to urban & regional planning, development and management.

Section C
Urban & regional development management policies and programmes of Government of India, AMRUT, HRIDAY Priorities and provisions in the National Development Five Year Plans. Functions, Powers, Structures and Resources of State level planning and development agencies and their performance with special reference and coverage relating to such Government agencies in the State of Punjab.

Section D
Case studies of various sectors in urban development management. Success and failures of various agencies in the context of Urban development management in Punjab. Indian context and international case studies of Urban development management in terms of its success and failures in global context.

Suggested Readings:
Master of Planning (M. Plan) (Urban) (Semester-IV) 2019-20
(Credit-Based Evaluation and Grading System)

GUL 684: URBAN GOVERNANCE & FINANCE (Elective-1)
Credits: 03 (L=2, T=1, U=0)
Max. Marks: 100
Mid Semester Examination–20
End Semester Examination–80

Instructions for paper-setters:
Eight questions of equal marks (specified in the syllabus) are to be set, two in each of the four sections (A-D). Questions may be subdivided into parts (not exceeding 4). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

Section A
Overview of Urban Governance: Definition, government and governance, hierarchy and structure, forms of governance; models of governance; Steps for good governance, Good governance initiatives at Govt. of India Level, Programs of Govt Of India- SBM, E governance, Digital India, PMGSY Process of decision making for Urban Development at National level, state level and local level.

Section B
Various National level organizations related to urban development; their background, powers, organization structure, resources and achievements with case studies of TCPO, HUDCO, NCRPB, NIUA, CPCB, NHB. Various state level organizations related/concerned with Urban Development in terms of their background, functions, powers, organizational structure, resources and achievements with case studies of PUDA, PIDB, PSWSSB

Section C
Role of Municipal Bodies, Improvement Trusts and City/Urban Development Authorities in Urban Development; Study of these organizations in terms of their background, functions, powers, organizational structure, achievements and limitations with case studies of MC, I.T., City level Planning & Development Authorities

Section D
Overview of Development Finance; Inter-governmental fiscal relationship between Central, State and Urban Local Government; Municipal Finance: Sources of revenues and application of money; Equities; Loans; Debt financing; Municipal Bonds, land and non-land based sources; Bilateral and multi lateral lending institutions mobilizing resources for a project; Financing of urban development, cost recovery, public private partnerships
Suggested Readings:
GUL 685: PROFESSIONAL PRACTICE (Elective-2)

Credits: 03 (L=2, T=1, U=0)
Max. Marks: 100
Mid Semester Examination–20
End Semester Examination–80

Instructions for paper-setters:

Eight questions of equal marks (specified in the syllabus) are to be set, two in each of the four sections (A-D). Questions may be subdivided into parts (not exceeding 4). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

Section A
Introduction and importance of professional practice in Planning, Role of Planner in decision making process-relevant issues – generalist versus specialist, professional versus technocrat. planner as a decision maker versus planner as planning advisor, relationship with client, developers, institutions and contractors; relationship with other experts such as engineers, architects, sociologists, economist, lawyers

Section B
Aims & objectives of professional institutes such as Institute of Town Planner, India, Sister professional institute such as Institute of Engineers, Institute of Architecture. Professional role and responsibility of a planning consultant; Professional ethics and code of conduct, Professional Planning in Public Sector – National Level, Interstate Level, State Government Level, District Level, Metropolitan Area Level, and Local Level.

Section C

Section D
Study of Revenue Plans in context of layout plans, Various services rendered by professional planner; Consultancy agreements & contracts, Charges for normal and special professional services and their mode of payment. Personnel Management – Objective, Motivation Theories, Leadership, Time Management; Performance Appraisal- its importance and various techniques. Relationship of the professional planner with clients, contractors, developers, public bodies and institutions; Copy rights, Disputes arbitrations; Handling of legal matters.
Suggested Readings:

GUL 686: COMMUNITY PARTICIPATION IN PLANNING (ELECTIVE 2)
Credits: 03 (L=2, T=1, U=0)
Max. Marks: 100
Mid Semester Examination–20
End Semester Examination–80

Instructions for paper-setters:
Eight questions of equal marks (specified in the syllabus) are to be set, two in each of the four sections (A-D). Questions may be subdivided into parts (not exceeding 4). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

Section A
Definition, concepts and subject matter of community participation, Theoretical aspects of community participation; Levels of community participation: S. Arnstein’s ladder, Roger Hart’s ladder, Sarah White’s typology of participation, Scott Davidson wheel of participation, UNDP model and Government of India’s initiatives. Social audit, community participation law,

Section B
Vulnerability and human rights, Importance of communication for urban & regional planners, role of effective communication in society, understanding concept of inclusion, community based organizations, Understanding participatory processes, techniques of participation, methods of communication, written, oral and visual communication, objective of communication, developing a communication strategy, Creating participation matrix,

Section C
The clear participation model, Methodologies of deliberation and collaboration, emerging approaches to community participation, Empowered participatory governance and planning, Role of Non-Government organizations and community organizations/Voluntary organizations in community mobilization, community participation in the policy cycle, community participation evaluation methodologies.

Section D
Challenges and obstacles to community participation, requisites of successful community participation, Capacity building for successful community participation, Community participation best practices in : Urban Planning, rural & regional development, Re- habitation, and resettlement, Heritage and conservation, Sanitation, Tourism development, Disaster Management & preparedness.
Suggested Readings


Journals

1. Journal of Community Development, Taylor & Francis online
2. Journal of Community Mobilization and Sustainable Development

GUL 687: PLANNING FOR TOURISM (Elective-3)

Credits: 03 (L=2, T=1, U=0)
Max. Marks: 100
Mid Semester Examination–20
End Semester Examination–80

Instructions for paper-setters:
Eight questions of equal marks (specified in the syllabus) are to be set, two in each of the four sections (A-D). Questions may be subdivided into parts (not exceeding 4). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

Section A
Definition and concepts related to tourism, contemporary planning and development issues in tourism, tourism principles and theory, global tourism geography and trends, regional and intra-regional tourism, inbound and outbound tourism, domestic and international tourism, planning concepts and considerations for tourist towns and cities.

Section B

Section C
Socio-cultural impacts of tourism, economic and environmental impact assessments in tourism, Social audits and community participation in tourism, Development of tourism in depressed regions, Ethical considerations in tourism planning, Tourism potentials and problems in India.

Section D
Role of national/international organizations in tourism; World Tourism Organization, Asia-Pacific Economic Cooperation, Indian Ministry of Tourism, India Tourism Development Corporation Limited, Tourism policies/agreements at local and global scale, Best practices in tourism planning, global and Indian case studies: Tourist Trains Circuits, Religious circuit of Uttrakhand, Coastal tourism, Kerala, North-east tourist circuit.

Suggested Readings:

**Journals**
1. South Asian Jl of Tourism & Heritage.
Eight questions of equal marks (specified in the syllabus) are to be set, two in each of the four sections (A-D). Questions may be subdivided into parts (not exceeding 4). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

Section A
Disasters; definitions and classifications (natural and anthropogenic), Hazard, risk and vulnerability assessments, types of vulnerabilities and causing factors, levels of vulnerability, tools for vulnerability analysis and mapping, Mainstreaming disaster risk reduction in development, Trauma, Human behavior and response management, Animal based impact of disasters.

Section B
Disaster Management cycle; mitigation, preparedness, response, recovery, Role of Urban Planning in disaster management, Dimensions and characteristics of urban risk, Urban environment risk indicators, Disaster preparedness plans, technologies for disaster management, disaster mitigation; emerging trends, damage assessment in disasters, Components of Disaster Relief (Water, food, sanitation, shelter, Health and Waste Management).

Section C
Community based disaster risk reduction, disaster site management, Disasters; a global overview, Disaster profile of India, Institutional arrangements for disaster management in India, Indian Meteorological Department, Indian National Centre for Oceanic Information Services, central Water Commission, Geological Survey of India, Snow and Avalanche Study Establishment, Environment and sanitation issues during disasters.

Section D
Suggested Readings: