

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

Semester - II

Course No.	Course Code	Title of the Course	Credits			Total Credits	Marks	
			L	T	U		Internal	External
GUL 551	C	Urban Planning Legislation	2	1	0	3	20	80
GUL 552	C	Techniques of Planning	2	1	0	3	20	80
GUU 560	C	Study of Town	0	2	6	5	50	50
GUU 561	C	Preparation of Master Plan	0	2	4	4	50	50
GUL 556	E1	Urban Heritage and Conservation	2	1	0	3	20	80
GUL 557	E1	Urban Transportation Systems	2	1	0	3	20	80
GUL 558	E2	Landscape Planning	2	1	0	3	20	80
GUL 559	E2	Urban Design	2	1	0	3	20	80
Student has to select two elective courses, one each from E1 and E2								
Course No. to be added after the student opts for a particular course		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					Credits to be added after the student opts for a particular course	
Total Credits						24		
GUE 676	C	Internship (8 weeks) (to be conducted during summer vacations after 2 nd semester and viva-voce to be conducted in the 3 rd semester)	4					
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

Course No.	Course Code	Title of the Course	Credits			Total Credits	Marks	
			L	T	U		Internal	External
GUL 671	C	Urban Land Economics	2	1	0	3	20	80
GUL 672	C	Project Management	2	1	0	3	20	80
GUL 673	C	Research Methodology	2	1	0	3	20	80
GUU 674	C	Detail Project Report of Urban Project	0	2	4	4	50	50
GUU 675	C	Re-planning of an area	0	2	6	5	50	50
GUE 676	C	Internship (8 weeks)	-	-	4	4	100	--
GUL 677	E	Metropolitan Planning	2	1	0	3	20	80
GUL 678	E	Environment Planning and Management	2	1	0	3	20	80
Student has to select one elective course from E								
Course No. to be added after the student opts for a particular course		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					Credits to be added after the student opts for a particular course	
Total Credits						28		
GUF 689	C	City Exposure (to be conducted after theory and planning practice classes of 3 rd semester and viva-voce to be conducted in the 4 th semester)				2		
Note: GUU 674 shall be undertaken after GUU 675 during the semester								

Semester-IV

Semester 1

Course No.	Course Code	Title of the Course	Credits			Total Credits	Marks	
			L	T	U		Internal	External
GUD 681	C	Thesis	0	0	20	10	100	--
GUF 689	C	City Exposure	0	0	2	2	100	--
GUL 683	E1	Urban Development Management	2	1	0	3	20	80
GUL 684	E1	Urban Governance and Finance	2	1	0	3	20	80
GUL 685	E2	Professional Practice	2	1	0	3	20	80
GUL 686	E2	Community Participation in Planning	2	1	0	3	20	80
GUL 687	E3	Planning for Tourism	2	1	0	3	20	80
GUL 688	E3	Planning for Disaster Management	2	1	0	3	20	80
Student has to select three elective courses, one each from E1, E2 and E3								
Course No. to be added after the student opts for a particular course		Student may opt for One ID Course for credits based on undergraduate/ Post Graduate course from any department of the University having minimum 3 credits					Credits to be added after the student opts for a particular course	
Total Credits						24		

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

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. Doxiadis, 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:

1. Peter Hall P. (2014). "Cities of Tomorrow: An Intellectual History of Urban Planning and Design Since 1880", Wiley and sons, Hoboken.
2. Fainstein, S. (2012). "Readings in Planning Theory", 3rd Edition, Blackwell Publishing, Oxford.

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

3. UN Habitat (2009). "Planning Sustainable Cities", UNHSP, Earthscan, London
4. Levy, J. (2006). "Contemporary Urban Planning", Prentice Hall, Uppersaddle River.
5. Cambbell, Scott and Fainstein, S. (2003). "Readings in Planning Theory", Second Edition, Blackwell Publishing, Oxford.
6. Hall, P. (2002). "Cities of Tomorrow: An Intellectual History of Urban Planning and Design in the 21st Century", Blackwell Publications, Oxford.
7. Ward, S. (2002). "Planning the Twentieth Century City", The Advanced Capitalist World, John Wiley & Sons, Chichester.
8. Freestone, R. (2000). "Urban Planning in a Changing World", E&FN SPON, London.
9. Ellin, N. (1999). "Postmodern Urbanism", Princeton Architectural Press, New York.
10. Hall P, (1998). "Cities in Civilization; Culture, Technology and Urban Order", Weidenfield and Nicolson, London.
11. Stein, M. J. (1995). "Classic Readings in Urban Planning", McGraw-Hill, New York
12. Nath, R. (1995). "Medieval Indian History and Architecture", APH Publishing Pvt. Ltd, New Delhi.
13. Lynch, K. (1981). "A Theory of Good City Form", Cambridge Publications, London.
14. Gallion, A. (1963). "The Urban pattern; City Planning and Design", D.V. Nostrand Company Inc, N.York.

Recommended Journals

1. Planning Theory, Sage
2. Planning Theory and Practice, Taylor and Francis
3. Journal of Planning History, Sage

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

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).

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

Suggested Readings:

- 1 Aldrich, B.C and Sandhu, R. S, (2015). Housing for the urban poor in developing countries, Rawat Publications, Jaipur.
- 2 Ling, J and Ronald, R, (2014). Housing East Asia, Macmillan, N.York.
- 3 A. Banarjee, A.V and E. Duflo. (2013). Poor economics, Random house limited, London.
- 4 Chattopadhyay, S. (2009). New Essays on inclusive housing, Macmillan, Delhi.
- 5 Dwivedi, R. M. (2007). Urban Development and Housing in India 1947 to 2007, New Century Publications, New Delhi.
- 6 G. Payne, G.(1999). Making Common Ground, Intermediate Technology Publications, Ltd, London.
- 7 Mathey, K. (1992). Beyond Self-help Housing, Mansell Publishing Ltd., London.
- 8 Aromar, R. (1990). Shelter in India- Sustainable Development Series, StosiusInc, Advent Books Division.
- 9 Hardoy, J. and Satterthwaite, D. (1989). Squatter Citizen, Earthscan Publications, London.
- 10 T. Poulouse, T. (1989). Reading Material on Housing, ITPI Publication, New Delhi

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.

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

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.

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

Suggested Readings:

1. Pande, Anurag and Brian Wolshon. (2016). "Traffic Engineering Handbook", Seventh Edition, Institute of Transportation Engineers. New Delhi.
2. Road Safety Bill (2016). Ministry of Road Transport & Highways, Govt. of India, New Delhi.
3. Khisty, C.J. and Lall, B.K. (2016). "Transportation Engineering – An Introduction", Prentice Hall of India Pvt. Ltd., New Delhi.
4. Sarkar Prabir Kumar, Maitri Vinay and Joshi G.J., (2015). "Transportation Planning: Principles, Practices and Policies", Prentice-Hall of India Pvt. Ltd., New Delhi
5. Slinn Mike, Paul Matthews and Peter Guest. (2015). "Traffic Engineering Design - Principles and Practice", Elsevier Butterworth-Heinemann, Burlington, MA.
6. Hutton, Barry. (2013). "Planning Sustainable Transport". Routledge, Taylor & Francis Books India Pvt Ltd, New Delhi.
7. Urban Transport Policy (2006). Ministry of Road Transport and Highways, Govt. of India, New Delhi.
8. Thamizh, Arasan, V. (2004). "Transportation Systems Planning and Operation", Allied Publishers Pvt. Ltd., Chennai
9. Kanda, Arun and Others. (2002). "Transportation Systems: Status and Directions", Phoenix Publishing House Pvt. Ltd., New Delhi
10. IRC, (2001). "Guidelines on Low-cost Traffic Management Techniques for Urban Areas", Indian Roads Congress, New Delhi.
11. Papacostas, C.S. & Prevedouros, P.D. (2001). "Transportation Engineering and Planning", Prentice Hall, UK.
12. Motor Vehicle Act (1988). Ministry of Road Transport and Highways, Govt. of India, New Delhi.

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

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 as Government 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:

1. Birdie, G.S. (2012). Water Supply and Sanitary Engineering, Dhanpat Rai Publications

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

2. Trifunovic, N. (2006). An Introduction to Urban Water Distribution, Taylor & Francis, U.K.
3. Hussain, S.K. (2006). Water supply and sanitary engineering, Oxford Publications, New Delhi
4. CPHEEO, (1997). Manual of Sewage and Sewage Treatment, Ministry of Housing & Urban Development, Government of India.
5. CPHEEO, (1997). Manual of Water Supply in Water Treatment, Ministry of Housing & Urban Development, Government of India.

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

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:

1. ESRI, ESRI MAP Book (2015). ESRI Press California.
2. Moss, Elise AutoCAD Architecture (2010). Fundamentals. Deep Publishers. New Delhi
3. George Omura, Mastering AutoCAD. BPB Publications. New Delhi.
4. Frazer, Understanding AutoCAD. Tata McGraw Hill. New York.
5. Joseph Goldenberg, AutoCAD Architecture (2009). – Comprehensive Tutorial. Gibbs Smith Publishers. US.
6. Roger, F. Tomlinson (2009). Thinking about GIS: Geographic Information System Planning for Managers, ESRI Press California.
7. Paul, F. Aubin, Mastering AutoCAD Architecture. Academy Editions, London
8. Martin P. Ralphs, Peter Wyatt. GIS in Land and Property Management. (2003). SPON Press. Newyork
9. Said Easa, Yupo Chan. (2000). Urban Planning and Development Applications of GIS. American Society of Civil Engineers.

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

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

1. Ministry of Urban, Affairs and Employment. (2014).URDPFI Guidelines, Government of India, New Delhi.
2. Rafael Cuesta, Christine Sarris. Paola Signoretta, J. C Moughtin. (2012).Urban Design: Methods & Techniques. Routledge, Newyork
3. Rangwala, S.C. (2005). Town Planning, Charotar Publication House, Anand.
4. Majid Hussein, (2002). Fundamentals of Physical. Geography, Second Edition, RawatPublications, New Delhi.
5. Partap Rao, (1985). Urban Theory and Practice, CBS Publication and Distributors, New Delhi.

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

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

Interface between policy and legislation pertaining to urban development. Concepts, sources, terminologies, significance of law and its relationship to Urban Planning, benefits of statutory backing for schemes; Indian Constitution: provisions regarding property rights, Evolution of planning legislation in India, Seventy Third & Seventy Fourth Constitution Amendment Act.

Section B

Model Town and Country Planning Acts; Objectives, contents and planning implications of important planning Acts including - The Land Acquisition Act: Concepts, procedure for compulsory acquisition of property and determination of compensation; The Punjab Municipal Corporation (Amendment) Act; The Punjab Town Improvement Act.

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:

- 1 Chawla, B.S. (2009). 'Punjab Urban Development Acts and Rules', Chawla Publication Pvt. Ltd., Chandigarh.
- 2 Das A.K. (2007). 'Urban Planning in India', Rawat Publications, Jaipur.
- 3 Jaiswal P.S & Jaswal N. (2003). 'Environmental Law–Environmental Protection, Sustainable Development and the Law', Pioneer Publication, Delhi.

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

- 4 T.C.P.O. (1999). 'Town & Country Planning in India', (Monograph), New Delhi.
- 5 Ministry of Law & Justice G.O.I. (1996). 'The Constitution India', Controller Publications, Delhi.
- 6 Ministry of Urban Affairs & Employment, Govt. of India, (1996). 'UDPFI Guidelines', Vol. 2A, New Delhi.
- 7 I.T.P.I. (1994). 'Constitution (Seventy-Fourth) Amendment, Act 1992- Suggested Changes in Municipal and Town Planning Acts', New Delhi.
- 8 Biswas, A.R. (1982). 'Encyclopedic Law Dictionary', Eastern Law House, Calcutta.
- 9 I.I.P.A., 'Nagarlok', Vol. XIII, Jan.-March, (1981). No. 1.
10. I.I.P.A., 'Nagarlok', Vol. XII, Jan.-March, (1981). No. 1

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

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:

1. Kulshrestha S.K. (Ed. 2006). 'Dictionary of Urban and Regional Planning', Kalpaz Publications, Delhi.
2. Thooyavan K.R. (2005). 'Human Settlements – A Planning Guide to Beginners', MA Publication, Chennai.
3. Greed Clara, (2004). "Introducing Planning: Introducing Planning", Continuum, London.

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

4. Ministry of Urban Affairs & Employment (G.O.I.), (1996). 'Urban Development Plans Formulation and Implementation Guidelines', ITPI, New Delhi.
5. Kopardekar&Diwan (1994). "Urban and Regional Planning-Principles, Practice and Law", S.H. Kopardekar, Talegaon – Dabhade.
6. Kopardekar&Diwan (1994). 'Urban and Regional Planning-Principles, Practice and Law' S.H. Kopardekar, Talegaon – dabhade.
7. Gupta, S. (1993). "Research Methodology and Statistical Techniques", Deep & Deep Publishers, New Delhi.
8. Saini &Mahavir (1985). 'Urban Development Planning Strategies and Techniques', Central Electric Press, Delhi.
9. Goode, W.J. &Hatt P.K. (1982). "Methods in Social Research", McGraw-Hill Inc., New York.
10. Keeble L, (1972). 'Principles & Practice of Town and Country Planning', the Estates Gazette Ltd., London.

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

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:

1. Kadiyali, L.R. (2014). Traffic Engineering and Transport Planning. Khanna Publishers. New Delhi
2. Ministry of Urban Affairs & Employment (G.O.I.) (2014). ‘Urban & regional Development Plans Formulation and Implementation Guidelines’, ITPI, New Delhi.
3. Campbell, T. (2012). Beyond smart cities: how cities network, learn and innovate, Earthscan, N. York.
4. Venugopal, R.A. (2010). State of Urban services in Indian cities, Oxford University Press, N.Delhi
5. JNNRUM, (2005). Guidelines Ministry of Urban Development & Poverty Alleviation, Govt. of India, New Delhi.
6. CPHEEO, (1997). Manual of Sewage and Sewage Treatment, Ministry of Housing & Urban Development, Government of India.
7. CPHEEO, (1997). Manual of Water Supply in Treatment, Ministry of Housing & Urban Development, Government of India.

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

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

1. SomikLall, (2013). Planning, connecting and financing cities, World Bank, Washington DC.
2. Helms, G, (2012). Towards safe city centres: remaking the spaces of an old industrial city, Ashgate, Aldershot.
3. Campbell, T. (2012). Beyond smart cities: how cities network, learn and innovate, Earthscan, N. York.
4. Venugopal, R.A. (2010). State of Urban services in Indian cities, Oxford University Press, N. Delhi.
5. Latham, A. Key concepts in Urban Geography (2009). Sage, London.

Journals

1. Spatio-Economic Development Record
2. ITPI Journal, ITPI
3. Cities, Elsevier
4. Third World Planning Review, Liverpool University Press
5. Journal of Urban Studies, Sage.

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

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

Legislation related to Conservation at national level & state of Punjab, Delhi Urban Arts Commission. Community participation in Conservation; Study of specific zoning regulation, building bye-laws and development controls for Conservation. Case studies of city level including Amritsar, Hyderabad.

References:

1. Descamps, Françoise. (2011). The conservation of historic cities and urban settlement initiative. Conservation Perspective, the GCI News Letter, 26(2): 16-17.
2. Evans, Brian and McDonald, Frank. (Eds.). (2011). Space, place, life, learning from place. London: Routledge.
3. Punhani, Varsha. (2011). Historic cities, now and then. Proceedings of the International Seminar on Sustainable Habitat. New Delhi: HMSI, HUDCO.
4. Jokilehto, Jukka. (2007). International charters on urban conservation, some thoughts on the principals expressed in current international doctrine. City & Time 3(3): 2. <www.ct.ceci-br.org/novo/revista/include/getdoc.php?id=494>

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

5. Ashworth, G.J. (2007). On townscapes, heritage and identities. Paper presented at institute for advanced studies colloquium on urban-rural flows and boundaries, Lancaster University. <www.lancs.ac.uk/ias/annualprogrammes/docs/Ashworth.
6. Feilden, BM and Jokilehto. Jikka (1998). "Management Guidelines for World Cultural Heritage Sites", Rome, ICCROM.
7. Meller, Helen. Patrick Geddes (1990). "Social Evolutionist and City Planner", Routledge, London.
8. Feilden, B. M. (1989). "Guidelines for Conservation: A Technical Manual", New Delhi.
9. Mynor, Charles (1989). "Listed Buildings and Conservation Areas", Longman, London.
10. Dobby Alan (1978). "Conservation and Planning", London, Hutchinson.
11. Sperigen, Paul D. (1965). "Urban Design: The architecture of Towns & Cities. New York", McGrawHill.
12. Lynch, K (1960). "The image of the City", Cambridge, MIT.

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

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.

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

Suggested Readings

1. Kadiyali, L.R. (2014). Traffic Engineering and Transport Planning. Khanna Publishers. New Delhi.
2. Municipal Corporation of Chennai, (2014). Non-Motorized Transport Policy. Government of Nadu. Chennai. India.
3. MoUD, (2014). National Urban Transport Policy. Ministry of Urban Development. Govt. of India. New Delhi.
4. Ponnuswamy, S and Johnson. V. (2012). Urban Transportation: Planning, Operations and Management. Tata McGraw Hill Education Pvt. Ltd. New Delhi.
5. Vuchic, V. R. (2007). Urban Transit – Systems and Technology. John Wiley & Sons. USA.
6. MoUD, (2006). National Urban Transport Policy. Ministry of Urban Development. Govt. of India. New Delhi.
7. ThamizhArasan, V. (2004). Transportation Systems Planning and Operation. Allied Publishers Pvt. Ltd. Chennai
8. Kanda, A et. al. (2002). Transportation Systems: Status and Directions. Phoenix Publishing House Pvt. Ltd. New Delhi
9. Sigurd. G, (2002). Urban Transportation Systems–Choices for Communities. McGraw Hill. USA.
10. Tiwari. G, (2002). Urban Transport for Growing Cities – High Capacity Bus System. Mac Millan India Ltd. New Delhi.

Recommended Journals

1. International Journal of Sustainable Transport
2. Transport Planning and Technology

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

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

Determinants of Visual landscape. Landscaping of Parks & Gardens: study and types of open spaces, parks and gardens. Philosophy & principles of Japanese, Italian & Mughal garden. Techniques & design considerations for gardens, recreational & leisure areas – parks, gardens, open spaces. Climate and Micro Climatic considerations in Landscape Design;

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.

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

Suggested Readings

1. Giovanni Maciocco, (2013). "Urban Landscape Perspectives". Springer Publishers. Berlin.
2. PradipKrishen, (2012). "Trees of Delhi". Dorling Kindersley India (Pvt.) Limited. New Delhi.
3. Nigel Dunnett, James Hitchmough (2011). "The Dynamic Landscape: Design, Ecology and Management of Naturalistic Urban Planting". Taylor and Francis. U.K.
4. MenonSubhadra, (2004). "Trees of India". Timeless book. New Delhi.
5. Chattar Singh, Rajnish Wattas. (2000). "Trees of Chandigarh". B.R. Publishing. Delhi.
6. Marc Treib, (1993). "Modern Landscape Architecture: A Critical Review". MIT Press. Cambridge.
7. Clouston Brian, (1990). "Landscape Design with Plants". HienemamNewnes. Oxford.
8. James Root, B. (1985). "Fundamentals of Landscape and Site Planning". Avi Publishing Company. West Port Connecticut.
9. Simonds, J.O. (1983). "Landscape Architecture". McGraw Hill book Company (Inc.). New York.
10. Mitchell Bring, JooseWayembegh. (1981). "Japanese Gardens – Design and Meaning" McGraw Hill Book Company. New York.
11. Michael Laurie, (1975). "An Introduction to Landscape Architecture". American Elsevier Publishing Company Inc. New York.
12. Cliff Tandy, (1974). "Handbook of Urban Landscape". Watson Guptill Publications. New York.

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

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.

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

Suggested Readings:

1. Paul D Sperigen, (2011). "Urban Design: The Architecture of Towns & Cities". McGrawHill. New York
2. HelonMeller, Pattrick Geddes (2009). "Social Evolutionist and City Planner". Routledge .London.
3. Edmund N Bacon, (2007). "Design of Cities". Thames and Hudson. London.
4. Broadbent, G. (2004). "Emerging Concepts in Urban Space Design". Van Nostrand Reinhold London.
5. Kevin Lynch, (1982). "Good City Form". MIT Press, Cambridge, Massachusetts.
6. Rob Krier, (1979). "Urban Space". Academy Editions, London.
7. Lewis Mumford, (1961). "The City in History". Secker and Warburg, London.
8. Kevin Lynch, (1960). "The image of the City". MIT Press, Cambridge. Massachusetts and London.

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 landuses, landuse 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 landuses 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

Interests, types of interests – freehold interests, lease hold interests, form of lease. Speculation in urban land, betterment and worsenment. Urban land policy – objectives and measures of urban land policy. Instrument for implementing urban land policy. Direct Government action, legal and physical controls.

Suggested Readings:

1. Arnott, Richard J, and Daniel P. McMillen (Ed.) (2008). "A companion to Urban Economics", Blackwell Publishing, U.K.
2. McDonald, John and Daniel McMillen (2006). "Urban Economics and Real Estate : Theory and Policy", Blackwell Publishing, U.K.

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

3. Ratcliffe, John, Michael Stubbs and Mark Shepherd (2001). "Urban Planning and Real Estate Development (Natural and Built Environment)", Spon Press, New York.
 4. Ralich, Darloden (1992). "Land Economics", Michigan Publishers, New York.
 5. Alan, E.W. (1985). "Urban Economics – An Introduction", Blackwell Publication, New York.
 6. Lean, W (1982). "Aspects of Land Use Planning", Gonthic Publications, New Jersey.
 7. Raleigh, Barlowe (1980). "Land Resource Economics", Prentice Hall Publication, New Jersey.
 8. Paul, B. N. (1977). "Urban Land Economics", The McMillan Press, London.
- Report of the Committee of Urban Land Policy (1965). Ministry of Health, Govt. of India

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:

- 1 Nagarajana, K. (2014). “Project Management”. Green Publishing House. New Delhi.
- 2 Prasanna Chandra, (2011). “Projects Planning, Analysis, Financing, implementation and Review”. Sage Publishers. New Delhi.

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

- 3 HarodKerzner, (2009). "Project Management- A System Approach to Planning, Scheduling and Control". John Wile & Sons. USA
- 4 Shaghil M. & Mushtaqu, M. (1993). "Project Formulation Concept & Approach". Printwell. Jaipur
- 5 Shaghil M. & Mushtaqu, M. (1993). "Project Planning Management". Vol I, II, II, Printwell, Jaipur
- 6 B.B. Goel, (1987). "Project Management: a development perspective". Deep and Deep Publications. New Delhi.

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 – 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.

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

Suggested Readings:

- 1 Kumar, Ranjit, (2005). Research Methodology – An Introduction, Pearsons Education, Baba BalakNath Printers, New Delhi.
- 2 Crotty, Michael, (2003). The Foundations of Social Research: Meaning and Perspective in the Research, Sage Publishers, London.
- 3 Gomm, Roger, (2003). Social Research Methodology: A Critical Introduction, Palgrave Macmillan, Manchester
- 4 T.S. Wilkiinson and P.L.Bhandarkar, (1984). Methodology and Techniques of Social Research, Himalaya Publishers, New Delhi.
- 5 Goode, W.J. and Hatt P. K, (1982). Methods in Social Research, McGraw-Hill Inc., New York
- 6 Keeble, Lewis, (1972). Principles & Practice of Town & Country Planning, Estates Gazette London
- 7 Gopal, M.H, (1970). An Introduction to Research Procedures in Social Sciences, ASIAN Publication House, Delhi.
8. Gibbs, Jack P. (1960). Urban research Methods, D Van Nosttrand Co Inc. New York

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:

- 1 Kerzner Harold, (2006). Project Management- A System Approach to Planning, Scheduling and Control, John Wile & Sons, USA.
- 2 JNNRUM Guidelines (2005). Ministry of Urban Development & Poverty Alleviation, Govt. of India, New Delhi.
- 3 Chandra, P. (2002). Projects Planning, Analysis, Financing, Implementation and Review, Sage Publishers, New Delhi.

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

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

1. Ministry of Urban Affairs and Employment, (2014). URDPFI Guidelines, Government of India, New Delhi.
2. Rafael Cuesta, Christine Sarris, Paola Signoretta, J.C Moughtin. (2012). Urban Design: Methods & Techniques. Routledge, New York
3. Rangwala, S. C, (2005). Town Planning, Charotar Publication House, Anand.
4. Majid Hussein, (2002). Fundamentals of Physical Geography, Second Edition, Rawat Publications, New Delhi.
5. Partap Rao, (1985). Urban Theory and Practice, CBS Publication and Distributors, New Delhi.

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

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.

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

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:

- 1) Dr. Nath V, (2010). “Urban Development and Metropolitan Cities in India”, Concept Publishing Company, New Delhi
- 2) Aggarwal, S.K. (2007). “Urbanization, Urban Development & Metropolitan Cities in India”, Concept Publishing Company, New Delhi.
- 3) Sandhu, Ranvinder, (2006). “Urbanization in India – A Sociological Approach”, Sage Publication, New Delhi

Master of Planning (M. Plan) (Urban) (Semester-III) 2019-20

(Credit-Based Evaluation and Grading System)

- 4) Ramachandran, R, (2000). “Urbanization and Urban System in India”, Oxford University Press, U.K.
- 5) Charles, M. Christiane and Robert Harper, (1992). “Modern Metropolitan System”, Charles E Merrill Publish Co., U.S.A.
- 6) Rao, M Partap Rao, (1990).“Planning for Metropolitan Cities – A Suggestive Approach”, Concept, Delhi.
- 7) Johan, W Dickey, (1985). “Metropolitan Transportation on Planning”, McGraw Hill Book Co., New Delhi.

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 for a Settlement, Environment Protection Act 1986.

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.

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

2. Sounier, Richard E. and Richard A. Meganch, (2009). Dictionary and Introduction to Global Environment and Governance, Earthscan, London.
3. Centre for Science & Environment (2006). State of India's Environment – A Citizen Report, CSE, New Delhi.
4. NathansenPe Jerry A, (2000). Basic Environment Technologies, Prentice Hall.
5. Sinha, Subroto, (2000). Regional Environment Plans – Issues and Approaches, TERI, New Delhi.
6. Pachauri, R. K, (1999). Looking Back to Think Ahead, TERI New Delhi.
7. Mohan, I, (1989). Environment Awareness & Urban Development, Ashish Publication House, New Delhi.

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

GUD 681: THESIS

Credits: 10(L=0, T=4, U=12)
Max. Marks: 100

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.

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

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:

1. Pardeep Sachdeva, (2011). Local Government in India. Delhi: Pearson.
2. Jain, A.K. (2010). Urban Planning and Governance. New Delhi: Book well India.
3. Surya Narain Yadav and Indu Baghel, (2009). Good Governance: Issues, Challenges and Prospects. New Delhi: Global vision publishing house.
4. Rashmi Sharma, (2009). Local Government in India: Policy and Practice. Delhi: Salasar Imaging Systems

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

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

Suggested Readings:

1. Kath Wellman and Marcus Spiller, [ed.]. (2012). Urban Infrastructure: Finance and Management. United Kingdom: Wiley Blackwell.
2. Pardeep Sachdeva, (2011). Local Government in India. Delhi: Pearson.
- 4 3. Jain, A.K. (2010). Urban Planning and Governance. New Delhi: Bookwell India
- 5 Surya Narain Yadav, Indu Baghel, (2009). Good Governance: Issues, Challenges and Prospects. New Delhi: Global vision publishing house.
- 5 Rashmi Sharma, (2009). Local Government in India: Policy and Practice. Delhi: Salasar Imaging Systems.
6. Chhikara, R.S. [ed.] (2009). Governance - problems, prospects and perspectives. Gurgaon: Hope India Publications.
7. George E. Peterson and Ptrocoa Clarke Annez, [ed.] (2007). Financing Cities. New Delhi: Sage Publications.
8. Rao, P.S.N. [ed.] (2006). Urban Governance and Management. New Delhi: Kanishka Publishers.
9. Jo Beall, (2005). Funding Local Governance. Great Britain: ITDG publishing.
10. Bibek Debroy, [ed.] (2004). Governance. New Delhi: Academic Foundation. 11. 2003. H.L. Bhatia, Public Finance. New Delhi: Vikas Publishing House Pvt

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

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

Initiation of Private Sector in Spatial Planning Process: Appointment of Consultants, contractors and developers. Professional Practice in Private Sector – Need of private sector involvement and types of private sector participants; Professional Practice in the joint Sector – Models of PPP and case studies of joint ventures; Legal Backing for residential developments in Punjab. Registration, Licensing, consultancy office; Organization composition and structure; Management skills.

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.

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

Suggested Readings:

1. Ministry of Urban Affairs & Employment (G.O.I.) (2014). "Urban & Regional Development Plans Formulation and Implementation Guidelines", ITPI, New Delhi.
2. Kulshrestha, S.K. (2012). "Urban and Regional Planning in India". SAGE Publication. New Delhi
3. Chawla, B.S. (2009). "Punjab Urban Development Acts and Rules". Chawla Publication (P) Ltd. Chandigarh.
4. American institute of certified planners (2005). "Code of ethics and professional conduct", www.planning.org/etics/ethicscode.htm
5. Institute of town planners, (2003). "India. Memorandum, articles of association and byelaws". New Delhi
6. Shahgill, M. and Mushtaque, M. (1993). "Project Management: Concept and Approaches". Printwel. Jaipur.
7. Pandey, J.N. (1982). "Constitutional Laws of India". Central Law Agency., Allahabad.

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

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.

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

Suggested Readings

- 1 Arnstein.A, (1969). Ladder of citizen participation. Journal of the American Institute of Planners, 25, 216-224.
- 2 Depoe, S.P, John W, Delicath, W, Elsenbeer, M.A (eds), (2004). Communication and Public Participation in environmental decision making (Albany, NY: State University of New York Press, 2004).
- 3 Cox, R, (2006). Environmental Communication and the Public Sphere. Sage
- 4 Fiorino, D.J, (1990). Citizen participation and environmental risk: A survey of institutional mechanisms.
- 5 Green, G.P, Haines, A, (2015). Asset Building and Community Development, Sage Publications
- 6 James L .Creighton, J.L, (2005). The Public Participation Handbook, Josey Bass
- 7 Robinson, J.R, (2011). Introduction to Community Development: Theory, Practice and Service Learning, Sage Publications Ltd.
- 8 Sanoff, J.H, (2000). Community Participation Methods in Design and Planning: Wiley & Sons, New York

Journals

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

http://www.nonformality.org/wp-content/uploads/2012/11/Participation_Models_20121118.pdf

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

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

Types of Tourism: Heritage and cultural, Spiritual and Religious, Business, Medical and Health, Sports, Eco-tourism, slum, indigenous, wild life, rural. Tourism infrastructure at spot and city level. Considerations for planning tourist spaces/ locations. Sustainable tourism and its components.

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 Uttarakhand, Coastal tourism, Kerala, North-east tourist circuit.

Suggested Readings:

1. Yang,L. (2014). Ethnic tourism planning, Ashgate, Surrey.
2. Mason,P. (2008). Tourism Impacts planning and management, Butterworth, Heinemann.
3. Dixit,M. (2007), Tourism, Royal Publishers, Delhi.

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

4. Gupta,S.P,Bhattacharya,K. (2002). Cultural tourism in india, DK printers, Delhi
5. Pearce,D.G. and Butler, B. (1999). Contemporary issues in tourism development,Routledge, London.
6. PageS.JandHall,C.M. (1998). The geography of tourism and recreation, Routledge, London.
7. Oki,M, (1998). Fairs and festivals, World friendship association, Tokyo.

Journals

1. South AsianJl of Tourism & Heritage.

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

GUL 688: PLANNING FOR DISASTER MANAGEMENT (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

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

Roles and responsibilities of international organizations, disaster management legislation and policy framework (United Nation International Strategy for Disaster Risk Reduction (UNISDR), International Search and Rescue Advisory Group, (INSARAG), Global Facility for Disaster Risk Reduction (GFDRR), Asean Region Forum (ARF), Asian Disaster Reduction Centre (ADRC), SAARC Disasters Management Centre (SDMC). Hygo Framework of Action, Best practices/case studies in natural and manmade disaster management.

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

Suggested Readings:

- 1 Rasik, R and Sinha, R, (2013). Earth system processes and disaster management, Springer, New York.
- 2 Singh, T, (2006). Disaster Management Approaches and Strategies, Akanksha Publication House, New Delhi
- 3 Edwards. B, (2005). Natural hazards, Cambridge University press, U.K.
- 4 Sharma, R.K and G. Sharma, G, (2005). (eds) Natural disasters, APH Publishing, Delhi.
- 5 Bhandani, R.K. (2005). An overview on Natural & Manmade Disaster & their Reduction, CSIR, New Delhi.
- 6 NDMA, (2005). National Disaster Act, 2005.
7. Singh, S, (2003). Disaster Management in Hills, Concept publication Co., New Delhi.
8. Goel, S.L, and Kumar, R. (2001), Disaster Management, Deep and Deep Publications, New Delhi
9. Gupta, M.C, (2001). Manuals on Natural Disaster Management in India, National center for Disaster Management, IIPM, New Delhi.