

M Plan in Urban Planning

SCHEME OF STUDY (wef July 2021)

First semester:

Course No.	Subjects	Scheme of studies period per week			Total Credits
		L	T	P	
UP 511	Planning Studio - I	2	--	6	5
MTH 512	Quantitative Methods	3	--	--	3
UP 512	Urban Economics and Sociology	3	--	--	3
UP 513	Planning Theory, Practices and Demography	3	--	--	3
UP 514	Planning Techniques	3	--	--	3
HUM 511	Communication Skills	2	--	--	2
	Elective-I (A)	3	--	--	3
	Elective-II (B)	3	--	--	3
UP 515	Seminar-I	--	--	2	1
Total hours: 30 Total Credits: 26		Total Semester Credits			26

Second semester:

Course No.	Subjects	Scheme of studies period per week			Total Credits
		L	T	P	
UP 521	Planning Studio-II	2	--	6	5
UP 522	City and Metropolitan Planning	3	--	--	3
UP 523	Infrastructure Planning	3	--	--	3
UP 524	Traffic and Transportation Planning	3	--	--	3
	Elective-III (A)	3	--	--	3
	Elective-IV (A)	3	--	--	3
	Elective-V (C)	3	--	--	3
ARP 524	Research Methodology	1	1	--	2
UP 525	Seminar-2	--	--	2	1
Total hours: 30 Total Credits: 52		Total Semester Credits			26

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Third Semester:

Course No.	Subjects	Scheme of studies periods per week			Total Credits
		L	T	P	
UP 611	Dissertation Phase -I	4		16	12
UP 612	Training	--	2	--	2
Total hours: 22 Total Credits: 66		Total Semester Credits			14

Fourth Semester:

Course No.	Subjects	Scheme of studies periods per week			Total Credits
		L	T	P	
UP 621	Dissertation Phase -II	4	--	20	14
Total hours: 24 Total Credits: 80		Total Semester Credits			14

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List of Program Electives A		List of Open Electives C	
UP551	Evolution of Urban Planning	BSE – 581	Bioprocess Engineering
UP552	Planning for Disaster Prone Areas	BSE – 582	Biophysics Tools and Techniques
UP553	Urban Management and Governance	CHE – 581	Analytical Techniques
UP554	Energy Efficient Planning	CHE – 582	Green Technology & Processes
UP555	Geo Informatics	CE – 581	Solid Waste Management
UP556	Application of Remote Sensing and GIS in Planning	CE – 582	Basic Concept of GIS
UP 557	Ecology and Resource Development	CE – 583	Road Safety
UP 558	Land-use and Transportation Planning	CSE – 581	Machine Learning
UP 559	Sustainable Planning Practices	CSE – 582	Advanced Data Structures and Algorithms
UP 560	Smart Practices in Planning	PHY – 581	Nanotechnology and Nanoscience
UP 561	Poverty and Development	EE – 581	Electric Machines & Applications
UP 562	Institutional Analysis and Governance	EE – 582	Control and Instrumentation
UP 563	Urban and Peri-Urban Area Planning	ECE – 581	Introduction to Fuzzy Logic
UP 564	Spatial Data Infrastructure (SDI)	ECE – 582	Neural Networks and its Applications
UP 565	Urban Conservation	EC - 581	Energy Resource Technologies
UP566	Rural Planning and Development	HUM – 581	Intellectual Property Rights for Engineers
		HUM – 582	Applied Psychology: Human Centered Design and Engineering
	List of Departmental Electives B	MTH – 581	Advanced Operations Research
HS 551	Real Estate Planning and Development	MTH – 582	Computing Technologies
HS 552	Environmental Planning	ME – 581	Value Engineering
HS 553	Inclusive Planning	ME – 582	Design Thinking
HS 554	Project Formulation and Appraisal	ME - 583	Mechatronics and NDT in Engineering
HS 555	Landscape Planning	MME – 581	Advanced Instrumentation Methods for Material Analysis
HS 556	Planning Legislation	MME – 582	Smart Materials and their Application
		MBA-581	Engineering Startup Management