

Master of Planning (Environmental Planning and Management)

Course Structure for Two Year Masters Degree Programme in Planning
(Effective from Academic Year 2014-15)

Introduction to Master of Planning (Environmental Planning and Management)

Master of Planning (Environmental Planning & Management), abbreviated as M.Plan (EPM), is a two year full time Masters degree programme in planning offered by School of Planning and Architecture, Vijayawada specialising in Environmental Planning and Management.

The overall aim of the programme is to rationally sensitise the students towards the intricate ecological relationship between nature and human settlements and thereby equip them with adequate skills required to comprehend, analyse and plan for urban and regional issues with the pretext of maintaining ecological balance. This broad aim intrinsically shall involve comprehension of physical, socio-economic, cultural, political and ecological dimensions of the human settlements. It shall focus particularly in recording and interpreting environmental resource baseline and their local and regional capacities to deal with human needs.

The course structure and syllabus of the M.Plan (EPM) programme is designed in coherence with the *Model Curriculum for M.Plan / M.Tech (Planning), All India Council for Technical Education, 2011*. M.Plan (EPM) programme is divided into four semesters where each semester has a combination of planning studio, lab-based subjects and theory courses.

The **first semester** is an integrated semester common to all master courses of planning offered by the School. It introduces the fundamentals aspects of planning, such as planning techniques, housing, environment, infrastructure, transportation, socio-economic elements and information systems for planning. The studio focuses on the area appreciation and mapping techniques. The **second semester** is aimed to inculcate the core specialised competencies of environmental planning in terms of theories and tools like use of environmental monitoring lab, theory of environmental planning, ecological footprint analysis, environmental economics, waste water treatment, planning for healthy cities, etc. The studio aims to take up a small or medium town with development challenges and local/urban environmental issues. It offers two electives, out of which students are expected to select one.

The **third semester** focuses on regional environmental planning issues and imparts advanced level theory courses like EIA techniques, energy studies, and environmental law and professional practise. This semester also introduces project planning and management tools and focusses on waste management and climate change as electives. The students are expected to develop their thesis ideas in the semester through the advanced research methodology course. The **fourth semester** requires the student to undertake thesis/terminal project with an emphasis on academic or applied research. In addition, two theory subjects are offered on environmental justice, and environmental policy and governance.

Each subject is divided into four sections consisting of the subject details, objective, units and suggested readings. The subject syllabus is broken into progressive sections

through the units, to be taught over the semester. However, it may be noted that the syllabus covered is not exhaustive and the individual subject teacher may augment the syllabus as per his/her perception of the subject with prior concurrence of the Head of the Department. The five underlying principles of 'Sustainability, Equity, Efficiency, Harmony, and Safety' are to be emphasized as a cross-cutting theme in executing planning lab/studio exercises and application of theory subjects.

The syllabus is designed so as to develop strong communication, interpersonal, advocacy and analytical skills of the student. The course endeavours to give real time experience to students through their involvement in the ongoing or live projects. The programme is designed to enable the growth of the students into professionals in the field, who are not only environmentally sensitive in their planning approaches but are versed with the know-how of the state-of-the-art techniques in the industry.

First Semester (Integrated)

Code	Course Titles	Distribution of Marks				Distribution of Periods per week			Credits
		IA	EE	EJ	TM	L	P	TP	
MPIS102	Introduction to Information Systems	50	-	50	100	0	3	3	3
MPIS103	Evolution of Human Settlements and Planning	50	50	-	100	3	0	3	3
MPIS104	Planning Techniques and Quantitative Methods	50	50	-	100	3	0	3	3
MPIS105	Habitat and Environmental Planning	50	50	-	100	3	0	3	3
MPIS106	Infrastructure Planning	50	50	-	100	3	0	3	3
MPIS107	Socio-Economic Dimensions in Planning	50	50	-	100	3	0	3	3
MPIS101	Area Planning Studio	200	-	200	400	0	12	12	12

TOTAL 500 250 250 1000 15 15 30 30

Second Semester

Code	Course Title	Distribution of Marks				Distribution of Periods per week			Credits
		IA	EE	EJ	TM	L	P	TP	
MPEP202	Applications of Geoinformatics	50	-	50	100	0	3	3	3
MPEP203	Environmental Monitoring & Assessment Tools	50	-	50	100	0	3	3	3
MPEP204	Theory of Environmental Planning & Design	50	50	-	100	3	0	3	3
MPEP205	Environmental Economics	50	50	-	100	3	0	3	3
MPEP206	Infrastructure for Environmental Planning & Management	50	50	-	100	3	0	3	3
MPEP201	Urban Environmental Planning Studio	200	-	200	400	0	12	12	12
ANY ONE									
MPEP211	Elective 1: Ecological Footprints Analysis	50	50	-	100	3	0	3	3
MPEP212	Elective 2: Advanced Water and Wastewater Treatment	50	50	-	100	3	0	3	3
MPEP213	Elective 3: Planning for Healthy Cities	50	50	-	100	3	0	3	3
MPEP214	Elective 4: From other Master	50	50	-	100	3	0	3	3

programmes
(same semester)

TOTAL	500	200	300	1000	12	18	30	30
IA = Internal Assessment Evaluation		EJ = External Jury / Viva Voce		EE = End				
TM = Total Marks Periods				L = Lecture				
P = Practicals/ Lab/Workshop Periods				TP = Total Periods				

MPIS104 is to be read as:

MP = M.Planning; IS = Integrated Sem; 1 (1st digit) = 1st Sem; 0 (2nd digit) = Subject; 4 (3rd digit) = 4th Subject.

MPEP212 is to be read as:

MP = M.Planning; EP = Environmental Planning; 2 (1st digit) = 2nd Sem; 1 (2nd digit) = Elective Subject; 2 (3rd digit) = 2nd Elective Subject.

Note: Compulsory summer professional training / internship (four weeks) after second semester

Third Semester

Code	Subject Title	Distribution of Marks				Distribution of Periods per week			Credits
		IA	EE	EJ	TM	L	P	TP	
MPEP302	Advanced Research Methods	50	-	50	100	0	3	3	3
MPEP303	Environmental Law & Professional Practice	50	50	-	100	3	0	3	3
MPEP304	Environmental Impact Assessment Techniques	50	50	-	100	3	0	3	3
MPEP305	Project Planning & Management	50	50	-	100	3	0	3	3
MPEP306	Energy Studies	50	50	-	100	3	0	3	3
MPEP301	Regional Environmental	200	-	200	400	0	12	12	12

	Planning Studio								
ANY ONE									
MPEP311	Elective 1: Human Settlements and Climate Change	50	50	-	100	3	0	3	3
MPEP312	Elective 2: Waste Management	50	50	-	100	3	0	3	3
MPEP313	Elective 3: From other Master programmes (same semester)	50	50	-	100	3	0	3	3
TOTAL	500	250	250	1000	15	15	30	30	

Fourth Semester

Code	Subject Title	Distribution of Marks				Distribution of Periods per week			Credits
		IA	EE	EJ	TM	L	P	TP	
MPEP402	Environmental Justice	50	50	-	100	3	0	3	3
MPEP403	Environmental Policy and Governance	50	50	-	100	3	0	3	3
MPEP401	Environmental Planning Thesis	400	-	400	800	0	24	24	24
TOTAL	500	100	400	1000	6	24	30	30	

IA = Internal Assessment EE = End Evaluation EJ = External Jury / Viva Voce

TM = Total Marks L = Lecture Periods

P = Practicals/ Lab/Workshop Periods TP = Total Periods

MPEP302 be read as:

MP = M.Planning; EP = Environmental Planning; 3 (1st digit) = 3rd Sem; 0 (2nd digit) = Subject; 2 (3rd digit) = 2nd Subject.

Note: Credits for each subject are the same as the number of lecture /practical hours per week, whichever is higher.