



MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY BATHINDA-151001 (PUNJAB), INDIA

(A State University Estb. by Govt. of Punjab vide Punjab Act No. 5 of 2015 and Approved u/s 2(f) & 12 (B) of UGC; Member AIU)

Department: **G.Z.S. SCHOOL OF ARCHITECTURE & PLANNING, MRSPTU**

Program: **M.Planning**

COURSE ARTICULATION MATRIX (STUDY SCHEME: 2016)

Subject	S Code	Semester	Credit	Duration (Hrs)	LP	COs	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4			
Planning History and Theory	MARPL1-101	1	3	48		CO1	Understanding the planning process, theory and practice and its role in planning of cities.	1	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0		
						CO2	Appreciate of the role of historical developments in planning and its evolution and trace these influences to the current situation.	0	0	0	0	0	0	0	0	0	2	2	0	0	1	0	0	0	0	2
						CO3	Developing the capacity to understand multiple often conflicting factors to be balanced in planning for an urban area	2	0	0	0	0	0	0	0	0	0	2	3	0	0	3	0	0	3	0

						Identifying the key paradigms that define urban planning theory	3	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	1
Socio-economic basis for Planning	MARPL1-102	1	3	48	3 0	CO1	Understanding the relationship between sociology & urban planning	1	0	0	0	0	0	0	2	0	0	0	0	2	0	2	0
						CO2	Developing an insight in to social, geographical, biological & economic factors that shapes the urban environment	2	0	0	0	0	0	0	1	0	3	0	0	1	3	2	0
						CO3	Developing the relevance to Socio-economic Issues in Urban and Regional Planning	1	0	0	0	0	0	0	0	0	2	0	0	0	0	2	1
						CO4	Studying and analyzing the approaches to valuation & public finance	-	0	0	0	0	0	0	0	2	0	1	0	3	0	0	1
Planning Techniques	MARPL1-103	1	3	48	3 0	CO1	Understanding the techniques to prepare base maps , classify & delineate region	1	2	0	0	3	0	0	0	0	0	2	1	2	0	0	
						CO2	Understanding the necessary information on town planning theories, principles, techniques & methodologies.	2	0	0	0	0	0	1	1	0	0	0	2	0	0	1	
						CO3	Knowing the Spatial standards, URDPFI guidelines, zoning regulations & development control rules & regulations.	2	0	1	0	0	2	0	0	0	0	1	1	0	2	0	
						CO4	Understanding the various dimensions of urban planning in past.	2	0	0	0	0	0	1	1	0	0	0	1	0	0	2	
Infrastructure and Transport Planning	MARPL1-104	1	3	48	3 0	CO1	The student shall be able to understand the specific techniques of analysis & evaluation for urban transportation planning	1	0	0	0	0	0	0	2	0	0	2	1	2	0	0	

						A comprehensive understanding of the concepts, techniques, methods used by an urban planner to treat spatially cities. by preparing urban land use models using GIS	0	2	2	0	3	0	0	0	0	0	0	2	2	0	0			
						CO3 Knowing to prepare urban land use models using GIS	0	0	2	0	3	0	0	0	0	0	0	0	3	0	1			
						CO4 Knowing the usage of various modern tools/software's of urban planning in preparation of development plans.	0	1	0	0	3	0	0	0	0	0	1	0	2	1	1			
Planning Studio	MARPL1-107	1	8	192	0 12	CO1 Critically analyzing relevant literature and field conditions	2	1	0	0	0	0	0	0	0	0	0	2	1	0	3	0		
						CO2 Applying planning techniques and prepare of plans at layout/zone/part of settlement level	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	2	1	0
						CO3 Developing capacity to understand complex and interrelated factors to be considered in spatial planning	0	0	0	0	0	0	0	1	2	1	0	0	1	0	0	0	0	2
						CO4 Developing planning insight and make acquaintance with various planning related exercises, such as, Layout Planning, Neighborhood Planning, Urban Renewal / Redevelopment, etc.	0	0	1	0	2	0	0	0	1	2	0	0	1	0	1	0	1	2
City and Metropolitan planning	MARPL1-201	2	3	48		CO1 Gaining understanding of the city-region linkages and inter-dependency between city and region.	3	0	2	0	0	1	0	0	0	0	0	2	0	0	0			

						Getting familiar with acts and legal tools relevant to city planning.	1	0	1	0	0	2	0	0	0	0	0	0	1	0	3	0
						CO 3 Understanding the complex nature of environmental issues and development processes specifically at metro and mega cities scale.	1	0	1	0	0	0	2	0	0	0	0	0	0	0	0	1
						CO4 Becoming capable of working for societal development addressing fulfillment of needs of all, improving the quality of life of residents.	1	0	1	0	0	0	0	3	0	0	0	0	0	0	0	2
Infrastructure Planning	MARPL1-202	2	3	48	3 0	CO1 Students will learn to address urban infrastructure challenges.	2	0	3	0	0	0	0	0	0	0	0	1	1	1	0	2
						CO2 Students will be able to do short and long range planning for alternative infrastructure systems while designing for present and future cities and regions	0	0	2	0	0	0	1	0	0	0	0	2	1	0	1	1
						CO 3 Students will have an understanding of the infrastructure network like water supply, roads, sewer, solid waste and street lighting to enable them to evolve spatial strategy for cities and towns	1	0	2	0	0	0	1	0	0	0	0	0	1	0	0	1
						CO4 Students will learn to identify the gaps and requirements of the infrastructure in a particular city/town and will come out with a way outs to give proper infrastructure in each and every society.	1	0	3	0	0	0	1	0	0	0	0	1	0	2	2	0

		2	10	240		Analyzing components such as physical characteristics, natural resources, demographic characteristics, economic base, employment, shelter, transportation, social & infrastructure facilities, finance, institutional set-up, regional interdependencies etc	1	3	1	0	0	0	0	0	0	0	0	0	0	1	2				
					CO2	Caring out surveys and frame proposals	0	0	0	0	0	0	0	0	1	2	0	0	1	0	0	1			
					CO3	Understanding local problems through planning surveys	0	0	0	1	0	0	2	1	0	0	0	1	1	0	2	0			
					CO4	Understanding of spatial and non-spatial data collection, presentation and interpretation in context for physical planning.	0	2	2	0	2	0	0	0	0	0	0	0	2	1	1	0			
Planning for Tourism	MARPL1-207	2	3	48	3 0	CO1	Students will be able to understand the strategies to develop an infrastructure development plan for tourist.	1	0	2	0	0	0	0	0	0	0	0	1	0	1	2	0		
						CO2	Students will be able to mark the tourist spots which are less identified and can increase the flow tourist flow	0	0	1	0	0	0	2	0	0	2	0	0	2	0	0	0	0	2
						CO3	Can developed more tourist infrastructure related strategies.	1	0	0	0	0	0	1	0	0	2	0	0	1	0	1	0	1	1
						CO4	Students will identify the abundant heritage sites and will revive the site and will always try to develop the tourist inflow over the site.	1	0	2	0	0	0	1	0	0	0	0	0	1	2	2	1	1	0

						Understanding the process of developing any land project; from demand, development and management.	0	0	3	0	0	1	0	0	0	0	1	0	2	0	0	0		
		3	3	48		CO2	Gaining knowledge of the finances involved and fiscal management of land development.	0	0	0	0	0	1	0	0	0	0	2	0	0	0	1	0	
						CO3	Understanding the Legislative regulations relating to development of land.	0	0	1	0	0	2	0	0	0	0	0	0	0	0	3	0	
						CO4	Ability to gain knowledge of Environment responsive processes for developing the projects.	0	0	0	0	0	1	2	0	0	0	0	0	2	0	0	1	
Project Planning and Management	MARPL1-302	2	3	48	3 0	CO1	Understanding the working involved in formulating, appraising and managing the planning project.	0	0	0	3	0	0	0	0	2	0	2	0	2	0	0	0	
						CO2	Ability to understand the process of evaluating the project, checking its feasibility in context of all inputs used.	0	0	0	2	0	0	0	0	0	1	2	0	0	0	0	2	0
						CO3	Developing the capability of grasping of the main issues arising in the planning process and creative strategies for implementation.	0	0	0	0	0	0	0	0	2	0	1	0	2	0	0	0	0
						CO4	Understanding the relationship between Projects and governing fiscal planning at various Levels.	0	0	0	0	0	0	0	0	0	1	2	0	1	0	0	0	2

						Understanding the practical aspects of planning processes, and the political, institutional and legal systems that direct and/or inform planning	1	0	0	0	0	3	0	0	0	1	0	0	1	0	2	0	
					CO2	Creating awareness about the critical laws used in India and their salient features.	0	0	0	0	0	3	0	2	0	0	1	0	1	0	2	1	
		3	3	48	CO3	Making the students aware of the governance mechanisms involved in development planning, administration and management.	0	0	0	0	0	2	0	0	1	0	1	0	0	0	2	1	
					CO4	Understanding the structure of local bodies and the role of an individual and of a team in the whole process of development.	0	0	0	0	0	0	0	2	1	1	1	0	1	0	2	0	
Politics and Planning		3	3	48	CO1	Understanding the relation between politics and planning	1	0	0	0		1	0	1	0	0	1	0	1	0	1	0	
					CO2	Developing the capacity for resource optimization	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	1
					CO3	Developing a comprehension of the interplay of politics in the planning process	1	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1	1

						Understanding the social, economic, and cultural contexts of Politics and Planning and its influence on development/ provision/ financial/ management of resources and other basic infrastructure	2	0	1	0	0	0	0	0	0	1	0	1	0	0	0	1	1					
Urban Planning Studio - II-Geo-Informatics – II	MARPL1-305	3	10	240	0 15	CO1	Understanding of geo-informatics and its applications in planning of cities	0	0	1	2	3	0	0	0	0	0	0	0	0	1	2	0	1				
						CO2	Ability to appreciate the role of historical developments in the field of geo-informatics	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	
						CO 3	Developing capacity to understand how studies can be done using GIS	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
						CO4	Using the various modern software’s for the preparation of development plans.	1	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1
Urban Planning Studio - II-Management and Governance Plan	MARPL1-305A	3	10	240	0 15	CO1	Understanding the phasing, funding and implementation mechanism.	0	0	3	1	0	0	0	0	0	1	2	0	0	1	0	3	0				
						CO2	Preparing DPR covering Physical, Environmental aspects, sequence of tasks, Cost Estimates, Project Benefits etc.	1	2	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	2	1	
						CO 3	Developing capacity to analyze issues and evolve solutions at urban level	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	1

						Understanding mitigation strategy of climate change.	0	1	0	0	0	0	1	0	0	0	0	1	1	0	2	1			
Review of Six Weeks Mandatory Training during Summer Vacation	MARPL1-308	3	3	48	3 0	CO1	Participating in practical activities related with various aspects / domains of Urban and Regional Planning.	1	1	0	0	0	0	0	3	0	0	0	0	1	0	0	2		
						CO2	Obtain practical field experience / exposure	0	0	0	3	0	0	0	1	0	0	0	0	0	1	0	0	0	1
						CO3	Understanding the functioning of urban local bodies	0	0	0	0	0	0	2	1	0	0	0	0	0	2	0	0	0	1
						CO4	Learning the current practices and able to use it in their professional self design.	2	0	0	0	2	0	1	1	0	0	0	0	0	2	0	1	1	
Development Finance	MARPL1-401	4	3	48	3 0	CO1	Gaining ability to explore efforts to regulate the finances involved in delivery of services in planned units	0	0	2	0	0	1	0	0	0	0	3	0	1	0	2	0		
						CO2	Understanding the governance structure and financial background of the various planning bodies and tools to strengthen them.	0	0	1	0	0	2	0	0	0	0	2	0	1	0	2	1		
						CO3	Gaining understanding of Municipal Finances and Investment Planning.	0	0	1	0	0	2	0	0	0	0	3	0	0	0	1	0		
						CO4	Knowledge to understand the flow of finances from Central to State Governments for any planning project.	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	1	

						Developing ability to demonstrate knowledge of how planning intentions are implemented through policies, instruments and controls.	0	0	0	0	0	3	0	0	1	0	1	2	2	0	2	0		
		4	3	48		CO2 Applying awareness of the importance of evidence and argument in preparing planning proposals for sustainable development.	0	0	0	0	0	2	0	1	0	0	2	0	1	0	0	2		
						CO3 Ability to propose planning solutions within the domain of various acts controls & legislations.	0	0	0	0	0	3	0	0	1	0	0	3	0	0	0	1		
						CO4 Capability to work for development addressing fulfillment of needs of all, improving the quality of life of residents.	0	0	0	0	0	0	0	2	0	0	1	1	0	0	0	0	2	
Thesis	MARPL1-403	4	16	384	0 24	CO1 Conceptualizing problems from complex, real-world situations so the problems are meaningful to the intended audience and research-worthy	0	0	0	0	0	0	0	0	2	1	0	2	1	0	3	1		
						CO2 Identifying and summarize appropriate peer-reviewed literature relevant to a proposed area of research	2	1	0	0	1	0	0	0	0	0	0	0	0	0	2	2	1	0
						CO3 Preparing constructive, tactful feedback to help colleagues improve their writing	0	1	0	2	1	0	0	0	0	0	0	0	0	0	0	1	0	1
						CO4 Using various techniques for effective data identification and collection through current practices.	0	0	2	0	0	0	0	0	0	0	2	0	3	2	0	0	0	1

Enter Correction levels 1, 2 or 3 as defined below:

1. Slight (Low) - upto 30%

2. Moderate (Medium) – above 30% and upto70%

3. Substantial (High) – above 70%