

Maulana Azad National Institute of Technology, Bhopal – 462003
DEPARTMENT OF ARCHITECTURE & PLANNING

SCHEME FOR B. PLAN
(Revised December 2020)

FIRST SEMESTER:

Course Number	Subject	Theory / Studio/ Lab Exam	Scheme of Studies Periods per week				Total Credits
			L	T	P	Project	
PLN 1101	Planning Project - I (Graphics and Presentation Techniques)	Viva	2	-	-	6	5
PLN 1102	Fundamentals of Urban & Regional Planning	Theory	3	-	-	-	3
PLN 1103	Fundamentals of Building Elements and Materials	Theory	3	-	-	-	3
PLN 1104	Evolution of Aesthetic, Culture and Technology	Theory	3	-	-	-	3
PLN 1105	Basic Design	Theory	2	-	2	-	3
PLN 1106	Technical Report Writing and Research Methodology	Viva	1	-	2	-	2
MTH 1107	Statistical and Quantitative Methods in Planning - I	Theory	2	1	-	-	3
SPR 1108	Sports/Digital India Program	-	-	-	2	-	1
Total Hours = 29			16	1	6	6	23
Total Credits (Cumulative)							23

Note: Compulsory study trip / tour in Planning Studio subject as a part of studio.

SECOND SEMESTER:

Course Number	Subject	Theory / Studio/ Lab Exam	Scheme of Studies Periods per week				Total Credits
			L	T	P	Project	
PLN 1201	Planning Project - II (Graphics and Presentation Techniques)	Viva	2	-	-	6	5
PLN 1202	Economics in Planning	Theory	3	-	-	-	3
PLN 1203	Specifications, Estimation and Valuation	Theory	2	-	2	-	3
PLN 1204	Techniques of Planning - I	Theory	1	2	-	-	3
CIV 1205 PLN	Surveying and Photogrammetry	Viva	1	2	-	-	3
CIV 1206 PLN	Applied Geology and Hydrology	Theory	1	-	2	-	2
MTH 1207	Statistical and Quantitative Methods in Planning - II	Theory	2	-	2	-	3
SPR 1208	Yoga / Swachh Bharat Abhiyan	-	-	-	2	-	1
Total Hours = 30			12	4	8	6	23
Total Credits (Cumulative)							46

Note: Compulsory study trip / tour in Planning Studio subject as a part of studio.

THIRD SEMESTER:

Course Number	Subject	Theory / Studio/ Lab Exam	Scheme of Studies Periods per week				Total Credits
			L	T	P	Project	
PLN 2101	Planning Project - III (Neighborhood and Site Planning)	Viva	2	-	-	6	5
PLN 2102	Planning Theory - I	Theory	3	-	-	-	3
PLN 2103	Settlement Geography	Theory	3	-	-	-	3
PLN 2104	Techniques of Planning - II	Theory	2	1	-	-	3
PLN 2105	Traffic and Transportation Planning - I	Theory	2	2	-	-	4
PLN 2106	Demography in Planning	Theory	3	-	-	-	3
PLN 2107	Computer Aided Design (CAD)	Viva	1	2	-	-	3
Total Hours = 27			16	5	-	6	24
Total Credits (Cumulative)							70

Note: Compulsory study trip / tour in Planning Studio subject as a part of studio.

FOURTH SEMESTER:

Course Number	Subject	Theory / Studio/ Lab Exam	Scheme of Studies Periods per week				Total Credits
			L	T	P	Project	
PLN 2201	Planning Project - IV (Transportation Planning)	Viva	2	-	-	6	5
PLN 2202	Planning Theory - II	Theory	3	-	-	-	3
PLN 2203	Planning Practice - I	Theory	3	-	-	-	3
PLN 2204	Traffic and Transportation Planning - II	Theory	2	1	-	-	3
PLN 2205	Ecology, Environment and Resource Management	Theory	3	1	-	-	4
PLN 2206	Settlement Sociology	Theory	3	-	-	-	3
PLN 2207	Housing and Community Planning	Theory	1	2	-	-	3
Total Hours = 27			17	4	-	6	24
Total Credits (Cumulative)							94

Note: Compulsory study trip / tour in Planning Studio subject as a part of studio.

FIFTH SEMESTER:

Course Number	Subject	Theory / Studio/ Lab Exam	Scheme of Studies Periods per week				Total Credits
			L	T	P	Project	
PLN 3101	Planning Project –V (Area Planning)	Viva	2	-	-	6	5
PLN 3102	Real Estate Planning and Management	Theory	3	-	-	-	3
PLN 3103	Planning and Management of Utilities and Services	Theory	3	-	-	-	3
PLN 3104	Planning Legislation	Theory	3	-	-	-	3
PLN 3105	Sustainable Urban Planning and Management	Theory	3	-	-	-	3
PLN 3106	Landscape Planning and Design	Viva	1	-	2	-	2
CIV 3107 PLN	Geo-Informatics for Planning	Theory	2	1	-	-	3
Total Hours = 26			17	1	2	6	22
Total Credits (Cumulative)							116

Note: Compulsory study trip / tour in Planning Studio subject as a part of studio.

SIXTH SEMESTER:

Course Number	Subject	Theory / Studio/ Lab Exam	Scheme of Studies Periods per week				Total Credits
			L	T	P	Project	
PLN 3201	Planning Project - VI (Development Plan)	Viva	2	-	-	6	5
PLN 3202	Regional Planning	Theory	3	-	-	-	3
PLN 3203	Project Formulation, Appraisal and Management	Theory	3	-	-	-	3
PLN 3204	Urban Design	Theory	3	-	-	-	3
PLN 3205	GIS for Planning	Viva	1	-	4	-	3
	Program Elective - 1 Group - A	Theory	3	-	-	-	3
	Departmental Elective Group - B	Theory	3	-	-	-	3
Total Hours = 28			18	-	4	6	23
Total Credits (Cumulative)							139

Note: Compulsory study trip / tour in Planning Studio subject as a part of studio.

SEVENTH SEMESTER:

Course Number	Subject	Theory / Studio/ Lab Exam	Scheme of Studies Periods per week				Total Credits
			L	T	P	Project	
PLN 4101	Planning Project – VII (Regional Plan)	Viva	2	-	-	6	5
PLN 4102	Urban and Rural Management	Theory	2	-	2	-	3
PLN 4103	Urban and Rural Governance	Theory	3	-	-	-	3
PLN 4104	Urban Finance	Theory	2	1	-	-	3
PLN 4105	Planning and Management of Informal Sector	Theory	2	1	-	-	3
PLN 4106	Training Review & Dissertation	Viva	1	-	2	-	2
	Open Elective Group - C	Theory	3	-	-	-	3
Total Hours = 27			15	2	4	6	22
Total Credits (Cumulative)							161

Note: Compulsory study trip / tour in Planning Studio subject as a part of studio.

EIGHTH SEMESTER:

Course Number	Subject	Theory / Studio/ Lab Exam	Scheme of Studies Periods per week				Total Credits
			L	T	P	Project	
PLN 4201	Planning Thesis	Viva	3	2	-	6	8
	Program Elective - 2 Group - A	Theory	2	-	2	-	3
	Program Elective - 3 Group - A	Theory	2	-	2	-	3
PLN 4202	General Proficiency	Viva	-	-	-	-	1
Total Hours = 21			7	2	6	6	15
Total Credits (Cumulative)							176

Note: Compulsory study trip / tour in Planning Studio subject as a part of studio.

List of Electives:

Programme Elective - 1	
PLN 301	Sustainable Development
PLN 302	Future Settlements
PLN 303	Metropolitan Planning, Development and Management
PLN 304	Contemporary Planning Practice
PLN 305	Rural Development and Management
PLN 306	Disaster Risk Mitigation and Management
PLN 307	Big Data in Urban Planning
PLN 308	Freight Transport and Logistics
PLN 309	Tourism Planning
PLN 310	Sustainable and Resilient Cities
PLN 311	Inclusive cities
PLN 312	Smart cities
PLN 313	Infrastructure Planning, Development and Management
PLN 314	Human Settlements and Climate change
PLN 315-320	
Programme Elective - 2	
PLN 321	Transport and Urban Development
PLN 322	Sustainable Mobility
PLN 323	Mobility and Equity
PLN 324	Social Impact Assessment
PLN 325	Eco Tourism Planning
PLN 326	Planning Practice- II
PLN 327	PPP in Urban Development
PLN 328	Planning for Small and Medium Towns
PLN 329	Planning for Mega Cities
PLN 330	Necropolis
PLN 331	Environment Impact Assessment
PLN 332	Urban Informatics
PLN 333	Public Policy Analysis
PLN 334	Waste management
PLN 335	Sociology and Transport Planning
PLN 336-340	
Programme Elective - 3	
PLN 341	Planning for Special Areas
PLN 342	Port Planning and Management
PLN 343	Airport Planning and Management
PLN 344	Railways Planning and Management
PLN 345	Environmental Design
PLN 346	Cities and Climate
PLN 347	City and Metropolitan Planning
PLN 348	Green Infrastructure

PLN 349	Movement Corridors
PLN 350	Planning of Historical Cities
PLN 351	Urban Ecological Footprint Analysis
PLN 352	Urban Waste Treatment and Recycle
PLN 353	Transport and Environment
PLN 354	Advanced Transportation Planning
PLN 355	Environment Impact Assessment
PLN 356-360	
Department Elective – Group - B (Elective - 1)	
ARC 301	Building codes and byelaws
ARC 302	Modern and Contemporary World Architecture
ARC 303	Modern and Contemporary Indian Architecture
ARC 304	Barrier free Architecture
ARC 305	Hill Architecture
ARC 306	Evolution of human settlements
ARC 307	Mass housing design and standards
ARC 308	Advanced theory of design
ARC 309	Ekistics
ARC 310	Appropriate technology
ARC 311	Architectural Pedagogy
ARC 312	Research Methodologies
ARC 313	Research Techniques in Architecture
ARC 314	Disaster management
ARC 315	Architectural Conservation
ARC 316	Environmental planning
ARC 317	Green building