

Maulana Azad National Institute of Technology, Bhopal – 462003

DEPARTMENT OF ARCHITECTURE & PLANNING

SCHEME FOR B. ARCH.

(2024 admitted batch onwards)

FIRST SEMESTER:

Course Code	Course Name	Theory/ Viva	Scheme of Studies Periods per week				Total Credits
			L	T	P	Studio	
ARC 24101	Architectural Design Project- 1	Theory (6 Hrs)	1	-	-	6	10
ARC 24102	Building Materials & Construction - 1	Theory	1	-	-	4	7
ARC 24103	Architectural Drawing - 1	Theory	2	-	4	-	4
ARC 24104	History of Art & Culture	Theory	1	-	2	-	2
ARC 24105	Environment & Ecology	Theory	2	-	-	-	2
ARC 24126	Computer Applications - 1	Viva	1	-	3	-	3
SAS 24141 / SAS 24142	Life Skill Management / Physical Health Education	-	-	-	2	-	1
Total Hours = 29			8	-	11	10	29
Total Credits (Cumulative)							29
Additional Subject: - National Cadet Corps (NCC)							
NCC 24151	National Cadet Corps - I		1	1	-	-	2
Total Credits (Cumulative)							2

Note: Compulsory study trip / tour in Architectural Design subject as a part of studio.

SECOND SEMESTER:

Course Code	Course Name	Theory/ Viva	Scheme of Studies Periods per week				Total Credits
			L	T	P	Studio	
ARC 24111	Architectural Design Project- 2	Theory (6 Hrs)	1	-	-	6	10
ARC 24112	Building Materials & Construction- 2	Theory	1	-	-	4	7
ARC 24113	Architectural Drawing – 2	Theory	2	-	4	-	4
ARC 24114	History of Architecture – 1	Theory	1	-	2	-	2
CE 24115	Structural Mechanics	Theory	1	2	-	-	3
ARC 24122	Workshop & Model-Making	Viva	-	-	4	-	2
SAS 24143/ SAS 24144	NSS / Yoga	-	-	-	2	-	1
Total Hours = 30			6	2	12	10	29
Total Credits (Cumulative)							58
Additional Subject: - National Cadet Corps (NCC)							
NCC 24152	National Cadet Corps - II		1	1	-	-	2
Total Credits (Cumulative)							4

Note: Compulsory study trip/ tour in Architectural Design subject as a part of studio.

THIRD SEMESTER:

Course Code	Course Name	Theory/ Viva	Scheme of Studies Periods per week				Total Credits
			L	T	P	Studio	
ARC 24211	Architectural Design Project- 3	Viva	1	-	-	6	10
ARC 24212	Building Materials & Construction- 3	Theory	1	-	-	4	7
ARC 24213	History Architecture- 2	Theory	1	-	2	-	2
ARC 24214	Climatology	Theory	1	-	2	-	2
ARC 24215	Architectural Communication Skill	Viva	1	-	3	-	3
CE 24231	Structure- 1	Theory	1	2	-	-	3
CE 24232	Surveying	Theory	1	-	4	-	3
Total Hours = 30			7	2	11	10	30
Total Credits (Cumulative)							88

Additional Subject: - National Cadet Corps (NCC)

NCC 24251	National Cadet Corps III	1	5	1	-	7
Total Credits (Cumulative)						11

Note: Compulsory study trip/ tour in Architectural Design subject.

FOURTH SEMESTER:

Course Code	Course Name	Theory/ Viva	Scheme of Studies Periods per week				Total Credits
			L	T	P	Studio	
ARC 24221	Architectural Design Project- 4	Viva	1	-	-	6	10
ARC 24222	Building Materials & Construction- 4	Theory	1	-	-	4	7
ARC 24223	Theory of Architectural Design	Theory	1	-	2	-	2
ARC 24224	Building Services - Water Supply & Sanitation	Theory	1	-	2	-	2
ARC 24225	Landscape- 1	Viva	2	-	2	-	3
ARC 24226	Computer Applications- 2	Viva	1	-	3	-	3
CE 24241	Structure- 2	Theory	1	2	-	-	3
Total Hours = 29			8	2	9	10	30
Total Credits (Cumulative)							118

Additional Subject: - National Cadet Corps (NCC)

NCC 24252	National Cadet Corps III	2	-	1	-	3
Total Credits (Cumulative)						14

Note: Compulsory study trip/ tour in Architectural Design subject.

FIFTH SEMESTER:

Course Code	Course Name	Theory/ Viva	Scheme of Studies Periods per week				Total Credits
			L	T	P	Studio	
ARC 24311	Architectural Design Project- 5	Viva	1	-	-	6	10
ARC 24312	Building Materials & Construction- 5	Theory	1	-	-	4	7
ARC 24313	Acoustics	Theory	1	-	2	-	2
ARC 24314	Quantity Surveying, Specifications and Valuation	Theory	2	-	2	-	3
ARC 24315	Computer Applications- 3	Viva	1	-	2	-	2
CE 24331	Structure- 3	Theory	1	2	-	-	3
EE 24331	Building Services- Electrical	Theory	1	2	-	-	3
Total Hours = 28			8	4	6	10	30
Total Credits (Cumulative)							148

Additional Subject: - National Cadet Corps (NCC)

NCC 24351	National Cadet Corps V	1	5	1	-	7
Total Credits (Cumulative)						21

Note: Compulsory study trip/ tour in Architectural Design subject.

SIXTH SEMESTER:

Course Code	Course Name	Theory/ Viva	Scheme of Studies Periods per week				Total Credits
			L	T	P	Studio	
ARC 24321	Architectural Design Project - 6	Viva	1	-	-	6	10
ARC 24322	Building Materials & Construction- 6	Theory	1	-	-	4	7
ARC 24323	Computer Applications- 4 (Building Information Modeling)	Viva	1	-	2	-	2
CE 24341	Structure- 4	Theory	1	2	-	-	3
ME 24341	Building Services- Mechanical Services	Theory	1	2	-	-	3
	Program Elective- 1 (GROUP- A)	Theory	3	-	-	-	3
	Departmental Elective (GROUP- B)	Theory	3	-	-	-	3
Total Hours = 27			11	4	2	10	31
Total Credits (Cumulative)							179

Additional Subject: - National Cadet Corps (NCC)

NCC 24352	National Cadet Corps VI	2	-	1	-	3
Total Credits (Cumulative)						24

Note: Compulsory study trip/ tour in Architectural Design subject.

SEVENTH SEMESTER:

Course Code	Course Name	Theory/ Viva	Scheme of Studies Periods per week				Total Credits
			L	T	P	Studio	
ARC 24411	Architectural Design Project- 7	Viva	1	-	-	6	10
ARC 24412	Working Drawing	Viva	1	-	4	-	3
ARC 24413	Project Management	Theory	3	-	-	-	3
ARC 24414	Town Planning	Theory	3	-	-	-	3
ARC 24415	Landscape- 2	Viva	2	-	2	-	3
	Program Elective- 2 (GROUP- A)	Viva	1	-	4	-	3
	Open Elective (GROUP- C)	Theory	3	-	-	-	3
Total Hours = 30			14	-	10	6	28
Total Credits (Cumulative)							207

Note: Compulsory study trip/ tour in Architectural Design subject.

EIGHTH SEMESTER:

Course Code	Course Name	Theory / Viva	Scheme of Studies Periods per week				Total Credits
			L	T	P	Studio	
ARC 24421	Architectural Design Project- 8	Viva	1	-	-	6	10
ARC 24422	Urban Design	Theory	2	-	2	-	3
ARC 24423	Interior Design	Theory	1	-	4	-	3
ARC 24424	Professional Practice and Building Bye Laws	Theory	3	-	-	-	3
ARC 24425	Research Principles and Dissertation	Viva	1	-	2	-	2
HUM 24431	Building Economics & Sociology	Theory	3	-	-	-	3
Total Hours = 25			11	-	8	6	24
Total Credits (Cumulative)							231

Note: Compulsory study trip/ tour in Architectural Design subject.

NINTH SEMESTER:

Course Code	Course Name	Theory / Viva	Scheme of Studies Periods per week				Total Credits
			L	T	P	Studio	
ARC 24511	Design Thesis	Viva	-	-	-	10	15
	Program Elective- 3 (GROUP- A)	Theory	3	-	2	-	4
	Program Elective- 4 (GROUP- A)	Viva	3	-	2	-	4
	Program Elective- 5 (GROUP- A)	Viva	3	-	2	-	4
Total Hours = 25			9	-	6	10	227
Total Credits (Cumulative)							258

TENTH SEMESTER:

Course Code	Course Name	Theory/ Viva	Scheme of Studies Periods per week				Total Credits
			L	T	P	Studio	
ARC 24521	Professional Training	Viva	-	-	-	-	26
ARC 24522	General Proficiency	Viva	-	-	-	-	1
	Total Hours= 25						27
Total Credits (Cumulative)							285

List of Electives (Architecture and Planning)

List of Electives (GROUP - A) Elective - 1	
ARC 24351	Building codes and byelaws
ARC 24352	Modern and Contemporary World Architecture
ARC 24353	Modern and Contemporary Indian Architecture
ARC 24354	Barrier free Architecture
ARC 24355	Hill Architecture
ARC 24356	Evolution of human settlements
ARC 24357	Mass housing design and standards
ARC 24358	Advanced theory of design
ARC 24359	Ekistics
ARC 24360	Appropriate technology
ARC 24361	Architectural Pedagogy
ARC 24362	Research Methodologies
ARC 24363	Research Techniques in Architecture
ARC 24364	Disaster management
ARC 24365	Architectural Conservation
ARC 24366	Environmental planning
ARC 24367	Green building
List of Electives (GROUP - A) Elective - 2	
ARC 24451	Computer programming
ARC 24452	Digital art
ARC 24453	Set design
ARC 24454	Photography
ARC 24455	Painting
ARC 24456	Product design
ARC 24457	Graphic design
ARC 24458	Furniture design
ARC 24459	CAD customization
List of Electives (GROUP - A) Elective - 3	
ARC 24551	Advanced building construction and technology
ARC 24552	Institutional building and campus planning
ARC 24553	Valuation
ARC 24554	Environmental impact assessment
ARC 24555	Architectural literary heritage of India
ARC 24556	Rural planning
ARC 24557	Urban Housing
ARC 24558	Sustainable building design
ARC 24559	Architectural Journalism
ARC 24560	Real estate development
ARC 24561	Urban and regional planning
ARC 24562	Remote Sensing and GIS
ARC 24563	Traffic and transportation planning
ARC 24564	Infrastructure planning and design
ARC 24565	Vernacular and traditional Indian architecture
ARC 24566	Color theory and its applications
ARC 24567	Earthquake resistant architecture

ARC 24568	Ergonomics
ARC 24569	Creative Thinking
List of Electives (GROUP - A) Elective - 4	
ARC 24570	Companies laws
ARC 24571	Entrepreneurship skills for architects
ARC 24572	Office management
ARC 24573	Ideation
ARC 24574	Leadership development Business environment
ARC 24575	NGO administration
ARC 24576	Marketing management and skills
ARC 24577	Human resource management
ARC 24578	Art Appreciation
ARC 24579	Cultural expressions in architecture
ARC 24580	Animation
List of Electives (GROUP - A) Elective - 5	
ARC 24581	Contemporary building materials
ARC 24582	Services in tall buildings
ARC 24583	Building Maintenance
ARC 24584	Glass Architecture
ARC 24585	Anthropology and Architecture
ARC 24586	Security systems
ARC 24587	Hospital systems and services
ARC 24588	Hotel planning and services
ARC 24589	Intelligent buildings
ARC 24590	Low cost building design and techniques
ARC 24591	Environmental codes and energy ratings
ARC 24592	Modular coordination
ARC 24593	Auditorium, acoustics, systems and services
ARC 24594	High rise buildings
ARC 24595	Steel architecture and design
ARC 24596	Advanced structural systems
ARC 24597	Industrial building systems
List of Electives (GROUP - B)	
PLN 24351	Sustainable Development
PLN 24352	Future Settlements
PLN 24353	Metropolitan Planning, Development and Management
PLN 24354	Contemporary Planning Practice
PLN 24355	Rural Development and Management
PLN 24356	Disaster Risk Mitigation and Management
PLN 24357	Big Data in Urban Planning
PLN 24358	Freight Transport and Logistics
PLN 24359	Tourism Planning
PLN 24360	Sustainable and Resilient Cities
PLN 24361	Inclusive cities
PLN 24362	Smart cities
PLN 24363	Infrastructure Planning, Development and Management
PLN 24364	Human Settlements and Climate change