

**BACHELOR OF ARCHITECTURE
COMPONENT WISE DISTRIBUTION**

Main Curriculum Components	Sub Components	Approved Credits for B.Arch.	Approved Credits Range	Proposed Credits for B.Arch. by Department	Proposed Credits Range
Institute Core Course	HSSC	5	52-58	5	52
	HSSEC	6		6	
	MC	3		3	
	BSC	12-20		12	
	ESC	8-20		15	
	DSC	4		4	
	ESSC	3		3	
	TM	4		4	
Program Core Course	CCCC	TBD	133	74	128
	AI/ML	2		2	
	Engg. Analysis and design (design thinking based project)/Industry Oriented Problem Solving/ Lab based Project/ Practical Problem/ Case study	TBD		12	
	Technical Communication	2		2	
	Internship/Professional Training	TBD		12	
	PEC	TBD		18	
	TEB	6-8		8	
OEC	9-12	9-12	9-12	9-12	
CORE	2	2	2	2	
	Total	190-200		191-194	
	MSC/DHC	18/20		18/20	
	Grand Total			209-214	

**DEPARTMENT OF ARCHITECTURE & PLANNING
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**

Program Code : **110–Bachelor of Architecture**
Department : **AR – Architecture & Planning**

Teaching Scheme

Year	Credits in Autumn Semester	Credits in Spring Semester	Credits (Year-wise)
1	23	23	46
2	24/25	24/25	48/50
3	23/24	24	47/48
4	17	12	29
5	21	0	21
Grand Total			191-194
Total with Minor Specialization Courses	with additional 18-20 credits (mentioned in the parentheses)		209-214

	Components	Maximum	Minimum	Comments
	Discipline (DIS)	20	10	To be evaluated by DoSW
Non-Credit Elements (NCE)	NCC/NSS/NSO	8	4	To be evaluated by DoSW
	Internship (INT)	32	10	1 week internship= 1 unit (To be coordinated by departments/centres/school)
	Participation in professional development programs by Industry experts/ field experts (PPD-1, PPD-2 & PPD-3)	12	6	To be coordinated by departments/centres/school (2 nd , 3 rd and 4 th Years)
Minimum non-credit to be earned: 30				

List of Program Elective Courses

Teaching Scheme					Contact Hours/Week			Exam. Duration		Relative Weight (%)				
S. No.	Sub Code	Course Title	Sub. Area	Credits	L	T/D/I	P/S	Theory	Practical	CWS	PRS	MTE	ETE	PRE
Program Elective - 1														
1	ARL-301	Structure and Architecture	PEC	3	2	1	0	3	0	20-35	-	20-30	40-50	-
2	ARL-303	Applied Art and Visual Sensitivity	PEC	3	2	1	0	3	0	20-35	-	20-30	40-50	-
Program Elective - 2														
3	ARL-302	Product Design Prototyping and Fabrication	PEC	3	2	1	0	3	0	20-35	-	20-30	40-50	-
4	ARL-304	Industrialized Construction and Technology	PEC	3	2	1	0	3	0	20-35	-	20-30	40-50	-
Program Elective - 3														
5	ARL-401	Modern Indian Architecture	PEC	3	2	1	0	3	0	20-35	-	20-30	40-50	-
6	ARL-403	Vernacular Architecture	PEC	3	2	1	0	3	0	20-35	-	20-30	40-50	-
Program Elective - 4														
7	ARL-402	Disaster Resilient Built Environments	PEC	3	2	1	0	3	0	20-35	-	20-30	40-50	-
8	ARL-404	Acoustics and Illumination	PEC	3	2	1	0	3	0	20-35	-	20-30	40-50	-
Program Elective - 5														
9	ARL-501	Hill Architecture	PEC	3	2	1	0	3	0	20-35	-	20-30	40-50	-
10	ARL-503	Housing and Real Estate	PEC	3	2	1	0	3	0	20-35	-	20-30	40-50	-
Program Elective - 6														
11	ARL-502	Architecture and Urban Conservation	PEC	3	2	1	0	3	0	20-35	-	20-30	40-50	-
12	ARL-504	Architectural Journalism	PEC	3	2	1	0	3	0	20-35	-	20-30	40-50	-

List of Talent Enhancement Course

Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weight (%)				
S. No.	Course Code	Course Title	Area	Cr.	L	T	P	Th.	Pr.	C W S	PRS	M T E	E T E	PRE
TEB – A (Interior Design)														
1	ART-101	Interior Design	TEB	3	2	1	0	3	0	20-35	-	20-30	40-50	-
2	ART-102	Interior Design Studio	TEB	5	1	2	4	0	7	-	80	20	-	-
TEB-B (Universal Design)														
1	ART-103	Universal Design and Accessibility Planning	TEB	3	2	1	0	3	0	20-35	-	20-30	40-50	-
2	ART-104	Design for Universal Access	TEB	5	1	2	4	0	7	-	80	20	-	-
TEB-C (Urban Design)														
1	ART-105	Urban Design	TEB	3	2	1	0	3	0	20-35	-	20-30	40-50	-
2	ART-106	Urban Design for Selected Typology	TEB	5	1	2	4	0	7	-	80	20	-	-
TEB-D (Sustainable Built Environment)														
1	ART-107	Sustainable Built Environment (SBE)	TEB	3	2	1	0	3	0	20-35	-	20-30	40-50	-
2	ART-108	SBE Design for Indian Climatic Zones	TEB	5	1	2	4	0	7	-	80	20	-	-
TEB-E (Urban Planning)														
1	ART-109	Urban Planning	TEB	3	2	1	0	3	0	20-35	-	20-30	40-50	-
2	ART-110	Urban Planning Studio	TEB	5	1	2	4	0	7	-	80	20	-	-
TEB-F (Human Settlement Planning)														
1	ART-111	Ekistics	TEB	3	2	1	0	3	0	20-35	-	20-30	40-50	-
2	ART-112	Settlement Planning	TEB	5	1	2	4	0	7	-	80	20	-	-

Minor Specialisation Courses (20 credits)

Sno.	Code	Course	Semester	Credit
1	ARC-104	Building Materials & Construction-I	Spring	3
2	ARC-106	Climatology in Architecture	Spring	3
3	ARC-203	Building Materials and Construction-II	Autumn	3
4	ARC-206	History of Architecture-I	Autumn	3
5	ARC-204	Building Materials and Construction-III	Spring	3
6	ARC-205	History of Architecture-II	Autumn	3
7	ARC-208	Principles of Architecture	Autumn	3
8	ARC-210	Landscape Design and Site Development	Spring	3
9	ARC-304	Contemporary World Architecture	Spring	3
10	ARC-405	Construction Planning and Management	Autumn	3
11	ARC-503	Professional Practice, Valuation & Arbitration	Spring	3

Departmental Honours Courses (20 credits)

- A. Elective courses from B.Arch over and above the minimum
- B. Any of the following courses from M.Arch/MURP basket

Sl no.	Code	Course	Credit
1	ARC-603	Contemporary Architecture-Theories and Trends	3
2	ARC-605	Urban Design	3
3	ARC-607	Advanced Building Technologies	3
4	ARC-655	Ecology and Sustainable Development	3
5	ARC-657	Planning Theory and Techniques	3
6	ARC-659	Housing	3
7	ARC-661	Planning Legislation and Governance	3
8	ARC-604	Sustainable Built Environment	4
9	ARC-606	Megastructures	3
10	ARC-654	Infrastructure Planning	4
11	ARC-656	Rural Planning and Development	3