

BIRLA INSTITUTE OF TECHNOLOGY- MESRA, RANCHI
NEW COURSE STRUCTURE - To be effective from academic session 2018- 19
Based on CBCS & OBE model
Recommended scheme of study
(For Bachelor of Architecture Programme)

Semester / Session of study (Recommended)	LEVEL	Category of course	Course Code	Subjects	Mode of delivery & credits <i>L-Lecture; T-Tutorial;P-Practicals</i>			Total Credits <i>C- Credits</i>
	SUBJECT DETAILS				L <i>(Periods/week)</i>	T <i>(Periods/week)</i>	P <i>(Periods/week)</i>	C
FIRST	THEORY							
	FIRST	PC	AR 101	Principles of Architecture	3	0	0	3
			AR 102	Primary Building Materials	3	0	0	3
			AR 103	History of Indian Architecture	3	0	0	3
		FS	MA104	Mathematics for Architects	3	0	0	3
	LABORATORIES							
	FIRST	PC	AR 111	Architectural Design – I	0	0	6	9
			AR 112	Descriptive Geometry	0	0	6	3
			AR 113	Construction Technique and Model Making Workshop	0	0	4	2
		MC	MC101/102/103/104	Choice of : NCC/NSS/ PT & Games/ Creative Arts (CA)	0	0	2	1
TOTAL (Theory + Labs)							27	

SECOND	THEORY							
	FIRST	PC	AR 151	Advanced Building Materials	3	0	0	3
			AR 152	History of Architecture- Western	3	0	0	3
			AR 153	Statics & Strength of Materials	3	0	0	3
	LABORATORIES							
	FIRST	PC	AR 161	Architectural Design – II	0	0	6	9
			AR 162	Building Construction – I	0	0	4	6
			AR 163	Architectural Rendering Techniques	0	0	4	2
		MC	MC105/106/107/108	Choice of : NCC/NSS/ PT & Games/ Creative Arts (CA)	0	0	2	1
	TOTAL (Theory + Labs)							27

THIRD	THEORY							
	SECOND	PC	AR 201	Climatology	3	0	0	3
			AR 202	Building Construction and Codes	3	0	0	3
			AR 203	Contemporary Architecture	3	0	0	3
			AR 204	Structural Mechanics	3	0	0	3
		FS	CE 101	Environmental Sciences	2	0	0	2
	LABORATORIES							
	SECOND	PC	AR 211	Architectural Design - III	0	0	6	9
			AR 212	Building Construction – II	0	0	4	6
			AR 213	Computer Application in Architecture	0	0	4	2
		MC	MC201/202/203/204	Choice of : NCC/NSS/ PT & Games/ Creative Arts (CA)	0	0	2	1
TOTAL (Theory + Labs)							32	

FOURTH	THEORY							
	SECOND	PC	AR 251	Building Services – I (Water Supply and Sanitation)	3	0	0	3
			AR 252	Building Services – II (Electrical & Lighting)	3	0	0	3
			AR 253	Site Planning and Landscape Architecture	3	0	0	3
	OE		OPEN ELECTIVE I	3	0	0	3	
	LABORATORIES							
	SECOND	PC	AR 261	Architectural Design - IV and Academic Field Trip	0	0	6	9
			AR 262	Building Construction – III	0	0	4	6
		GE	CE 212	Surveying Field Work	0	0	4	2
		MC	MC205/206/207/208	Choice of : NCC/NSS/ PT & Games/ Creative Arts (CA)	0	0	2	1
TOTAL (Theory + Labs)							30	

FIFTH	THEORY							
	THIRD	HSS	MT 204	Constitution of India	3	0	0	Nil credit
		PC	AR 301	Acoustics	3	0	0	3
			AR 302	Building Services – III (Mech. & Fire Safety)	3	0	0	3
		GE	CE 301	Structural Design - I	4	0	0	4
	OE		OPEN ELECTIVE II	3	0	0	3	
	LABORATORIES							
	THIRD	PC	AR 311	Architectural Design - V	0	0	9	13.5
			AR 312	Working Drawing-I	0	0	4	2
			AR 313	Building Information Modelling	0	0	3	1.5
TOTAL (Theory + Labs)							30	

SIXTH	THEORY							
	THIRD	HSS	MT 123	Business Communications	3	0	0	3
		PC	AR 351	Specification, Estimation and Costing	3	0	0	3
		PE 1	*	*	3	0	0	3
			*	*	4	0	0	4
		OE		OPEN ELECTIVE III	3	0	0	3
	LABORATORIES							
	THIRD	PC	AR 361	Architectural Design - VI and Academic Field Trip	0	0	9	13.5
			AR 362	Working Drawing II	0	0	4	2
	TOTAL (Theory + Labs)							31.5

SEVENTH	THEORY							
	FOURTH	PC	AR 401	Housing and Settlement System	3	0	0	3
			AR 402	Structural Design and Systems	3	0	0	3
			AR 403	Energy Efficient Architecture	3	0	0	3
	PE 2	**	**		3	0	0	3
		**	**					
	OE		OPEN ELECTIVE IV		3	0	0	3
LABORATORIES								
FOURTH	PC	AR 411	Architectural Design - VII	0	0	9	13.5	
		AR 412	Interior Design	0	0	4	2	
TOTAL (Theory + Labs)							30.5	
EIGHTH	FOURTH	Architectural Apprenticeship/ Internship	AR 461	Architectural Apprenticeship	0	0	0	6
			AR 462	Field Studies	0	0	0	3
			AR 463	Comprehensive Viva & Time Test	0	0	3	3
TOTAL							12	
NINTH	THEORY							
	FIFTH	PC	AR 501	Urban Design	3	0	0	3
			AR 502	Human Settlements Planning	3	0	0	3
		PE 3	***	***		3	0	0
	***		***					
	MOOC		MOOC COURSES		0	0	0	2
	LABORATORIES							
FIFTH	PC	AR 511	Architectural Design - VIII	0	0	12	18	
		AR 512	Introduction to Thesis Project & Research Methodology (Dissertation)	0	0	4	2	
TOTAL (Theory + Labs)							31	
TENTH	THEORY							
	FIFTH	PC	AR 551	Professional Practice and Tendering Process	3	0	0	3
			AR 552	Construction Project Management	3	0	0	3
		MOOC		MOOC COURSES		0	0	0
	LABORATORIES							
	FIFTH	PC	AR 561	Architectural Design Thesis/ Project	0	0	12	18
	TOTAL (Theory + Labs)							26
GRAND TOTAL							277	

(*, **, ***) LIST OF PROGRAMME ELECTIVES								
1	Sixth/ Spring	Programme Elective 1* (PE) (Any one)	AR 352	Vernacular Architecture	3	0	0	3
2			AR 354	Architectural Conservation and Heritage Management	3	0	0	3
3	Seventh/ Monsoon	Programme Elective 2 ** (PE) (Any one)	AR 404	Disaster Management and Resilient Structures	3	0	0	3
4			AR 703	Sustainable City Planning (PG Subject)	3	0	0	3
5	Ninth / Monsoon	Programme Elective 3 *** (PE)	AR 503	Theory of Design	3	0	0	3
6			AR 605	Urban Ecology and Environmental Planning	3	0	0	3
OPEN ELECTIVES (I to IV) FOR B.ARCH. STUDENTS WILL BE OFFERED BY OTHER DEPARTMENTS								