

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	Courses	Mode of delivery & credits <i>L-Lecture; T-Tutorial;P- Practicals</i>			Total Credits <i>C- Credits</i>
	COURSE 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	MA109	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	6	9
			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)								30
GRAND TOTAL FOR FIRST YEAR								57

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	6	9
			AR 213	Computer Application in Architecture	0	0	4	2
		MC	MC201/2 02/203/2 04	Choice of : NCC/NSS/ PT & Games/ Creative Arts (CA)	0	0	2	1
	TOTAL (Theory + Labs)							35

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	6	9
		GE	CE 212	Surveying Field Work	0	0	4	2
		MC	MC205/2 06/207/2 08	Choice of : NCC/NSS/ PT & Games/ Creative Arts (CA)	0	0	2	1
TOTAL (Theory + Labs)								33

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	8	12
			AR 312	Working Drawing-I	0	0	6	3
			AR 313	Building Information Modelling	0	0	4	2
AR 314			Seminar	0	0	4	2	
TOTAL (Theory + Labs)							32	

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		Programme Elective 1	3	0	0	3
		GE	CE 308	Structural Design II	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	8	12
			AR 362	Working Drawing II	0	0	6	3
AR 363			Landscape Design Sessional	0	0	4	2	
TOTAL (Theory + Labs)								33

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		Programme Elective 2	3	0	0	3
	OE		OPEN ELECTIVE IV	3	0	0	3	
	LABORATORIES							
FOURTH	PC	AR 411	Architectural Design - VII	0	0	12	18	
		AR 412	Interior Design	0	0	4	2	
TOTAL (Theory + Labs)								35
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		Programme Elective 3	3	0	0	3
		MOOC		MOOC I	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 II	0	0	0	2
	LABORATORIES							
	FIFTH	PC	AR 561	Architectural Design Thesis/ Project	0	0	12	18
TOTAL (Theory + Labs)								26
GRAND TOTAL								294

DEPARTMENT OF ARCHITECTURE
PROGRAMME ELECTIVES (PE)*
OFFERED FOR LEVEL 1-5

PE	LEVEL	Code no.	Name of the PE courses	Prerequisites courses with code	L	T	P	C
PE1	3	AR 352	Vernacular Architecture	None	3	0	0	3
		AR 354	Architectural Conservation and Heritage Management	None	3	0	0	3
PE2	4	AR 404	Disaster Management and Resilient Structures	None	3	0	0	3
		AR 703	Sustainable City Planning (PG Subject)	None	3	0	0	3
PE3	5	AR 503	Theory of Design	None	3	0	0	3
		AR 605	Urban Ecology and Environmental Planning (PG Subject)	None	3	0	0	3

*** PROGRAMME ELECTIVES TO BE OPTED ONLY BY THE DEPARTMENT STUDENTS**

DEPARTMENT OF ARCHITECTURE
OPEN ELECTIVES (OE)*
OFFERED FOR LEVEL 1-5

OE	LEVEL	Code no.	Name of the PE courses	Prerequisites courses with code	L	T	P	C
OE1	3	AR 351	Specification, Estimation and Costing	None	3	0	0	3
OE2	4	AR 403	Energy Efficient Architecture	None	3	0	0	3
OE3	5	AR 502	Human Settlements Planning	None	3	0	0	3

*** OPEN ELECTIVES TO BE OPTED ONLY BY OTHER DEPARTMENT STUDENTS**