

DEPARTMENT OF ARCHITECTURE

COURSE STRUCTURE AND SYLLABUS
(1ST – 10TH SEMESTER)

FOR

BACHELOR OF ARCHITECTURE (B.ARCH) PROGRAMME
(EFFECTIVE FROM 2013-18)



VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY
(FORMLY, UNIVERSITY COLLEGE OF ENGINEERING)
BURLA – 768 018, SAMBALPUR, ODISHA

**FIRST YEAR B.ARCH
ARCHITECTURE**

FIRST SEMESTER				SECOND SEMESTER			
THEORY		Contact Hours	CR	THEORY		Contact Hours	CR
Course Code	Subject	T.S.L.P		Course Code	Subject	T.S.L.P	
AR13101	Building Materials-I	3-0-0-0	3	AR13201	Building Materials-II	3-0-0-0	3
AR13102	Principles of Architectural Design	3-0-0-0	3	AR13202	Building Construction-I	3-0-0-0	3
AR13103	History of Architecture-I	3-0-0-0	3	AR13203	History of Architecture-II	3-0-0-0	3
AR13104	Environmental and Safety Engineering	4-0-0-0	4	AR13204	Engineering Mechanics	4-0-0-0	4
AR13105	Mathematics-I	4-0-0-0	4	AR13205	Mathematics-II	4-0-0-0	4
SESSIONALS				SESSIONALS			
AR13191	Architectural Design-I	0-3-0-0	2	AR13291	Architectural design-II	0-3-0-0	2
AR13192	Architectural Graphics-I	0-3-0-0	2	AR13292	Architectural Graphics-II	0-3-0-0	2
AR13193	Computing Laboratory-I	0-0-3-0	2	AR13293	Building Construction Studio-I	0-3-0-0	2
AR13194	Workshop Practice-I	0-0-3-0	2	AR13294	Visual Arts-I	0-0-4-0	3
AR13195	Extra Academic Activity-I	0-0-0-3	2	AR13295	Extra Academic Activity-II	0-0-0-3	2
				AR13296	Field Study-I	0-0-0-0	2
Total		17-6-6-3	27	Total		17-9-4-3	30

**SECOND YEAR B.ARCH
ARCHITECTURE**

THIRD SEMESTER				FOURTH SEMESTER			
Theory		Contact Hours	CR	Theory		Contact Hours	CR
Course Code	Subject	T.S.L.P		Course Code	Subject	T.S.L.P	
AR13301	Mechanics of Solids	4-0-0-0	4	AR13401	Structural Analysis	4-0-0-0	4
AR13302	History of Architecture-III	3-0-0-0	3	AR13402	History of Architecture-IV	3-0-0-0	3
AR13303	Building Construction-II	3-0-0-0	3	AR13403	Building Construction-III	3-0-0-0	3
AR13304	Climate Responsive Architecture	4-0-0-0	4	AR13404	Building Bye Laws and Codes of Practices	3-0-0-0	3
AR13305	Building Acoustics	3-0-0-0	3	AR13405	Housing	3-0-0-0	3
SESSIONALS				SESSIONALS			
AR13391	Architectural design-III	0-6-0-0	4	AR13491	Architectural design-IV	0-6-0-0	4
AR13392	Architectural Graphics-III	0-3-0-0	2	AR13492	Computer Aided Design and Simulation-I	0-3-0-0	2
AR13393	Building Construction Studio-II	0-3-0-0	2	AR13493	Building Construction-III	0-3-0-0	2
AR13394	Visual Arts-II	0-4-0-0	3	AR13494	Surveying Field work	0-3-0-0	2
AR13395	Non-graphic Computer Application	0-0-0-3	2	AR13495	Model Making Workshop	0-3-0-0	2
				AR13496	Field Study-II	0-0-0-0	2
Total		17-16-0-3	30	Total		16-18-0-0	30

**THIRD YEAR B.ARCH
ARCHITECTURE**

FIFTH SEMESTER				SIXTH SEMESTER			
Theory		Contact Hours	CR	Theory		Contact Hours	CR
Course Code	Subject	T.S.L.P		Course Code	Subject	T.S.L.P	
AR13501	Design of Structures-I	3-0-0-0	3	AR13601	Design of Structures-II	3-0-0-0	3
AR13502	Building Estimating Costing and Specifications	4-0-0-0	4	AR13602	Building Economics and Sociology	3-0-0-0	3
AR13503	Building Services-I	4-0-0-0	4	AR13603	Building Services-II	3-0-0-0	3
AR13504	Structural Mechanics-III	3-0-0-0	3	AR13604	Human Settlements and Town Planning	4-0-0-0	4
				AR13605	Barrier Free Built Environment	2-0-0-0	2
SESSIONALS				SESSIONALS			
AR13591	Architectural design-V	0-9-0-0	9	AR13691	Architectural design-VI	0-9-0-0	9
AR13592	Building Construction-V	0-4-0-0	4	AR13692	Working Drawings and Details	0-6-0-0	6
AR13593	Computer Applications-III	0-0-4-0	4				
Total		14-13-4-0	31	Total		15-15-0-0	30

**FOURTH YEAR B.ARCH
ARCHITECTURE**

SEVENTH SEMESTER				EIGHTH SEMESTER			
Theory		Contact Hours	CR	Theory		Contact Hours	CR
Course Code	Subject	T.S.L.P		Course Code	Subject	T.S.L.P	
AR13701	Advanced Structural Systems	2-0-0-0	2	AR13801	Professional Practice	4-0-0-0	4
AR13702	Green Buildings and Infrastructure	2-0-0-0	2	AR13802	Elective-II	4-0-0-0	4
AR13703	Advanced Services	2-0-0-0	2				
AR13704	Pre-Thesis Seminar	2-0-0-0	2				
AR13705	Landscape Design and Site Planning	2-0-0-0	2				
SESSIONALS				SESSIONALS			
AR13791	Landscape Design and Site Planning	0-2-0-0	2	AR13891	Design Thesis	0-0-0-22	22
AR13792	Advanced Construction and Materials	0-6-0-0	6				
AR13793	Advanced Architectural Design Studio	0-12-0-0	12				
Total		10-20-0-0	30	Total		8-0-0-22	30

**FINAL YEAR B.ARCH
ARCHITECTURE**

NINTH SEMESTER				TENTH SEMESTER			
Project		T-S-L-P	CR	Project		T-S-L-P	CR
AR13991	Practical Training		30	AR13991	Practical Training		30
Total			30	Total			30

List of Core Subjects:

Sl No	Names
1	Building Materials-I
2	Principles of Architectural Design
3	History of Architecture-I
4	Environmental and Safety Engineering
5	Mathematics-I
6	Building Materials-II
7	Building Construction-I
8	History of Architecture-II
9	Engineering Mechanics
10	Mathematics-II
11	Mechanics of Solids
12	History of Architecture-III
13	Building Construction-II
14	Climate Responsive Architecture
15	Building Acoustics
16	Structural Analysis
17	History of Architecture-IV
18	Building Construction-III
19	Building Bye Laws and Codes of Practices
20	Housing
21	Design of Structures-I
22	Building Estimating Costing and Specifications
23	Building Services-I
24	Structural Mechanics-III
25	Design of Structures-II
26	Building Economics and Sociology
27	Building Services-II
28	Human Settlements and Town Planning
29	Barrier Free Built Environment
30	Advanced Structural Systems
31	Green Buildings and Infrastructure
32	Advanced Services
33	Pre-Thesis Seminar
34	Landscape Design and Site Planning
35	Professional Practice

List of Electives-I

Sl No	Names
1	Urban Design
2	Housing
3	Building Construction and Management
4	Interior Design

5	Landscape Architecture
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List of Electives-II

Sl No	Names
1	Architectural Illumination
2	Architectural Journalism
3	Furniture and Product Design
4	Disaster resistant architecture

List of Sessionals

Sl No	Names
1	Architectural Design-I
2	Architectural Graphics-I
3	Computing Laboratory-I
4	Workshop Practice-I
5	Extra Academic Activity-I
6	Architectural design-II
7	Architectural Graphics-II
8	Building Construction Studio-I
9	Visual Arts-I
10	Extra Academic Activity-II
11	Field Study-I
12	Architectural design-III
13	Architectural Graphics-III
14	Building Construction Studio-II
15	Visual Arts-II
16	Non-graphic Computer Application
17	Architectural design-IV
18	Computer Aided Design and Simulation-I
19	Building Construction-III
20	Surveying Field work
21	Model Making Workshop
22	Field Study-II
23	Architectural design-V
24	Building Construction-IV
25	Computer Applications-III
26	Architectural design-VI
27	Working Drawings and Details
28	Landscape Design and Site Planning
29	Advanced Construction and Materials
30	Advanced Architectural Design Studio
31	Design thesis
32	Practical Training

S – Studio Class, L - Lab, T – Theory, P - Project