

DEPARTMENT OF ARCHITECTURE

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

FOR

BACHELOR OF ARCHITECTURE (B.ARCH) PROGRAMME
(EFFECTIVE FROM 2014-19)



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	
AR14101	Building Materials-I	3-0-0-0	3	AR14201	Building Materials-II	3-0-0-0	3
AR14102	Principles of Architectural Design	3-0-0-0	3	AR14202	Building Construction-I	3-0-0-0	3
AR14103	History of Architecture-I	3-0-0-0	3	AR14203	History of Architecture-II	3-0-0-0	3
AR14104	Environmental and Safety Engineering	4-0-0-0	4	AR14204	Engineering Mechanics	4-0-0-0	4
AR14105	Mathematics-I	4-0-0-0	4	AR14205	Mathematics-II	4-0-0-0	4
SESSIONALS				SESSIONALS			
AR14191	Architectural Design-I	0-3-0-0	2	AR14291	Architectural design-II	0-3-0-0	2
AR14192	Architectural Graphics-I	0-3-0-0	2	AR14292	Architectural Graphics-II	0-3-0-0	2
AR14193	Computing Laboratory-I	0-0-3-0	2	AR14293	Building Construction Studio-I	0-3-0-0	2
AR14194	Workshop Practice-I	0-0-3-0	2	AR14294	Visual Arts-I	0-0-4-0	3
AR14195	Extra Academic Activity-I	0-0-0-3	2	AR14295	Extra Academic Activity-II	0-0-0-3	2
				AR14296	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	
AR14301	Structural Mechanics-I	3-0-0-0	3	AR14401	Design of Structures-I	3-0-0-0	3
AR14302	History and Theory of Architecture-I	3-0-0-0	3	AR14402	Structural Mechanics-II	3-0-0-0	3
AR14303	Building Services-I	4-0-0-0	4	AR14403	Building Services-II	3-0-0-0	3
AR14304	Climatology	3-0-0-0	3	AR14404	Landscape Design and Site Planning	2-0-0-0	2
SESSIONALS				SESSIONALS			
AR14391	Architectural design-III	0-9-0-0	9	AR14491	Architectural design-III	0-9-0-0	9
AR14392	Architectural Drawing and Graphics-III	0-4-0-0	4	AR14492	Building Construction-III	0-4-0-0	4
AR14393	Building Construction - II	0-4-0-0	4	AR14493	Computer Applications-II	0-0-4-0	4
				AR14494	Landscape Design and Site Planning	0-2-0-0	2
Total		13-17-0-0	30	Total		11-15-4-0	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	
AR14501	Design of Structures-II	3-0-0-0	3	AR14601	Architectural Acoustics	3-0-0-0	3
AR14502	Building Estimating Costing and Specifications	4-0-0-0	4	AR14602	Building Codes and Bye Laws	3-0-0-0	3
AR14503	History and Theory of Architecture-II	3-0-0-0	3	AR14603	Building Economics and Sociology	3-0-0-0	3
AR14504	Structural Mechanics-III	3-0-0-0	3	AR14604	Human Settlements and Town Planning	4-0-0-0	4
				AR14605	Barrier Free Built Environment	2-0-0-0	2
SESSIONALS				SESSIONALS			
AR14591	Architectural design-IV	0-9-0-0	9	AR14691	Architectural design-V	0-9-0-0	9
AR14592	Building Construction-IV	0-4-0-0	4	AR14692	Working Drawings and Details	0-6-0-0	6
AR14593	Computer Applications-III	0-0-4-0	4	AR14693	Surveying and Leveling	0-0-3-0	3
Total		13-13-4-0	30	Total		15-15-3-0	33

**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	
AR14701	Advanced Structural Systems	2-0-0-0	2	AR14801	Professional Practice	4-0-0-0	4
AR14702	Green Buildings and Infrastructure	2-0-0-0	2	AR14802	Elective-II	4-0-0-0	4
AR14703	Advanced Services	2-0-0-0	2				
AR14704	Pre-Thesis Seminar	2-0-0-0	2				
AR14705	Housing	4-0-0-0	4				
SESSIONALS				SESSIONALS			
AR14791	Advanced Construction and Materials	0-6-0-0	6	AR14891	Design Thesis	0-0-0-22	22
AR14792	Advanced Architectural Design Studio	0-12-0-0	12				
Total		12-18-0-0	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
AR14991	Practical Training		30	AR14991	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	Structural Mechanics-I
12	History and Theory of Architecture-I
13	Building Services-I
14	Climatology
15	Design of Structures-I
16	Structural Mechanics-II
17	Building Services-II
18	Landscape Design and Site Planning
19	Design of Structures-II
20	Building Estimating Costing and Specifications
21	History and Theory of Architecture-II
22	Structural Mechanics-III
23	Architectural Acoustics
24	Building Codes and Bye Laws
25	Building Economics and Sociology
26	Human Settlements and Town Planning
27	Barrier Free Built Environment
28	Advanced Structural Systems
29	Green Buildings and Infrastructure
30	Advanced Services
31	Pre-Thesis Seminar
32	Housing
33	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

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 Drawing and Graphics-III
14	Building Construction –II
15	Architectural design-III
16	Building Construction-III
17	Computer Applications-II
18	Landscape Design and Site Planning
19	Architectural design-IV
20	Building Construction-IV
21	Computer Applications-III
22	Architectural design-V
23	Working Drawings and Details
24	Surveying and Leveling
25	Advanced Construction and Materials
26	Advanced Architectural Design Studio
27	Design thesis
28	Practical training

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