



Estd. 1962
"A++" Accredited by
NAAC (2021)
With CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR

416 004, MAHARASHTRA

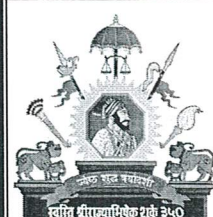
PHONE : EPABX - 2609000, BOS Section - 0231-2609094, 2609487

Web : www.unishivaji.ac.in Email: bos@unishivaji.ac.in

शिवाजी विद्यापीठ, कोल्हापूर ४१६ ००४, महाराष्ट्र

दूरध्वनी - इपीबीएक्स - २०६०९०००, अभ्यासमंडळे विभाग : ०२३१- २६०९०९४, २६०९४८७

वेबसाईट : www.unishivaji.ac.in ईमेल : bos@unishivaji.ac.in



SU/BOS/Sci & Tech/179

Date: 10/06/2026

The Principal,
All Concerned Affiliated Colleges/Institutions
Shivaji University, Kolhapur

Subject: Regarding revised syllabi of Architecture Engineering degree Programme under the Faculty of Science and Technology.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the revised syllabi, (Nature of Question paper and equivalence) of Architecture Engineering degree programme under the Faculty of Science & Technology.

No.	Course Syllabus
1	B. Arch - Part I (Sem-I & II)
2	M. Arch - Part I (Sem-I & II)

This Syllabus, nature of question and equivalence shall be implemented from the academic year 2026-27 onwards. A soft copy containing the syllabus is attached herewith and it is available on university website www.unishivaji.ac.in>Syllabus>Syllabus as per NEP-2020.

The question papers on the pre-revised syllabi of above-mentioned course will be set for the examinations to be held in October/ November 2026 & March / April 2027. These chances are available for repeater students, if any

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dy. Registrar

Encl. : As above.

Copy to: For Information and necessary action.

1	The I/c Dean, Faculty of Science & Technology	7	Appointment A & B Section
2	Director, Board of Examinations & Evaluation	8	Affiliation (T.1) (T.2) Section
3	The Chairperson, Respective Board of Studies	9	P.G.Admission Section,
4	Other Exam 4 Section,	10	P.G Seminar Section
5	Eligibility Section,	11	Computer Centre/ IT Cell
6	Internal Quality Assurance Cell (IQAC)		

SHIVAJI UNIVERSITY, KOLHAPUR



Estd. 1962

NAAC 'A' Grade

Faculty of Science and Technology

Syllabus For

B. Arch. Part – I (Sem I & II)

(To be implemented from June 2019 onwards)

(Subject to the modifications that will be made from time to time)



Estd. 1962
NAAC 'A' Grade
MHRD-NIRF- 28th Rank

SHIVAJI UNIVERSITY, KOLHAPUR-416 004. MAHARASHTRA
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दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग— २६०९०९४)
फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

Ref.No. SU/BOS/Sci & Tech/

No 0805 - Date: 23/09/2019

24 SEP 2019

To,

The Principal,
All affiliated Engineering College,
Shivaji University,
Kolhapur.

Subject:-Regarding minor changes in syllabus of Bachelor of Architecture (B. Arch.) CBCS Part-I (Sem I& II) Program under Faculty of Science & Technology.

Ref.:- SU/BOS/Sci & Tech/6591 dt. 28/06/2019

Sir/Madam,

With reference to subject mentioned above, I am directed to inform you that University authorities has accepted and granted approval to the minor changes in syllabus of Bachelor of Architecture (B. Arch.) CBCS Part-I (Sem I& II) Program under Faculty of Science & Technology. The corrected syllabus is enclosed herewith.

A soft copy containing the syllabus is enclosed herewith and it is also made available on website www.unishivaji.ac.in (Online syllabus)

You are therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Deputy Registrar

Encl:- As above

Copy to:

1	The Dean, Faculty of Science & Technology	7	Computer Centre
2	The Chairman, Respective Board of Studies	8	Affiliation Section (T.1)
3	Director, Examination and Evaluation	9	Affiliation Section (T.2)
4	Eligibility Section	10	P.G.Admission Section
5	O.E. – 4	11	P.G Seminar Section
6	Appointment Section	12	Meeting Section



Shivaji University, Kolhapur

Regulations of 'Bachelor of Architecture'19-20

Sr. No.	Regulations
CBCS R. B. Arch. 1	The teaching and examination scheme in Architecture shall be according to tables 1 to 5 and the syllabi prescribed subject to revisions, modification etc. which will be made from time to time.
CBCS R. B. Arch.2	Each subject will carry the following heads : 1) Theory Paper 2) External assessment of sessional work and orals 3) Internal assessment of sessional work. As prescribed in the subject, each shall constitute a separate head of passing except where otherwise specified. Combined heads of passing are denoted by * & ** marks in brackets in the enclosed tables.
CBCS R. B. Arch.3	In respect of sessional work, target date shall be fixed for the completion of each sheet, job, project, experiment or assignment and the same complete or incomplete shall be collected on the target date and assessed internally immediately at the respective institutions by the concerned teachers and marks shall be submitted to the Principal. The Principal of Institution shall communicate these marks to the University as per university schedule.
CBCS R. B. Arch.4	Sessional work and performance at practical/ externaloral examination shall be assessed on the basis of the depth of understanding of principles involved and not on the basis of mere correctness of results or appearance. Ornamentation is therefore, not expected and will not be given credit.
CBCS R. B. Arch.5	I) When sessional work in any subject is assessed, the marks will be carried over to subsequent examination, unless the candidate rejoins an affiliated institution as a regular student in the corresponding part and chooses to submit fresh sessional work. II) A student who fails in the externalsessional work of any subject OR in any sessional subject shall submit fresh/improved sessional work in the subject to the Institution. The Institution shall forward the fresh sessional marks to the university and the same shall reappear for the examination concerned. III) A candidate whose marks are thus carried over is eligible for award of class/ prizes.
CBCS R. B. Arch.6	Marks obtained by a candidate in Practical and/or oral examinations will be carried over to subsequent examinations.

CBCS R. B. Arch.7	The number of optional questions in a theory paper per section shall be at least 25 percent of the maximum number of questions required to be attempted																																																																																							
CBCS R. B. Arch.8	To pass the examination a candidate must obtain minimum of 45% marks in Theory exam, 45% in External Viva, 50% marks in internal sessional in each head of passing and minimum of 50% marks in the aggregate.																																																																																							
CBCS R. B. Arch 9	1. A student would be awarded B.Arch. only if he/she earns 259 (100%) credits and clears all the courses specified in the syllabus and gets passing grade of aggregate. 2. Award of Degree The SGPA shall be calculated for each semester and CGPA shall be calculated at the end of all semesters. For calculation of CGPA, a formula given below shall be used. The standard of passing shall be in accordance with the following table : Grading System for Theory& External Viva-Table 1 <table><tr><th>Grade</th><th>Grade Points</th><th>% of Marks Obtained</th><th>Remarks</th></tr><tr><td>O</td><td>10</td><td>90-100</td><td>Outstanding</td></tr><tr><td>A+</td><td>9</td><td>80-89</td><td>Very good</td></tr><tr><td>A</td><td>8</td><td>70-79</td><td>Good</td></tr><tr><td>B+</td><td>7</td><td>60-69</td><td>Fair</td></tr><tr><td>B</td><td>6</td><td>50-59</td><td>Average</td></tr><tr><td>C</td><td>5</td><td>45-49</td><td>Below average</td></tr><tr><td>F</td><td>0</td><td>Below 45</td><td>Fail</td></tr></table> Grading System for Internal Sessional and Aggregate-Table 2 <table><tr><th>Grade</th><th>Grade Points</th><th>% of Marks Obtained</th><th>Remarks</th></tr><tr><td>O</td><td>10</td><td>90-100</td><td>Outstanding</td></tr><tr><td>A+</td><td>9</td><td>80-89</td><td>Very good</td></tr><tr><td>A</td><td>8</td><td>70-79</td><td>Good</td></tr><tr><td>B+</td><td>7</td><td>60-69</td><td>Fair</td></tr><tr><td>B</td><td>6</td><td>50-59</td><td>Average</td></tr><tr><td>F</td><td>0</td><td>Below 50</td><td>Fail</td></tr></table> The award of the class will be as per table below – Table No. 3 <table><tr><th>CGPA</th><th>Letter Grade</th><th>Class of the degree awarded</th></tr><tr><td>-</td><td>-</td><td></td></tr><tr><td>0.0 – 4.99</td><td>F</td><td>Fail</td></tr><tr><td>5.00 – 5.49</td><td>C</td><td>Pass</td></tr><tr><td>5.50 – 6.24</td><td>B</td><td>Second Class</td></tr><tr><td>6.25 – 6.74</td><td>B+</td><td>Higher Second Class</td></tr><tr><td>6.75 – 7.74</td><td>A</td><td>First Class</td></tr><tr><td>7.75 – 9.49</td><td>A+</td><td>First Class with Distinction</td></tr><tr><td>9.50 – 10.0</td><td>O</td><td>Outstanding</td></tr></table>	Grade	Grade Points	% of Marks Obtained	Remarks	O	10	90-100	Outstanding	A+	9	80-89	Very good	A	8	70-79	Good	B+	7	60-69	Fair	B	6	50-59	Average	C	5	45-49	Below average	F	0	Below 45	Fail	Grade	Grade Points	% of Marks Obtained	Remarks	O	10	90-100	Outstanding	A+	9	80-89	Very good	A	8	70-79	Good	B+	7	60-69	Fair	B	6	50-59	Average	F	0	Below 50	Fail	CGPA	Letter Grade	Class of the degree awarded	-	-		0.0 – 4.99	F	Fail	5.00 – 5.49	C	Pass	5.50 – 6.24	B	Second Class	6.25 – 6.74	B+	Higher Second Class	6.75 – 7.74	A	First Class	7.75 – 9.49	A+	First Class with Distinction	9.50 – 10.0	O	Outstanding
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Note:

1. **Marks obtained** ≥ 0.5 shall be rounded off to next higher digit.
2. The SGPA & CGPA shall be rounded off to 2 decimal points.
3. **Calculation of SGPA & CGPA :**

1. Semester Grade Point Average (SGPA)

$$\text{SGPA} = \frac{\sum (\text{Course credits} \times \text{Grade points obtained}) \text{ of a Semester}}{\sum (\text{Course credits}) \text{ of respective Semester}} \quad \frac{\sum (\text{Grade points}) \text{ of respective Semester)} \text{ of all Semesters}}{\sum (\text{Course credits}) \text{ of all Semesters}}$$

For example : Suppose in a given semester a student has registered for five courses having credits C1, C2, C3, C4, C5 and his / her grade points in those courses are G1, G2, G3, G4, G5 respectively,

Then the SGPA would be

$$\text{SGPA} = \frac{C1G1 + C2G2 + C3G3 + C4G4 + C5G5}{C1 + C2 + C3 + C4 + C5}$$

CBCS R.
B. Arch10.

Rules for A.T.K.T.

- a) A student can be admitted for the third semester if he/she earns minimum **50%** credits of the total of first and second semester.
- b) A student can be admitted for the fifth semester if he/she earns minimum **50%** credits of the total of third and fourth semester and all the credits (**100%**) of the first and second semester and passing grade of aggregate for first year.
- c) A student can be admitted for the seventh semester if he/she earns minimum **50%** credits of the total of the fifth and sixth semesters and all the credits (**100%**) of the third and fourth semesters and passing grade of aggregate for second year.
- d) A student can be admitted for the ninth semester if he/she earns minimum **50%** credits of the total of seventh and eighth semester and all the credits (**100%**) of the fifth and sixth semester and passing grade of aggregate for third year.
- e) A student would be awarded B.Arch. only if he/she earns 259 (100%) credits and clears all the courses specified in the syllabus and gets passing grade of aggregate.
- f) A candidate should obtain **50%** credits in each Year in order to advance for next year and the aggregate head should be considered as separate passing head.
- g) Prerequisite for appearing in examination:

Sr. No	Appear for Examination in	Passing grades to be obtained in
1	Architectural Design -III	Architectural Design –I (SV)
2	Architectural Design –IV	Architectural Design –II (SV)
3	Architectural Design –V	Architectural Design –III (SV)
4	Architectural Design –VI	Architectural Design –IV (SV)
5	Architectural Design -VII	Architectural Design –V (SV)

	SV : (Internal Sessional & Viva Exam)
CBCS R. B. Arch11.	If the students passes all heads of passing but if his aggregate is below 50%, student will have to appear for improvement with maximum four passing heads. “The class will be awarded for the Bachelor of Architecture course on the basis of actual number of marks obtained irrespective of Number of attempts.”
CBCS R. B. Arch12.	A student who has passed the qualifying examinations and is eligible for admission only to the corresponding next higher examination as an Ex-Student or an external candidate or attended the course in the Institution, shall be examined in accordance with the syllabus of such next higher examination in force at the time of such examination subjects, papers or combination of papers in which students from University Departments or Institution are to be examined by the University.
CBCS R. B. Arch13.	No person shall be admitted to an examination if he has already passed the same examination or an equivalent examination of any other statutory University.
CBCS R. B. Arch14	In revised syllabus , there is no Final Year Part-I and Part-II, Hence, not applicable.
CBCS R. B. Arch 15	<u>Other Rules</u> a) Academic Year will consist of Two Semesters of 90 days each. Sessional work/term-work prepared by the students shall be continuously assessed by the Internal teacher throughout the Semester. b)The candidate will be permitted to appear for examination at the end of each semester only if he /she is certified from Principal for: i)75% attendance in each head of passing of Theory and /or Sessional work as prescribed by the University Syllabus ii) Completion of the Sessional work prescribed for each subject and secured at least 50% credits in the Internal Sessional. c) Marks for internal Sessional and Viva exam will be submitted at the same time.

FIRST YEAR ARCHITECTURE ENGINEERING – CBCS PATTERN

SEMESTER - I																					
Sr. No	Course (Subject Title)	TEACHING SCHEME									EXAMINATION SCHEME										
		THEORY			TUTORIAL			PRACTICAL/STUDIO			THEORY					VIVA-VOCE			TERM WORK		
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Studios	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min
1	PC – 101	1	1	1	-	-	-	1	3	3	As per BOS Guidelines							3	100	50	
2	PC – 102	1	1	1	-	-	-	1	3	3									3	50	25
3	PC – 103 **	1	1	1	-	-	-	9	6	6							100	45	6	100	50
4	PC – 104 **	2	2	2	-	-	-					2	ESE	50	50	23				50	25
5	BS & AE – 105	1	1	1	-	-	-	2	3	3		2	ESE	50	50	23			3	50	25
6	BS & AE – 106 **	3	3	3	-	-	-					3	ESE	80	80	36				20	10
7	PC – 107	-	-	-	-	-	-	1	2	2			-	-	-	-			2	50	25
8	SEC - 108	2	2	2	-	-	-	-	-	-			-	-	-	-			-	50	25
9	SEC – 109	1	1	1	-	-	-	1	1	1			-	-	-	-			1	50	25
	TOTAL	10	10	10	-	-	-	17	20	20					180				20	520	260
SEMESTER –II																					
1	PC – 201	1	1	1	-	-	-	1	3	3								3	100	50	
2	PC – 202	1	1	1	-	-	-	1	3	3		3	ESE	100	100	45			3	50	25
3	PC – 203 **	1	1	1	-	-	-	9	6	6							100	45	6	100	50
4	PC – 204 **	2	2	2	-	-	-					2	ESE	50	50	23				50	25
5	BS & AE – 205 *	1	1	1	-	-	-	2	3	3		3	ESE	100	100	45	100	45	3	50	25
6	BS & AE – 206 **	3	3	3	-	-	-					3	ESE	80	80	36				20	10

7	PC – 207				-	-	-	1	2	2							2	50	25
8	SEC - 208	2	2	2	-	-	-	-	-	-								50	25
9	SEC - 209	1	1	1	-	-	-	1	1	1							1	50	25
	TOTAL	10	10	10				17	20	20			330		300			520	260
	TOTAL	20	20	20				34	40	40			510		300			1040	

CIE- Continuous Internal Evaluation ESE – End Semester Examination

• Candidate contact hours per week : 30 Hours(Minimum)	• Total Marks for B.Arch.-I;Sem I & II :1850
• Theory/Tutorial Duration : 60 Minutes and Practical Duration : 60Minutes	• Total Credits for B.Arch.-I (Semester I & II) :54
• There shall be separate passing for theory and practical (term work)courses.	
• Sem I - SSC : Soft Skill Course : There shall be an additional compulsory course of 2 Credits (Self Study) for a course of Democracy, Elections and Good Governance which will not included in total Credits	
• Sem II - SSC : Soft Skill Course : Any one from following (i) to (v) (2 Credits) (SelfStudy) i) Business Communication & Presentation ii) Event management iii) Personality Development, iv) Yoga & Physical Management v) Resume, Report & proposalwriting	

• SECOND YEAR ARCHITECTURE ENGINEERING – CBCSPATTERN

SEMESTER – III																						
Sr. No	Course (Subject Title)	TEACHING SCHEME									EXAMINATION SCHEME											
		THEORY			TUTORIAL			PRACTICAL/STUDIO			THEORY					VIVA-VOCE			TERM WORK			
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min	
1	PC - 301	1	1	1				1	3	3					As per BOS Guidelines			3	50	25		
2	PE – 302	1	1	1				1	1	1								1	100	50		
3	PC – 303 **	1	1	1				9	6	6							100	45	6	100	50	
4	BS & AE – 304 *	1	1	1				2	3	3	3	ESE	80	80		36		100	45	3	70	35
5	BS & AE – 305 **	3	3	3							3	ESE	80	80		36				20	10	
6	PC - 306 **	1	1	1				1	2	2	3	ESE	80	80		36				2	20	10
7	BS & AE – 307	1	1	1				1	2	2	3	ESE	100	100		45				2	50	25
8	BS & AE – 308	2	2	2							2	ESE	50	50		23					50	25
9	BA & AE – 309	2	2	2																		
	TOTAL	13	13	13				15	17	17				390			200			460		
SEMESTER – IV																						
1	PC – 401	1	1	1				1	3	3					As per BOS Guidelines			3	100	50		
2	PE – 402	1	1	1				1	1	1								1	100	50		
3	PC – 403 **	1	1	1				9	6	6	9	ESE	100	100		45	100	45	6	100	50	
4	BS & AE – 404 *	1	1	1				2	3	3	3	ESE	80	80		36	100	45	3	70	35	

5	BS & AE – 405 **	3	3	3							3	ESE	80	80	36				20	10	
6		1	1	1				1	2	2		CIE					50	23	2	50	25
	BS & AE – 406											ESE									
7	PC – 407 **	1	1	1				1	2	2	3	ESE	80	80	36		-		2	20	10
8	BS & AE – 408	2	2	2							2	ESE	50	50	23		-			50	25
9	BA & AE – 409	2	2	2							3	ESE	70	70	32	-	-			30	15
	TOTAL	13	13	13				15	17	17				460			250			540	
	TOTAL	26	26	26				30	34	34				850			450			1000	

CIE- Continuous Internal Evaluation
ESE – End Semester Examination

PROFESSIONAL ELECTIVE-I

Sr. No.	Name of the Subject	Name of the concern Branch
01	Art Appreciation - I	
02	Art in Architecture – I	
03	Graphic and Product Design - I	

PROFESSIONAL ELECTIVE-II

Sr. No.	Name of the Subject	Name of the concern Branch
01	Art Appreciation – II	
02	Art in Architecture – II	
03	Graphic and Product Design - II	

• Candidate contact hours per week : 30 Hours(Minimum)	• Total Marks for B.Arch.-II;Sem III & IV :2300
• Theory/Tutorial Duration : 60 Minutes and Studio Duration : 60 Minutes	• Total Credits for B.Arch.-II (Semester III & IV) :56
• There shall be separate passing for theory and practical (term work)courses.	

THIRD YEAR ARCHITECTURE ENGINEERING – CBCS PATTERN

SEMESTER –V																					
Sr. No	Course (Subject Title)	TEACHING SCHEME									EXAMINATION SCHEME										
		THEORY			TUTORIAL			PRACTICAL/STUDIO			THEORY					VIVA-VOCE			TERM WORK		
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min
1	PC – 501**	1	1	1				9	6	6					As per BOS Guidelines	100	45	6	100	50	
2	BS & AE – 502 *	1	1	1				2	3	3	3	ESE	80	80		36	100	45	3	70	35
3	BS & AE – 503 **	3	3	3							3	ESE	80	80		36				20	10
4	PC – 504 **	1	1	1				1	2	2	3	ESE	80	80		36			2	20	10
5	PC – 505 **	1	1	1				1	2	2	3	ESE	80	80		36			2	20	10
6	BS & AE – 506	1	1	1				1	2	2	2	ESE	50	50		23			2	50	25
7	PC – 507	1	1	1				2	3	3		-	-	-		-			3	50	25
8	PC – 508	1	1	1				1	2	2	2	ESE	50	50		23			2	50	25
	TOTAL	10	10	10				17	20	20	420					200			380		
SEMESTER –VI																					
1	PC – 601 **	1	1	1				9	6	6	12	ESE	100	100	45	As per BOS Guidelines	100	45	6	100	50
2	BS & AE - 602 *	1	1	1				2	3	3	4	ESE	80	80	36		100	45	3	70	35
3	BS & AE - 603 **	3	3	3							3	ESE	80	80	36					20	10
4	PC - 604 **	1	1	1				1	2	2		ESE	80	80	36				2	20	10
5	PC – 605 **	1	1	1				1	2	2		ESE	80	80	36				2	20	10
6	BS & AE – 606	1	1	1				1	2	2		ESE	50	50	23				2	50	25
7	PC – 607	1	1	1				2	3	3							100	45	3	50	25

8	PE – 608	1	1	1				1	2	2							50	23	2	50	25
9	BS & AE - 609	3	3	3								ESE	80	80	36					20	10
	TOTAL	13	13	13				17	20	20		550					350	400			
	TOTAL	23	23	23				34	40	40		970					550	780			

CIE- Continuous Internal Evaluation
ESE – End Semester Examination

* Means combine passing for external oral & theory paper

** Means combine passing for internal term work & theory paper & external oral as applicable.

One lecture means period of One Hour (60 Minutes) and One Studio means studio period of One Hour (60 Minutes)

- One lecture means period of One Hour (60 Minutes) and One Studio means studio period of One Hour (60Minutes)
- Per Semester Periods per week –30
- Total week – 15 weeks per semester

• Candidate contact hours per week : 30 Hours(Minimum)	• Total Marks for B.Arch.-III;Sem V & VI : 2300
• Theory/Tutorial Duration : 60 Minutes and Practical Duration : 60 Minutes	• Total Credits for B.Arch.-III (Semester V & VI): 57
• There shall be separate passing for theory and practical (term work)courses.	

FOURTH YEAR ARCHITECTURE ENGINEERING – CBCS PATTERN

SEMESTER –VII																						
Sr. No	Course (Subject Title)	TEACHING SCHEME									EXAMINATION SCHEME											
		THEORY			TUTORIAL			PRACTICAL/STUDIO			THEORY					VIVA-VOCE			TERM WORK			
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min	
1	PC – 701 **	1	1	1				9	6	6	3					As per BOS Guidelines	100	45	6	100	50	
2	PC - 702	1	1	1				2	3	3								100	45	3	100	50
3	PC-703	1	1	1				2	3	3		ESE	100	100	45		50	23	3	50	25	
4	BS & AE – 704	3	3	3								ESE	100	100	45					50	25	
5	PE – 705 **	1	1	1				1	2	2		ESE	100	100	45				2	50	25	
6	PAECC – 706	1	1	1				1	2	2		ESE	50	50	23				2	50	25	
7	PE – 707	1	1	1				1	2	2		-	-	-	-		50	23	2	50	25	
8	PE – 708	1	1	1				1	2	2							50	23	2	50	25	
	TOTAL	10	10	10				17	20	20			350			350			500			
SEMESTER –VIII																						
1	PAECC - 801							15	90 working days Training								100	45		100	50	
	TOTAL							15									100			100		
	TOTAL	10	10	10				32						350		450			600			

* Means combine passing for external oral & theory paper

** Means combine passing for internal term work & theory paper & external oral as applicable.

One lecture means period of One Hour (60 Minutes) and One Studio means studio period of One Hour (60 Minutes)

- One lecture means period of One Hour (60 Minutes) and One Studio means studio period of One Hour (60Minutes)
- Per Semester Periods per week –30
- Total week – 15 weeks per semester

CIE- Continuous Internal Evaluation ESE – End Semester Examination

• Candidate contact hours per week : 30 Hours(Minimum)	• Total Marks for B.Arch.-IV;Sem VII & VIII : 1400
• Theory/Tutorial Duration : 60 Minutes and Practical Duration : 60 Minutes	• Total Credits for B.Arch.-IV (Semester VI I& VIII) : 42
• There shall be separate passing for theory and practical (term work)courses.	

FINAL YEAR ARCHITECTURE ENGINEERING – CBCS PATTERN

SEMESTER – IX																						
Sr. No	Course (Subject Title)	TEACHING SCHEME									EXAMINATION SCHEME											
		THEORY			TUTORIAL			PRACTICAL/STUDIO			THEORY					VIVA-VOCE			TERM WORK			
		Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Credits	No. of Lecture	Hours	Hours	Mode	Marks	Total Marks	Min	Hours	Max	Min	Hours	Max	Min	
1	PC – 901 **	1	1	1				9	6	6	18	ESE	100	100	45	As per BOS Guidelines	100	45	6	100	50	
2	PC - 902	2	2	2				3	6	6							100	45	6	50	25	
3	BS & AE - 903	3	3	3				-	-	-	3	ESE	100	100	45					50	25	
4	PAECC – 904	3	3	3							3	ESE	100	100	45					50	25	
5	BS & AE – 905	1	1	1				1	2	2	3	ESE	100	100	45					50	25	
6	PE – 906	1	1	1				1	2	2							50	23	2	50	25	
7	PE – 905	1	1	1				1	2	2							50	23	2	50	25	
	TOTAL	12	12	12				15	18	18				400			300			400		
SEMESTER – X																						
1	PC – 1001	02	02	02				12	8	8						As per BOS Guidelines	200	90	8	200	100	
2	BS & AE - 1002	01	01	01				2	3	3	4	ESE	100	100	45		100	45	3	100	50	
3	PE- 1003	01	01	01				1	3	3							50	23	3	50	25	
4	PE - 1004	01	01	01				1	3	3							50	23	3	50	25	
5	SEC - 1005	02	02	02													50	23		50	25	
	TOTAL	07	07	07				16	17	17				100			450			450		
	TOTAL	19	19	19				31	35	35				500			750			850		

CIE-Continuous Internal Evaluation ESE – End Semester Examination

* Means combine passing for external oral & theory paper

** Means combine passing for internal term work & theory paper & external oral as applicable.

One lecture means period of One Hour (60 Minutes) and One Studio means studio period of One Hour (60 Minutes)

- One lecture means period of One Hour (60 Minutes) and One Studio means studio period of One Hour (60Minutes)
- Per Semester Periods per week –30
- Total week – 15 weeks per semester

• Candidate contact hours per week : 30 Hours(Minimum)	• Total Marks for B.Arch.-V;Sem IX & X : 2100
• Theory/Tutorial Duration : 60 Minutes and Practical Duration : 60 Minutes	• Total Credits for B.Arch.-V (Semester IX& X) : 50
• There shall be separate passing for theory and practical (term work)courses.	

COURSE CODE AND DEFINITION

Semester I

Sr. No	Code No.	Subject	Credits
1.	PC – 101	Aesthetics & visual arts – I	2
2.	PC – 102	Graphics – I	2
3.	PC – 103	**Architectural Design – I	10
4.	PC – 104	** Human Settlement & History of Civilization	2
5.	BS & AE – 105	Building Construction & Material – I	3
6.	BS & AE – 106	** Theory of Structure – I	3
7.	PC – 107	Workshop – I	1
8.	SEC - 108	Communication Skills – I	2
9.	SEC – 109	Computer Technology in Architecture - I	2

Semester II

Sr. No	Code No.	Subject	Credits
1.	PC – 201	Aesthetics & visual arts – II	2
2.	PC – 202	Graphics – II	2
3.	PC – 203	**Architectural Design – II	10
4.	PC – 204	** Human Settlement & History of Civilization	2
5.	BS & AE – 205	* Building Construction & Material – II	3
6.	BS & AE – 206	** Theory of Structure – II	3
7.	PC – 207	Workshop – II	1
8.	SEC - 208	Communication Skills – II	2
9.	SEC - 209	Computer Technology in Architecture - II	2

'Semester III

Sr. No	Code No.	Subject	Credits
1.	PC - 301	Graphics – III	2
2.	PE – 302	Elective – I	2
3.	PC – 303	**Architectural Design – III	10
4.	BS & AE – 304	* Building Construction & Material – III	3
5.	BS & AE – 305	** Theory of Structure – III	3
6.	PC - 306	History of Architecture	2
7.	BS & AE – 307	Climatology & Architecture	2
8.	BS & AE – 308	Building Services – I	2
9.	BA & AE – 309	Environmental Studies	2

Semester IV

Sr. No	Code No.	Subject	Credits
1.	PC – 401	Graphics – IV	2
2.	PE – 402	Elective – II	2
3.	PC – 403	**Architectural Design – IV	10
4.	BS & AE – 404	* Building Construction & Material – IV	3
5.	BS & AE – 405	** Theory of Structure – IV	3
6.	BS & AE – 406	Surveying & Leveling	2
7.	PC – 407	History of Architecture	2
8.	BS & AE – 408	Building Services – II	2
9.	BA & AE – 409	Environmental Studies	2

Semester V

Sr. No	Code No.	Subject	Credits
1.	PC – 501	** Architectural Design – IV	10
2.	BS & AE – 502	* Building Construction & Material – IV	3
3.	BS & AE – 503	** Theory of Structure – IV	3
4.	PC – 504	** History of Architecture – II	2
5.	PC – 505	** Estimation Costing & Specification – II	2
6.	BS & AE – 506	Building Services – IV	2
7.	PC – 507	Working Drawing – II Arch, Graphics & Drawing	3
8.	PC – 508	Landscape Architecture Landscape Design	2

Semester VI

Sr. No	Code No.	Subject	Credits
1.	PC – 601	** Architectural Design – VI	10
2.	BS & AE -602	* Building Construction & Material – VI	3
3.	BS & AE -603	** Theory of Structure –VI	3
4.	PC - 604	** History of Architecture – IV	2
5.	PC – 605	** Estimation Costing & Specification – II	2
6.	BS & AE – 606	Building Services – IV	2
7.	PC – 607	Working Drawing – II Arch, Graphics & Drawing	3
8.	PE – 608	Interior Design	2
9.	BS & AE - 609	Acoustics	3

Semester VII

Sr. No	Code No.	Subject	Credits
1.	PC – 701	** Advanced Architectural Design - I	10
2.	PC-702	Environmental Planning & Urban Design	3
3.	PC - 703	Advanced Building Specification Valuation and Project Management System	3
4.	BS & AE – 704	Advanced Structure – I	3
5.	PE – 705	Urban and Regional Planning	2
6.	PAECC – 706	Research Methodology	2
7.	PE – 707	Elective – IV	2
8.	PE – 708	Elective - V	2

Semester VIII

Sr. No	Code No.	Subject	Credits
1.	PAECC – 801	Practical Training and Report	15

Semester IX

Sr. No	Code No.	Subject	Credits
1.	PC – 901	**Advanced Architectural Design - 2	10
2.	PC - 902	Architectural Project 1 + 2 (Synopsis, Literature Review, Data Collection)	5
3.	BS & AE-903	Advanced Structures -II	3
4.	PAECC-904	Professional Practice and Building Bye-Laws	3
5.	BS & AE-905	Advanced Services	2
6.	PE – 906	Elective – VI	2
7.	PE – 907	Elective - VII	2

Semester X

Sr. No	Code No.	Subject	Credits
1.	PC – 1001	Architectural Project III Case Study/Site/Final Design and Presentation Drawing / Report	14
2.	BS & AE - 1002	Advanced Building Construction	3
3.	PE- 1003	Elective – VIII	2
4.	PE - 1004	Elective - IX	2
5.	SEC - 1006	Entrepreneurship Skills for Architects	2

ABBREVIATIONS :-

PC PROFESSIONAL CORE

BS&AE BUILDING SCIENCES AND APPLIED ENGINEERING

EC ELECTIVE COURSE

PE PROFESSIONAL ELECTIVE

OE OPEN ELECTIVE

PAECC PROFESSIONAL ABILITY ENHANCEMENT COMPULSORY COURSES

SEC SKILL ENHANCEMENT COURSES

(PC-101)

SUBJECT: AESTHETICS AND VISUAL ARTS - I
SYLLABUS FOR SEM – ARCHITECTURE DEGREE COURSE

Lectures-	15	Paper	-	Sessional Work (Int.) – 100
Studio -	45	Duration	-	Oral (Ext.)-
Total -	60			Theory- -
Total Credit points-	2			Total- 100

COURSE INTRODUCTION

To know the status of cultural development of a nation, it is necessary for a person to study and evaluate the prevalent arts and its forms deeply and with keen interest.

The subject need study to know/ understand the glorious past of the nation in realm of History of Indian art. They could play the important role with their activities in such a way, that this cultural heritage would be more prosperous, so that in future, they and their contribution could be appreciated.

COURSE OBJECTIVES

- The objective of this subject Aesthetic and Visual arts is to familiarize the students with the various styles and modes of art expressions from different parts of India.
- This would enrich their vision and enable them to appreciate and develop an aesthetic sensibility to enjoy the beauty of nature and life and make the students aware of art as a human experience.
- The teachers should be able to expose them to the wide range of artistic impressions, the media and the tools used. Hence, the students should be acquainted with brief glimpses of the development of Indian visual art as required for concept formation

COURSE OUTCOMES

- To develop skill using drawing and painting material (Surface, tools and equipments etc) effectively and sharpen their observation skills through study of common objects and various geometrical and non geometrical forms found in life and nature.

- To develop an understanding of painting composition(The use of elements and principles of paint- composition)and to express the different feeling and moods of life and nature in lines, forms and colors .Introduce students to the various Art technique methods and materials for adequate result.

COURSE CONTENT

UNIT 1 : PAINTING

(MARKS:30)

Rajasthani and Pahari. School, Mughal and Deccan. Schools, Bengal school and modern trends in Indian art.

UNIT 2 : GRAPHIC

(MARKS:20)

* Six limbs of Indian painting and fundamentals of visual arts (Elements and principle) Graphics -print of understanding through serigraphy, lithography,/itching, and engraving(Intaglis process)[short history and methods and materials used in]

UNIT 3: SCULPTURE

(MARKS:20)

Understanding Indian rich cultural heritage from the period of Indus Valley to the present time through modeling in relief and modeling in round.

UNIT 4: APPLIED ART.

(MARKS:30)

Understanding history of applied art, its classification, emerging fields like advertising and design ,which included book, magazine, illustrations, poster, postcards, labels and publicity materials et

SESSIONAL WORK/ ASSIGNMENT WORK:

Unit 1:

- Assignment in the form of notes on Indian Art History
- Prepare sheets (2 to 3 only) based on Indian Art History

Unit 2:

- Notes on the subject
- Assignment based on handling the material and technique of printmaking

Unit 3:

- Modeling in relief Make a sculpture in relief
- Modeling in round. Prepare a sculpture in round in clay medium
- Subjects may include nature, study, design, natural, decorative, stylized, and geometrical. Family, friends and daily life, birds and animals, etc

Unit 4:

- Illustration

Study of techniques of illustration on given subjects and simple situations, supported by drawing from life and outdoor sketching. In different media suitable for printing.

- Poster

Making a poster with specified data and slogan on a given subject.

Reference Books -

1. Ching, Francis D.K. – Architecture: Form, Space, and Order
2. Halse, Albert O. – Architectural Rendering
3. Parmar, V.S. – Design Fundamentals in Architecture
4. Arnheim, Rudolf – Art and Visual Perception
5. Wong, Wucius – Principles of Two-Dimensional Design

(PC-102)

SUBJECT: GRAPHICS - I

SYLLABUS FOR SEM – ARCHITECTURE DEGREE COURSE

Lectures- 15	Lectures- 15	Lectures- 15
Studio - 45	Studio - 45	Studio - 45
Total- 60	Total- 60	Total- 60
Total Credit points- 2	Total Credit points- 2	Total Credit points- 2

COURSE INTRODUCTION

This course introduces students to the fundamental skills required for architectural drafting and technical drawing. It covers the use of basic drafting tools, lettering techniques, and symbolic representation of building materials and elements. Students will develop freehand sketching abilities using various media to enhance visual communication. The course also explains metric scales and their application in architectural drawings. It provides thorough training in orthographic projection, including drawing of points, lines, planes, and solids using the first-angle method. Also students learn solid geometry to understand the transformation of 3D objects into 2D drawings. The curriculum concludes with measured drawing exercises of small rooms and furniture to build accuracy and observation skills essential for architectural practice.

COURSE OBJECTIVE

1. To develop skills of using architectural drafting tools, lettering techniques, and symbolic representation standards.
2. To build the ability to produce clear freehand sketches and presentation drawings using various media.
3. To understand and apply metric scales and orthographic projection methods for accurate architectural drawings.
4. To acquire skills in transforming 3D forms into 2D drawings and preparing measured drawings of rooms and small furniture.

COURSE OUTCOMES (COs)

At the end of the course:--

CO1: Students will be able to use drafting tools, lettering techniques, and symbolic representations accurately in architectural drawings.

CO2: Students will be able to prepare freehand sketches using different media for effective visual communication.

CO3: Students will be able to apply metric scales and conversions to produce architectural drawings in correct proportions and sizes.

CO4: Students will be able to generate orthographic projections, solid geometry drawings, and measured drawings of rooms and furniture with precision.

COURSE CONTENTS

UNIT 01– Basic Drafting Tools, Lettering & Symbolic Representation (5 Marks)

- 1) Introduction & use of drawing instruments such as drawing board set-squares tee-square French curve, stencils, sizes of sheet,
- 2) Different types of pencils and pens and their uses.
- 3) Lettering size (heading, sub-heading, normal lettering) and notation & uses of lines in drawing (thick, thin, section, centre, dashed continuation/break lines. dimensions styles like architectural tick, filled dot, arrow filled arrow etc.)
- 4) Symbolic representation of building elements and material (brick, stone, concrete P.C.C, R.C.C, timber, insulation, earth, glass, plaster, dado work, single & double swing door, window & ventilator, north.

UNIT 02 – Freehand Sketching & Presentation

(5 Marks)

- 1) Introduction of various media of drawing and presentation such as pencil, charcoal crayon, water colour, sketch pens, inks etc. and exercise using all these media. Freehand sketching using different media mentioned above.

UNIT 03- Metric Scale

(5 Marks)

- 1) Need of scale in architecture drawing.

- 2) Scale drawing such as full size scale (1:1), drawing enlarge scale (1:10, 1:20, 1:50,) & drawing reducing scale. (1:100, 1:200, 1:300, 1:400, 1:500, 1:1000)
- 3) Use of metric scale for various purposes. Metric scale conversion (meter to cm, mm) & Metric area conversion (sq. meter to are, acre)

UNIT 04- Orthographic Projection/ Drawing

(15 Marks)

- 1) Introduction and understanding of plan, plain elevation and section.
- 2) orthographic projection (first angle method),
- 3) Projection on points, lines, planes, solids.

UNIT 05- Solid Geometry. (3D TO 2D Transformation

(15 Marks)

- 1) Solid geometry to explain the need of solid geometry in architectural drawings such as techniques of presenting 3D objects transformation to 2D drawing Exercise involving geometrical forms, presented in different positions & shape.

UNIT 06- Measured Drawings.

(05 Marks)

- 1) Measured drawing of small rooms, & furniture (like tables, cupboards, chair, stool)

SESSIONAL WORK/ ASSIGNMENT WORK:

Assignments should cover contents from all units; it is advised that each college clearly specify the unit's objectives as stated in the course materials. These outcomes need to be assessable through the following sessional work:--

1. A minimum of Six A1 drafted sheets for projection systems as mentioned in Unit3, 4, 5 are expected.
2. Freehand drawings sketches contents should be presented with various mediums like pencil, charcoal, crayon, water colour, sketch – pen & inks are to be sufficient in number along with lettering and annotations such as to ensure correct representation and control of hand.
3. Summative assignment based on Unit 6 should cover measured drawing with plan, section of room & small furniture unit plan, section, elevation of building using projection systems and annotations learnt.

Reference books:--

- Engineering Drawing: Plane and Solid Geometry – Bhatt, N.D. and Panchal V.M , Charotar Pub
- Engineering Drawing [Geometrical Drawing] – Gill, P.S., Dewan Suhil Kumar Kataria, Ludhiana
- Building Drawing: with an integrated approach to build environment – Shah, M.G., Kale, C.M. and Patki, S.Y., Tata McGraw-Hill Pub., Delhi, 2000.
- Principles of Three-Dimensional Design – Wucius Wong. Van Nostrand Reinhold Company.
- Any other learning resources as and when recommended by faculty.

(PC-103)**

SUBJECT: ARCHITECTURE DESIGN - I

SYLLABUS FOR SEM – ARCHITECTURE DEGREE COURSE

Lectures-	15	Paper	-	Sessional Work (Int.) –	100
Studio -	90	Duration	-	Oral (Ext.)-	100
Total -	105			Theory-	-
Total Credit points-	10			Total-	200**

COURSE INTRODUCTION

This an introductory course aimed at familiarizing students with the fundamentals of architectural design. The subject focuses on understanding architecture as a creative process that balances aesthetics, function, and technology. Students are introduced to the role of an architect, basic design elements and principles, human needs, spatial requirements, and environmental factors such as climate, orientation, and circulation.

Through the study and design of simple spaces and single-unit structures, students develop basic planning skills, spatial understanding, and design thinking. The course also emphasizes the importance of interior design and the relationship between human activities and built spaces, forming a strong foundation for advanced architectural design learning.

COURSE OBJECTIVES

- To introduce the basics of design, form, space, and order.
- To develop visual thinking, hand-drawing skills, and model-making abilities.
- To understand anthropometrics as the basis of all spatial design.
- To explore materials, textures, geometry, and light - shadow as design tools.
- To cultivate the ability to represent design with 2D drawings and 3D physical models.

COURSE OUTCOMES

- To create and articulate simple spatial compositions and volumes.
- To understand human scale and its implications in design.
- To translate conceptual ideas into sketches, diagrams, and models.
- To demonstrate basic competency in architectural representation techniques.
- To exhibit creative thinking through spatial experiments.

COURSE CONTENT

Unit 1: Introduction to Architecture

(20 Marks)

- What is Architecture?
- Understanding architecture as a built environment responding to human needs, functions & context
- Study of architectural profession, roles & scope of services in practice.

Unit 2: Elements & Principles of Design & Study of Form - Spaces

(20 Marks)

- Study of design elements (points, line, plane, form, texture, colour) in architecture design & its application.
- Study of design principles (balance, rhythm, harmony, proportion) in architecture design & its application.
- Understanding form – spaces relationship through 2D & 3D compositions.

Unit 3: Anthropometry & Ergonomics

(20 Marks)

- Study of human measurements & their relationship to spatial requirements in architecture in accordance to residential spaces.
- Understanding ergonomics principles for efficient & comfortable residential space design.

Unit 4: Approach to Design

(10 Marks)

- Understanding architectural design as an integration of function, aesthetics & construction technology.
- Study of basic building components & environmental factors influencing design.

Unit 5: Functional Space Design (25–30 Sq.m)

(30 Marks)

- Study of spatial organization & functional relationship in small scale residential built spaces.
- Understanding design development process from activity analysis to spatial form.

SESSIONAL WORK/ ASSIGNMENT WORK:

- Understanding architecture through case studies represent through sheets and writeup with sketches
- Representation of architect's role & services through writeup with sketches.
- Drawing representing & understanding the elements & principles through sketch exploration.
- Understanding through scaled human drawings showing different anthropometric (sleeping, cooking, dinning, bathing, studying). and ergonomics for residential activities (bedroom, kitchen counter, dining area, toilet spaces).

- Introduction to fundamental design concepts, including the development of ideas, functional zoning, and the preparation of key plans to understand circulation patterns and the organization of different activities within a space.
- Detailed study of individual residential activities—such as living spaces (including entrance lobby and verandah), kitchen and dining areas (with store and utility), and bedrooms (master bedroom, children’s bedroom, and toilets)—followed by the design of a space up to 25 sq.m. The process should include data collection based on anthropometry and ergonomics, relevant case studies, scaled drawings for concept development and zoning, and preparation of architectural drawings such as plans, sections, elevations, and drafted views.

Reference Books -

- 1) Time sever standards for building types – Latest Editions
- 2) Neufert- architects’ data – latest editions
- 3) Rendering with pen and ink / roberw.gill
- 4) Ching- fdk architecture form, van no standreinhold staff, new york – latest editions
- 5) Time saver standards for landscape architecture- latest edition

(PC–104)**

SUBJECT: HUMAN SETTLEMENT AND HISTORY OF CIVILIZATION-

I

SYLLABUS FOR SEM – ARCHITECTURE DEGREE COURSE

Lectures- 30	Paper - 01	Sessional Work (Int.) – 50
Studio - --	Duration - 02 hr	Oral (Ext.)- --
Total - 30		Theory- 50
Total Credit points - 02		Total- 100**

INTRODUCTION

The course Human Settlement and History of Civilization, Introduces students to the basic development of human settlements and early civilizations. It explains how people in different periods lived, built shelters, and organized their communities. The course begins with the prehistoric period and then covers important civilizations such as Mesopotamian, Nile Valley, Greek, Roman, Indus Valley, and Vedic. It focuses on how factors like climate, geography, culture, and economy influenced settlement patterns and architecture. Students learn about different building types, materials, and construction methods used in ancient times. The course also helps in understanding how religion and social systems affected the design of spaces. It helps students develop an interest in history and understand its connection with architecture. This, in turn, enhances their design thinking and supports more informed future practice.

COURSE OBJECTIVES

- To study the settlement and the History of Civilization from Prehistoric period and ancient period Civilization.
- To study Settlement pattern and architectural built from have the influence of geography, Geology, climate, socio-climate and religious aspect of that particular place, which emphasis the context of specific planning and design approach is required.
- To study Comparative study of various civilizations will give the appropriate guideline for the study of settlement and architecture.

COURSE OUTCOMES

- To Gain a structured understanding of Indian settlement evolution with parallel study of world settlement.
- To recognize the socio-cultural and geopolitical factors influencing architectural developments in different civilization.
- To understand development of settlement study in different era by studying different historical design and construction methods.

COURSE CONTENT

Unit 1: Prehistoric period

(10 Marks for Unit-1)

- Evolution of man, role of river in the development of settlement, relation in between Man and environment, rise of culture and religion, Stone Age , Bronze Age, Iron Age, Culture and Civilization.
- General features/influences of human settlement, factor responsible for the development of human settlement.

Unit 2: Nile valley civilization

(15 Marks for Unit-2 & 3)

- Influences of geography, geology, climate, socio-climate and religious aspect of that particular place.
- To study Architectural characters, Burial system, Egyptian Temple, Egyptian city (City of kahun) planning.

Unit 3: Mesopotamian civilization

- Influences of geography, geology, climate, socio-climate and religious aspect of that particular place.
- To study Architectural characters, city Babylon, City Ur, ziggurat, hanging Garden (Sumerian, Assyrian and Babylonian)

Unit 4: Greek civilization

(15 Marks for Unit-4 & 5)

- Influences of geography, geology, climate, socio-climate and religious aspect of that particular place.
- To study Architectural characters, Greek City Athens or any other Greek city

Unit 5: Roman civilization

- Influences of geography, geology, climate, socio-climate and religious aspect of that particular place.
- To study Architectural characters of Roman Cities and Roman Military town.

Unit 6: Indus valley civilization**(10 Marks for Unit-6 & 7)**

- Influences of geography, geology, climate, socio-climate and religious aspect of that particular place.
- To study Architectural characters, study of Mohenjo-Daro city Planning

Unit 7: Vedic civilization

- Influences of geography, geology, climate, socio-climate and religious aspect of that particular place.
- To study Architectural characters of Vedic Village.

SESSIONAL WORK / ASSIGNMENT WORK

1. Preparation of a comprehensive question bank related to the prescribed topics, along with active participation in seminar activities.
2. Sketching exercises shall be aligned with the lecture notes and must be executed neatly on A3 or A4 sized sheets.
3. Seminars will be conducted periodically to assess and enhance students' understanding of the subject matter.
4. Periodic class tests shall be conducted to evaluate academic progress and learning outcomes

Reference Book s -

1. A History of World Civilization -By James Edger Swain, Ph.D.
2. Davies: An Outline history of the world-H. A. Davies, MA
3. Town Planning – Abir Bandopadhyay
4. Town Planning – G. K. Hiraskar
5. The urban pattern – city planning and Design-Arthur B. Gallion FAIA
6. Simon Eisner, AICP
7. Sir Banister Fletcher's- A history of architecture - Revised by J. C. Palmes
8. The Great Ages of World Architecture – G. K. Hiraskar
9. Human settlement- A planning guide to beginners-K. R. Thooyavan
10. Indian architecture -Vedula V L N Murthy.

* Means combine passing for external oral & theory paper.

** Means combine passing for internal term work & theory paper & external oral as applicable

(BS &AE- 105)

SUBJECT: BUILDING CONSTRUCTION AND MATERIAL – I SYLLABUS FOR SEM – ARCHITECTURE DEGREE COURSE

Lectures - 15	Paper - 01	Sessional Work (Int.) -50
Studio - 45	Duration- 2 hrs.	Oral (Ext.) -
Total - 60		Theory - 50
Total Credit points- 3		Total - 100

COURSE INTRODUCTION

This course provides fundamental knowledge of building materials and construction practices used in the building industry. Students will study various materials such as soil, bricks, sand, stone, and bamboo, focusing on their properties, classification, tests, and applications in construction. The course also covers structural systems, foundations, brick and stone masonry techniques, lintels, chajjas, finishes, and scaffolding. Practical understanding is strengthened through studio sessions, neat sketches, and detailed drawing sheets. By the end of the course, students will gain the essential skills needed to identify materials, understand construction methods, and prepare basic construction drawings for building works.

COURSE OBJECTIVE

1. To develop knowledge of basic construction materials such as soil, sand, and brick, including their properties, classifications, applications, as per ISI standards.
2. To understand the principles of building construction, including types of structures, foundations, brick masonry, stone masonry, lintels, chajjas, and paving.
3. To build skills in identifying, selecting, and applying appropriate construction techniques such as masonry bonds, piers, joints, finishing methods, and scaffolding systems used in building works.
4. To introduce sustainable building materials and methods, specifically focusing on the use of bamboo as a structural element, along with its construction details and practical applications.

COURSE OUTCOMES (COs)

At the end of the course the student should be able to:

CO1: Students will be able to explain and differentiate various building structures, foundations, masonry types, and stonework.

CO2: *Students will understand the basic materials used in construction soil, bricks, and sand including their types, properties, tests, and applications.*

CO3: Students will understand and apply finishing techniques, scaffolding methods, and bamboo construction elements in building works.

CO4: Students will develop skills to construct and draw brick, stone, lintel, chajja, block wall, and paving details as per standard construction practices.

COURSE CONTENTS

SECTION –I---MATERIALS (25 Marks)

Unit -1. Soil (7 Marks)

- 1) Different types soils and their origin.
- 2) Physical properties soil and effect of weather, water, temperature etc. On different types of soil.
- 3) Bearing capacity soils and their role in building foundations.

Unit -2. Brick (11 Marks)

- 1) Composition of earths for manufacturing of bricks.
- 2) Qualities & Classification of brunt clay brick, factors affecting qualities of brunt clay brick.
- 3) Test for brunt clay brick bricks & Different uses of brunt clay brick in construction.
- 4) Standard market sizes & basic information of traditional clay brick, clay block brick, fly ash brick, (AAC) Siporex Blocks/brick. Sun dried brick, wire cut brick; other special types of bricks.

Unit -3. Sand (7 Marks)

- 1) Types of sand Pit, river sea sand, gravel.
- 2) Bulking of sand & properties of good sand.
- 3) Function of sand in mortar and concrete.

- 4) Classification of natural sand with respective size and their application.
- 5) Different types of artificial sand available in market with respective size and their application.

SECTION –II---CONSTRUCTION (75 Marks)

Unit -1. Types of structure (5 Marks)

- 1) Load bearing structure and framed structure. (explain element of both structure & difference)

Unit -2. Foundation (10 Marks)

- 1) Objective of foundation & details of internal & external load bearing walls foundation.
- 2) Foundation for piers /pillars in brick and stones.
- 3) Foundation in black cotton soil for load bearing and R.C.C structure (only for g+1 structure.)

Unit -3 Brick masonry (25 Marks)

- 1) Masonry Tools and equipment's use in brick masonry.
- 2) Types of brick used in English and Flemish like king and queen closer, bats, single & double bull nose etc.
- 3) English and Flemish bond in straight line for stopped end, corner, tee up to thickness on two brick thick wall and its combinations, cross junctions only introduction.
- 4) Attached and detached piers.
- 5) Buttresses, pilasters, brick on edge wall, expansion joint in masonry compound wall.

Unit -4 Stone masonry (10 Marks)

- 2) Types of stone masonry such as ashlar and rubble with their different types & other types of stone masonry
- 3) Various types of stone dressing, various types stone joint such as plain, bevelled, rebated dowel, cramp joints.
- 4) Through stones, various composites wall in brick and stone, compound walls.

Unit -5. Lintels and Chajja, block wall & paving. (10 Marks)

- 1) Types of lintels 1.R.C.C with chajja, 2. Steel, 3. Brick, 4. Wooden & 5. Stone.
- 2) Hollow, solid concrete block wall. Brick and stone paving.

Unit -6. Finishes and Introduction of Bamboo

(15 Marks)

- 1) Plastering, sand faced, Neeru finish and other finishing types,
- 2) Various types of pointing.
- 3) Use of scaffolding, single and double scaffolding for masonry work, bamboo, timber and tubular scaffolding.
- 4) Bamboo as a Building Element and its Construction details.

SESSIONAL WORK/ ASSIGNMENT WORK:

Assignments should cover contents from all units; it is advised that each college clearly specify the unit's objectives as stated in the course materials. These outcomes need to be assessable through the following sessional work:--

1. Assignments should be based on each unit in section I should cover notes with required neat sketches also to prepare market survey report for Unit 2
2. Assignments should be based on unit in section II should cover notes with required neat sketches also to prepare market survey report for Unit 6.
3. Minimum eight of manually drafted A1 size drawings covering units 2 to 5.

Reference books:--

- S C RANGWALA K. S. R. ENGINEERING MATERIALS MATERIAL SCIENCE. : CHAROTAR PUBLISHING HOUSE.
- Agarwal, B. K. (2007). Introduction to Engineering Materials. Tata McGraw Hill.
- S K DUGGAL N., BUILDING MATERIALS. : NEW AGE INTERNATIONAL PUB.
- Chudley, R. *Construction technology*. Longman, 1987.
- Kumar, Sushil, Building Construction Standard Publishers, New Delhi : 1988. - xiv
- W.B. McKay. Building Construction, Volume 2. Author Edition, 2. Publisher, Longman,
- Arora S.P. and Bindra S.P. "Building Construction, Planning Techniques and Materials of Construction". Dhanapat Rai and Sons.

(BS&AE—106)**

SUBJECT: THEORY OF STRUCTURE –I

SYLLABUS FOR FIRST SEM - ARCHITECTURE DEGREE COURSE

Lectures – 45	Paper - 01	Sessional Work (Int.) - 20
Studio - -	Duration- 03 hrs.	Oral (Ext.) - -
Total - 45		Theory - 80
Total Credit Points- 03		Total - 100**

Note: The passing in this subject requires min. 45% marks for theory paper, 50% for internal assessment and combined 50% of Total internal and theory paper.

COURSE INTRODUCTION

This course introduces the basic principles of structural mechanics, focusing on load transfer, forces, equilibrium, and structural behavior. Students learn about different structural systems, types of loads, support reactions, and analysis of simple members like beams. The course also covers fundamental concepts of moments and friction, forming a foundation for structural analysis and engineering applications.

COURSE OBJECTIVES

- To Introduce Applied Mechanics as an important Subject for Architecture.
- To Understand Different Systems of Forces and their Equilibrium and that a Building is a System of Forces in Equilibrium.
- To Introduce and Understand Concepts of Support, Support Reactions, Beams, Loads, Bending and Shear.

COURSE OUTCOMES

After completion of this course, students will be able to:

- Understand the importance of applied mechanics in architecture and its relevance to structural behaviour.

- Analyze different types of force systems and apply the conditions of equilibrium to analyze simple structures.
- Understand various types of supports, types of beam, and types of loads acting on beam & determine support reactions.
- Understand the principles of friction, including types and laws of dry friction, and apply them to solve problems involving blocks, wedges, and ladders.

COURSE CONTENT

Unit 1: Introduction to Structural Concepts and Its Scope in Architecture. (8 Marks)

- Concept of simple load bearing, framed structure & composite structure.
- Types of RC framed members—slabs, beams, arches, walls, columns, footing and truss members.
- Transfer of load path in load bearing and framed structural systems.

Unit 2 – Forces and Loads (20 Marks)

- Force: definition, characteristics and classification of forces.
- Loads: Dead load, live load, wind load, snow load, seismic load, conceptual idea and their impact on building as a whole, relevant IS Code.
- System of forces, composition and resolution of forces. Resultant and equilibrant of coplanar concurrent and non-concurrent force systems by analytical method.

Unit 3 – Equilibrium and Moment (20 Marks)

- Moments: moment of force, moment of couple, effect of couple, concept of static equilibrium. Lami's theorem, Equations of static equilibrium, free body diagram.

Unit 4: Support reactions (16 Marks)

- Types of beams, Loading and support conditions and their significance. Concept of point load and uniformly distributed load (UDL) & uniformly varying load (UVL) and determination of support reactions.

Unit 5: Friction (16 Marks)

- Types of friction, laws of dry friction, problems on block, wedge and ladder.

SESSIONAL WORK / ASSIGNMENT WORK

- **Unit 1:** Diagrammatic representation of load transfer and structural behavior. For various structural components. Estimation of dead and live loads for a room with small spans.
- **Unit 2:** Understanding forces, types of loads, and methods of resolving and analysing force systems. Problems on resolution and composition of forces.
- **Unit 3:** Concepts of moment, equilibrium, Lami's theorem, and free body diagrams. Problems on moment of force.
- **Unit 4:** Types of beams, loads, and support and problems on determining support reactions.
- **Unit 5:** Study of friction, its laws, and applications in block, wedge, and ladder problems.

REFERENCE BOOKS:

- Engineering Mechanics – RK Bansal and Sanjay Bansal, Laxmi publications, New Delhi.
- Engineering Mechanics - F.L. Singer, Harper Collins publications
- Mechanics of Solids – Dr. H. J. Shah
- Strength of Materials – S. Ramamrutham
- Strength of Materials- R. K. Bansal
- Theory of Structures- S. P. Gupta and G. S. Pandit
- Engineering Mechanics – RK Bansal and Sanjay Bansal
- Engineering Mechanics - F.L. Singer
- IS 875 (Part1 to 5): Code of Practice for Design Loads(Other than Earthquake) for Buildings and Structures, Bureau of Indian Standards (BIS).

* Means combine passing for external oral & theory paper.

** Means combine passing for internal term work & theory paper & external oral as applicable

(PC-107)

SUBJECT: ARCHITECTURE DESIGN - I
SYLLABUS FOR FIRST SEM- WORKSHOP I

Lectures-	Paper -	Sessional Work (Int.) – 50
Studio - 30	Duration -	Oral (Ext.)-
Total - 30		Theory- -
Total Credit points- 01		Total- 50

COURSE INTRODUCTION

This course introduces first-year architecture students to the basics of making, construction, and material exploration through hands-on workshop activities. It focuses on understanding masonry tools, materials, and construction techniques while developing practical skills in model-making and mock-ups.

Through experiential learning, students gain sensitivity towards materials, craftsmanship, and accuracy, forming a strong foundation for architectural design and construction.

COURSE OBJECTIVES

- To familiarize students with basic masonry tools, materials, and workshop equipment used in construction practices.
- To develop fundamental skills in handling, shaping, and assembling various materials through hands-on exercises.
- To cultivate an understanding of material properties, behavior, and their appropriate application in architectural contexts.
- To enhance craftsmanship, accuracy, and attention to detail in model-making and mock-up preparation.

COURSE OUTCOMES

- **CO1:** Identify basic masonry tools, materials, and workshop equipment and apply fundamental making and construction skills using various materials.
- **CO2:** Demonstrate craftsmanship, accuracy, and material sensitivity in models and mock-ups.

COURSE CONTENT

UNIT 1:

(10 Marks)

- Tool Identification & Safety Chart
- To familiarize students with basic workshop and masonry tools.
- Prepare a chart with sketches or photographs of tools.
- Mention name, use, and safety precautions.
- Correct identification and safe handling of tools.

UNIT2:

(20 Marks)

- Brick / Stone Masonry Exercise
- To understand basic construction techniques.
- Preparation of a small brick bond or stone masonry panel.
- Focus on alignment, joint thickness, and workmanship.
- Practical understanding of masonry construction and craftsmanship.

UNIT 3:

(10 Marks)

- Plaster & Texture Finish Sample
- To explore surface finishes and material behaviour.
- Preparation of plaster samples using different materials.
- Experimentation with textures and finishes.
- Knowledge of surface articulation and finish quality.

UNIT 4:

(10 Marks)

- Basic Architectural Model
- To introduce architectural model making.
- Creation of a basic massing or study model for studio work.
- Use of appropriate materials and scale.
- Development of model-making skills and spatial understanding.

SESSIONAL WORK/ ASSIGNMENT WORK:

Assignment 1: 10 Marks

- Tool Study and Representation
- Draw 8–10 tools with labels and functions.
- Create a simple visual chart showing tool usage.
- Submission: Sketch sheets + tool chart

Assignment 2: 10 Marks

- Material Exploration Sheets
- Prepare 3–4 A3 sheets exploring materials like clay, sand, brick, wood.
- Include texture rubbings, notes on properties, and uses in architecture.
- Submission: A3 sheets

Assignment 3: 10 Marks

- Clay Basics – Form and Surface
- Create simple geometric forms (cube, sphere, cylinder) using clay.
- Experiment with 2–3 surface textures.
- Submission: Clay models + process sketches

Assignment 4: 10 Marks

- Joinery and Assembly Exercise
- Create a small composition using cardboard/wood.
- Explore at least 3 types of joints (slot, fold, interlock, etc.).

REFERENCE BOOKS -

- John Taylor – Model Building for Architects and Engineers
- Rolf Janke – Architectural Models
- Feirer – Woodworking

(SEC – 108)

SUBJECT: Communication Skills -I

SYLLABUS FOR SEM – ARCHITECTURE DEGREE COURSE

Lectures- 30	Paper -	Sessional Work (Int.) – 50
Studio -	Duration -	Oral (Ext.)-
Total - 30		Theory- -
Total Credit points-		Total- 50

COURSE INTRODUCTION

The course English Communication skill is intended as an ability enhancing course for the first semester undergraduate students. It aims at providing students an insight into basics of communication skills in English. The basic function of the language is communication. Oral and written communication in English needs to be acquired by Students so as to increase their employability in the global market.

COURSE OBJECTIVES

- To make the Students confident of speaking in English impeccably and with utmost enthusiasm.
- Familiarize the students with different styles of communication.
- Who make the students understand the nuances of communication.

COURSE OUTCOMES

CO's 1. Develop knowledge, skills, and judgment around human communication that facilitate the ability to work collaboratively with others.

CO's 2. Understand and practice different techniques of communication.

CO's 3. Familiarize with different types of communication.

COURSE CONTENT

Unit -I Communication

(10marks)

- Introduction, definition, Need, Importance.
- Process of communication.
- Types of communication.
- Barriers to communication.

Unit -2 Techniques of Communication

(10marks)

Verbal communication.

- Self- introduction

- Writing skills

- Agenda

- SOP (For your college)

- Report writing.

(Reports on activities held in the college).

- Reading skills

- Essay writing

- Reading of newspaper,

- Reading of magazines or articles on Architecture.

(After reading magazines article, students have to write a review)

- Group Discussion

- Environment

- Pollution

- Student's Career etc

- Debate

Debate on current topics

Essays on current topics (Any two)

Unit -3 Eassy Writing

(10marks)

Descriptive Writing Techniques

- Current Topics

- As per Ocassion

- Social issues etc

(Minimum 3 essays)

Unit -4 Grammar

(10marks)

- Tenses, Voice

- Director and Indirect speech

- Tag Questions

- Removal of "too"

- Clauses.
- Simple, Compound and Complex sentences.

Unit -5 Correction of Common Errors

(10marks)

Assignment Based on All Units-(1-5)

- Notes -10 mrks
- Report Writing on activities held in College -10 mks
- Review on Magazine/Article -10 mks
- Essays on Current topics- 20 mks
- **(2 nos x10 mks=20 mks)**

SESSIONAL WORK/ ASSIGNMENT WORK:

Unit 1 Communication

(10 Marks)

- Introduction, definition, Need, Importance
- Process of communication
- Type of communication
- Barriers to communication

Unit 2 Techniques of communication

(10 Marks)

Verbal Communication

Self introduction

Writing skills

-Agenda

-SOP (for your college)

Report writing

(Reports on activities held in the college)

Reading skills

-Essay writing

-Reading news paper

Reading of magazines or articles on Architecture

(After reading magazine articles students have to write a review)

Group Discussion

-Environment

-Pollution

-Student's career etc

Debate

-Debate on current topics

-Essays on current topics

Unit 3 Essay Writing

(10 Marks)

Descriptive writing techniques

-Current topics

-As per Occasion

-Social issues etc (minimum 3 essays)

Unit 4 Grammar

(10 Marks)

-Tense , voice

-Direct and indirect speech

Tag questions

Removal of too

Clauses

Simple, compound and complex sentences

Unit 5 Correction of common errors

(10 Marks)

Assignment based on all 1-5 units

Notes – 10 marks

Report writing on held in college – 10 marks

Review on magazine/Article – 10 marks

Essay on current topics-20 marks

Reference Books –

(SEC-109)

SUBJECT: Computer Technology in Architecture –I

SYLLABUS FOR SEM – ARCHITECTURE DEGREE COURSE

Lectures – 15	Paper - -	Internal - 50
Studio – 15	Duration- -	External - -
Total – 30		Theory - -
Total Credit points - 02		Total - 50

COURSE INTRODUCTION

Architects need to know Basic computer skills to enhance and present idea in a better and professional manner. In current scenario, Architectural practices across the world are fast shifting to advanced Computer Aided Drafting (CAD) tools and software's enhancing drawings as well presentation. The courses of Computer Technology in Architecture –I are designed to enable the use of computer applications to develop a design from the initial stages to the final outcome.

COURSE OBJECTIVES

1. To introduce basic computer concepts and operating systems.
2. To develop understanding of Windows-based applications.
3. To introduce fundamentals of CAD drafting.

COURSE OUTCOMES (COS)

At the end of the course the student should be able to:

CO1: To Operate Windows OS efficiently.

CO2: To Manage files and data effectively.

CO3: To Create basic 2D drawings using AutoCAD.

COURSE CONTENT:

UNIT I: MICROSOFT WINDOWS

(15 Marks)

- 1) Introduction to computer systems and operating systems.
- 2) Introduction to Windows OS: use and importance.
- 3) Comparison between Windows and DOS.
- 4) Pointing devices – types and uses.
- 5) Parts of Windows, dialog boxes.
- 6) Windows applications and tab working.
- 7) Concept of data storage and data interchange.

UNIT II: CAD (AUTOCAD – BASICS

(35 Marks)

- 1) Introduction to CAD and its application in architecture.
- 2) Drawing setup, units and limits.
- 3) Coordinate systems.
- 4) All Basic 2D drawing commands.
- 5) Basic modifying and editing commands.
- 6) Layers, line types and line weights.
- 7) Simple architectural/interior drawings.
- 8) Concept of paper space and model space

SESSIONAL WORK/ ASSIGNMENT WORK:

Assignments should cover contents from all units; it is advised that each college clearly specify the unit's objectives as stated in the course materials. These outcomes need to be assessable through the following sessional work:--

1. Exercises on Windows operations and file management.
2. Assignments on shapes and basic commands as detailed in Unit II--A3 size prints (small assignments recommended)
3. Summative assignment based on Unit 2 should cover drawing a simple Floor Plan with Text & Dimensions using CAD tools - Draft a simple plan with using layers management and

showing furniture blocks, text annotation, and dimensions – Prints of the same plan to at least 3 different scales.

Reference books:--

- AutoCAD Beginners Guide to 2D, 3D Drawings – Kendrol Phillips – Open Resource E book
- Mastering AutoCAD 2023 and AutoCAD LT 2023 – George Omura, Sybex
- Architectural Graphics – Francis D.K. Ching
- Various Online Resources

(PC-201)

SUBJECT: -AESTHETICS AND VISUAL ARTS- II
SYLLABUS FOR SEM – ARCHITECTURE DEGREE COURSE

Lectures-	15	Paper	-	Sessional Work (Int.) – 100
Studio -	45	Duration	-	Oral (Ext.)-
Total -	60			Theory- -
Total Credit points-	2			Total- 100

COURSE INTRODUCTION

It is in the artistic records, much more than in the records of wars and dynastic changes, that a nation's true history is to be founded.

James Cousins –After understanding History of Indian Art in semester 1, this semester 2, the subject AVA, will deal in understanding the rich tradition and history of visual arts of Maharashtra. According to popular belief, the art of heritage of Maharashtra only consists of Ajanta, the Kailasa Temple and Ellora and the iconic relief sculptures of Trimurti at the Elephanta Caves. But many architectural sites such as temples, palaces, traditional mansions called 'wadas', Jain and Buddhist monasteries are constructed with exceptional wood and stone carvings, sculptures and murals. Creation of artefacts and earthenware for daily use was an integral part of our culture. The iconographic images of deities cast in metal or engraved on copper, as well as silver sheets called "Tak", Ornate brass lamps, illustrated religious manuscripts or "Pothies" are also part of the social- cultural heritage of Maharashtra. Ritualistic art, decorations for religious festivals like rangoli or Chaitra Gauri pata was an integral part of women's routine life. Patachitre in Jain temples of Vidarbha, bear testimony to the rich visual culture of Maharashtra. The rich "Paithani saree" of Paithan and "Chitrakathi", tradition of Pinguli based on Indian epics. "Ganjifa", the traditionally hand painted playing cards down paper or ivory, proved the skills of sensitivity of weavers and artisans of this land. The art of tribals has its origin in the prehistoric period. Warli Art, which has become popular art form now, originated from the Dahanu near Mumbai. The subject is to know/ understand the glorious past of the state in realm of History and Development of art of Maharashtra. They could play the important role with their activities in such a way, that this cultural heritage would be more prosperous, so that in future, they and their contribution could be appreciated.

COURSE OBJECTIVES

- To expose students to the wide range of artistic impressions, the media and the tools used.
- Hence, the students should be acquainted with brief glimpses of the development of Maharashtra's visual art as are required for concept formation

COURSE OUTCOMES

- To develop technical proficiency in art making, fostering critical thinking and enhancing aesthetic sensitivity.
- To demonstrate proficiency by experimenting with digital , traditional and contemporary methods to create original works and apply fundamental visual elements into cohesive compositions.

COURSE CONTENT

Unit 1:

(20 Marks)

The evolution and development of art and craft in Maharashtra has a long legacy of the tribal, rural and urban traditions. To understand today's art, it is necessary to understand the development of art crafts from prehistoric to the modern era in Maharashtra. Basic classification of Art. (Broadly and distinctly related to human civilization) developed only after the prehistoric period and formed the beginning of cultural development.

Prehistoric Art.

- Tribal Art
- Rural or Folk Art
- Urban Art or Nagar kala.
- Historical Background of Maharashtra Chronological order
- Proto-Historic Period
- Ancient Historic Period
- Later Historic Period -Bahamani Rule, Mughal period, Maratha Period-Chatrapati Shivaji Maharaj, Shahu Maharaj of Satara, Peshwa Period.
- Arrival of European Artists
- Tripartite Treaty and The First Art School Modern

Unit 2:**(20 Marks)**

Tribal arts and crafts of Maharashtra

Categories.

- Mask-Wood ,Gara ,Paper, Paper mache.
- Tribal sculptures God-Goddesses--Wooden, stone, metal tak.
- Monuments and Memorial Pillars -----Wooden(Khamba),Shinol/ Usekal/ Veergal.
- Painting Gond, Pardhan ,Halba and Warli.

Unit 3:**(20 Marks)**

Rural or Folk Art and Urban Art or Nagar kala

In the recent years, the distinction between Rural /Folk art and art of the elite,which is Nagar kala or Urban art is fast vanishing from life of the common men due to urbanization.Understanding....

- Anagar Kala
- Rasa and Alukikatavada
- Art for arts sake
-

Unit 4:**(20 Marks)**

- Modern Era
- British period
- Period after independence
- Modern art practices in period of experimentation.
- Postmodernism... and the search for Indian identity.....
- Baroda School Group 1890
- Cholamandal Artist Village
- Indian Identity and Tantric Art etc.

Unit 5**(20 Marks)**

Applied Art

This type of art was initially called utilitarian art. Later on it came to be known as commercial and thereafter the term applied art was widely used.Today, the preference is towards using the term Design ,in a larger context to denote advertising, editorial, art, design, exhibition, industrial design, graphic design, fashion design, and interior design.The definition of applied art is still the same - application of art and aesthetics to enhance everyday objects, making them functional,user friendly and aesthetically appealing.Applied artists are more mass oriented and plays a major role in shaping

the popular culture on the taste of people. It was a genre that was different from the traditional arts and crafts. These artists contributed to the cause of social upliftment, development of industry and enriched the visual culture of the masses, thereby playing an important role in the creation of modern Maharashtra and a newly emerging India.

SESSIONAL WORK/ ASSIGNMENT WORK:

Notes/Journal on unit 1

(20 Marks)

Eight selected (2 selected works from each unit from 2 to 5 unit Drawings/Posters/Illustrations/Product etc in any media from Manual (Hands-on) to Digital Media (Understanding various tools n softwares). -----80 marks (Mark to be given as follows)

Reference Books -

- Ching, Francis D.K. – *Architecture: Form, Space, and Order*
- Halse, Albert O. – *Architectural Rendering*
- Parmar, V.S. – *Design Fundamentals in Architecture*
- Arnheim, Rudolf – *Art and Visual Perception*
- Wong, Wucius – *Principles of Two-Dimensional Design*

(PC-202)

SUBJECT: GRAPHICS - II

SYLLABUS FOR SEM – ARCHITECTURE DEGREE COURSE

Lectures- 15	Paper- 1	Sessional Work (Int.) -50
Studio - 45	Duration- 3 hrs.	Oral(Ext.) - -
Total- 60		Theory- 100
Total Credit points-2		Total- 150

COURSE INTRODUCTION

The objective of this course is to develop students' visualization skills in technical drawing through accurate representation of planes, solids, and geometrical objects using isometric, axonometric, orthographic, and sectional drawing methods. The course aims to strengthen visualization skills, geometric understanding, and the ability to interpret and draft complex forms, including interpenetrating and cut objects. Students will learn surface development techniques for simple and complex solids and apply digital drafting skills using AutoCAD for isometric, axonometric, and measured drawings.

COURSE OBJECTIVE

1. To develop the ability to draft accurate isometric and axonometric projections of planes, solids, and complex geometrical objects.
2. To understand and apply the principles of orthographic projection, rotation, interpenetration, and sectional views of solid objects.
3. To acquire skills in surface development of simple, cut, and complex geometric forms for practical architectural applications.
4. To build competency in computer-aided drafting (AutoCAD) for preparing isometric, axonometric, measured drawings of rooms and furniture units.

COURSE OUTCOMES (COs)

At the end of the course:--

CO1: Students will be able to accurately construct isometric and axonometric projections of planes, solids, and geometrical forms.

CO2: Students will develop the ability to prepare orthographic drawings, including rotated plans and sectional views of interpenetrating objects.

CO3: Students will be able to create precise surface development drawings for simple, cut, and complex geometric solids.

CO4: Students will acquire skills to draft isometric, axonometric, and measured drawings using computer software, including basic AutoCAD commands.

COURSE CONTENTS:

UNIT 01- ISOMETRIC AND AXONOMETRIC PROJECTIONS. (25 Marks)

- 1) Isometric and Axonometric projections of planes. (Square, rectangle, circle, hexagonal, triangle etc. in vertical & horizontal positions.)
- 2) Isometric and Axonometric projections of solids. (cube, prisms (square, hexagonal), pyramids (triangular, square, hexagonal) cylinder, cone etc. in vertical & horizontal positions.)
- 3) Isometric and Axonometric projections of geometrical objects.

UNIT 02- INTERPENETRATION OF GEOMETRIC OBJECTS, AND SECTION OF OBJECTS . (35 Marks)

- 1) Interpenetration of geometric solids (draw orthographic projection of geometrical objects, and cut section of geometrical objects with plan rotated clockwise, anticlockwise in position. (rotated top view & front & both side views of rotated top view)

UNIT 03- SURFACE DEVELOPMENT OF SIMPLE AND COMPLEX OBJECTS. (20 Marks)

- 1) Surface development of solids. (square prisms, cone, cylinder & triangular pyramids.)
- 2) Surface development of cut solids (square pyramids, hexagonal prisms, cone & cylinder)
- 3) Surface development of geometrical objects. (without cut objects)

UNIT 04- DRAFTING OF ISOMETRIC AND AXONOMETRIC VIEW & MEASURED DRAWING USING COMPUTER. (15 Marks)

- 1) Draft isometric and axonometric view using computer.

- 2) Measured drawing of one small rooms, & furniture unit using computer. (like tables, cupboards, chair, stool)
- 3) Study of AutoCAD commands required for drafting above mentioned drawings.

SESSIONAL WORK/ ASSIGNMENT WORK:

It is recommended that each college define the outcomes of the Units specified in the Course Contents. These outcomes need to be assessable through the following sessional work:

- 1) Emphasis of technically drafted drawings should be on learning the projections techniques for views, surface development etc. and thereby produce accurate drawings. Assignments should be based on each unit.
- 2) Sessional work should cover Four A1 hand drafted drawings covering hand drafted sheets based on Unit 01 like isometric & axonometric view of planes & solids.
- 3) Sessional work should cover Six A1 hand drafted drawings covering hand drafted sheets based on Unit 02, 3 orthographic projection of cut section of geometrical objects with plan rotated clockwise, anticlockwise in position.
- 4) Assignment should cover Drafting of Measured plan & section drawing of one small room & Drafting of Measured plan, section & elevation of one small furniture unit, scale to be decided by individual college

Reference books:--

- Engineering Drawing: Plane and Solid Geometry – Bhatt, N.D. and Panchal V.M , Charotar Pub
- Engineering Drawing [Geometrical Drawing] – Gill, P.S., Dewan Suhil Kumar Kataria, Ludhiana
- Building Drawing: with an integrated approach to build environment – Shah, M.G., Kale, C.M. and Patki, S.Y., Tata McGraw-Hill Pub., Delhi, 2000.
- Principles of Three-Dimensional Design – Wucius Wong. Van Nostrand Reinhold Company.
- Any other learning resources as and when recommended by faculty.

(PC-203)**

SUBJECT: ARCHITECTURE DESIGN - II

SYLLABUS FOR SEM – ARCHITECTURE DEGREE COURSE

Lectures-	15	Paper	-	Sessional Work (Int.) –	100
Studio -	90	Duration	-	Oral (Ext.)-	100
Total -	105			Theory-	-
Total Credit points-	10			Total-	200**

COURSE INTRODUCTION

To builds upon the fundamentals introduced in the first semester and focuses on developing students' understanding of the built environment, user behaviour, and contextual design. The course emphasizes the application of design principles to small functional spaces while considering ergonomics, spatial standards, and environmental factors.

The course focuses on designing small functional spaces by considering comfort, human needs & environmental factors. Students learn to observe real life situations & turn them into design ideas through site study & user analysis.

It also helps students to improve developing drawing & presentation skills along with model making. Overall, the course helps students to create practical, meaningful & well-designed architectural solutions.

COURSE OBJECTIVES

- To apply design principles to small functional spaces.
- To understand the built environment, user behaviour, and context.
- To develop design through program derivation, user needs, and spatial standards.
- To strengthen skills in axonometric/perspective drawing, sociography, and architectural communication.
- To develop the ability to convert observations into design concepts.

COURSE OUTCOMES

- To interpret surroundings and document-built environment.
- To translate user needs into space planning and zoning.
- To produce design solutions for small buildings/utility structures.
- To communicate design through perspectives, axonometric drawings, and models.
- To demonstrate clarity in concept development and form evolution.

COURSE CONTENT

Unit 1: Basic Design Principles - Form, Space & Order

(20 Marks)

- Study of form, space & order through elements & principles such as symmetry, rhythm & hierarchy etc.
- Understanding transformation of basic form through addition & subtraction in architectural design.

Unit 2: Climatology & Orientation

(20 Marks)

- Understanding climate responsive design through orientation, sun path & ventilation strategies.
- Study of environmental factors influencing spatial planning & material selection etc.

Unit 3: Interior Space Planning & design

(15 Marks)

- Understanding interior space planning based on function, scale & circulation.
- Study of furniture layout, material, colour & spatial ambience.

Unit 4: Multi-Function Space design (Up to 80 sq.m.)

(40 Marks)

- Study of spatial organization & integration of functions in small scale spaces (such as co-working spaces, Café, Studio, Museum, Gallery, Library etc.)
- Understanding concept development & user-based planning in multi-activity-built environment.

SESSIONAL WORK/ ASSIGNMENT WORK:

- Basic data collection & understanding about multi-functional spaces through sheets.
- Conduct relevant case studies to support the development of multi-functional spaces, while understanding climate-responsive design through orientation, sun path, and ventilation strategies. Additionally, study the environmental factors that influence spatial planning and the selection of appropriate materials.
- Design of multi-functional spaces—such as co-working spaces, cafés, studios, museums, galleries, or libraries—followed by the development of a space up to 80 sq.m. The process should include data collection based on anthropometry and ergonomics, relevant case studies, and scaled drawings for concept development that integrate design elements, principles, and environmental factors. It should also include zoning and the preparation of architectural drawings such as plans, sections, elevations, and detailed drafted views.

Reference Book

- 1) Time Saver Standards for Building Types – Latest Editions
- 2) Neufert- Architects Data – Latest Editions
- 3) Rendering With Pen and Ink / Robert W. Gill
- 4) Ching- FDK Architecture Form, Van Nostrand Reinhold Staff, New York – Latest Editions
- 5) Time Saver Standards for Landscape Architecture- Latest Edition

(PC-204)**

**SUBJECT: HUMAN SETTLEMENT AND HISTORY OF
CIVILIZATION-II**

SYLLABUS FOR SEM – ARCHITECTURE DEGREE COURSE

Lectures- 30	Paper - 01	Sessional Work (Int.) – 50
Studio - --	Duration - 02 hr	Oral (Ext.)- --
Total - 30		Theory- 50
Total Credit points - 02		Total- 100**

INTRODUCTION

This course introduces students to the evolution of human settlements and the development of civilizations from the medieval to the modern period. It examines the influence of socio-cultural, economic, political, and environmental factors on the shaping of cities and built environments across different regions.

By studying key planning theories, movements, and examples from India and abroad, the course develops an understanding of how historical contexts inform contemporary urban design. It also enhances analytical and critical thinking skills, enabling students to apply historical insights to present and future architectural and planning practices.

Course Outcomes

- To understand the evolution of world settlements
- To analyze socio-cultural and geopolitical influences on architecture
- To develop analytical skills for historical design and construction

Course Contents

Unit 1: Study of Settlement in Europe and India (15 Marks for Unit-1)

- Medieval Period: Study of medieval cities (Indian and Western)
 - Renaissance Period: Study of Renaissance cities; Example – Versailles

Unit 2: Industrial Revolution (25 Marks for Unit-2, 3, 4)

- Impact on transportation and communication
- Concept of factory town
- City Beautiful movement

Unit 3: Plan for Community

- Robert Owen, Satellite Town, Garden City
- Gedian Triad and urban renewal
- Dynapolis – C.A. Doxiadis

Unit 4: Neighborhood Planning

- Evolution of Cities
- Neighborhood Planning (Radburn Layout)

Unit 5: Modern Town Planning in India

(10 Marks for Unit-5)

- Examples: Chandigarh, Gandhinagar

Sessional Work / Assignment Work

1. Preparation of a comprehensive question bank related to the prescribed topics, along with active participation in seminar activities.
2. Sketching exercises shall be aligned with the lecture notes and must be executed neatly on A3 or A4-sized sheets.
3. Seminars will be conducted periodically to assess and enhance students' understanding of the subject matter.
4. Periodic class tests shall be conducted to evaluate academic progress and learning outcomes

Reference Books

- A History of World Civilization – James Edgar Swain
- An Outline History of the World – H. A. Davies
- Town Planning – Abir Bandopadhyay
- Town Planning – G. K. Hiraskar
- The Urban Pattern – Gallion & Eisner
- Sir Banister Fletcher's A History of Architecture
- The Great Ages of World Architecture – G. K. Hiraskar
- Human Settlement – K. R. Thooyavan

(BS & AE-205)

SUBJECT: BUILDING CONSTRUCTION AND MATERIAL II
SYLLABUS FOR SEM – ARCHITECTURE DEGREE COURSE

Lectures- 15	Paper- 01	Sessional Work (Int.) - 50
Studio - 45	Duration- 03 hrs.	Oral(Ext.) - 100
Total- 60		Theory- 100
Total Credit points- 3		Total- 250

COURSE DESCRIPTION

This course introduces students to essential building materials and basic construction techniques used in the field of architecture and civil engineering. The Materials section covers stones and lime in detail, including their origin, types, and properties, methods of quarrying, defects, and applications in construction. Students will also learn about various types of lime, lime mortar, neeru, plastering techniques, The Construction section focuses on arches, doors and windows, and roofs. Learners study different types of arches, construction methods, centering, and architectural elements like cornices and porches. It also covers fundamental door and window types, components, and detailing. Finally, the course explains roof layouts, types of pitched roofs, and roofing materials such as tiles, thatch, and shingles. Assignments and drawing sheets with neat sketches help student's gain practical understanding and drafting skills.

COURSE OBJECTIVE-

1. To develop understanding of basic building materials such as stones and lime, including their properties, applications, and defects.
2. To familiarize students with construction elements like arches, cornices, doors, windows, and roofs along with their types, components, and methods of construction.
3. To enhance technical drawing through assignments and sheets related to arches, doors, windows, and roof layouts.
4. To enable students to apply theoretical knowledge in practical construction situations by identifying suitable materials,

COURSE OUTCOMES (COs)

At the end of the course:--

CO1: Students will be able to identify, explain, and draw various building components such as arches, doors, windows, and roof types with correct technical terms and neat sketches.

CO2: Students will gain the skills to understand construction methods and details of brick/stone arches, door, window details, and pitched roofs details.

CO3 Students will be able to identify, classify, and evaluate basic building materials such as stone and lime, understand their Qualities, properties, processing methods, and applications in construction,

COURSE CONTENTS

SECTION –I MATERIALS – (25 MARKS)

Unit -1. Stones – (13 Marks)

- 1) Source of stones & Geological, physical & chemical Classification of rocks
- 2) Qualities of good stones, Method of stone quarrying, preservation of stones.
- 3) Natural bed stone & its importance, various types of stone dressings, sizes & use of laterite stone blocks.
- 4) Use of stone in construction, Different Sizes of Aggregates and their use in construction.

Unit -2. Lime- (12 Marks)

- 1) Sources of lime & constituents of limestone
- 2) Classification of lime (fat lime, hydraulic lime, poor lime)
- 3) Quick lime & slaked lime, Slaking of lime,
- 4) Physical properties of limestone & uses of lime
- 5) Neeru finish plaster, surkhi mortar, lime wash, uses.

SECTION –II CONSTRUCTION-(75 MARKS)

Unit -1. Arch- (20 Marks)

- 1) Technical terms in arch, Types of Arches in bricks, stones, concrete
- 2) Different types of arches as per centre / points.
- 3) Construction method & centring for Arch.
- 4) Cornices, canopy and porch in brick and stones.

Unit -2. Doors and windows- (25 Marks)

- 1) Technical terms in door & window
- 2) Types of door, battened & ledged, battened, ledged & braced, battened, ledged, braced & framed door.
- 3) Framed & wooden panelled door (introduction only)
- 4) Simple glass panelled window with grill fixing.

Unit -3. Pitched Roof – (30 Marks)

- 1) Technical terms in pitched roof (ridge, hip valley, gable eaves etc.)
- 2) Types of simple pitched roof such as lean to roof, couple roof, close couple roof and, collar roof and, scissors roof
- 3) Roof covering material such as thatch, shingles, tiles, slates, Asbestos-cement & G.I sheet.

SESSIONAL WORK/ ASSIGNMENT WORK:

Assignments should cover contents from all units; it is advised that each college clearly specify the unit's objectives as stated in the course materials. These outcomes need to be assessable through the following sessional work:--

1. Assignments should be based on each unit in section I should cover notes with required neat sketches also to prepare market survey report for Unit 1.
2. Assignments should be based on unit in section II should cover notes with required neat sketches also to prepare market survey report for Unit 2.
3. Minimum Seven of manually drafted A1 size drawings covering units 1 to 3.

REFERENCE BOOKS:--

- S C RANGWALA K. S. R. ENGINEERING MATERIALS MATERIAL SCIENCE. : CHAROTAR PUBLISHING HOUSE.
- Agarwal, B. K. (2007). Introduction to Engineering Materials. Tata McGraw Hill.
- S K DUGGAL N., BUILDING MATERIALS. : NEW AGE INTERNATIONAL PUB.
- Chudley, R. *Construction technology*. Longman, 1987.
- Kumar, Sushil, Building Construction Standard Publishers, New Delhi : 1988. - xiv
- W.B. McKay. Building Construction, Volume 2. Author Edition, 2. Publisher, Longman,
- Arora S.P. and Bindra S.P. "Building Construction, Planning Techniques and Materials of Construction". Dhanapat Rai and Sons.

(BS&AE—206)**

SUBJECT: THEORY OF STRUCTURE –II

**SYLLABUS FOR SECOND SEM - ARCHITECTURE DEGREE
COURSE**

Lectures - 45	Paper - 01	Sessional Work (Int.) - 20
Studio - -	Duration- 03 hrs.	Oral (Ext.) - -
Total - 45		Theory - 80
Total Credit points-03		Total - 100**

Note: The passing in this subject requires min. 45% marks for theory paper, 50% for internal assessment and combined 50% of Total internal and theory paper.

COURSE INTRODUCTION

This course in Applied Mechanics introduces architecture students to the fundamental principles governing structural behavior. It covers the analysis of trusses, basic concepts of stress and strain, and the key elastic properties of materials. Students learn to evaluate section properties and understand how forces such as shear force and bending moment act on beams. Overall, the course builds a foundation for understanding how size, shape, and material influence the strength and stability of structures.

COURSE OBJECTIVES

- To Introduce Applied Mechanics as an important Subject for Architecture.
- To Introduce and Understand Concepts of Bending moment and Shear force.
- To demonstrate relationship between structural behavior of moment and forces, size and shape, and choice of material.

COURSE OUTCOMES

After completion of this course, students will be able to:

- Analyze determinate trusses using analytical and graphical methods.
- Understand and apply concepts of stress, strain, elastic constants, and material behavior.
- Determine section properties required for structural analysis and design.
- Analyze shear force and bending moment in simply supported and cantilever beams under various loads.

COURSE CONTENT

Unit 01 - Analysis of trusses

(16 Marks)

- Definition of perfect, deficient & redundant trusses. Analysis of determinate trusses by method of joints, sections.

Unit 02 - Simple Stresses and strains

(16 Marks)

- Concept, definitions, units, types of stresses and strains. Stress strain curve, safe stresses, factor of safety, different types of safe stress as per ISI code for different materials like timber, steel. Hook's law, typical stress strain behavior for steel and concrete.

Unit 03 - Elastic constants

(16 Marks)

- Modulus of elasticity, Poisson's ratio, modulus of rigidity, bulk modulus, shears modulus and their relations.

Unit 04 -Properties of sections

(16 Marks)

- Centre of gravity, moment of inertia, modulus of section and radius of gyration of simple symmetrical and unsymmetrical sections including built up sections.

Unit 05 -Bending Moment & Shear force

(16 Marks)

- Concept of shear force and bending moment. BMD & SFD for statically determinate simply supported and cantilever beams subjected to combinations of concentrated, uniformly distributed, uniformly varying loads. Point of contra flexure in overhanging beam.

SESSIONAL WORK/ASSIGNMENT WORK

Unit 01 – Analysis of Trusses

- Analysis of simple trusses by method of joints and sections.
- Problems on identification of perfect, deficient, and redundant trusses.

Unit 02 – Simple Stresses and Strains

- Types of stresses and strain, Hook's law, modulus of elasticity, stress-strain curve
- Problems on stress and strain.

Unit 03 – Elastic Constants

- Elastic constants and their relationships.
- Numerical based on modulus of elasticity, Poisson's ratio, and rigidity modulus and bulk modulus.

Unit 04 – Properties of Sections

- Parallel axis theorem, Perpendicular axis theorem, Moment of inertia.
- Numerical on moment of inertia and centroid (Centre of gravity).

Unit 05 – Bending Moment & Shear Force

- SFD and BMD for standard cases of simply supported and cantilever beams.
- Problems on SFD and BMD for beams subjected to point load, UDL, and UVL.

REFERENCE BOOKS:

- Strength of Materials – R.K. Bansal, Laxmi publications, New Delhi.
- Strength of Materials - R.S. Khurmi, S. Chand & company, New Delhi.
- Architecture and Engineering – Salvadori and Tempel
- Mechanics of Solids – Dr. H. J. Shah
- Strength of Materials – S. Ramamrutham
- Strength of Materials- R. K. Bansal
- Structural Analysis- S. S. Bhavikatti
- Theory of Structures- S. P. Gupta and G. S. Pandit.
- IS 800:2007 – General Construction in Steel – Code of Practice, Bureau of Indian Standards (BIS)
- National Building Code of India (NBC), Bureau of Indian Standards (BIS)

* Means combine passing for external oral & theory paper.

** Means combine passing for internal term work & theory paper & external oral as applicable.

(PC-207)

SUBJECT: Workshop-II

SYLLABUS FOR SEM – ARCHITECTURE DEGREE COURSE

Lectures-	Paper -	Sessional Work (Int.) – 50
Studio - 30	Duration -	Oral (Ext.)-
Total - 30		Theory- -
Total Credit points- 01		Total- 50

COURSE INTRODUCTION

This course introduces first-year architecture students to the basics of making, construction, and material exploration through hands-on workshop activities. It focuses on understanding masonry tools, materials, and construction techniques while developing practical skills in model-making and mock-ups.

Through experiential learning, students gain sensitivity towards materials, craftsmanship, and accuracy, forming a strong foundation for architectural design and construction.

COURSE OBJECTIVES

- To develop fundamental skills in handling, shaping, and assembling various materials through hands-on exercises.
- To enhance craftsmanship, accuracy, and attention to detail in model-making and mock-up preparation.
- To build confidence in translating conceptual ideas into physical forms using appropriate construction techniques

COURSE OUTCOMES

- **CO1:** Demonstrate advanced handling of carpentry and workshop tools and Apply model-making and joinery techniques in three-dimensional constructions.
- **CO2:** Integrate material logic and construction principles in architectural models and prototypes.

COURSE CONTENT

UNIT 1:

(10 Marks)

- To develop familiarity with carpentry tools and basic joinery.
- Work to be Carried Out:
- Identification and documentation of tools.
- Making of sample joints using wood.
- Understanding of joint functions and tool handling.

UNIT2:

(20 Marks)

- To apply joinery techniques in a three-dimensional construction.
- Work to be Carried Out:
- Design and fabrication of a small wooden structure such as a stool, frame, or pavilion model.
- Emphasis on accuracy and stability.
- Structural logic, precision, and craftsmanship.

UNIT 3:

(10 Marks)

- To understand sustainable earth-based construction techniques.
- Work to be Carried Out:
- Preparation and construction of a small earth-based prototype.
- Observation of drying and cracking behaviour.
- Knowledge of vernacular materials and sustainable practices.

UNIT 4:

(10 Marks)

- To develop refined model-making skills.
- Work to be Carried Out:
- Preparation of a detailed architectural model related to studio work.
- Use of appropriate materials, scale, and detailing.
- Integration of material logic, construction understanding, and presentation.

SESSIONAL WORK/ ASSIGNMENT WORK:

Assignment 1:

10 Marks

- Identify and sketch at least 8–10 masonry tools.
- Demonstrate correct handling of tools.
- Prepare small sample boards using different materials.

Assignment 2:**10 Marks**

- Create 3 abstract forms using clay.
- Explore pinching, coiling, and slab techniques.

Assignment 3:**10 Marks**

- Construct a small masonry panel.
- Demonstrate one bonding type.
- Submission: Panel + bond diagram

Assignment 4:**10 Marks**

- Apply plaster on a panel.
- Create two different surface textures.
- Submission: Finished panel

Assignment 5:**10 Marks**

- Design and construct a small architectural element.
- Submission: Final model + journal

Reference Books -

- John Taylor – *Model Building for Architects and Engineers*
- Rolf Janke – *Architectural Models*
- Gernot Minke – *Building with Earth*
- Mitchell – *Model Making*

(SEC-208)

SUBJECT: Communication Skills -II

SYLLABUS FOR SEM – ARCHITECTURE DEGREE COURSE

Lectures- 30	Paper -	Sessional Work (Int.) – 50
Studio -	Duration -	Oral (Ext.)-
Total - 30		Theory- -
Total Credit points-		Total- 50

COURSE INTRODUCTION

The course English Communication skill is intended as an ability enhancement course for the first semester undergraduate students. It aims at providing students an insight into basics of communication skills in English. The basic function of the language is communication. Oral and written communication in English needs to be acquired by Students so as to increase their employability in the global market.

COURSE OBJECTIVES

- To make the Students confident of speaking in English impeccably and with utmost enthusiasm.
- Familiarize the students with different styles of communication.
- Who make the students understand the nuances of communication

COURSE OUTCOMES

CO's 1. Develop knowledge, skills, and judgment around human communication that facilitate the ability to work collaboratively with others.

CO's 2. Understand and practice different techniques of communication.

CO's 3. Familiarize with different types of communication.

COURSE CONTENT

Unit -I Effective Communication -

(10 marks)

- Nonverbal communication.
- Types of nonverbal communication. Manners and etiquettes.
- Dressing and Grooming.

Unit -2 Soft Skills -

(10 marks)

- Definition, Need and Significance
- Types of Soft Skills

Unit -3 Writing Skills -

(10 marks)

- Paragraph Writing
 - Hobby
 - An accident
 - Sunrise/ Sunset
 - Favorite Book
 - Any film
 - Any electronic gadget
- Precise Writing
 - Importance of Precise Writing.
 - Techniques of Precise Writing.
- Writing Skills
 - Email
 - Blog

Unit -4 Techniques of Professional Correspondence -

(10 marks)

- Importance of professional correspondence
- Techniques of professional correspondence
- Enquiry letter
- Order letter
- Complaint letter
- Invitation
- An application with Resume

Unit -5 Presentation Skills - (10 marks)

- Speech (on any topic)
- Advertisement
- Comparing
- Poster presentation
- Interview
- Critical study of a Historical Place /Monument in Home Town
- Seminar
- Communication in society

SESSIONAL WORK/ ASSIGNMENT WORK:

Asking for and giving addresses

Enquiry in offices, banks or any organization

Discussion of doubts with Teachers, etc

Reports on Social Awareness with the help of PPT.

- Assignment on All Units- (1-5)

- Notes- 10 mks

- Paragraph Writing as per topics given in unit 3 (any 2)- 10 mks

- Two Paragraphs on Precise Writing -10 mks

- Speech on any Topic -10 mks

- Social Awareness Report - PPT format -10 mks

Reference Books -

(SEC-209)

SUBJECT: COMPUTER TECHNOLOGY IN ARCHITECTURE –II
SYLLABUS FOR SEM – ARCHITECTURE DEGREE COURSE

Lectures – 15	Paper - -	Internal - 50
Studio – 15	Duration- -	External - -
Total – 30		Theory - -
Total Credit points - 01		Total - 50

COURSE INTRODUCTION

Architects need to know Basic computer skills to enhance and present idea in a better and professional manner. In current scenario, Architectural practices across the world are fast shifting to advanced Computer Aided Drafting (CAD) tools and software's enhancing drawings as well presentation. The courses of Computer Technology in Architecture –II are designed to enable the use of computer applications to develop a design from the initial stages to the final outcome.

COURSE OBJECTIVES

1. To develop skills in advanced 2D drafting using AutoCAD.
2. To introduce basic 3D modelling using AutoCAD and Sketch Up.
3. To enable preparation and presentation of architectural drawings.

COURSE OUTCOMES (COs)

At the end of the course:--

CO1: Students will be able to Create and edit advanced 2D drawings using AutoCAD commands.

CO2: Students will be able to develop simple 3D and block models using AutoCAD and Sketch Up.

CO3: Students will be able to present drawings using proper plotting and basic visualization techniques.

COURSE CONTENT:

UNIT I: CAD (AUTOCAD – ADVANCED)

(20 Marks)

- 1) All 2D drawing commands.
- 2) Advanced modifying and editing commands.

- 3) Inquiry commands.
- 4) Dimensioning techniques.
- 5) Blocks and their applications.
- 6) Text styles and fonts.
- 7) Hatch and hatch patterns.
- 8) Isometric drawings.
- 9) Drawing output through printer and plotter.

UNIT II: INTRODUCTION TO AUTOCAD 3D

(30 Marks)

- 1) Introduction to 3D modelling
- 2) Basic 3D shapes and forms
- 3) Creating simple 3D models
- 4) Introduction to sketch-up, block model & editing the model

SUBMISSION REQUIREMENTS

Assignments should cover contents from all units; it is advised that each college clearly specify the unit's objectives as stated in the course materials. These outcomes need to be assessable through the following sessional work:--

1. Assignments as CAD drawing showing plan, elevation and section of a small project.as detailed in Unit I.
2. Isometric and shaded views of 3D Form Exploration using 3D modeling software
3. Summative assignment based on Unit 2 should cover drawing a simple Floor Plan with Text & Dimensions using CAD tools - Draft a simple plan with using layers management and showing furniture blocks, text annotation, and dimensions – Prints of the same plan to at least 3 different scales.

Reference Books / Software:--

- AutoCAD Beginners Guide to 2D, 3D Drawings – Kendrol Phillips – Open Resource E book
- Archicad Reference Manual – Graphisoft.Mastering AutoCAD 2023 and AutoCAD LT 2023 – George Omura, Sybex
- Architectural Graphics – Francis D.K. Ching
- Murphy, Brian W., CAD in Architecture.
- Various Online Resources