TOTAL CREDITS														
MESTER SEM 1 SEM II SEM II SEM IV SEM V SEM V SEM VI SEM VII SEM VII SEM IX SEM X TOTAL CREDITS														
CREDITS	30	30	30	30	31	31	31	29	26	24	292			

Pooj s President 5 G	a C: Sandasega Agui Sandasega Agui S	Pojs Materia (b. c). Bandaresedant (b. d). Bandaresedant (b. d).	Angele Alega Angele Alega Angele Alega Angele Alega Angele Alega Angele Alega Angele Alega Al	ರ <mark>ವ</mark> sva :	SCHEME OF	TEACH M B. ARG	වෙනු Uni ING AND I CH (2024 S	S Ver Exami Eries)	sity sity	රො	Posj	ya Mateobri Godulai Avya	Poojya Bhambasveshw	Coldarpa April Holdarpa April Ser May Vendua Bangha		
Sl.no	Course code	Course	Title of Course	Te	2				Examin	ation Sche	me					
	1	Category			1		Prac/Tut	1			1					1
							orial/									
				Lecture	Studi	0	Seminar	Total	Dur (hrs)	Theory	Practical	CIE MARKS	VIVA	TERM WORK	TOTAL	CREDITS
					core	applied	1		(
1	24ARC11	PC	Architectural Design-I	1	3	2	1	7	-	-	-	100	100		200	7
2	24ARC12	BS & AE	Building construction and Materials - I	2	2	0	0	4	-	-	-	50	50		100	4
3	24ARC13	PC	Architectural Graphics-I	1	0	3	0	4	-	-	-	50	-	50	100	4
4	1 24ARC14	PC	History of Architecture-I	3	0	0	0	3	3	50	-	50	-	-	100	3
5	5 24ENG15	BS & AE	Structures-I	3	0	0	0	3	3	50	-	50	-	-	100	3
6	5 24ART16	PC	Basic Design and Visual Arts	1	1	0	2	4	-	-	-	50	-	50	100	4
7	24ART17	PC	Model Making Workshop	1	1	0	0	2	-	-	-	50	-	-	50	2
8	3 24ARC18	SEC	Communication Skills	2	0	0	0	2	3	50	-	50	-	-	100	2
9	24SFH19	AEC	Scientific Foundation of Health.	1	0	0	0	1	2	50		50			100	1
			TOTAL	15	7	5	3	30	11	200	-	500	150	100	950	30

ARC=Architectural Subjects ART=Art SubjectsENG =Engineering SubjectsHUM = Humanities Subjects.

No. of Subjects/Heads=09

No. of Theory Examinations =04

Progressive Marks to be awarded by the subject teacher. Term work & Viva Voce examination shall be conducted jointly by one internal & one external examiner appointed by the University

Minimum Marks for passing: ProgressiveMarks50%,Theory marks, Term work marks and Viva marks 50% I Cneach

 Subject Categories': Professional
 BS&AE: Building Sciences & Applied Engineering Courses
 PE: Professional Elective Courses
 HSMC-Humanity Science and Management courses

 PAEC: Professional Ability EnhancementCourses
 SEC: Skill Enhancement Courses
 OE: Open ElectiveCourses
 (PC): Project Core

(PC): Project Core



					FACU SHARNBAS SCHEME OF II SE	ULTY OF A SVA UNIV F TEACHIE EM B. ARC	ARCHITH ERSITY, I NG AND I CH (2024 S	ECTURI KALAB EXAMII SERIES)	E URAGI NATION							
Sl.no	Course code	Course	Title of Course	Te	aching Scheme	e in Periods	per Week					Examin	ation Sche	me		
		Category														
							Prac/Tut									
							orial/									
	Lecture Studio Seminar Total Dur (hrs) Theory Practical CIE MARKS VIVA TERM WORK TOTAL CREDITS															
	core applied															
	1 24ARC21	PC	Architectural Design-II	1	3	3	0	7	-	-	-	100	100		200	7
	2 24ARC22	BS & AE	Building construction and Materials - II	2	2	0	0	4	-	-	-	50	50		100	4
	3 24ARC23	PC	Architectural Graphics-II	1	2	1	0	4	-	-	-	50	-	50	100	4
	4 24ARC24	PC	History of Architecture-II	3	0	0	0	3	3	50	-	50	-	-	100	3
	5 24ENG25	BS & AE	Structures-II	3	0	0	0	3	3	50	-	50	-	-	100	3
	6 24ENG26	PC	Surveying and leveling	2	0	0	1	3	3	50	-	50	-	-	100	3
	7 24ARC27	SEC	Computer Application in Architecture-I	1	0	0	2	3	-		50	50			100	3
	8 24ART28	ART	Art Appreciation	1	0	1	0	2	-	-	-	50	-	-	50	2
	9 24HUM29 HUM Social Connect and Responsibility 1 0 0 0 1 1 2 50 - 50 100 100 1															
						T.			T.			1				
			τοται	15	7	5	3	30	11	200	50	500	150	50	950	30

ARC=Architectural Subjects ART=Art Subjects sENG =Engineering SucbjetsHUM = Humanities Subjects.

No. of Subjects/Heads=09

No. of Theory Examinations =04

Progressive Marks to be awarded by the subject teacher. Term work & Viva Voce examination shall be conducted jointly by one internal & one external examiner appointed by the University

Minimum Marks for passing: ProgressiveMarks50%, Theory marks, Term work marks and Viva marks 50% ineach

Subject Categories': Professional BS&AE: Building Sciences & Applied Engineering Courses PE: Professional Elective Courses HSMC-Humanity Science and Management course PAEC: Professional Ability EnhancementCourses SEC: Skill Enhancement Courses OE: Open ElectiveCourses (PC): Project Core (PC): Project Core



	FACULTY OF ARCHITECTURE															
					SHARNBAS	VA UNIV	ERSITY, F	KALAB	URAGI							
				S	CHEME OF	TEACHI	NG AND E	EXAMI	NATION							
					III SI	EM B. ARG	CH (2024 S	ERIES)							
Sl.no	Course code	Course	Title of Course	Teac	hing Scheme	in Periods	s per Week					Examin	ation Sche	me		
_		Category														
							Prac/Tut									
							orial/									
				Lecture	Total	Dur (hrs)	Theory	Practical	CIE MARKS	VIVA	TERM WORK	TOTAL	CREDITS			
				-	1				100							
	1 24ARC31	PC	Architectural Design-III	1	4	2	2	8	-			100	100		200	8
	2 24ARC32	BS & AE	Building construction and Materials - III	1	2	1	0	4	-			50	50		100	4
3	3 24ARC33	PC	Architectural Graphics-III	1	2	1	0	4	-			50		50	100	4
	4 24ARC34	PC	History of Architecture-III	3	0	0	0	3	3	50		50			100	3
!	5 24ENG35	BS & AE	Structures-III	3	0	0	0	3	3	50		50			100	3
	6 24ARC36	BS & AE	Building Services-I	3	0	0	0	3	3	50		50			100	3
	7 24ARC37	SEC	Computer Application in Architecture-II	1	0	0	2	3	-		50	50			100	3
1	8 24ARC38 PC Measure Drawing and Documentation 0 0 1 0											50	50		100	1
	9 24ARC39 HSMC Kannada 0 0 0 1 1 1 50 50 100 100 1															
			TOTAL	13	8	5	5	30	10	200	50	500	200	50	1000	30
			ARC=Architec	tural Subjects	ART=Art Sub	jectsENG =	Engineerin	g Subje	ctsHUM = H	umanities S	ubjects.					

No. of Theory Examinations =04

Progressive Marks to be awarded by the subject teacher. Term work & Viva Voce examination shall be conducted jointly by one internal & one external examiner appointed by the University

Minimum Marks for passing: ProgressiveMarks50%, Theory marks, Term work marks and Viva marks 50% ineach

 Subject Categories': Professional
 BS&AE: Building Sciences & Applied Engineering Courses
 PE: Professional Elective Courses
 HSMC-Humanity Science and Management course

 PAEC: Professional Ability EnhancementCourses
 SEC: Skill Enhancement Courses
 OE: Open ElectiveCourses
 (PC): Project Core





				FAC	ULTY OF A	ARCHITE	CTURI	E							
				SHARNBAS	SVA UNIVI	ERSITY, I	KALAB	URAGI							
				SCHEME O	F TEACHI	NG AND I	EXAMI	NATION							
				IV S	EM B. ARC	CH (2024 S	SERIES)							
Sl.no Course cod	e Course	Title of Course	Te	aching Schem	e in Periods	per Week	(Examin	ation Schei	me		
	Category														
						Prac/Tut									
						orial/									
			Lecture	Stud	io	Seminar	Total	Dur (hrs)	Theory	Practical	CIE MARKS	VIVA	TERM WORK	TOTAL	CREDITS
				core	applied										
1 24ARC41	PC	Architectural Design-IV	0	4	2	2	8	-	-	-	100	100	-	200	8
2 24ARC42	BS & AE	Building construction and Materials - IV	2	1	1	0	4	-	-	-	50	50	-	100	4
3 24ARC43	BS & AE	Climatology	2	0	0	1	3	3	50	-	50		-	100	3
4 24ARC44	PC	History of Architecture-IV	3	0	0	0	3	3	50	-	50		-	100	3
5 24ENG45	BS & AE	Structures-IV	3	0	0	0	3	3	50	-	50		-	100	3
6 24ARC46	BS & AE	Building Services-II	3	0	0	0	3	3	50	-	50		-	100	3
7 24ARC47	SEC	Computer Application in Architecture-III	1	0	0	2	3	-		50	50		-	100	3
8 24ARC48	PC	Working Drawing-I	0	0	2	0	2	-	-		50	50	-	100	2
9 24ARC49	PAEC	Innovation and Design Thinking	1	0	0	0	1	2	50		50			100	1
		TOTAL	15	5	5	5	30	14	250	50	500	200	-	900	30
		ARC=Archit	ectural Subje	ctsART=Art Sul	ojectsENG =	Engineerin	ng Subjeo	tsHUM = H	umanities S	ubjects.					

No. of Theory Examinations =05

Progressive Marks to be awarded by the subject teacher. Term work & Viva Voce examination shall be conducted jointly by one internal & one external examiner appointed by the University

Minimum Marks for passing: ProgressiveMarks50%, Theory marks, Term work marks and Viva marks 50% ineach

Subject Categories': Professional BS&AE: Building Sciences & Applied Engineering Courses PE: Professional Elective Courses HSMC-Humanity Science and Management course PAEC: Professional Ability EnhancementCourses SEC: Skill Enhancement Courses OE: Open ElectiveCourses (PC): Project Core (PC): Project Core



Sl.no	Course code	Course	Title of Course	Te	FAC SHARNBAS SCHEME OI V SI aching Schem	ULTY OF A SVA UNIVI F TEACHIN EM B. ARC e in Periods	ARCHITE ERSITY, I NG AND F <u>CH (2024 S</u> per Week	CTURI KALAB EXAMII ERIES)	E URAGI NATION			Examin	ation Sche	me		
		Category					Prac/Tut									
							orial/									
	Lecture Studio Seminar Total Dur (hrs) Theory Practical CIE MARKS VIVA TERM WORK TOTAL CREDITS															
			-		core	applied					-	-				
	1 24ARC51	PC	Architectural Design-V	1	3	2	2	8	-	-	-	100	100	-	200	8
	2 24ARC52	BS & AE	Building construction and Materials - V	1	2	1	0	4	-	-	-	50	50	-	100	4
	3 24ARC53	HSMC	Building Economics and Sociology	3	0	0	0	3	3	50	-	50		-	100	3
	4 24ARC54	PC	Theory of Architecture	3	0	0	0	3	3	50	-	50	-	-	100	3
	5 24ENG55	BS & AE	Structures-V	3	0	0	0	3	3	50	-	50		-	100	3
	5 24ARC56	PC	Building Services-III	3	0	0	0	3	3	50	-	50		-	100	3
	7 24ARC57	SEC	Computer Application in Architecture-IV	1	0	0	2	3	-	-	50	50		-	100	3
	8 24ARC58	BS & AE	Working Drawing-II	0	3	0	0	3	-	-		50	50	-	100	3
	9 24ARC59X	PEC	Elective -A	1	0	0	0	1				50	50		100	1
			TOTAL	16	8	3	4	31	9	150	50	500	250	-	1000	31
			ARC=Arc	hitectural Subjec	tsART=Art Sul	jectsENG =	Engineerin	g Subje	tsHUM = Hu	umanities S	ubjects.					

No. of Theory Examinations =3

PE: Professional Elective Courses HSMC-Humanity Science and Management course

OE: Open ElectiveCourses (PC): Project Core

Progressive Marks to be awarded by the subject teacher. Term work & Viva Voce examination shall be conducted jointly by one internal & one external examiner appointed by the University

Minimum Marks for passing: ProgressiveMarks50%, Theory marks, Term work marks and Viva marks 50% ineach

 Subject Categories': Professional
 BS&AE: Building Sciences & Applied Engineering Courses

 PAEC: Professional Ability EnhancementCourses
 SEC: Skill Enhancement Courses

(PC): Project Core	

ELECTIVE-A

1.Climate Responsive Design -24ARC591	
2.Vernacular Architecture-24ARC592	



					FACI SHARNBAS	ULTY OF SVA UNIV	ARCHITE ERSITY, I	CTURI KALAB	E URAGI								
					SCHEME OF	TEACHI	NG AND I	EXAMI	NATION								
					VI SI	EM B. ARG	CH (2024 S	SERIES)								
Sl.no	Course code	Course Category	Title of Course	Te	aching Scheme	e in Periods	s per Week	l.				Examin	ation Schei	me			
							Prac/Tut orial/										-
	Lecture Studio Seminar Total Dur (hrs) Theory Practical CIE MARKS VIVA TERM WORK TOTAL CREDITS																
	core applied															1	
	1 24ARC61	PC	Architectural Design-VI	1	3	2	2	8	-		-	100	100	-	200	8	
	2 24ARC62	BS & AE	Building construction - VI	1	2	1	0	4	-		-	50	50	-	100	4	
	3 24ARC63	PC	Physical Planning-I	3	0	0	0	3	3	50	-	50	-	-	100	3	
	4 24ARC64	PAEC	Study Tour and Documentation	0	0	0	1	1			-	50	-	-	50	1	
	5 24ENG65	BS & AE	Structures-VI	3	0	0	0	3	3	50	-	50	-	-	100	3	
	6 24ARC66	PC	Professional Practice-I	3	0	0	0	3	3	50	-	50	-	-	100	3	
	7 24ARC67	SEC	Computer Application in Architecture-IV	1	0	0	2	3	-	-	50	50		-	100	3	
	8 24ARC67	PC	Building Acoustics	3	0	0	0	3	3	50	-	50	-	-	100	3	
	9 24ARC6XX	BS & AE	Elective-B	1	0	1	0	2	3	50	-	50	-	-	100	2	
1	0 24ARC69	PAEC	Traffic Awareness and Road Safety	1	0	0	0	1	-	-	-	50	50		100	1	The CO
			TOTAL	17	5	4	3	31	15	250	-	550	200	-	1000	31	
			ARC=Arch	itectural Subje	ctsART=Art Sub	jectsENG =	Engineerin	ig Subjeo	ctsHUM = H	umanities S	ubjects.						

No. of Theory Examinations =06

Progressive Marks to be awarded by the subject teacher. Term work & Viva Voce examination shall be conducted jointly by one internal & one external examiner appointed by the University

Minimum Marks for passing: ProgressiveMarks50%,Theory marks, Term work marks and Viva marks 50% ineach

 Subject Categories': Professional
 BS&AE: Building Sciences & Applied Engineering Courses
 PE: Professional Elective Courses
 HSMC-Humanity Science and Management course

 PAEC: Professional Ability EnhancementCourses
 SEC: Skill Enhancement Courses
 OE: Open ElectiveCourses
 (PC): Project Core

(PC): Project Core	
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ELECTIVE-B	
1.Housing -24ARC681	
2.Architectural Conservation-24ARC682	

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				FACI SHARNBAS SCHEME OF VII S	ULTY OF A SVA UNIVI F TEACHII EM B. ARG	ARCHITE ERSITY, F NG AND E CH (2024 S	CTURI KALAB XAMII SERIES	E URAGI NATION)							
Sl.no Course code	Course Category	Title of Course	Tea	aching Scheme	e in Periods	per Week					Examin	ation Sche	me		
i	Prac/Tut orial/ Lecture Studio Studio Seminar Total Dur (hrs) Theory Practical CIE MARKS VIVA TERM WORK TOTAL														
	Lecture Studio Seminar Total Dur (hrs) Theory Practical CIE MARKS VIVA TERM WORK TOTAL CREDITS														
	core applied														
1 24ARC71	PC	Architectural Design-VII	1	3	3	2	9	-	-	-	100	100	-	200	9
2 24ARC72	BS & AE	Building construction - VII	1	1	2	0	4	-	-	-	50	50	-	100	4
3 24ARC73	PC	Physical Planning-II	1	2	0	2	3	-	-	-	50	50	-	100	3
4 24ARC74	PC	Urban design	2	0	1	0	3	3	50	-	50	-	-	100	3
5 24ENG75	BS & AE	Structures-VII	3	0	0	0	3	3	50	-	50	-	-	100	3
6 24ARC76	PC	Professional Practice-II	3	0	0	0	3	3	50	-	50	-	-	100	3
7 24ARC77	PC	Estimation and Costing	1	0	2	0	3	3	50	-	50	-	-	100	3
8 24ARC78X	8 24ARC78X OE Elective-C 1 0 2 0 3 - 50 - 100 3														
	TOTAL 13 6 10 4 31 12 200 - 450 250 - 900 31														
		ARC=Architec	tural Subjec	tsART=Art Sub	jectsENG =	Engineerin	g Subjeo	tsHUM = Hi	umanities S	ubjects.					

No. of Theory Examinations =04

Progressive Marks to be awarded by the subject teacher. Term work & Viva Voce examination shall be conducted jointly by one internal & one external examiner appointed by the University

Minimum Marks for passing: ProgressiveMarks50%, Theory marks, Term work marks and Viva marks 50% ineach

Subject Categories': Professional BS&AE: Building Sciences & Applied Engineering Courses
PAEC: Professional Ability EnhancementCourses SEC: Skill Enhancement Courses

PE: Professional Elective Courses HSMC-Humanity Science and Management course OE: Open ElectiveCourses (PC): Project Core

(PC): Project Core

1.Interior Design -24ARC781 2.Earthquake Resistance-24ARC782



	FACULTY OF ARCHITECTURE															
	SHARNBASVA UNIVERSITY, KALABURAGI															
	SCHEME OF TEACHING AND EXAMINATION															
	VIII SEM B. ARCH (2024 SERIES)															
Sl.no	Course code	Course	Title of Course	Tea	ching Scheme	e in Periods	per Week					Examin	ation Sche	me		
		Category														
							Prac/Tut									
							orial/									
					Stud	io	Seminar	Total	Dur (hrs)	Theory	Practical	CIE MARKS	VIVA	TERM WORK	TOTAL	CREDITS
					core	applied						•				
1	24ARC81	PC	Architectural Design-VIII	1	3	3	2	9	-			100	100		200	9
2	24ARC82	PC	Advanced Building Construction and Materials	2	2	2	0	5				50	50		100	5
3	24ARC83	BS & AE	Pre Design Thesis	0	0	3	0	3	-			50	50		100	3
4	24ARC84	PC	Construction Management	3	0	0	0	3	3	50		50			100	3
5	24ARC85	PC	Landscape Design	2	1	0	0	3	3	50		50			100	3
6	24ARC86	ним	Constutional Law	2	0	0	0	1	2	50		50			100	1
7	24ARC87	PAEC	Sustainable Architecture	2	0	1	0	3	3	50		50			100	3
8	24ARC8XX	BS & AE	Elective-D	1	0	1	0	2				50	50		100	2
			TOTAL	13	6	10	2	29	11	200		450	250		900	29
1			ARC=Architec	tural Subject	tsART=Art Sub	ojectsENG =	Engineerin	g Subjec	tsHUM = Hu	umanities S	ubjects.					

No. of Theory Examinations =04

Progressive Marks to be awarded by the subject teacher. Term work & Viva Voce examination shall be conducted jointly by one internal & one external examiner appointed by the University

Minimum Marks for passing: ProgressiveMarks50%,Theory marks, Term work marks and Viva marks 50% ineach

Subject Categories': Professional	al BS&AE: Building Sciences & Applied Engineering Courses						
PAEC: Professional Al	pility EnhancementCourses	SEC: Skill Enhancement Courses					
(PC): Project Core							

PE: Professional Elective Courses HSMC-Humanity Science and Management course OE: Open ElectiveCourses (PC): Project Core

ELECTIVE-D	
1.Furniture Design -24ARC871	
2.Energy Efficient Building Design-24ARC872	



	FACULTY OF ARCHITECTURE SHARNBASVA UNIVERSITY, KALABURAGI SCHEME OF TEACHING AND EXAMINATION															
	IX SEM B. ARCH (2024 SERIES)															
Sl.no	Course code	Course	Title of Course		Du	ration			Examination Scheme							
		Category														
									Dur (hrs)	Theory	Practical	CIE MARKS	VIVA	TERM WORK	TOTAL	CREDITS
	1 24ARC91 PAEC Professional Training 16 weeks (100 working days)						100	100		200	26					
TOTAL											100	100		200	26	
				ARC=Architectural Subject	ctsART=Art Sub	jectsENG =	Engineerir	g Subjec	tsHUM = Hi	umanities S	Subjects.					

No. of Theory Examinations =00

Progressive Marks to be awarded by the subject teacher, based on the work progress and report by the employer. Term work & Viva Voce examination shall be conducted jointly by one internal & one external examiner appointed by the University

Minimum Marks for passing: ProgressiveMarks50%,Theory marks, Term work marks and Viva marks 50% ineach

Subject Categories': Professional BS&AE: Building Sciences & Applied Engineering Courses PAEC: Professional Elective Courses HSMC-Humanity Science and Management course PAEC: Professional Ability EnhancementCourses SEC: Skill Enhancement Courses OE: Open ElectiveCourses (PC): Project Core (PC): Project Core



	FACULTY OF ARCHITECTURE															
	SHARNBASVA UNIVERSITY, KALABURAGI															
	SCHEME OF TEACHING AND EXAMINATION															
	X SEM B. ARCH (2024 SERIES)															
SI.	no Course code	Course	Title of Course	Teaching Scheme in Periods per Week				Examination Scheme								
		Category														
							Prac/Tut									
							orial/									
				Lecture	Stu	udio	Seminar	Total	Dur (hrs)		Theory	CIE MARKS	VIVA	TERM WORK	TOTAL	CREDITS
					core	applied										
	1 24ARC101	PC	Architectural Design Project (Thesis)	0	10	8	2	20	-			100	200		300	20
	2 24ARC102	PC	Seminar	1	2	0	1	4	-			50	50		100	4
TOTAL					12	8	3	24	-			150	250		400	24
			ARC=Architec	tural Subject	SART=Art S	ubiectsENG =	Engineerin	g Subied	ctsHUM = Hu	imanities S	ubiects.					

No. of Theory Examinations =0

Subject Categories': Professional BS&AE: Building Sciences & Applied Engineering Courses
PAEC: Professional Ability EnhancementCourses
(PC): Project Core
SEC: Skill Enhancement Courses

PE: Professional Elective Courses HSMC-Humanity Science and Management course OE: Open ElectiveCourses (PC): Project Core

TITLE OF THE COURSE: ARCHITECTURAL DESIGN – I

B.ARCH, I SEMESTER

Course code: 24ARC11	CIE Marks: 100
Contact Periods/week: 7(06 Studio & 1 Lecture)	SEE Marks(VIVA): 100
Total number of lecture/studio hours: 105 Hours	Exam Hours : -
Credits - 7	

OBJECTIVE:

- To develop the ability to translate abstract principles of design and elements into architectural solutions for simple problems.
- Understanding the relation between form and function.

MODULES	TEACHING
	HOURS
MODULE-I	
 Introduction to Architecture What architectural education entails? What being an architect involves? Understanding of Architecture's connection with other disciplines of knowledge: science & Technology, Mathematics, Philosophy, Religion, Sociology, Psychology, etc. MODULE-II 	10
 2. Introduction to Principles of Design: Elements of form from abstract concepts like point, line, plane, mass and / or volume, 2D forms - circle, square and triangle, 3D forms - cube, sphere and pyramid, therefore, development of more complex forms by the method of addition and / or subtraction. Concepts of volume and scale, width to height ratio. Concepts of composition like rhythm, contrast, balance and symmetry. 	12
MODULE-III	
 3. Introduction to Anthropometry: Understanding the relationship between function and spatial requirements with respect to the human body and its postures. Minimum and optimum areas for mono functions. User's data, movement and circulation diagrams. 	23

MODULE-IV							
 4. Introduction to Design process – Understanding the relationship between idea, context, space (form & structure), and functional requirements. Introduction to the various methods of idea / concept generation - use of form, patterns in nature and in geometry, music, text, and other allied fields. Space planning based on activity, which will involve the entire body, and its movement in space. 	20						
MODULE-V							
5. Design of Spaces such as Studio Apartment (block), Pavilion, gazebo, kiosk, bus stop, stage, living/dining, bedrooms, Architect's office, Doctor's clinic etc.	40						

Note-

- Discussions, presentations, and case studies will cover all the topics.
- The portfolio covering all the assignments shall be presented for term work.
- The requirements pertaining to the handicapped or disabled friendly design solutions and elderly people are to be addressed in design and detailing.

STUDIO PROJECT:

The portfolio covering the above topics shall be presented for term work/ viva examination including a design submission with Model of a bungalow designed in Architectural Design with landscape of the proposal to be submitted.

COURSE OUTCOME:

- 1. Apply the concepts of Architecture design and understand the Profession.
- 2. Apply the concepts for space required. To understand the basic Principles and design elements.
- 3. Apply the concepts of Anthropometry in designing spaces.
- 4. Apply the concepts of Design element and principles to design different spaces.
- 5. Implement simple building elements for any area w.r.t Design methodology

REFERENCE:

- 1. Alain de Botton, "How Proust Can Change your life", Picador, 1997.
- 2. Alain de Botton, "The Architecture of Happiness", Sep. 2006, Vintage Books.
- 3. Alan Fletcher, " The art of looking sideways", Phaidon Press, 2001 and Partis", Van Nostrand Reinhold, 1985

- 4. Anthony Di Mari and Nora Yoo, " Operative Design: A Catalogue of Spatial Verbs", 2012, BIS Publishers.
- 5. Anthony Di Mari, " Conditional Design: An Introduction to Elemental Architecture", 2014, 1st Edition, Thames & Hudson.
- 6. Bruno Munari, "Design as Art", Penguin UK, 25-Sep-2008
- 7. Charles George Ramsey and Harold Sleeper, "Architectural Graphic Standards", 1992, Wiley
- 8. Christopher Alexander, "Notes on the Synthesis of Form", 1964, Harvard University Press.
- 9. Debkumar Chakrabarti, " Indian Anthropometric Dimensions For Ergonomic Design Practice", 1997.
- 10. François Blanciak, "Siteless: 1001 Building Forms", 2008, MIT Press
- 11. Frank Ching, James F. Eckler, "Introduction to Architecture", 2012, John Wiley & Sons, US
- 12. Frank D.K. Ching, "Architecture: Form, Space, and Order", 4th Edition, Sep. 2014, John Wiley & Sons
- 13. Herman Hertzberger, "Lessons for Students in Architecture", 2005, 010 Publishers
- 14. Italo Calvino, " Invisible Cities", Harcourt Brace Jovanovich (May 3, 1978)
- 15. John Berger, "Way of SEE MARKSing", 1972, Penguin, UK
- 16. John Hancock Callender, " Time-Saver Standards for Architectural Design Data", 1982, McGraw-Hill
- 17. Michael Pause and Roger H. Clark, "Precedents in Architecture: Analytic Diagrams, Formative Ideas, National Institute of Design.
- 18. Paul Jacques Grillo, "Form, Function and Design", 1975, Dover Publications, New York
- 19. Paul Jacques Grillo, "What is Design?", 1960, P. Theobald
- 20. Paul Lewis, MarcTsurumaki, David J. Lewis, "Manual of Section", Princeton Architectural Press, 2016
- 21. Peter H. Reynolds, "The Dot", 2013, Candlewick Press
- 22. Philip Jodidio, "Tree houses. Fairy tale castles in the air", 2012, Taschen
- 23. Robert W. Gill, "Rendering with Pen and Ink", Van Nostrand Reinhold (1 June 1984)
- 24. Tom Alphin, "The LEGO Architect", 2015, No Starch PressCourse Outcomes with Program Outcomes and Program Specific Outcomes mapping

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B.ARCH Syllabus : I & II Semester 2024-25

									D							D
COURSE		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
OUTCOMES		0	0	0	0	0	0	0	0	0	0	0	0	S	S	S
		1	2	3	4	5	6	7	8	9	1	1	1	0	0	0
											0	1	2	1	2	3
C 0 1	Apply the concepts of Architecture design and understand the Profession	2		3	3	2	2	2							2	
C 0 2	Apply the concepts for space required. To understand the basic Principles and design elements.	2	2	3	2	2	2	2	2		1			3	2	
C O 3	Apply the concepts of Anthropometry in designing spaces.	2	2	3	3	1	2	1	2		2			2		
C O 4	Apply the concepts of Design element and principles to design different spaces.	2		3	3	2	2	2							2	
C O 5	Implement simple building elements for any area w.r.t Design methodology	2	3	3	2	2	2	3	2			1		1	3	2
	AVERAGE	2	2	3	3	2	2	2	2		2	1		1	3	2

TITLE OF THE COURSE: BUILDING CONSTRUCTION & MATERIALS -I

B.ARCH, I SEMESTER

Course code :24ARC12	CIE Marks :50
Contact Periods / Week : 4(2 lecture+ 2 Studio)	SEE Marks(VIVA) : 50
Total Number of Lecture/ Studio Hours: 60	Exam Hours: -
Credits:04	

Course learning Objective:

- 1. To introduce students to primary building materials and simple construction techniques as Applicable to a low-rise building- three to four-storied contemporary building.
- 2. To develop an understanding of brick bonding, foundation details, external wall section with flat roof and parapet.

SL.NO	MODULES	TEACHING HOURS
1	MODULES-IVarious tools and equipment commonly used in constructionIntroduction to building componentsusage of basic buildingmaterials and construction methods - load bearing construction andframed structure.Introduction to various building components and their function,various conventions used for Drawingsplans; sections andelevations.	12
`2	 MODULE-II Introduction to Bricks and Tiles - Types, properties and manufacturing methods & process; uses of bricks for aesthetic & structural purpose. Types of brick masonry, walls, bonds, buttress, arches, lintels, vaults and domes. Site visit – field visit to construction sites and hands on explanation of basic brick Masonry bonds 	12

3	MODULE-III						
	Introduction to cement, types of cement, properties, grades and uses.						
	Introduction to sand, properties, types of sand and uses.						
	Lime – varieties, properties and uses in building	12					
	Lime Mortar – Preparation and application						
	Concrete: composition, properties, uses, water cement ratio, grade of concrete. PCC RCC, lightweight concrete, autoclave concrete, hollow concrete block						
4	MODULE-IV						
	Introduction Foundation. its function ,design criteria, safe bearing capacity of different types of soil. foundation types ,introduction DPC(horizontal & vertical) waterproofing materials	12					
5	MODULE-V						
	Stones – Types, properties quarrying and uses of stone for aesthetic & structural purpose.	12					
	Stone construction – types of masonry, Stone arches, lintels, coping	12					
SUBMISSION:							
Minimum one plate on each topic, Site visit is mandatory for all the topics, site visits to be arranged by studio teacher for study of material and methods of construction							
Submissio	n of progressive work in the form of a portfolio for CIE and Viva evaluation	ation.					

COURSE OUTCOMES: After studying this course, students will be able to understand;

- 1. Recognize different building components and application of building construction techniques for load bearing and framed structure.
- 2. Identify bricks and tiles for construction work and its application in various buildings
- 3. Application of cement, sand, lime and various concrete blocks
- 4. Analyze different types of foundation in brick and stone and its utilization as per the design requirement.
- 5. Recognize and implement various types of stone and stone masonry techniques.

REFERENCE BOOKS:

- 1. "Building Construction" by W.B.Mackay
- 2. "ConstructionTechnology"byChudley
- 3. "Construction of Building" by Barry
- 4. "Building Constructon" by Rangawala
- 5. "Building Constructon" by Punmiya

Course Outcomes with Program Outcomes and Program Specific Outcomes mapping:

	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PO	PO1	PS	PS	PSO3
20	10				ĨŪ	10				101	10	101	15	15	1303
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CO2		3												3	
														_	
CO3			2											3	
000			_											C	
CO4		2		1										3	
		2												5	
CO5	3													3	
AVG	3	2.	2											3	
	_	5												_	
		5													
			1 '												

TITLE OF THE COURSE :ARCHITECTURAL GRAPHICS -I

B.ARCH, **I SEMESTER**

Course Code :24ARC13	CIE Marks :50
Contact Periods / Week : 4(1 lecture+3 Studio)	SEE Marks(Term Work) : 50
Total Number of Lecture/ Studio Hours: 60	Exam Hours: -
Credits:04	

Course learning Objective:

- 1. To introduce students to the fundamental techniques of Architectural drawings and also twodimensional representation of built elements and built forms.
- 2. To develop the ability of individual students to perceive three dimensional objects and enhance visualization skills.

SL.NO	MODULES	TEACHING
		HOURS
1	MODULES-I	12
	1. Introduction to visual representation of Graphics.	
	a. Introduction to the basic principles of drawing and lettering	
	used in architectural drawings.	
	b. Introduction to sign conventions used in drawings.	
	c. Concept of scale, dimensioning and its application.	
2	MODULE-II	12
	2. Introduction to Euclidian Geometry.	
	a. Construction of lines, angles, triangles, quadrilaterals and	
	regular polygons	
	b. Introduction to development of simple surfaces of basic	
	geometrical shapes and its application.	
3	MODULE-III	10
	3. Introduction and construction techniques of solid geometry.	
	a. Plane curves, ellipse, parabola, hyperbola and oval.	
	b. Typical arch shapes.	
4	MODULE-IV	12
	4. Orthographic projection (First angle projection)	
	a. Principles of orthographic projections and projection of points,	
	lines, planes and solids.	
	b. Projection of architectural solids, built elements and forms.	

5	MODULE-V	14						
	5. 3D projections – Isometric and Axonometric projection							
	a. 3D projection I – Introduction to Isometric projections and their views of solids, simple Architectural built elements and forms.							
	b. 3D projection II – Introduction to Axonometric projections and their views of solids, simple architectural built elements and forms.							
Note: A consolidated portfolio containing exercises related to each of above topics are to be submitted for term work examination.								
Outline: At the end of the semester, the students will be equipped with graphical skills which shall be useful in translating the graphical ideas into technically appropriate drawing presentations.								

COURSE OUTCOMES: After studying this course, students will be able to ;

- 1. Analyze the visual representation of Architectural & graphical drawing.
- 2. Identify the simple development surfaces of basic geometrical shapes.
- 3. Recognize the different techniques in construction of objects.
- 4. Analyze the principles of orthographic projections.
- 5. Distinguish the Isometric and Axonometric projection of Architectural elements.

REFERENCE BOOKS:

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- 1. IS 962 for Architectural graphics standards
- 2. "Engineering Drawing" by N D Bhat
- 3. "Geometrical Drawing for Arts Students" By IH Morris
- 4. "Engineering Drawing Vol I and II" by KR Gopalkrishna
- 5. "A primer on computer aided engineering drawing" by VTU
- 6. Architectural Rendering the techniques of contemporary presentation by Albert o Halse.

Course Outcomes with Program Outcomes and Program Specific Outcomes mapping

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CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO 11	PO1 2	PS O1	PSO2	PSO3
CO 1										2		3			
CO 2	1	2				1				2					
CO 3	1									2		3			
CO 4	1	1		3						2					
CO 5	1									2		3			2
AV G	1	1. 5		3		1				2		3			2

TITLE OF THE COURSE: HISTORY OF ARCHITECTURE – I

,	-
Course Code :24ARC14	CIE Marks :50
Contact Periods / Week : 3(3 lecture)	SEE Marks:50
Total Number of Lecture/ Studio Hours: 45	Exam Hours:03
Credits:03	

B.ARCH, I SEMESTER

Course learning Objective:

- 1. To appreciate the culture and architecture of first societies and early civilizations.
- 2. (The scope limited from Prehistory, Stone Age to civilizations across continents, early Iron Age); to develop critical reading, discussion and representation skills for architectural history.

SL.NO	MODULES	TEACHING
		HOURS
1	MODULE-I	8
	1. Introduction meaning, methods and significance of History and	
	Architecture's connection with History	
	2. Pre historic world-primitive man, shelter, settlements, religious &	
	burial system	
	Ex - oval Hut, Catal Huyuk, Henge monuments – stone Henge, &	
	passage grave.	-
2	MODULE-II	9
	3. River valley cultures – Tigris and Euphrates & Nile	
	Ex – Pyramid of Cheops, temple of Khons, Karnak.	
	3. Introduction to Pre-Classical Architecture, Indus valley civilization	
	City planning principles. (Indian sub-continent): Aryan and early	
	Mauryans.	
	(mondolos) Poloco et Potelinutro	
	(mandalas), I alace at I atanputta.	
3	MODULE-III	10
	4. Pre-Classical - Mycenean & Etruscan	
	Ex – The Palace, Tiryns	
	Ex – The Temple of Juno sospita, Lanuvium.	
	5. Classical - Greek and Roman, Study of principles of Designs,	
	Proportions, compositions and visual effects.	
	Ex – Doric, Ionic & Corinthian orders, Optical corrections, Temple	
	Parthenon	
	Ex – Tuscan and composite orders and Temple Parthenon, Basilica of	
	Tragan.	

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4	MODULE-IV	9
	5. Ecclesiastical – Early Christian, Byzantine, medieval and Gothic	-
	Architecture	
	Ex – Basilican Church of St. Peter, Roam	
	Ex – Hagia Sophia at Istanbul.	
	Ex - The Cathedral at Pisa.	
	Ex – Notre Dam Paris.	
5	MODULE-V	9
	1. Chinese Civilization (Yellow and Yangtze): Forces shaping	
	settlements and habitats. E.g.:Niuheliang Ritual Center and dwellings	
	at Banpo, Shang dynasty (Layout of Zhengzhou, Palace and Tomb at	
	Yin), Zhou dynasty (ritual complex and Wangcheng Plan).	
	2. Japanese Civilization: Forces shaping settlements and habitats.	
	E.g.:Jomon and Yayoi Period (dwellings), Kofun Period (burial	
	mounds/ tumulus)	
COURS	E OUTCOMES: After studying this course, students will be able to;	
1. Ident	ify the history & settlement of Pre-historic Primitive man.	
2. Ident	ify and apply the concept of progression of art & architecture of River	valley and Vedic
cultu	res.	
3. Disti	nguish between Pre-classical & classical period with the help of examples	such a Mycenae,
the P	Palace, Greek & Roman, Doric, Ionic, Tuscan etc.	
4. Appl	ication of Ecclesiastical style in early Christian, Byzantine Med	ieval & Gothic
archi	tecture.	
5. Ident	ify the characteristics of planning in the Chinese Civilization and Japanese	e Civilization.
REFERE	ENCE BOOKS:	
1. "Histo	bry of Architecture" by Benistar Fletcher.	

2. Pre History of Post modernism by Marvin & Isabel.

Course Outcomes with Program Outcomes and Program Specific Outcomes mapping:

СО	Р	PO	PS	PS	PS										
	O 1	2	3	4	5	6	7	8	9	10	11	12	01	O2	03
CO1						3						3	3		
CO2							3						3		
CO3						3		3					3		
CO4								3				3	3		
CO5								3				3	3		
AVG													3		

TITLE OF THE COURSE: STRUCTURES - I

B.ARCH, I SEMESTER

Course Code :24ENG15	CIE Marks :50
Contact Periods / Week : 3(3 lecture)	SEE Marks: 50
Total Number of Lecture/ Studio Hours: 45	Exam Hours:03
Credits:03	

Course learning Objective:

1. To give an introduction to the basic principles governing structural systems.

SL.NO	MODULES	TEACHIN C HOURS
		GHOURS
1	MODULES-I	9
	Scalars and Vectors, Classification of force, force system, parallelogram	
	law of forces, Principles of transmissibility, principle of superposition	
	and Varignon's Theorem, Resolution and Resultant of co-planner,	
	concurrent and non-concurrent force system.	
2	MODULE-II	9
	Equations of static equilibrium and Free- body Diagrams. Lami's Theorem, Friction, types of friction, laws of Dry Friction, numerical problems on Blocks, wedge and ladder.	
3	MODULE-III	9
	Support and support reactions – types of loads, supports and their significance. Concept of statically Determinate and In-determinate structures. Determination of support reactions statically determinate beams and Structures.	

4	MODULE-IV	9							
	Centre of gravity- Determination of centroid of standard geometrical figures by first principle, axis of symmetry. Determination of centroid of symmetrical and Asymmetrical axes of simple Lamina, Parallel Axis Theorem, perpendicular Axis Theorem moment of inertia and Radius of Gyration M.I of regular geometrical lamina by first principles, Determination of M.I of simple figures (Simple numerical problems)								
5	MODULE-V	9							
	Analysis of Trusses – Definition of perfect, deficient, and redundant trusses. Analysis of determinate trusses by method of joints and sections. (Simple numerical problems).								
COURSE	OUTCOMES: After studying this course, students will be able to;								
1. C 2. D	Classify the force system and determine the resultant of force system. Determine the forces acting on Blocks, Wedge and ladder using laws of frict	tion.							
3. Io	dentify the types of loads, supports, and calculate support reactions.								
4. D	Determine C.G and M.I of Geometrical properties of plane figures.								
5. A	Analyse Truss by method of joint and method of section								
REFERENCE BOOKS:									
1) K.K.Bansal, A Textbook of Engineering Mechanics", Laxmi Publications, 2008									

2) S.S. Bhavikatti, "Engineering Mechanics", New Age International, 1994.

3) S. Ramamrutham, "Engineering Mechanics ", DhanpatRai Publishing, New Delhi, 2016.

Course Outcomes with Program Outcomes and Program Specific Outcomes mapping:

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CO	PO	PO	Р	PO	PO	PO	PO	PO	PO	PO1	PO1	PO1	PSO1	PSO2	PSO3
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TITLE OF THE COURSE: BASIC DESIGN AND VISUAL ARTS

B.ARCH, I SEMESTER

Course Code : 24ART16	CIE Marks :50
Contact Periods / Week : 4 (1 Lecture & 3 Studio)	SEE Marks (Term Work) : 50
Total Number of Lecture/ Studio Hours: 60	Exam Hours : –
Credits:04	

Course learning Object-

To introduce the develop an understanding of principles of design in abstract and to introduce the student to visual arts.

To introduce observation skills and to improve sensitivity to surroundings.

To introduce various sources of inspiration for creativity.

SL.NO	MODULES								
		G HOURS							
1	MODULE-I	8							
	Composition: Elements of design and Principles of design.								
	• To develop an understanding of Composition.								
	 Principles of Design- Balance, Emphasis, Movement, Repetition, Proportion & Scale, Unity, etc., 								
	• Various Exercises on Elements of design- Line, Shape, Color, Texture, Pattern, etc.,								
2	MODULE-II	9							
	Observation and Study								
	Selection of two Indoor & outdoor objects/systems and observation of their natural occurrence, relationships with context, form & structure, colors & textures, and function Sketching & visual representation in various media.								
	3 dimensional modeling in appropriate medium (Clay/paper/wire/plaster/wax etc.).								

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3	MODULE-III	9						
	Free Hand Sketching: Objects & Surroundings.							
	Free hand outdoor sketching within the campus.							
	Exercises of free hand pencil drawings, sketches on natural elements with various rendering techniques.							
	Sketches of objects, solids, furniture, architectural							
	Elements and built forms.							
4	MODULE-IV	9						
	Color Theory:							
	Color wheel - Primary color, secondary color, tertiary color, quaternary color, intermediate colors.							
	Color harmony aromatic, monochromatic harmony, chromatic harmony.							
	Complementary colors – Warm colors harmony, cool colors harmony, tints and shades, natural colors							
5	MODULE-V	8						
	Material Study:							
	Selection of two materials used in everyday life (textiles, Earthenware, terracotta, metals, stone, plastic, glass etc.) Study of properties, Strength, examples of use.							
	Sketching & visual representation of material in various media, like Paper, clay, plaster, wood, wire, wax, photography.							
	Hands-on making of object/joint/structure of own choice with one of the materials studied.							

COURSE OUTCOMES: After studying this course, students will be able to

- 1. Apply Elements of design and Principle of design.
- 2. Draw sketches and prepare 3D Model.
- 3. Draw free hand sketches using different types of pencils and learning various rendering techniques.
- 4. Demonstrate the color theory through color wheel such as primary, secondary and tertiary.
- 5. Understanding of materials through different medium like clay, wood, wire etc.

Teaching Learning Process:

- Studios to conduct hands on work with models, sheets, drawings in Basic Design
- · Indoor and outdoor sketching in various medium to explore visual arts.

Note: Progressive marks to include Submission of a portfolio of sketches, sheets and study models, etc.

REFERENCE BOOKS:

- 1. Donald Norman, 'Design of Everyday Things", Basic Books; 2 edition (5November 2013)
- 2. JohnBerger, 'WaysofSEE MARKSing'1972, Penguin, UK
- 3. MaitlandGraves, 'TheArtofColorandDesign',McGraw-Hill,1951
- 4. Robert Gill, "Rendering with Pen and Ink", Thames & Hudson; Revised, Enlarged edition (2 April19).
- 5. Francis D.K. Ching," Architecture: form, space & order", John Wiley & Sons, 2010
- 6. Fred S. Kleiner, "Art through the Ages", Cengage Learning; 14 edition, 2012

Course Outcomes with Program Outcomes and Program Specific Outcomes mapping:

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CO	PO	PO	Р	PO	PO	PO	PO	PO	PO	PO1	PO	PO12	PSO1	PSO2	PSO3
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	1	2	U	-	5	0	'	0	,	U	11				
			3												
CO	2		2	2	2			3					3	2	
CO	2		2	2	2			3					5	2	
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TITLE OF THE COURSE : MODEL MAKING WORKSHOP B.ARCH, I SEMESTER

Course Code : 24ART17	CIE Marks :50
Contact Periods / Week : 2(1 Lecture+1 Studio)	SEE MARKS : -
Total Number of Lecture/ Studio Hours : 30 Hrs	Exam Hours: -
CREDITS: 02	

Course learning Objective:

Objective:- • To develop techniques for 3 dimensional representation

To improve the students' overall capability in model making that help them to translate their architectural ideas..

SL.NO	OUTLINE	TEACHING HOURS
1	MODULE I : Introduction to Model Making .	6
	Introduction to various materials for model making like paper, thermocol , clay, ceramic, plastic sheet, sheet metal, wood etc. Selection of material for model making. Introduction to various tools for model making Application of tools, suitability, and safety precautions.	
	Model making of geometrical objects such as cube, cuboids, pyramid, cone etc leading to a small two room building model with landscaping using mount board, box board etc.	
2	MODULE II : Geometric and Free form	6
	Exercises related to Geometric and free form using various materials such as paper, thermocol, clay, plastic sheet, sheet metal, wood etc.	
	Preparing space models using steel wires by soldering, simple welding etc. use of wax, wire metal, POP for makings spatial forms.	
3	MODULE III : Carpentry – Demonstration to the use of different types of tools used in carpentry. Painting, varnishing and melamine finishes to wooden surface and plywood. Demonstration of different types of joints, fixing of veneers/laminates on different types of timber surfaces i.e., teak and commercial woods viz. ply, block boards, particle boards.	6
4	MODULE IV : MODERN TECHNIQUES Wall painting with and without luppum on OBD,enamel . Introduction to CNC Cutting, 3D Printing. (Site Visit).	6

5	MODULE V : Architectural models	6								
	Study and presentation Models should preferably be coordinated with other subjects like Design/Building technology/Theory of Structure/ History of Architecture etc.									
Text boo	oks									
1. Mode	l Building for Architects and Engineers by John Taylor.									
2. Archi	tectural Models by Rolf Janke.									
3. Colo	r on Metal by Tim Mc Creight & Nicole Bsullak .									
4. The c	complete book of drawing techniques, by Eugene Felder & Emmett Elvin.									
5. Arch Ryland l	itectural Model making by Nick Dunn. 6. Paper Scissor Glue by Catherine N Peters & Small	lorman,								
COURS	E OUTCOMES: After studying this course, students will be able to-									
 Reco Crea prac Ana Iden cons Crea 	 Recognize and utilize different materials for model making. Create Different Geometrical Models and analyze the spatial models practically. Analyze different tools for carpentry works and implement the methods. Identification and demonstration of latest techniques and materials materials of various construction elements . Create Aesthetic Architectural models . 									
Co1 Stu material and free the worl CO 5 St built for	Co1 Students will be able to understand the importance of Model making and different types of material, tools and Techniques in model making. CO 2 Students will be able to create geometric and free form models which convey innovative thoughts. CO 3 Students will be able to understand the workshop practice and explore modern manufacturing methods CO 4 Students will be able to CO 5 Students will be able to relate to scaled models to know the geometry of simple and complex built forms									
REFER 1. Arja publ 2. Davi 3. Jocq Serie 4. Matt 5. Meg	ENCE BOOKS: n Karssen and Bernard otte, "Model making: conceive, creaye and cor ishers (November 11, 2014) d Neat, "Model-Making: Materials and Methods", Cro Wood Press,2008 uiAtkin, "250 tips, techniques, and trade secrets for potters", Barron es,2009 Driscoll, "ModelMakingforArchitects", TheCrowoodPressLtd,2013 an Werner, "Model making", PrincetonArchit.Press,2010	vince", frame 's Educational								
6. Nick	VickDunn,"ArchitecturalModelMaking",LaurenceKingPublishing,2014									

7. Roark T. Congdon, "ArchitecturalModel Building", Fairchild Books; 1 edition, 2010.

Course Outcomes with Program Outcomes and Program Specific Outcomes mapping:

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CO	P	PO	PS	PSO	PSO3										
	0	2	3	4	5	6	7	8	9	10	11	12	01	2	
	1														
CO1	2												3		
CO2			2										3		
CO3	2												3		
CO4	2												3		
CO5			2										3		
AVG	2		2										3		

TITLE OF THE COURSE : - COMMUNICATION SKILLS B.ARCH , I SEMESTER

Course code :24ARC18	CIE Marks :50
Contact Periods / Week :1 (2 Lecture)	SEE Marks : 50
Total Number of Lecture/ Studio Hours: 30	Exam Hours: 3
Credits:02	

Course Learning Objective:

1. To enable the students to develop skills in effective communication both in written & verbal.

SL.NO	MODULES	TEACHING HOURS
1	MODULES-I	6
	 Introduction: Meaning, Definition, Importance & Purpose of Communication, Process of Communication, Types of Communication, Communication network in an organization, 7c's of communication, Barriers to Communication & Essentials of good Communication. Oral Communication: Meaning, Principles of successful oral 	U
	communication, barriers to communication. Modes of oral communication – listening as a communication skill, Nonverbal communication. Grapevine Communication – Meaning & Types.	
2	MODULE-II	6
	3. Effective writing: Purpose of Writing, Clarity in writing, Principle of Effective writing, writing personal Experiences – Describing a	
	person, situation, memorable events etc.	
	4. Drafting of Letters: Writing different types of letters - writing for	
	employment, joining letter, complaints & follows up, Enquiries,	
	representation etc. Official Communication – email & social media.	
3	MODULE-III	6
	Presentation Skills: What is a Presentation? – Element of Presentation –	
	Point presentation, body language, Non-verbal facial expressions, Eye	
	Contact, audience research, questions from the audience, communication of emotional intelligence, creativity in oral communication. Communication through telephonic, video conference & Skype.	
4	MODULE-IV	6
	Employment Communication Skills: Writing Curriculum Vitae (CV), Interview – Types of interview, Candidates Preparation, Interviews Preparation, Time Management, Grooming & Just A Minute (JAM). Speaking for better communication – speaking about yourself.	
5	MODULE-V	6
	5. Interpersonal Communication Skills: Advantages& Disadvantages of utilizing the teamwork, Characteristic of Successful teams, Stages of the development of a team, team roles, challenges in team working, forms of Non- Team behaviour.	
Assignm	nent: Assignments need to be given after completion of each chapter and t	o be evaluated
immedia	tely.	

COURSE OUTCOMES: After studying this course, students will be able to understand;

- 1. Understand the meaning, importance and purpose of communication skills and identify various types of communication.
- 2. Analyze the various types of letters with different modes.
- 3. Develop presentation skills, including the ability to design and deliver.
- 4. Identify effectively use of verbal, visual and electronic modes.
- 5. Understanding the advantages and challenges of team work.

REFERENCE BOOKS:

- 1. Prasad P, Communication Skills, S. K. Kataria & Sons.
- 2. Business Communication K. K. Sinha, Galgotio Publishing Company, New Delhi.
- 3. Murphy Effective Business Communication, McGraw Hill
- 4. Mc. Grath Basic Managerial Skills, New Delhi, Prentice Hall India learning pvt. Ltd.

Course Outcomes with Program Outcomes and Program Specific Outcomes mapping:

СО	P O	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PSO3
	1		-		_	-		-	-						
CO1										3			-		
CO2										3			-		
CO3										3			-		
CO4										3			-		
CO5										3			-		
AVG										3			-		

TITLE OF THE COURSE: - SCIENTIFIC FOUNDATION OF HEALTH B.ARCH, I SEMESTER

Course code :24SFH19	CIE Marks :50
Contact Periods / Week :1 (1 Lecture)	SEE MARKS : 50
Total Number of Lecture/ Studio Hours: 15	Exam Hours:-2
Credits:01	

Course learning Objective:

The course 24SFH19 will enable the students:

- To know about Health and wellness (and its Beliefs).
- To acquire Good Health & its balance for positive mind-set.
- To build the healthy lifestyles for good health for their better future.
- To Create of Healthy and caring relationships to meet the requirements of MNC and LPG world.
- To learn about Avoiding risks and harmful habits in their campus and outside the campus for their bright future to Prevent and fight against harmful diseases for good health through positive mindset.

SL.NO	MODULES	TEACHING
		HOURS
1	MODULES-I Good Health and its balance for positive mindset: What is Health; Why Health is very important Now? – What influences your Health? Health and Behaviour, Health beliefs and advertisements, Advantages of good health (Short term and long term benefits), Health and Society, Health and family, Health and Personality - Profession. Health and behaviour, Disparities of health in different vulnerable groups. Health and psychology, Methods to improve good psychological health. Psychological disorders (Stress and Health - Stress management), how to maintain good health, Mindfulness for Spiritual and Intellectual health, Changing health habits for good health. Health and personality.	3
2	MODULE-II Building of healthy lifestyles for better future: Developing a healthy diet for good health, Food and health, Nutritional guidelines for good health and well beingness, Obesity and overweight disorders and its management, Eating disorders - proper exercises for its maintenance (Physical activities for health), Fitness components for health, Wellness and physical function.	3
3	MODULE-III Creation of Healthy and caring relationships : Building communication skills (Listening and speaking), Friends and friendship - education, the value of relationships and communication, Relationships for Better or worsening of life, understanding of basic instincts of life (more than a biology), Changing health behaviours through social engineering.	3
4	MODULE-IV Avoiding risks and harmful habits : Characteristics of health compromising behaviours, Recognizing and avoiding of addictions, How addiction develops	3

	and addictive behaviours, Types of addictions, influencing factors for addictions, Differences between addictive people and non addictive people and their behaviour with society, Effects and health hazards from addictions Such as, how to recover from addictions.							
5	MODULE-V Preventing and fighting against diseases for good health: Process of infections and reasons for it, How to protect from different types of transmitted infections such as, Current trends of socio economic impact of reducing your risk of disease, How to reduce risks for good health, Reducing risks and coping with chronic conditions, Management of chronic illness for Quality of							
	life, Health and Wellness of youth: a challenge for the upcoming future							
	Measuring of health and wealth status.							
Assignm	nent: Assignments need to be given after completion of each chapter and to	be evaluated						
immedia	tely.							
COURSE	OUTCOMES:							
At the en	d of the course the student will be able to:							
1. CO1: I	mplement practices leading to good health and well-being (and its Beliefs).							
2. CO2: A	cquire Good Health & its balance for positive mindset.							
3. CO3: I	nculcate and develop the communication skills leading to healthy lifestyle.							
4. CO4: A	bility to recognize and practice healthy behaviours.							
5. CO5: A	Adopt the innovative & positive methods to avoid risks from harmful habits in th	neir campus &						
outside t	he campus.							
REFERE	NCE BOOKS:							
1. Healt	h Psychology (Second edition) by Charles Abraham, Mark Conner, Fiona Jon	es and Daryl						
O'Conno	r – Published by Routledge 711 Third Avenue, New York, NY 10017.							
2. Health	n Psychology - A Textbook, FOURTH EDITION by Jane Ogden McGraw Hill Edu	cation (India)						
Private L	imited - Open University Press							
3. HEAI	TH PSYCHOLOGY (Ninth Edition) by SHELLEY E. TAYLOR - University of C	California, Los						
Angeles,	McGraw Hill Education (India) Private Limited - Open University Press							
4. Scient	tific Foundations of Health (Health & Welness) - General Books published for u	iniversity and						
colleges	references by popular authors and published by the reputed publisher.							
1) SWAY	'AM / NPTL/ MOOCS/ We blinks/ Internet sources/ YouTube videos and othe	er materials /						
notes.								
Activity	Based Learning (Suggested Activities in Class)/ Practical Based learning							
• (Contents related activities (Activity-based discussions).							
• F • (For active participation of students, instruct the students to prepare Flowcharts a Organizing Group wise discussions and Health issues based activities.	nd Handouts.						
• (Juizzes and Discussions.							
• 5	Seminars and assignments.							

Course Outcomes with Program Outcomes and Program Specific Outcomes mapping:

CO	P0 1	P0 2	P0 3	P0 4	P0 5	P0 6	P0 7	P0 8	P0 9	PO 10	P0 11	PO 12	PS 01	PS 02	PSO 3
C01	-		3	_			-	•	-						
CO2			3												
CO3			3												
CO4			3												
C05			3												
AVG			3												

TITLE OF THE COURSE: ARCHITECTURAL DESIGN –II

Course code :24ARC21	CIE Marks :100
Contact Periods / Week :7(1 Lecture+6Studio)	SEE Marks (Viva) : 100
Total Number of Lecture/ Studio Hours: 105	Exam Hours: -
Credits:07	

B.ARCH, II SEMESTER

Course learning Objective:

- 1. To develop the ability to generate solutions to spatial constructs, i.e., space and form which integrate principles of design with functional requirements by emphasizing the study of variables like light, movement, transformation, scale, structure & skin., physical constraints and cultural context, either urban or rural, Formal and informal housing.
- 2. To develop the ability to translate abstract principles of design into architectural solutions for simple problems.

SL.NO	MODULES	TEACHING HOURS
1	MODULE I To relearn the "principles of Design" and anthropometric requirements of space planning	12
2	MODULE II	24
	 Introduction to "Nature of Space": Understanding the notions of PLACE: A "boundary", a "center" and a "spirit", PATH: A "way" and a "goal", DOMAIN: A conglomeration of paths and goals that forms a "whole" with its own "identity", Understanding the notions of "Enclosure, Ambiguity, and Transparency", "Spatial Context in formal and informal built environment open, closed, transition spaces", "cultural context – inclusion, exclusion, spatial segregation", Culture & Design: Understanding social attitudes to Built-form: extroverted/introverted, formal/informal, typical/individual, simple/labyrinthine, contiguous/isolated etc. 	
3	MODULE III Introduction to "Poetics of Space": • light, movement, transformation, scale, structure and skin, • key tools for learning: text / language as a tool; emotion, cultural, climatic, eg contemplative / severe / dramatic / minimalist / natural / organic / contemporary / traditional / etc.	24
4	MODULE IV Understanding the role of Physical Context - terrain, materials, structure, etc.	12

5	MODULEV	22						
5	MODULE V	33						
	Design process to test the learning of the semester using a							
	multifunctional program to incorporate "nature of space", "poetics of							
	space" and "physical constraints",.							
	• Generation of a design brief for a multifunctional program, generation							
	of areas based on human activity and anthropometric data							
	• Selection a of suitable site.							
	• Idea generation, design development, & design drawings,							
• Eq A House for self Guest House Farm house Villa Container								
	house Courtyard house Tree house house in an informal settlement							
	ate							
C	UDEE OUTCOMES: After studying this source students will be able to unders	tand						
	JURSE OUTCOMES: After studying this course, students will be able to unders	tanu;						
1.	Explore with space planning considering Anthropometry.							
2.	Apply the thermal comfort in built environment.							
3.	Convert the space to a place with social attitude in built environment.							
4.	Apply various physical aspects in design.							
5.	Explore the poetic space (transformation, scale).							
RF	EFERENCE BOOKS:							
1.	'Time Saver Standards for Architectural Design Data' by John Hanck.							
2.	2. Charles George Ramsey and Harold Sleeper. "Architectural Graphic Standards", 1992. Wiley							
3	Anthony Di Mari and Nora Yoo, "Operative Design: A Catalogue of Spatial Verb	os" 2012 BIS						
5.	Publishers	, 2012, DID						

4. Peter H. Reynolds, "The Dot", 2013, Candlewick Press

Course Outcomes with Program Outcomes and Program Specific Outcomes mapping:

СО	P O	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS 01	PS 02	PSO3
	1														
CO1	3												3		
CO2		3					2								3
CO3						3									
CO4			3										3		
CO5			3										3		
AVG	3	3	3			3	2						3		3

TITLE OF THE COURSE :BUILDING CONSTRUCTION & MATERIALS – II

B.ARCH , II SEMESTER

Course code :21ARC22	CIE Marks :50
Contact Periods / Week:4(1Lecture+3 Studio)	SEE Marks(Viva): 50
Total Number of Lecture/ Studio Hours: 60	Exam Hours:
Credits:04	

Course learning Objective:

1. To comprehend the students with different types of doors and windows and contemporary construction practices pertaining to roofing systems for larger spans using timber, steel truss & concrete.

SL.NO	MODULES	TEACHING HOURS
1	MODULES-I	12
	1. Doors – Types of wooden Doors, i.e., paneled, flush and glazed doors, study of joinery details.	
	2. Doors – Types of Doors other than wood (steel, PVC etc) study of joinery details	
2	MODULE-II	12
	3. Windows – Types of windows (metal windows, sliding windows, glazed windows/sash, louvered windows, bay window, gable & dormer window), study of joinery details	
3	MODULE-III	12
	4. Roof – Timber and steel trussed roof, various parts, their purposes and method of construction.	
	5. Timber Roof- Lean to Roof, collared roof, king post roof, queen post roof, details of joinery	
	6. Steel roof – Types of steel truss roofs & methods of construction	

4	MODULE-IV	12							
	7. Timber – Quality of timber used in building, defects, seasoning and preservation of timber, types – Natural, hard and softwood, uses of timber for aesthetic & structural purpose								
	8. Uses of commercial wood in building i.e., plywood, block boards, particleboards, veneers and laminates and other types. Manufacturing processes in brief, their properties and application.								
	9. Introduction to various tools & equipment's commonly used in construction work.								
5	MODULE-V	12							
	10. Cement - Types of cement, their applications, manufacturing process, laboratory and field tests.								
	roofing. Materials and methods								
	12. Other materials for covering small spans like Mangalore								
	tiles, clay tiles, wood shingles etc 13. Introduction to types, properties, uses and application of non – ferrous metals and glass								
Submissio	n								
Minimum studio teac	one plate on each topic shall be submitted as term work. Site visits t hers. Study of material application in the form of portfolio to be submit	o be arranged by ted.							
COURSE	OUTCOMES: After studying this course, students will be able to -								
1. Apply different types of doors suitable to the building using sustainable material									
2. Ap 3. Sel	ply different types of windows suitable to the building ect & use of suitable types of roofs & roofing materials using								
approp	riate technique based on local requirement								
4. Uti	lization of timber & alternate materials according to type of building								
& avai 5 An	lability alvze different types of roof coverings & its implementation has	ed on spanning							
buildin	g type & local conditions	ea on spanning,							
approp 4. Uti & avai 5. An buildin	riate technique based on local requirement lization of timber & alternate materials according to type of building lability alyze different types of roof coverings & its implementation bas of type & local conditions	ed on spanning,							

REFERENCE BOOKS:

- 1. "Building Construction "by W.B Mackay
- 2. "Construction Technology "by Chudley
- 3. "Construction of Building "by Barry
- 4. "Building Construction "by Rangawala
- 5. "Building Construction "by Punmiya

Course Outcomes with Program Outcomes and Program Specific Outcomes mapping:

CO	PO	PO	Р	РО	РО	PO	PO	РО	РО	PO1	PO	PO1	PSO	PSO	PSO3
	1	2	0	4	5	6	7	8	9	0	11	2	1	2	
			3												
CO						2	3							3	
1															
CO												3		3	
2															
CO	3		2											3	
3															
CO	3													3	
4															
CO	3													3	
5															
AV	3	3	2			2	3					3		3	
G															

TITLE OF THE COURSE :ARCHITECTURAL GRAPHICS - II B.ARCH , II SEMESTER

Course code :24ARC23	CIE Marks :50
Contact Periods / Week :4 (1 Lecture+3 Studio)	SEE Marks(Term work): 50
Total Number of Lecture/ Studio Hours: 60	Exam Hours: -
Credits:04	

Course learning Objective:

1. To introduce students to the fundamental techniques of architectural drawings and to enhance their visualization skills by practice on drawing board by conventional method

SL.NO	MODULES	TEACHING HOURS
1	MODULE -I	10
	1. Section of solids of simple geometric objects like prism, pyramid, cone & cylinder in different positions & its true shapes of sections.	
2	MODULE-II	12
	 Development of surfaces of simple geometrical objects of prisms, pyramids, cylinder and cone. 	
3	MODULE-III	10
	3. Inter-penetration of geometric solids of simple geometrical objects prism with prism, cylinder with cylinder, cone with cylinder, cylinder with prism.	

4	MODULE-IV	
	3. Perspective – Principles and visual effects of three-dimensional objects Study of picture plane, station point, vanishing point, eye level, ground level, their variation and their resultant effects.	14
	One point & two-point Perspective drawings of simple geometrical objects (like pyramids, cubes prisms, cylinders, cones and their combinations) & built forms.	
5	MODULE-V	14
	5. Sciography Study of Shades and shadows Principles of drawing shade and shadow with source of light in sun.	
	6. Sciography for simple geometrical forms on vertical, horizontal and inclined planes.	
Note: Mo	dule wise Assignments need to be given after completion of each mod	fule and to be
evaluated	immediately.	
COLIDGE		
COURSE	OUTCOMES: After studying this course, students will be able to-	
1. I	mplement the fundamental techniques of section of solids.	
2. I	dentify the development of surfaces of solids.	
3. E	Explain and interpret the inter – penetration of geometrical solids.	
4. I	Distinguish between the one-point &two-point perspective with solids &the	e built forms.
5. A	Analyze the study of Sciography for simple geometrical forms.	
REFEREN	NCE BOOKS:	
1. "	Engineering Drawing" by N D Bhat	
2. "	Geometrical Drawing for Arts Students" By I H Morris	
3. "	Engineering Drawing Vol I and II" by KR Gopalkrishna	
4. "	Perspective" by SH Mullik	

Course Outcomes with Program Outcomes and Program Specific Outcomes mapping:

PO	PO	Р	PO	PO	PO	PO	PO	PO	PO1	PO1	PO1	PSO	PSO	PSO3
1	2	0	4	5	6	7	8	9	0	1	2	1	2	
		3												
1								2					3	1
1		3						2					3	1
1								2					3	1
								2						
								2						
1								2					3	1
	PO 1 1 1 1 1 1 1 1 1	PO PO 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO PO P 1 2 O 1 3 1 3 1 3 1 3 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO PO P PO 1 2 O 4 3 - - 1 3 - 1 3 - 1 3 - 1 3 - 1 3 - 1 3 - 1 3 - 1 3 - 1 3 - 1 3 - 1 3 - 1 3 - 1 3 - 1 3 - 1 3 -	PO PO P PO PO PO 5 1 2 O 4 5 1 3 - - 1 3 - - 1 3 - - 1 - - - - 1 - - - - 1 - - - - 1 - - - - 1 - - - - 1 - - - - 1 - - - - 1 - - - - 1 - - - - 1 - - - -	PO PO PO PO PO PO 6 1 2 0 4 5 6 1 3 - - - - 1 3 - - - - 1 3 - - - - 1 - 3 - - - 1 - - - - - 1 - - - - - 1 - - - - - 1 - - - - - 1 - - - - - 1 - - - - - 1 - - - - - -	PO PO <th< td=""><td>PO PO <th< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>PO PO <th< td=""><td>PO PO <th< td=""><td>PO PO <th< td=""><td>PO PO <th< td=""></th<></td></th<></td></th<></td></th<></td></th<></td></th<>	PO PO <th< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>PO PO <th< td=""><td>PO PO <th< td=""><td>PO PO <th< td=""><td>PO PO <th< td=""></th<></td></th<></td></th<></td></th<></td></th<>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	PO PO <th< td=""><td>PO PO <th< td=""><td>PO PO <th< td=""><td>PO PO <th< td=""></th<></td></th<></td></th<></td></th<>	PO PO <th< td=""><td>PO PO <th< td=""><td>PO PO <th< td=""></th<></td></th<></td></th<>	PO PO <th< td=""><td>PO PO <th< td=""></th<></td></th<>	PO PO <th< td=""></th<>

TITLE OF THE COURSE: HISTORY OF ARCHITECTURE – II (Indian Architecture)

B. ARCH, II SEMESTER

Course code: 24ARC24	CIE Marks: 50
Contact Periods/week: 3 Lectures	SEE Marks : 50
Total number of lecture/studio hours: 45 Hours	Exam Hours - 3
Credits- 3	

Objective:

To introduce culture & architecture of early civilization

To provide an understanding of the evolution of Hindu Architecture in India in its various stylistic modes with critical appreciation, characterized by technology, ornamentation, planning practices & influences in general.

	MODULE-I	TEACHI
		NG
		HOURS
1.	Introduction to Classical (Buddhist): Mahayana phase, Stupa and rock cut cave Architecture.	9
2.	Buddhist Examples: Study of principles of design of buildings through study of three kinds of Architecture –	
a)	Monumental – Great Stupa at Sanchi, Chaitya at Karli, Viharas at Ajanta and Toranas at Sanchi	
b)	Domestic (Built to inhabit)	
c)	Civic space	
3.	Introduction to Jain Architecture: Study of principles of design of buildings	
	Monumental	
a) b)	Domostio	
D)	Domestic	
c)	Civic space	
	MODULE-II	
1.	Evolution of Hindu temple: Indo Arvan and Dravidian – Eraly temples at	9
	Udavgiri. Tigawa and Sanchi.	-
2.	Evolution of Hindu temple: Dravidian Experiments at Aihole (Durga temple	
	and Ladkhan temple) Deogarh, Bhitargaon and Badami.	
3.	Beginnings of Dravidian Architecture: Pallavas, rathas at Mamallapuram,	
	Shore Temple, Kailasnatha and vaikuntaperumal temples at Kancheepuram.	
	MODULE III	l
	WODULE-III	

1.	The Cholas contribution: Study of principles of design of buildings through study of three kinds of Architecture:	9							
a)	Monumental: Brihadeshwara temple at Tanjavur and GangaikondaCholapuram								
h)	Domestic								
c	Civic space								
2	The Pandavan& Madurai dynasties contribution. Study of principles of								
2.	design of buildings through study of three kinds of Architecture:								
a)	Monumental: Gopurams Madurai (Meenakshi Temple) and Srirangam								
b)	Domestic								
c)	Civic space.								
,									
	MODULE-IV								
1.	The Hoysala contribution: Study of principles of design of buildings through	9							
	study of three kinds of Architecture								
a)) Monumental: Eg: Channakesava temple, Belur, Hoysalesvara temple,								
	Halebid, Kesava Temple, Somnathpur								
b)	Domestic								
c)	Civic space								
2.	Indo Aryan Mode: The beginnings in Orissa – the Lingaraj at								
	Bhubaneshwar.								
	MODULE-V								
1.	Hindu Architecture at Rajputana & Khajuraho group: (temple of Surya,	9							
	Orissa, Marwar) and Gujrat (Temple of Surya, Modhera). The Khajuraho								
	group: Khandariya Mahadev, Jian temples- Chaumukh temple at Ranpur.								
2.	Later Dravidian Period: The Vijayanagar and – noted temples at Hampi								
	(Vitthala temple and Hazara Rama temple)								

Course outcome:

CO1: Application of Buddhist architecture & Jain architecture in planning of temples

CO2: Distinguish between Dravidian architecture and later Dravidian architecture features.

CO3: Identify the Cholas contribution in Study of principles of design of buildings

CO4: Identify and apply the concept of planning Indo-Aryan and hoysala (later chalukyan) architecture.

CO5: Identification of planning and evolution of Hindu temple.

References:

- 1. "Indian Architecture, Buddhist & Hindu Period" by Brown, Percy
- 2. "Architecture of India-Buddhist & Hindu" by Grover, Satish
- 3. "History of Architecture in India" by Christopher, Tadgell

4. "Hindu India" by Stierlin, Henri

Course Outcomes with Program Outcomes and Program Specific Outcomes mapping

C	COURSE DUTCOMES	P O 1	P O 2	P O 3	P O 4	Р О 5	P O 6	P O 7	P O 8	P O 9	P O 1 0	P O 1 1	P O 1 2	P S O 1	P S O 2	P S O 3
C O 1	Application of Buddhist architecture & Jain architecture in planning of temples	3	2	2			1							3		
C O 2	Distinguish between Dravidian architecture and later Dravidian architecture features.	3	2	2			1							3		
C O 3	Identify the Cholas contribution in Study of principles of design of buildings	3	3	2										3		
C O 4	Identify and apply the concept of planning Indo- Aryan and hoysala (later chalukyan) architecture.	3	2	2	2		2							3		

Faculty Of Architecture Sharnbasva University

										B./	ARCH	Syllab	us :I &	II Sen	nester 2	024-25
C O 5	Identification of planning and evolution of Hindu temple.	3	2	2			1							3		
	AVERAG E	3	2	2	2		1							3		
C	CONTRIBUTION: 1: REASONABLE 2: SIGNIFICANT 3: STRONG															

39

TITLE OF THE COURSE: STRUCTURES- II

B.ARCH, II SEMESTER

Course Code :24ENG25	CIE Marks :50
Contact Periods / Week :3 (3 Lecture)	SEE Marks : 50
Total Number of Lecture/ Studio Hours: 45	Exam Hours:03
Credits:03	

Course learning Objective:

1. To give an introduction to the basic principles governing structural systems and structural behavior of materials

SL.NO	MODULES	TEACHIN G HOURS
1	MODULES-I	10
	Simple Stresses and Strains – Concept of Deformable Bodies, Types of Stress (compressive, tensile, bending, shear) and strain (axial, shear, volumetric), Hook's law and Saint-venant's principle. Concept of Temperature stresses and simple problems, Modulus of Elasticity, Typical stress-strain behavior of steel and concrete	
2	MODULE-II	8
	Elastic Constants – Elastic constants, Rigidity Modulus, Poisson's Ratio, Bulk Modulus and Shear Modulus. Relations.	
	Modulus of Elasticity and Modulus of Rigidity. Application to uniform section.	
3	MODULE-III	9
	Bending Moment and Shear Force Diagrams – Concept of Shear force and Bending moment. BMD and SFD for statically determinate beams subjected to combinations of concentrated and uniformly distributed load. Relationship among Load, Shear force and Bending Moment.	
4	MODULE-IV	9
	Bending stress in Beams – Theory of simple Bending with assumptions. Flexure formula. Bending stresses. Distribution of stress in symmetrical sections. Strength of a section, Flitched Beams.	

5	MODULE-V	9
	Shear stresses in Beams, Equation for shear stress distribution across a section. Shear stress Distribution for simple sections.	
Note: Mode evaluated	dule wise Assignments need to be given after completion of each modulimmediately.	and to be
COURSE	OUTCOMES: After studying this course, students will be able to;	
1. Applica	tion of concepts of simple stress, strains, and deformable bodies.	
2. Relation	between Elastic constants and their application to uniform section.	
3. Determi	ne the SF and BM and draw the diagram for the SFD and BMD.	
4. Distribu	tion of Bending stress of symmetrical section and fletched beam.	
5. Distribu	tion of shear stress for simple beam section.	
REFEREN	ICE BOOKS:	
1. edi Pul	B.S.Basavarajaih& P. Mahadevappa, "Strength of Materials", Universiti tn. 2010. 2) Dr. S. Ramamrutham& R. Narayan "Strength of Materials" ol., 8th edi. 2014.	es Press, 3rd , DhanpatRai
2. V	Villiam A. Nash, "Strength of Materials", McGraw-Hill Education; 6th edit	ion, 2013.
3. F	R.K.Bansal, "Strength of Materials", Laxmi Publications; 6th edition (2017)	

4. R.S Khurmi& N. Khurmi, "Strength of Materials", S Chand Pub., revised edition 2006.

Course Outcomes with Program Outcomes and Program Specific Outcomes mapping:

CO	PO 1	PO 2	P O	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO3
			3												
CO 1	3	2												2	
CO 2	3	3												2	
CO 3	3	2												2	
CO 4	3	3												2	
CO 5	3	3												2	
AV G	3	2. 6												2	

TITLE OF THE COURSE: SURVEYING & LEVELING

B.ARCH, II SEMESTER

Course code :24ENG26	CIE Marks :50
Contact Periods / Week :3 (2 Lecture+1 Practical)	SEE Marks : 50
Total Number of Lecture/ Studio Hours: 45	Exam Hours:03
Credits:03	

Course learning Objective:

1. To develop the knowledge and skill relative to surveying and leveling principles and practice

SL.NO	MODULES	TEACHING HOURS
1	MODULES-I Definitions, principles of surveying, Objects of surveying. Instruments used in chaining, metric chain, field book and different symbols used in chaining. Ranging: ranging of line using ranging rods, Construction of perpendicular by 3, 4, 5method and construction of Geometrical figures on site.	8
2	 MODULE-II Compass Survey: Definition, prismatic compass and its parts. Different methods of setting out, representation, plotting, Plane table Survey: Plan table and its accessories. Methods of plane table survey 1. Radiation 2. Intersection 	9
	 Traversing Resection 	

3	MODULE-III	10
	Leveling: Definition, technical terms in dumpy level and its parts. Classification, simple leveling and differential leveling. Temporary adjustments of dumpy level. Booking and reduction of levels by HI / Rise and fall method.	
4	MODULE-IV	9
	Profile leveling, block leveling. Contouring- Characteristics of contours, methods of contouring, plotting of contouring ,interpolation of contouring, capacity contouring and uses of contouring.	
5	MODULE-V	9
	Theodolite: Definition, technical terms, temporary adjustments of Theodolite.	
	Measuring of horizontal and vertical angles.Tachometric surveying ,principle and its uses.Total station function and its applications.	
Note: Mo	dule wise Assignments need to be given after completion of each modified immediately.	lule and to be
Field work		
Field work	to be conducted involving all above topics	
1. S	betting out center lines of a building for a small unit.	
2. 0	Construction of perpendicular on site and construction of Geometrical figure	res.
3. Т	To determine the distance between inaccessible points.	
4. P	Plane table survey.	
5. P	Profile leveling	
6. C	Contouring: Block level Survey.	
7. E	Demonstration of Total station.	

COURSE OUTCOMES: After studying this course, students will be able to;

1. Identify the Principles of surveying.

2. Identify the compass survey and plane table survey.

3. Identify the instrument used for leveling, profile leveling.

4. Explain the characteristics of contours, methods of contouring and uses of contours.

5. Applications of Theodolite and Total station.

REFERENCE BOOKS:

1."Surveying Vol -1" by Dr. PC Punmia

2."Surveying and Leveling (Vol -1)" by Kanetkar TP and Kulkarni SV

3."Surveying and Leveling" by S C Rangwala

Course Outcomes with Program Outcomes and Program Specific Outcomes mapping:

CO	PO 1	PO 2	Р О З	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO3
CO 1		2												3	
CO 2	1	2												3	
CO 3	1	3												3	
CO 4	1	3												3	
CO 5		2			2									3	
AV G	1	3			2									3	

TITLE OF THE COURSE: COMPUTER APPLICATION IN ARCHITECTURE-I

B.ARCH, II SEMESTER

Course code :24ARC27	CIE Marks :50
Contact Periods / Week :3 (1 Lecture+2Practical)	SEE Marks(Practical) : 50
Total Number of Lecture/ Studio Hours: 45	Exam Hours:
Credits:03	

Course learning Objective:

- To develop and train students to use computers and digital media as tools to explore, develop, evaluate and present architectural ideas.
- To equip the student with a range of digital tools and techniques in 2D drafting along with presentation skills.

SL.NO	MODULES-I	TEACHING HOURS
1	MODULE-I	9
	Introduction to 2D Drafting: Overview of CAD and its Applications, Introduction to AutoCAD Interface and tools.	
	Coordinate systems: Introduction to Coordinate systems, Applications.	
2	MODULE-II	9
	Basic Drawing Tools: Creating basic drawings using Draw tools, Working with Layers and Templates.	
	Modify Tools: Object selection methods and basic editing commands and their applications.	
3	MODULE-III	9
	Advanced Drawing & Modifications: Using Modify tools (Trim, extend, Fillet, chamfer, Mirror, Array), Creating and editing polylines.	
	Working with 2D Plan, Sections and Elevations.	

4	MODULE-IV	9
	Introduction to Photoshop: Basics of Photoshop interface and tools, Importing and handling CAD drawings in Photoshop, Basic editing techniques and color corrections.	
5	MODULE-V	9
	Rendering & Sheet Composition in Photoshop: Rendering CAD Files, Applying textures, shadows and effects for realistic presentations, Creating final sheets.	

COURSE OUTCOME:

Upon completion of the course, students will be able to:

CO1- Understand the fundamentals of CAD and AutoCAD

CO2- Apply basic drawing and editing tools to create accurate 2D geometric designs, utilizing layers and templates for organized drawings.

CO3- Develop advanced 2D drawings, including plans, sections, and elevations

CO4- Understand the basics of Photoshop and its applications for enhancing CAD drawings.

CO5- Demonstrate the ability to compose final presentation sheets with rendering and visual effects.

SOFTWARE FOR REFERENCES

- 1. AutoCAD Student Version
- 2. Adobe Photoshop

Books for References: AP Gautam, Pradeep Jain, Engineering AutoCAD

Course Outcomes with Program Outcomes and Program Specific Outcomes mapping:

	PO	P0	PO1	PO1	PO1	PSO	PSO	PSO							
	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
CO	3				3			3				3		3	
1															
CO					3			3				3		3	
2															
CO					3			3				3		3	
3															
CO					3			3				3		3	3
4															
CO					3			3				3		3	
5															
AV	3				3			3				3		3	3
G															

TITLE OF THE COURSE: ART APPRECIATION B.ARCH, II SEMESTER

Course Code :24ART28	CIE Marks:50
Contact Periods/Week : 2(1Lecture+1Seminar)	SEE Marks: -
Total Number of Lecture/ Studio Hours: 30	Exam Hours: -
Credits:02	

OBJECTIVE: To encourage Visual creative thinking and critical orientation to design thinking and action. Implementation of Arts and crafts, its aesthetics and application in Architecture.

SLNO	OUTLINE							
•		G HOURS						
	MODULE-1	7						
	1. Definition of Art and role of Art in Society: Role and meaning of art,							
	various types of arts-fine arts, performing arts, commercial arts, industrial							
	arts, folk arts, abstract art, visual arts, spatial arts, temporal arts, pop art							
	etc. Relationship of architecture with other arts like Painting and							
	Sculpture.							
	Study Tools- Any three can be explored							
	• Observation & Study to develop hand & cognitive skill.							
	Colours, Pattern & textures, and function							
	• Additive and Subtractive of Forms Freehand sketching							
	• Exercises of rendering techniques.							
	MODULE-2	5						
	2. Study of Art Forms & Crafts of India and Asia. Difference between							
	art and craft.							
	Study tools-							
	• Explore and learn any one Indian art form and regional craft.							
	• Structural/Material translation from concept mind mapping.							
	MODULE-3	5						
	3. Appreciation of oriental and western performing arts.							
	Study tools- Exploring Performing arts of India,							
	• Regional Folk Dance and Crafts like, Leather puppets etc.							
	• To understand the oriental & western styles. Use them in product							

design	
MODULE-4	6
 4. Style in art & Architecture: Basis for classification of styles incluction of styles arrangement according to order that changes time. Evolution of styles; reflecting the emergence of new idea reaction to earlier styles as a result of changing of fashions, be technology etc. Popular and modern art, Art trends, periods and Isms. Study Tools-: Material Study Experience of architecture in basic psychological and 	uding over as as eliefs,
physiological terms MODULE-5	7
 5. Ornamentation in Architecture (Aesthetics): Historical perspect of the use of ornament in buildings and use of ornament as a decorative embellish parts of a building. Use and need of ornament in architecture design – different types of ornamentation in buildings. Ornamentation Architecture Criticism–Argument against ornamentation. Ideas of architect Adolf Loos (Ornament and Crime); Ornaments as economic inefficient and morally degenerate, reduction of ornament or lack of decoration as the sign of an advanced society. Study Tools- Structural/Material translation from concept and architectural form 	tive on to ral n in f ally

Learning outcome: The students will be able to:

CO1 identify various art forms & develop hand & cognitive skill.

CO2 differentiate between Art and craft and how these are related to Architecture

CO3 recognize oriental/western performing arts & implement critical orientation to design thinking

CO4 recognize style in art & architecture and its impact on Architecture

CO5 implement the concepts of ornamentation in Architecture

REFERENCES:

- 1) Maitland Graves, 'The Art of Color and Design', McGraw-Hill, 1951
- 2) Antony Mason, John T. Spike, "A History of Western Art: from prehistory to the 21st Century", McRae Books, 2007.
- 3) Fred S. Kleiner, "Art through the Ages", Cengage Learning; 14 edition, 2012
- 4) Theory of Architecture by Paul Alan Johnson 4. Creating Architectural Theory by John Lang

Faculty Of Architecture Sharnbasva University

B.ARCH Syllabus : I & II Semester 2024-25

	map	ping	5												
CO's	PO	Р	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
	1	0													
		2													
CO1	1	1	1	1	1	1				2	1		3		
CO2	1	2	1	1	2	1				1	1		3		
CO3		1		2	2								3		
CO4				1									3		
CO5	1	1	1	1	1		1						3		
AVG	1	1.	1	1.2	1.2	1	1			1.5	1		3		
		2													

Course Outcomes with Program Outcomes and Program Specific Outcomes

TITLE OF THE COURSE: SOCIAL CONNECT & RESPONSIBILITY

B.ARCH, II SEMESTER

Course code: 24HUM29	CIE Marks: 50
Contact Periods/week:1(1 Lecture)	SEE Marks: -50
Total number of lecture/studio hours: 15 Hours	Exam Hours –02
Credits- 1	

OBJECTIVE:

1. Provide a formal platform for students to communicate and connect to the surrounding.

2. create a responsible connection with the society.

3. Understand the community in general in which they work.

4. Identify the needs and problems of the community and involve them in problem –solving.

5. Develop among themselves a sense of social & civic responsibility & utilize their knowledge

in finding practical solutions to individual and community problems.

6. Develop competence required for group-living and sharing of responsibilities & gain skills in mobilizing community participation to acquire leadership qualities and democratic attitudes

MODULE-I	HRS						
Plantation and adoption of a tree:	3						
Plantation of a tree that will be adopted for four years by a group of BE / B.Arch							
students. (ONE STUDENT ONE TREE)							
They will also make an excerpt either as a documentary or a photo blog describing							
the plant's origin, its usage in daily life, its appearance in folklore and literature -							
Objectives, Visit, case study, report, outcomes.							
MODULE-II							
Heritage walk and crafts corner:	3						
Heritage tour, knowing the history and culture of the city, connecting to people							
around through their history, knowing the city and its craftsman, photo blog and							
documentary on evolution and practice of various craft forms - Objectives, Visit, case							
study, report, outcomes.							
MODULE-III							
Organic farming and waste management:	3						
Usefulness of organic farming, wet waste management in neighboring villages, and							
implementation in the campus Objectives, Visit, case study, report, outcomes.							
MODULE-IV							

Water conservation: Knowing the present practices in the surrounding villages and implementation in the campus, documentary or photoblog presenting the current practices – Objectives, Visit, case study, report, outcomes.	3
MODULE-V	
Food walk: City's culinary practices, food lore, and indigenous materials of the region used in cooking – Objectives, Visit, case study, report, outcomes	3

COURSE OUTCOME:

CO1: To understand the environment and sustainability by nurturing a tree through its growth period. To learn how tree planting can contribute to sustainable urban and Rural Planning.

CO2: Understanding local history and culture and to learn the connection of people to heritage and gain knowledge of traditional craftsmanship.

CO3:Students will gain a comprehensive understanding of organic farming's benefits, such as soil health improvement, reduced reliance on chemical inputs and promotion of biodiversity.

CO4:To enable students to gain a comprehensive understanding of local agricultural, environmental or community-based practice.

CO5:To provide students with a deep environmental influence on regional cuisine, students will explore traditional cooking methods, unique local ingredients and their cultural significance, while learning how these elements shape the identity and heritage of region.

COURSE OUTCOMES			Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
			0	0	0	0	0	0	0	0	0	Ο	0	S	S	S
		1	2	3	4	5	6	7	8	9	1	1	1	Ο	0	0
											0	1	2	1	2	3
С	To understand the						1	2		2	3				1	
0	environment and															
1	sustainability by															
	nurturing a tree															
	through its growth															
	period. To learn how															
	tree planting can															
	contribute to															
	sustainable urban and															
	Rural Planning.															
	_															

Course Outcomes with Program Outcomes and Program Specific Outcomes mapping

C O 2	Understanding local history and culture and to learn the connection of people to heritage and gain knowledge of traditional craftsmanship.						2	3	1			
C O 3	Students will gain a comprehensive understanding of organic farming's benefits, such as soil health improvement, reduced reliance on chemical inputs and promotion of biodiversity.					1	2	2				
C O 4	To enable students to gain a comprehensive understanding of local agricultural, environmental or community-based practice.				1	1	2	1	2	1		
C O 5	To provide students with a deep environmental influence on regional cuisine, students will explore traditional cooking methods, unique local ingredients and their cultural significance, while learning how these elements shape the identity and heritage of region.						2		2			
	AVERAGE			1	2	1	2	3	2	1	1	