

KARNATAK LAW SOCIETY'S GOGTE INSTITUTE OF TECHNOLOGY "JNANA GANGA" UDYAMBAG, BELAGAVI-590008, KARNATAKA, INDIA. Approved by AICTE & UGC Permanently Affiliated and Autonomous Institution Under Visvesvaraya Technological University, Belagavi <u>www.git.edu</u>





5th Year 2018 N Scheme

Academic year 2021- 2022 onwards

Department: Architecture

Programme: B.Arch

1st to 10th Semester Scheme of Teaching and Examination

9th to 10^{th d} Semester Syllabus

INSTITUTION VISION

Gogte Institute of Technology shall stand out as an institution of excellence in technical education and in training individuals for outstanding caliber, character coupled with creativity and entrepreneurial skills.

MISSION

To train the students to become Quality Engineers with High Standards of Professionalism and Ethics who have Positive Attitude, a Perfect blend of Techno-Managerial Skills and Problem solving ability with an analytical and innovative mindset.

QUALITY POLICY

- Imparting value added technical education with state-of-the-art technology in a congenial, disciplined and a research oriented environment.
- Fostering cultural, ethical, moral and social values in the human resources of the institution.
- Reinforcing our bonds with the Parents, Industry, Alumni, and to seek their suggestions for innovating and excelling in every sphere of quality education.

DEPARTMENT VISION

The Department of Architecture shall stand out as the Department of excellence in architectural education and space making, in training individuals for outstanding calibre, character and holistic development.

MISSION

To train the students to grapple with complex issues that are emerging in today's society and encourage them to be designers who will find architectural solutions that respond appropriately to culture, climate and context

COURSES, PERIODS OF STUDY AND SUBJECTS OF EXAMINATION UNDER CHOICE BASED CREDIT SYSTEM FOR THE ARCHITECTURE DEGREE PROGRAM

1.0 Under the Choice based credit system, which is a student/ learner centric system, the courses of study in the Architecture Degree program shall be as under:

1.1 Professional Core (PC) Course: A course, which should compulsorily be studied by a candidate as a core requirement is termed as a Core course.

1.2 Basic Sciences and Applied Engineering (BS & AE) Course: A course which informs the Professional core and should compulsorily be studied.

1.3 Elective Course: Generally a course which can be chosen from a pool of courses and are of two types:

(i) **Professional Elective (PE)** which may be very specific or specialized or advanced or supportive to the discipline/ subject of study or which provides an extended scope

(ii) Open Elective (OE) which enables an exposure to some other

discipline/subject/domain or nurtures the candidate's proficiency/skill

1.4 Employability Enhancement Courses (EEC) which may be of two kinds: Employability Enhancement Compulsory Courses (EECC) and Skill Enhancement Courses (SEC)

2.0 The Weightage in terms of Credits for each of the above in the prescribed curriculum of the institution shall be as follows:

1. Professional Core Courses (PC): 45%

2. Building Science and Applied Engineering (BS& AE): 20 %

3. Elective Courses

(i) Professional Electives (PE) : 10%

(ii) Open Electives (OE) : 5%

4. Professional Ability Enhancement Courses (PAEC)

(i) Professional Ability Enhancement Compulsory Courses (PAECC) : 15%

(ii) Skill Enhancement Courses (SEC) : 5%

Note: Where it is not possible to offer Open Electives, Professional Electives may have a weightage 15% of the total credits.

Semester wise distribution of credits for B.Arch. program

Total credits for B.Arch. Program: 260 credits

	Semester	Credits per Sem	Total credits
1 st year	1	25	54
	2	29	
2 nd year	3	29	57
	4	28	
3 rd year	5	31	63
	6	32	
4 th year	7	31	47
	8	16	
5 th year	9	20	39
	10	19	
	Total	260	260



Karnatak Law Society's GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI-08 Bachelor of Architecture SCHEME OF TEACHING AND EXAMINATION



Semester: I

Department :Architecture

						C	outact)	Hrs		Marks					
]	C		SEE			
		Course		T eaching								VIV			Duration of
Subject Stream	Subject Code	Турс	Subject Title	Department	L	S	P/SE	Total	Credits	CP	PA	АЛ	EXAM	Total	Exam
	18DES1.1N	PC	Basic Design and Visual Arts	Architecture	1	6	0	7	10	10	40	50	-	100	
DESIGN	18DES1_2N	PC	Model Making	Architecture	0	0	3	3	CA	20	80	_	-	100	-
	18TEC1_1N	BS&AE	Building Construction and Materials-I	Architecture	1	2	2	5	5	10	40	50	-	100	_
	18TEC1_2N	PC	Architectural Graphics-I	Architecture	0	1	3	4	3	10	40	50	-	100	-
TECHNOLOGY	18TEC1_3N	BS&AE	Structures-I	Architecture	3	0	0	3	3	10	40	-	50	100	3 brs
	18HUM1_1N	PC	History of Architecture-I	Architecture	3	0	0	3	3	10	40	-	50	100	3 brs
HUMANITIES	18HUM1_2N	SEC	Communication Skills	Architecture	1	0	0	1	1	20	80	_	_	100	-
				Total	9	9	8	26	25	90	360	150	100	700	

A want of the

I-Lecture	CIE - Continuous Internal Evaluation	Class Participation						
S-Studio	SEE - Semester E ad E xamination	PA-Progressive Assessment	CA-Computsory Audit					
P-Practical	PC - Professional Core; BS&AE- Building S	cience and Applied Engineering, PE- Professional	Elective; OE- Open Elective					
SE – Studio Exercise	PAECC - Professional Ability Enhancement (Compulsory Courses, SEC - Skill Enhancement Co	urses.					
Minimum Marks for passing.	Theory, Studi o and Lab Marks (CIE) : 50%, Term Work/ Viva/Lab(SEE) : 40% Theory Marks (SEE) : 40%,							
	For a pass in a course, a candidate shall secure overall 50% of the maximum marks of the course i.e., CIE+SEE put together.							



Kamatak Law Society's GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI-08 Bachelor of Architecture SCHEME OF TEACHING AND EXAMINATION



Semester	П
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					Contact H15			Marks							
		Course		Teaching						CIE		SEE			Duration
Subject Stream	Subject Code	Туре	Subject Title	Department	L	S	P/SE	Tetal	Credits	СР	PA	/IVA/TV	EXAM	Total	ofExan
DESIGN	18DES2.1N	PC	Architectural Design -I	Archi tecture	1	6	0	7	9	10	40	50	-	100	-
	18TEC 2.1N	BS&AE	Building Construction and Materials-II	Architecture	1	2	2	5	5	10	40	50		100	-
	18TEC 2.2N	PC	Architectural Graphics-II	Architecture	0	1	3	4	3	10	40	50	_ :=	100	-
	18TEC 2.3N	BS&AE	Structures-II	Architecture	3	0	0	3	3	10	40		50	100	3 hrs
TECHNOLOGY	18TE C2.4N	BS&AE	Surveying and Levelling	Archi tecture	2	0	2	4	3	10	40	1940	50	100	3 hrs
	18HUM2.1N	PC	History of Architecture-II	Architecture	3	0	0	3	3	10	40	-	50	100	3 hrs
HUMANITIES	18HUM 2.2N	PC	Art Appreciation	Architecture	2	0	0	2	2	20	50	-	-	100	-
	18HUMB2.3N		120		1										
	18HUMS2.3N	SEC	Kamada	Architecture	2	0	0	2	1	5	20	-	25	50	2 hrs
					1 14	9	7	30	29	\$5	340	150	175	750	

L-Lecture	CIE - Continuous Internal Evaluation	CP-Class Pasticipation	
S-Stulin	SEE - Semester End Examination 🤍	PA-Progressive Assessment	CA-Compulsory Ambit
P-Practical	PC - Professional Core; BS&AE- Building Se	ience and Applied Engineering, PE- Professional	Elective; OE- OpenElective
SE - Stulio Exercise	PAECC - Professional Ability Enhancement C	Compulsory Courses, SEC - Skill Enhancement Co	TINS #5.
Minimum Marks for passing	Theory, Studio and Lab Marks (CIE) : 50%, 1	een Work/Viva/Lab(SEE) : 40% Theory Marks ((SEE) : 40%,
	For a pass in a course, a candidate shall secur	e overall 50% of the maximum marks of the cour	se i.e., CIE+SEE put together



Karmtak Law Society's GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI-08 Bachelor of Architecture SCHEME OF TEACHING AND EXAMINATION



Semester: III

Department :Architecture

Subject Stream	Subject Code	Course	Subject Title	Teaching		Co	utact H	5	Credits			Mark	5		Duration of
		Туре		Department	L	S	P/SE	Total]	C	E	S	EE	Total Exam	
			6			1				æ	14	VEATW	FLAN	1	
DESIGN	18DES 3.1N	PC	Architectural Design - II	Architecture	1	6	0	7	10	10	40	50	-	100	-
	18DES 3.2N	BS&AE	Climatology	Architecture	3	0	0	3	3	10	40	-	50	100	3 b us
	18TEC 3_1N	BS&A E	Building Construction and Materials-III	Architecture	1	2	2	5	5	10	40	50	-	100	-
TECHNOLOGY	18TEC 3.2N	BS&AE	Building Services-I (WATER SUPPLY AND SANITATION)	Architecture	3	0	0	3	3	10	40	-	50	100	3 h us
	18TEC 3.3N	BS&AE	Structures-III	Architecture	3	0	0	3	3	10	40	33	50	100	3 hrs
	18TEC 3.4N	SEC	Computer Application-I	Architecime	1	0	2	3	2	10	40	50		100	-
	18HUM 3_1N	PC	History of Architecture-III	Architecture	3	0	0	3	3	10	40	-	50	100	3 b us
HUMANITIES	18HUM 3.2N	PC	Vacation Assignment-I	Architecture	0	0	0	0	CA	20	\$0	-	-	100	-
		•		Total	15	:	4	27	29	90	360	150	200	\$00	

I-Lecture	CIE - Continuous Internal Evaluation	CP-Class Participation						
S-Studio	SEE - Semester End Examination	PA-Progressive Assessment	CA-Compulsory Audit					
P-Practical	PC - Professional Core; BS&AE-Building S	cience and Applied Engineering, PE- Professional El	ective; CE- Open Elective					
SE - Studio Exercise	PAECC - Professional Ability Enhancement	Compulsory Courses, SEC - Skill Enhancement Cours	æs.					
Minimum Marks for passing	Theory, Stulio and Lab Marks (CIE) : 50%, Tenn Work/ Viva/Lab(SEE) : 40% Theory Marks (SEE) : 40%,							
	For a pass in a course, a candidate shall seen	re-overall 50% of the maximum marks of the course i	Le_, CIE+SEE put together					

Note: Students are to be taken on study tour or given vacation assignment after IIsemester examinations, before the starting of III semester



Karmtak Law Society's GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI-08 Bachebr of Architecture SCHEME OF TEACHING AND EXAMINATION



Semester: IV

Subject Stream	Subject Code	Course	Subject Title	Teaching		Co	tact H	5	Credits	Marks					Duration of Exam
	Туре		192	Department	L	S	P/SE	Total	1	CE		SEE		Total	
				V P V						æ	FA	VEATW	FLAM	1	
DESIGN	18DES 4_1N	PC	Architectural Design -III	Architecture	1	6	0	7	10	10	40	50	-	100	-
	18TEC 4_IN	BS&A E	Building Construction and Materials-IV	Architecture	900	2	2	5	5	10	40	50	-	100	-
TECHNOLOGY	18TEC 4.2N	BS&AE	Building Services-II 🚈 💈	Architecture	3	0	- 0	3	3	10	40	-	50	100	3 hus
	18TEC 4_3N	BS&AE	Structures-IV	Architecture	3	0	0	3	3	10	40	-	50	100	3 hus
	18TEC 4.4N	SEC	Computer Application-II	Architecture	1	0	2	3	2	10	40	50	-	100	141
	18HUM 4_1N	PC	History of Architecture-IV	Architecture	3	0	0	3	3	10	40	-	50	100	3 hus
HUMANITIES	18HUM 4.2N	PC	Humanities	Architecture	1	0	2	3	2	20	\$0	-	-	100	-
	•		- MA	Total	13	1	6	27	25	\$0	320	150	150	700	

L-Lecture	CIE - Continuous Internal Evaluation	CP-Class Participation						
S-Studio	SEE- Semester End Examination	PA-Progressive Assessment	CA-Compulsory Audit					
P-Practical	PC - Professional Core; BS&AE-Building	Science and Applied Engineering, PE-Professiona	l Elective; CE- Open Elective					
SE - Studio Exercise	PAECC - Professional Ability Enhancement	nt Compulsory Courses, SEC - Skill Enhancement C	OURSES.					
Minimum Marks for passing	Theory, Studio and Lab Marks (CIE): 50%, Term Work/Viva/Lab(SEE): 40% Theory Marks (SEE): 40%,							
	For a pass in a course, a candidate shall secure overall 50% of the maximum marks of the course i.e., CIE+SEE put together.							



Karuntak Law Society's **GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI-08** Bachelor of Architecture SCHEME OF TEACHING AND EXAMINATION



Department:Architecture

Department : A	rchitecture													Sem	ester: V
Subject Stream	Subject Code	Course	Subject Title	Teaching		Co	tact H	irs 🛛	Credits			Marks			Duration
		Туре		Department	L	S	P/SE	Total	ī	C	E	SEE		Total	ofExam
										æ	PA	VEATW	HAN	1	
DESIGN	18DES 5_IN	PC	Architectural Design -IV	Architecture	0	1	0	1	12	10	40	50	-	100	-
	18DES 5.2N	PC	Theory of Architecture-I	Architecture	3	0	0	3	3	10	40	-	50	100	3 lus
	18DES 5.3N	SEC	Working Drawing	Architecture	1	0	2	3	2	10	40	50	-	100	-
	18TEC 5_IN	BS&A E	Building Construction and Materials- V	Architecture		2	2	5	5	10	40	50	-	100	-
TECHNOLOGY	18TEC 5.2N	BS&AE	Building Services-III	Antitecture	3	0	0	3	3	10	40	-	50	100	3 1 us
	18TEC 5.3N	BS&AE	Structures-V	Architecture	3	0	0	3	3	10	40	-	50	100	3 i ns
	18HUM 5_IN	PC	History of Architecture-V	Architecture	3	0	0	3	3	10	40	-	50	100	3 i ns
HUMANITIES	18HUM 5.2N	PC	Vacation Assignment-II	Architecture	0	0	0	0	CA	20	\$0	-	-	100	-
			and the second se	Total	14	10	4	28	31	90	360	150	200	\$00	

L-Lecture	CIE- Continuous Internal Evaluation	CP-Class Participation	
S-Studio	SEE- Semester End Examination	PA-Progressive Assessment	CA-Compulsory Audit
P-Practical	PC - Professional Core; BS&AE-Building Scie	arce and Applied Engineering, PE- Professional Ele	ctive; OE- Open Elective
SE - Studio Exercise	PAECC - Professional Ability Enhancement Co	mpulsory Courses, SEC - Shill Enhancement Course	S .
Minimum Marks for passing	Theory, Stufio and Lab Marks (CIE) : 50%, Te	nn World/ Viva/Lab(SEE) : 40% Theory Marks (SE	E): 40% ,
	For a pass in a course, a candidate shall secure	overall 50% of the maximum marks of the course in	e., CIE+SEE put together.

Note: Students are to be taken on study tour or given vacation assignment after IV semester examinations, before the starting of V semester



Kamatak Law Society's GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI-08 Bachelor of Architecture SCHEME OF TEACHING AND EXAMINATION



Semester: VI

Subject Stream	Subject Code	Course	Subject Title	Teaching		Ca	stact I	lirs	Credits			Mar	is 🛛		Duration of
		Туре		Department	L	S	P/SE	Total		CE SEE	Total	Exam			
			6							æ	PA	VEA	RIAM	1	
DESIGN	18DES 6.1N	PC	Architectural Design-V	Architecture	0	1	0	8	12	10	40	50	-	100	-
	18DES 6.2N	PC	Theory of Architecture II 🤍 🚿	Architecture	3	0	0	3	3	10	40	-	50	100	3 hus
	18DES 6_3N	PC	Landscape Architecture 🖉 📶	Architecture	2	0	2	4	3	10	40	-	50	100	3 hus
TECHNOLOGY	18TEC 6.IN	BS&A E	Building Construction and Materials- VI	Architecture		2	2	5	5	10	40	50	-	100	-
	18TEC 6.2N	BS&AE	Structures-VI	Architecture	3	0	0	3	3	10	40	-	50	100	3 hus
THEFT	18HUM6_IN	PC	Physical Planning	Architecture	3	0	0	3	3	10	40	-	50	100	3 hus
HUMANITIES	18HUM 6.2N	PC	Contemporary Architecture	Architecture	3	0	0	3	3	10	40	-	50	100	3 hus
			34	Total	15	10	4	29	32	70	250	100	250	700	

L-Lecture	CIE - Continuous Internal Evaluation	CP-Class Participation	
S-Studio	SEE - Semester End Examination	PA-Progressive Assessment	CA-Compulsory Audit
P-Practical PC - Profess	sional Core; BS&AE-Building Science and Appl	ied Engineering, PE- Professional Elective; OE-	Open Elective
SE - Studio Exercise	PAECC - Professional Ability Enhancement (Compulsory Courses, SEC - Skill Enhancement Co	UESCS.
Minimum Marks for passing.	Theory, Siniio and Lab Marks (CIE) : 50%, 1	ferm World Viva/Lab(SEE) : 40% Theory Marks	(SEE): 40%,
	For a pass in a course, a candidate shall secu	e overall 50% of the maximum marks of the cour	se i.e., CIE+SEE put together.

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Department :/	Inchitecture							•						Sem	ster: VII
Subject Stream	Subject Code	Course	Subject Title	Teaching		Co	atact 🗄	irs	Credits			Ma	ils -		Duration
-	-	Туре	2	Department	L	S	P/SE	Total	1	C		S	a e	Total	ofExam
									a	PA	VIVA	REAL	1		
DESIGN	18DES 7_1N	PC	Architectural Design-VI	Architecture	2	1	-	10	14	10	40	50	-	100	-
	18DES 7.2N	PC	Specification, Estimation and	Architecture	3	0	-	3	3	10	40	-	50	100	3 hus
TECHNOLOGY	18TEC 7_IN	BS&AE	Alternate Building Techniques	Architecture	0	0	4	4	2	10	40	50	-	100	-
	18TEC 7.2N	BS&AE	Building Services -IV	Architecture	3	0	1.	3	3	10	40	-	50	100	3 h us
	18TEC 7.3N	PC	Earthquake Resistant	Architecture	2	0		2	2	20	20	-	-	100	-
HUMANITIES	18HUM 7_IN	PE	Elective -I	Architecture	2	0	2	4	3	20	20	-	-	100	-
	18HUM 7.2N	PAECC	Professional Practice-I	Architecture	3	0	1-1	3	3	10	40	-	50	100	3 h us
	18CRT7_IN	SEC	Certification Course	Architecture	D	0	1.5	0	1	-	50	-	-	50	-
	•			Total	15	×	6	29	31	90	410	100	150	750	
				1 G	/	JAC									
L-Lecture		CIE - Contin	nuous Internal Evaluation 🦳	CP-Class Part	licipa	tion					Ì	Ì			
S-Studio		SEE-Seme	ster End Examination	PA-Progressi	re As		went					CA-C	aupulse	xy Andi	t
P-Practical		PC - Profess	sional Core; BS&AE-Building Sci	ience and Applie	d Eng	jacc	ring, P E	- Profes	sional Ele	ctive,	OE-0	Open E	lective		
SE – Studio Exerci	ise	PAECC - Pr	ofessional Ability Enhancement C	ompulsory Cours	es, S	EC -	Shii E	ihancem	ent Course	S.	1				
Minimum Marks fo	r passing:	Theory, Stat	io and Lab Marks (CIE) : 50%, T	enn Work/ Viva/	Lab(S	SEE)	: 40%]	[heory]	dariks (S E	E):4	0%,	·	i		
		For a pass in	na course, a candidate shall secur	e overall 50% of	i the r	RELIT		iks of th	e course i.	c_CI	E+SE	E pot to	gether.		

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A TITA			SCHEME OF	TEACHING	G AN	DEX	AM	NATIO	N						ALLER ALLER
Department :An	chitecture													Seme	ster: VII
Subject Stream	Subject	Course	Subject Title	Teachi	g		C	nfact H	rs	Credits		Marks			Duration
	Cede	Туре		Department		L	S	P/SE	Total	1	CIE	SEE		Total	of Exam
				5 M							FA	WVA	EXAM	1	
DESIGN	18DES 8_1N	PAECC	Professional Training	Architect	пс	1	1	ló weeks		16	50	50	-	100	-
	•	1	P	and a	Total	Z	2	2		16	50	50		100	
Lecture		CIE- C	tinuous Internal Evaluation	CP-Chas	Partin		2	1							
Studio		SEE- Sem	ester End Examination) 🍳	PA-Progr	essive	Ass		4				CA-Ci	mpulsu	ry And	it
Practical		PC - Profe	ssional Core; BS- Building Sc	ience and Ap	plied	Engi	ineen	ing PE-	Professi	onal Electi	ve; OE-	Open Ele	ctive		
E - Stulio Exercis	e	PAECC -	Professional Ability Enhancen	nent Compuls	ary C	DUESE	s; SI	ec - ski	l Enhand	rement Cou	ISES.				
dinimm Marks for	passing	Theory, St	ndio and Lab Marks (CIE) : 54	%, Term W	ark/ V	iva/I	ab(S	EE) : 40	% Theor	ry Maries (SEE) : 44	1%,			
		For a pass	in a course, a candidate shall	secure overa	11 507	6 of t	he m	asimum	marks of	the course	ie, CIE	HSEE pa	nt togeth	er	



Karantak Law Society's

GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI-08

Bachelor of Architecture

SCHEME OF TEACHING AND EXAMINATION



Semester: IX

Subject Stream	Subject Code	Course	Subject Title	Teaching		C	fact H	5	Credits			Mark	5		Duratie
		Туре		Department L S P/SE		P/SE	Total	1	C	E	SE	E	Total	of Exam	
					-					œ	FA	WVA/TW	DIGH	1	
DESIGN	18DES 9.1N	PAECC	Dissertation (Thesis Part- I)	Architecture	2	4	0	6	5	10	40	50	-	100	-
	18DES 9.2N	BS&AE	Energy Efficient Architecture	Architecture	1	0	4	5	3	10	40	50	-	100	-
	18DES 9_3N	PE	Elective-II	Architecture	2	0	2	4	3	20	\$0	-	-	100	-
TECHNOLOGY	18TEC 9_1N	PE	El ective-III	Architecture	2	0	2	4	3	20	S 0	-	-	100	-
HUMANTIES	18HUM9_1N	PAECC	Professional Practice-II	Architecture	3	0	0	3	3	10	40	-	50	100	3 hus
Total				(S)	10	4		22	20	70	220	100	50	500	

L-Lecture	CIE- Continuous Internal Evaluation	CP-Class Participation	
S-Studio	SEE- Senester End Examination	PA-Progressive Assessment	CA-Compulsory Audit
P-Practical	PC - Professional Core; BS- Building S	cience and Applied Engineering; PE-Profession	al Elective; OE- Open Elective
SE - Studio Exercise	PAECC - Professional Ability Enhanced	ment Compulsory Courses; SEC - Skill Enhance	ment Courses.
Minimum Marks for passing	Theory, Studio and Lab Marks (CIE): 5	0%, Term Work/ Viva/Lab(SEE) : 40% Theory	Marks (SEE) : 40%,
	For a pass in a course, a cantidate shall	secure overall 50% of the maximum marks of the	he course i.e., CIE+SEE put together



KarantakLaw Society's

GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI-08

Bachebr of Architecture

SCHEME OF TEACHING AND EXAMINATION



Semester: X

Subject Stream	Subject Code	Course	Subject Title	e	Tead	ling		Cee	ifact H	s	Credits		Marks			Duration o			
		Туре			Department		Department		L	S	P/SE	Total	1	C	E	S	212	Total	Eram
					-	T	-					œ	PA	VWA	FIAM	1			
DESIGN	18DES10_1N	PC	Architectural Design]	Project	Archite	cture	0	10	-	10	15	10	40	50	-	100	-		
HUMANITIES	18HUM10_1N	SEC	Constitutional Law	/	Archite	ecture	2	0	- /	2	2	20	\$0	-	-	100	-		
		Œ	Open Elective		8/8	106	2	0	1	2	2	-	50	-	50	100	3 Has		
				25	Just	Total	4	10	24	14	19	30	170	50	50	300	-		

L-Lecture	CIE- Continuous Internal Evaluation	CP-Class Participation	
S-Studio	SEE- Semester End Examination	PA-Progressive Assessment	CA-Compulsory Audit
P-Practical	PC - Professional Core; BS&AE-Buildi	ing Science and Applied Engineering; PE- Professional Elective;	
	OE- Open Elective(Offered by other eng	incering departments)	
SE - Stulio Exercise	PAECC - Professional Ability Enhancen	nent Compulsory Courses, SEC - Skill Enhancement Courses.	
Minimum Marks for passing	Theory, Stufio and Lab Marks (CIE) : 50	0%, Term Work/ Viva/Lab(SEE) : 40% Theory Marks (SEE) : 40%,	
	For a pass in a course, a candidate shall	secure overall 50% of the maximum marks of the course i.e., CIE+SEE	put together

DISSERTATION (Thesis Part-I)

Course Code	18DES9.1N	Credits	8
Course type	PAECC	CIE Marks	50
Hours/week: L-T-P	6 HRS (2 Lecture+4 Studio)	SEE Marks	50
Total Hours:	84 Hrs	SEE Duration	Viva Voce

Course learning objectives:

- 1.To understand what is 'Research', various methods of research and its applications.
- 2.To understand the role of research/study in defining the Issue/Phenomenon while dealing with an Architectural project.
- 3.To identify the Thesis topic based on Architectural Issue/Phenomenon, discuss its relevance in the present context and present it in the form of Synopsis.
- 4.To illustrate the process of research through documentation, analysis and representation with the help of Literature study and Case studies.

UNIT 1: Introduction

Introduction to 'Research' in general, various Research methods and its applications in the field of design, Research in the Architectural context, various methods of research influencing and defining Architectural projects.

UNIT II: Synopsis

Introduction to the Thesis project by identifying /emphasizing the Issue or Phenomenon which should become focus/aim of the study. Write Architectural Synopsis that shall constitute the Title of Thesis, Elaborations on the Topic, Objectives of Thesis, Hypothesis and Methodology.

UNIT III:Literature Study

Introduction of the topic and Intention of Thesis, Dictionary meanings of the key words, a) Elaboration on the Issue/Phenomenon: Characteristics and Historical Aspects.

b) Architecture dealing with the Issue/Phenomenon: Chronological documentation of Architecture dealing in those phenomena, Opinions of Experts on the phenomenon on the issue and architecture dealing with the issue.

UNIT IV: Selection of Case Studies (2 Literature and 2 Live Case Studies) 15 Hours

- a) To identify and present appropriate Literature Case studies that shall demonstrate design techniques dealing with the Issue/Phenomenon.
- b) To identify appropriate Live case studies that shall determine the programme of Architectural Project.

15 Hours

49 Hours

5 Hours

Reference:

- 1. Groat Linda N. and Wang David, Architectural Research Methods, 2013, John Wiley & Sons.
- 2. Lucas Raymond, Research Methods for Architecture,2016, Laurence King Publishing.
- **3.** Lang Jon, Creating Architectural Theory: The Role of the Behavioral Sciences in Environmental Design 1987, Van Nostrand Reinhold Company.
- 4. Unwin Simon, Analyzing Architecture 2003, Psychology Press.

Scheme of Continuous Internal Evaluation (CIE):

Components	Progressive Marking	Average of assignments (Two) /activity	Quiz/ Seminar /Project	Class Participati on	Total Marks
Maximum Marks:50	40			10	50
>>Minimu	m marks required	l to qualify for SEE	: 25 (50%)		

Scheme of Semester End Examination (SEE):

- 1. It will be conducted as 50 marks viva-voce exam and same will be considered for the calculation of SGPA and CGPA.
- 2. Minimum marks required in SEE to pass: 20 (40%)
- 3. For a pass in the course, a candidate shall secure overall 50% of the maximum marks of the course i.e., CIE+SEE put together.

ENERGY EFFICIENT ARCHITECTURE

Course Code	18DES9.2N	Credits	03
Course type	BS&AE	CIE Marks	50
Hours/week: L-T-P	5 Hrs (1 Lecture + 4 Studio exercise) per Week	SEE Marks	50
Total Hours	80 Hrs	SEE Duration	Viva Voce

Course learning objectives:

1. To introduce students to the techniques of reading and understanding the strategies of Energy Efficient Architecture.

2. To enable students to apply the concepts of energy efficient Architecture to building design.

UNIT I: Introduction to Energy Efficient Architecture and Building Rating Systems 16 Hours

- a. Introduction to Energy Efficient Architecture, need for Energy Efficient Architecture, components of Energy Efficient Architecture like Energy Efficient Materials, efficient building systems, Energy Efficient solar passive / active systems, efficient use of resources. Energy demand of a building, impact of building industry on ecology, carbon footprint, ecological footprint.
- b. Introduction to rating systems like BREEAM, ASHRAEE, LEED, GRIHA and national codes like NBC, ECBC

UNIT II: Design Exercise and Methodology

64 Hours

- a. Design shall explore few components / strategies of Energy Efficient Architecture like Energy Efficient Materials and their assembly, Solar passive shading strategies for design of critical facade and roof. This exercise shall be demonstrated through design of critical facade for buildings designed in the earlier semesters with requisite climatic context.
- b. The exercise shall comprise of various stages like site selection and analysis, reading the context, case study analysis, data collection, conceptual design sketches, design drawings and final design submission. The design shall be explored through softwares like Climate Consultant, Ecotect, Sketchup and others.

Course Delivery Methods

- 1. Lectures
- 2. Case study Presentation
- 3. Site Study
- 4. Design Discussions

Assessment Methods 1. Case study Assessment 2.DesignReviews 3. Design Viva **References:**

- 1. Givoni Baruch, "Passive and Low Energy Cooling of Buildings", Van Nostrand Reinhold, New York, 1994.
- 2. Sodha, M., Bansal, N. K., Bansal, P. K., KuMEB, A., and Malik, M. A. S., "Solar Passive Buildings", Pergamon Press, Oxford, 1986.
- 3. Bansal Narendra, K., Hauser Gerd and Minke Gernot, "Passive Buildings Design: A Handbook of Natural Climatic Control", Elsevier Science, Amsterdam, 1994.
- 4. Goulding, John, R., Lewis, Owen, J., and Steemers, Theo, C., "Energy in Architecture", Bastford Ltd., London, 1986
- 5. Day lighting in Buildings Source Book; LBNL and International Energy Agency; 2008.
- 6. Lam, William M.C.; Perception and Lighting as Form Givers for Architecture, 1968.
- 7. Koenigsberger O.H., Ingersoll T.G., Mayhew Alan, Szokolay S.V., "Manual of Tropical Housing and Building", Universities Press, Hyderabad, Telangana, 1975 and onwards.
- 8. National Building Code of India 2005, Bureau of Indian Standards, Govt. of India, New Delhi, 2005 onwards
- 9. Energy Conservation Building Code Rules, 2018, Bureau of Energy Efficiency, Govt. of India, New Delhi, 2018.

Components	Portfolio Marking	Average of assignments (Two) /activity	Quiz/ Seminar /Project	Class Participation	Total Marks
Maximum Marks:50	40	and the	er-	10	50
> Minimu	m marks requir	 red to qualify for S	EE: 25 (50%))	

Scheme of Continuous Internal Evaluation (CIE):

Scheme of Semester End Examination (SEE):

- 1. It will be conducted as 50 marks viva-voce exam and same will be considered for the calculation of SGPA and CGPA.
- 2. Minimum marks required in SEE to pass: 20 (40%)
- 3. For a pass in the course, a candidate shall secure overall 50% of the

maximum marks of the course i.e., CIE+SEE put together

Elective II

Course Code	18DES9.3N	Credits	3
Course type	РЕ	CIE Marks	100
Hours/week: L-T-P	4 HRS (2 Lectures ,2 Studio Exercises)	SEE Marks	-
Total Hours:	56 HRS	SEE Duration	-

18DES9.31 INTERIOR DESIGN

Course learning objectives:

1. To introduce the concept of interior design.

2. To understand the various components of interior space, treatment and finishes for the same.

Introduction to Interior Design. Definition and process of interior design- principles and elements like space, line, forms, light, color, texture and pattern –introduction to the design of interior spaces as related to function, themes, concepts and anthropometry.

Students shall explore an interior space and analyze the principles and elements. Components of Interior Space-Interior Treatment and Finishes

Treatment of components such as floors, ceilings, walls, partitions, window treatments, accessories etc., in terms of their choice and design related to materials, methods of construction, color and texture based on functional, aesthetic and psychological criteria.

The students shall prepare a material palette to understand the application of materials.

Components of Interior space Lighting and Interior Landscape - Understanding various types of lighting and lighting fixtures, their effects and application in different contexts. Interior landscape elements: rocks, plants, water, paving and artifacts. Students are expected to do a literature case study to understand the ambience created by lighting and landscape in interior spaces as well as in exterior spaces.

Design Exercise: A functional space is introduced to students as a design problem. Students are required to do the live case study to understand the design process. Further the study culminates into a detailed interior design project. Design Methodology: The entire Design Development process comprises of various stages like understanding the significance of principles and elements of interior design. To understand the role of its components influencing design of an interior space through various case studies, concept, conceptual design sketches, study models, design drawings and final design submission.

References:

1. Francis .D.K. Ching, Interior Design Illustrated, V.N.R. Pub., NY 1987.

2. John Kurtich& Garret Eakin, Interior Architecture, VNR, New York, 1993

3. Rezmikoff, Interior Graphic and Design Standards, Whitney Library of Design, New York, 1986

18DES9.32 FURNITURE DESIGN

Course learning objectives:

- 1. The course provides a historical underpinning to the student's understanding of the furniture field.
- 2. To familiarize the students about the knowledge of furniture design and various aspects involved in the Design of furniture for various spaces.
- 3. To enable the students to learn about the types and importance of furniture, know about the selection, care and arrangement of furniture.
- Study of origins: modern design and the major schools and philosophies of 20th Century furniture design. This ranges from the 19th century roots of the Industrial Revolution, the Arts and Crafts movement, European design movements such as the Vienna Werkstatte and the Bauhaus, the development of the first international styles such as Art Nouveau, Art Deco and Modernism. Study of furniture forms by contemporary artists and designers.
- 2) Emphasis and discussions of the social, economic and cultural context of furniture on the evolution of the domestic realm and the role of furniture within it.
- 3) Study of Anthropometry and Ergonomics in relation to various furniture, diagrammatic representation through charts.
- 4) Furniture Forms and Their Influence on Our Emotional Responses.
- 5) Importance of furniture in relation to Interiors: study of shapes, forms and patterns of furniture.
- 6) Study of various design technologies and materials used to manufacture furniture.
- 7) Environmental conditions influencing furniture designs such as: Climatic, social, economic.
- 8) Techniques of finishing the Surfaces: Wood and Metal Paints, Polishes and varnishes etc: hand painting, brush painting, roller, spray.

References:

- 1. Stuart Lawson, Furniture Design: An Introduction to Development, Materials, Manufacturing, Laurence King Publishing, London 2013.
- 2. JerrylHabegger , Sourcebook of Modern Furniture , W. W. Norton &Co.Pennsylvania 2005.
- 3. Andrea Mehlhose, Modern Furniture: 150 Years of Design, H.F.Ullmann Publishing, Germany 2009.

18DES 9.33.PARAMETRIC DESIGN

Parametric design is a process based on algorithmic thinking that enables the expression of parameters and rules that, together, define, encode and clarify the relationship between design intent and design response.

This course aims to introduce and give an overview of:

- 1. Introduction to Parametric design modeling in Architecture.
- 2. Introduction to elements of Parametric design- Programming, Geometry, Patterns and Design space exploration.
- 3. Introduction to parametric design software Mc-Neel Rhinoceros and Grasshopper 3D.
- 4. Exploration of parametric modeling techniques with the basic Architectural design problems and finding family of solution outcomes. eg.: Elements of Architecture, facade solutions, Form finding, etc.
- 5. Post-production Digital fabrication techniques- Sectioning, Tessellating, Folding, Contouring and Forming
- 6. Physical Model building.

References:

- 1. Woodbury Robert: Elements of Parametric design, Routledge, UK, 2010
- 2. Iwamoto Lisa: Digital Fabrications- Architecture and Material Techniques, Princeton Architectural Press, New York, USA, 2009
- 3. KhabaziZubin: Generative Algorithms, Morphogensisim, E-Book, 2010
- 4. Payne Andrew and RajaaIssa: Grasshopper Primer, e-book, 2009

18DES9.34 ECO SENSITIVE DESIGN

Rapid Urbanization results in increased population and industrialization, impacting the urban spaces and the environment. When not managed properly it can affect the environment. The major impacts due to urbanization are climate change, deforestation, and population growth. There is a need for green infrastructure, an environment-sensitive approach as a tool to facilitate the necessary shift from industrialization to the ecosensitive age. Eco Sensitive design is both a principle and an approach. This approach involves in the application of sensitive environmental factors into a design that minimizes the negative effects on the ecology.

The elective will give an overview of Eco Sensitive Design philosophy and will be exploring the understanding and application of Eco Sensitive Design strategies.

The Elective aims to develop an understanding of Environment & Ecology, the techniques that are required for the design of buildings and their surroundings in a climate-responsive manner.

The elective gives a brief understanding of the Fundamentals of Environment & Ecology, the definitions, and concepts of ecosystem and ecology.

The course introduces and gives an overview of:

- a. Introduction to Ecology and Eco Sensitive Design in Architecture.
- b. To understand the correlation between the environment and society.
- c. Eco Sensitive design strategies and construction techniques.
- d. Building materials used for Eco-Sensitive Design.

e. Case Studies of Eco-Sensitive buildings.

The students, therefore, develop an understanding of how to deal with ecologically sensitive site contexts in a sensitive and holistic way.

REFERENCES:

- 1. Ian L. McHarg,. "Design with nature",1995
- 2. John Simonds,. " Landscape Architecture: A Manual of Site Planning and Design, 1997.
- 3. Frank Lloyd Wright,. "Natural Design,Organic Architecture:Lessons for Building Green from an American Original".
- 4. <u>Alastair Fuad-Luke</u>, "The Eco-Design Handbook: A complete Sourcebook for the Home and Office Hardcover, October 2009.
- 5. "Eco-Design Handbook, The: A complete Sourcebook for the home and O: A complete Sourcebook for the Home and Oddice Paperback, October 2004.
- 6. Victor Papanek, 'Design for the Real world, Human Ecology and Social Change', Chicago Review Press, 2005
- 7. Daniel Williams, 'Sustainable Design, Ecology, Architecture and Planning', John Wiley and Sons Inc, NJ, 2007.

Michael D. Murphy,. "Landscape Architecture Theory: An Ecological Approach" 2016

Component s	Submission s and Assignment s	Average of assignment s (Two) / activity	Quiz/Seminar/Project	Class Participat ion	Total Mark s
Maximum Marks: 100	80	100 M	Duran	20	100
	s subject does marks requir		ester End Examination (E: 50 (50%)	SEE).	I

Scheme of Continuous Internal Evaluation (CIE):

Elective –**III**

Course Code	18TEC9.2N	Credits	3
Course type	РЕ	CIE Marks	100
Hours/week: L-T-P	4 HRS (2 Lectures ,2 Studio Exercises)	SEE Marks	-
Total Hours:	56 HRS	SEE Duration	-

18TEC9.21 INTRODUCTION TO BASICS OF DESIGN AND CONSTRUCTION TECHNOLOGY OF HIGHRISE ARCHITECTURE. -

The major metropolitan cities around the world are unimaginable without High Rise Structures. The stacked area development in these megacities is inconceivable and would be impossible to organize in layers with only a few floor levels. Increasing acceptance and need in Europe, Middle East and Asia of high-rise development has led to the need to understand the complex task of planning this typology. Various planning processes, belonging to different disciplines go into building of high rise-from project management to site supervision, from foundations and load bearing structures to effects of wind, Façade structures to building systems, fire protection, Elevator installation etc.

This course aims to introduce and give an overview of:

- 1. The brief History of the High-rise and it as Unique Typology.
- 2. Socio-Economic Factors influencing High Rise architecture Rise in Urban population and Density, vehicular Congestion, High Rise buildings as Buildingblocks of a city and its skyline.
- 3. Economic and Urban factors influencing High-rise buildings–Profitability, construction and maintenance costs, Renting and rent estimate, FSI and other Development guidelines.
- 4. High Rise Building Types and their typical Spatial Organisations, Office organisation and building grid. Advantages and disadvantages of tall buildings, Essential Amenities.
- 5. Types of High-rise foundations and load bearing structures/systems (direct and indirect load transfer systems).
- 6. Effects of Wind on high-rise towers like wind loads, ventilation, pedestrian comfort and wind noise, smoke extraction
- 7. Properties of High-rise facade and facade types.
- 8. Fire Protection.
- 9. Elevator Installation.

References:

- 1. Eisele, Johann, Cloft, Ellen, "High-Rise Manual; Typology and Design, Construction and Technology". Birkhauser, Boston.
- 2. Mehta, B, Jashwant, "High-Rise buildings" Bombay, 1978
- 3. Watson, Donald,."Time-Saver Standards for Urban Design". McGraw Hill Education, 2017
- 4. Gallion A. B,. "The Urban Pattern City Planning And Design". Cbs. 2005.

18TEC9.22 GEOGRAPHIC INFORMATION SYSTEM GIS

Geographic information system is a software environment system which comprises the holistic approach towards the representation, recording as well as management of spatial data for analysis and planning. Its application varies largely from urban, ecological, soil, water and resource management. Also the tools and resources available in GIS system can widely be used in analysis of terrain landforms and water flow analysis.

- 1) Introduction to GIS and its applications
- Introduction to various types of maps and map analysis and elements of cartography and its concepts viz. coordinate systems and various types of GIS package systems.
- 3) Introduction types of data, spatial and non-spatial data, data structures, points, lines, polygon, vector and raster, files and file organization, database, data entry, digitizer, scanner, Dbase, files and data formats, data compression.
- 4) Spatial analysis, data retrieval, query, simple analysis, recode, overlay, vector data analysis, raster data analysis, modelling in GIS, digital elevation model, DTM, cost and path analysis.
- 5) Types of output data, display on screen, printer, plotter, other output devices, sources of errors, types of errors, elimination, accuracies.
- 6) Resource management, agriculture, soil, water, resources management, cadastral records and LIS, integration of Remote Sensing in GIS, knowledge based techniques.
- 7) Representation of small GIS project by actual application to familiarize the students with the concepts and application of GIS in database management and real world applications.

References:

- 1. Woodbury Robert: Elements of Parametric design, Routledge, UK, 2010
- 2. Iwamoto Lisa: Digital Fabrications- Architecture and Material Techniques, Princeton Architectural Press, New York, USA, 2009
- 3. KhabaziZubin: Generative Algorithms, Morphogensisim, E-Book, 2010
- 4. Payne Andrew and RajaaIssa: Grasshopper Primer, e-book, 2009
- 5. Eisele, Johann: High-Rise Manual, BirkhauserVerlag AG, 2003
- 6. Wheeler. Stephen M.: Planning for Sustainability: Creating livable, equitable and ecological communities, Third Edition, 2013
- 7. Reinventing Dharavi- An Ideas Compendium, Urban Design Research Institute (UDRI), 2017

18TEC9.23 COST-EFFECTIVE ARCHITECTURE.

Cost – effective architecture is all about design and construction that optimizes the various aspects of construction without reducing the quality of the final product. Cost – effectiveness does not mean sub-standard or poor quality structure. It involves strategies intended to optimize resources, technology, material utilization and maximum efficiency of the structure.

This course aims to introduce and give an overview of :

- 1) Meaning of Cost-effectiveness in architecture.
- 2) Costs involved during building construction.
- 3) Factors influencing application of cost-effective techniques in construction.
- 4) Cost-effective design strategies and construction techniques.
- 5) Cost-effective building materials.
- 6) Contributions of organizations like Hunnarshala Foundation, COSTFORD, Dharmalay Institute and others in propagating cost effectiveness in architecture.
- 7) Case Studies of cost-effective buildings.

References:

- 1. Laurie Baker, Houses: How to Reduce Building Costs, COSTFORD: Center of Science and Technology for Rural Development.
- 2. Laurie Baker, A Manual for Cost Cuts for Strong Acceptable Housing, COSTFORD: Center Of Science and Technology For Rural Development.
- 3. Gernot Minke, Earth Construction Handbook: The Building Material Earth in Modern Architecture, WIT Press, Southampton, Boston.
- 4. Environment Friendly Indian Building Material Technologies for Cost Effective Housing, SocietyFor Excellence In Habitat Development, Environment Protection and Employment Generation (SHEE)
- 5. Demonstrating Cost Effective Technologies (A Case Study of Bawana Industrial Workers Housing Project) Building Materials & Technology Promotion Council (BMTPC)Ministry of Housing and Urban Affairs, Government of India.
- 6. Utilisation of Recycled Produce of Construction & Demolition Waste: A Ready Reckoner, Building Materials & Technology Promotion Council (BMTPC)Ministry of Housing and Urban Affairs, Government of India.

Components	Submissions and Assignments	Average of assignments (Two) / activity	Quiz/Seminar/Project	Class Participation	Total Marks
Maximum Marks: 100	80	-	-	20	100

• Note: This subject does not have Semester End Examination (SEE).

• Minimum marks required to pass CIE: 50 (50%)

PROFESSIONAL PRACTICE-II

Course Code	18HUM9.1N	Credits	3
Course type	PAECC	CIE Marks	50
Hours/week: L-T-P	3 Hrs. (Lectures) per Week	SEE Marks	50
Total Hours	42 Hrs	SEE Duration	3 Hours

Course learning objectives:

- 1) To understand the process of Contract Administration and supervision
- 2) To understand Arbitration, Valuation and dilapidation
- 3) To understand the Building byelaws and Easements.
- 4) To understand the General Laws

UNIT I: Contract Administration and Supervision

- a) Meaning and purpose of supervision, site visits, site office, site meetings, coordination with various agencies, site book, site instructions and clerk of works.
- b) Execution of contract Joint measurements, checking running bills with reference to measurement book, different certificates by architect—interim, penultimate, virtual completion and final certificate; defects liability period, latent and patent defects, prime cost and provisional sum.
- c) Contract administration: Overview of procedures in contract administration including financial aspect, bar chart and CPM chart.

UNIT II: Arbitration

- a) Introduction, definition, advantages and disadvantages of Arbitration, Conciliation Act 1996, difference between Arbitration and Conciliation.
- b) Arbitrator, umpire, order of reference, selection of arbitrator, powers and duties of arbitrators.
- c) Conduct of Arbitration proceedings, Arbitration award and its implementation.

08 Hours

10 Hours

UNIT III: Valuation and Dilapidation

- a) Introduction to valuation, definitions, essential characteristics, classification of value, purpose of valuation. Various terms used in valuation, study of valuation tables.
- b) Various methods of valuation, factors affecting valuation, specimen valuation report based on land and building method and on rental method.
- c) Dilapidation—definition, schedule of dilapidation report of typical load bearing mangalore tiled ground floor building and three storied R.C.C. building. Physical, economic life of buildings and obsolescence.

UNIT IV: Building Byelaws and Easements

- a) Building bye laws: Introduction, importance of building bye-laws, various definitions, building license, foundation and supervision certificate, colour codes plans and site plan, Completion certificate (CC), setbacks and F.A.R. height limitations, parking, details for residential and commercial buildings, division of plots and plot coverage.
- b) National building code, purpose of NBC, building line, accessibility, residential layouts, zoning regulations. Emerging Bye Laws: Environmental laws, Firefighting laws, Water Harvesting, Solar energy, Wind energy.
- c) Easements: various easement rights, protecting client's interest with reference to easement rights laws related to property and land: tenure of land, types of land holdings, land registration, covenants, trespass and nuisance.

Self-Learning Topic: Line diagram of residential building in a standard plot indicating open spaces, F.A.R, plot coverage drainage lines with colour codes as per building bye laws.

UNIT V: General Laws

- 1. Understanding of common law, statute law, equity, criminal law and civil law.
- 2. Consumer Protection Act 1986.
- 3. Professional Indemnity Insurance- Insurance against Professional liability.
- 4. Fire protection and Fire Insurance: Architect's responsibility after fire hazard in any building, Fire Insurance Premium, Reinstatement Clause, Typical Report by Architect on fire loss

Scheme of Continuous Internal Evaluation (CIE):

Components	Total of best two tests out of three	Average of assignments (Two)/Activities	Quiz/ Seminar/ Project	Class Participation	Total Marks
MaximumMarks:50	40	_	-	10	50

>Minimum marks required to qualify for SEE: 25 marks (50%)

07 Hours

07 Hours

Scheme of Semester End Examination (SEE):

- 1. It will be conducted for 100 marks of 3 hours duration. It will be reduced to 50 marks for the calculation of SGPA and CGPA.
- 2. Minimum marks required in SEE to pass: 20 out of 50
- 3. Question paper contains two questions from each unit each carrying 20 marks. Students have to answer One full question from each unit.
- 4. For a pass in the course, a candidate shall secure overall 50% of the maximum marks of the course i.e., CIE+SEE put together



ARCHITECTURAL DESIGN PROJECT (Thesis)

Course Code	18DES10.1N	Credits	15
Course type	PC	CIE Marks	50
Hours/week: L-T-P	10Hrs (Studio)	SEE Marks	50
Total Hours:	140 Hrs	SEE	Viva-Voce

Course learning objectives:

- 1.To present detailed documentation and analytical study of approved Case-studies and present the findings with the help of live and literature study.
- 2.To identify appropriate context and Site, present detailed Site study, present feasibility of Site to demonstrate the Architectural Design Project.
- 3.To formulate design program evolved out of case-study, site study and design intent.
- 4.To present conceptual process and comprehensive Architectural Design with the help of Sketches, Study-models, detailed architectural drawings, physical model and three dimensional models.

Module 1: Case-Study presentations

To present two Live and two Literature Case studies with the help of detailed documentation and analytical drawings presenting the details with regards to program, concept, and design.

Module 2: Site study

Identify appropriate context and Site that is feasible to demonstrate the Architectural Project. Discuss the context its features and issues, understand the Site and its relation with surrounding context and present the influencing factors. Present detailed analysis of Site with respect to its Location, Surroundings, Edge conditions and other physical features like topography and landscape elements.

Module 3:Program Formulation

Project design programme shall be formulated based on the outcome of various Case studies, Context and site study and intentions in design.

Module 4: Design Demonstration

Demonstrate the process of design from understanding of Issue, evolving design solutions and demonstrating its implementation through final design. Demonstrate detail Architectural project with the help of Sketches, Study-models, Detailed drawings, Physical model and three dimensional models.

20 Hours

20 Hours

85 Hours

15 Hours

References:

- 1. Groat Linda N. and Wang David, Architectural Research Methods, 2013, John Wiley & Sons.
- 2. Lucas Raymond, Research Methods for Architecture, 2016, Laurence King Publishing.
- 3. Lang Jon, Creating Architectural Theory: The Role of the Behavioral Sciences in Environmental Design 1987, Van Nostrand Reinhold Company.
- 4. Unwin Simon, Analyzing Architecture 2003, Psychology Press.

Scheme of Continuous Internal Evaluation (CIE):

Components	Progressive Marking	Average of assignments (Two) /activity	Quiz/ Seminar /Project	Class Participation	Total Marks
Maximum Marks:50	40		-	10	50

>Minimum marks required to qualify for SEE: 25 (50%)

Scheme of Semester End Examination (SEE):

- 1. It will be conducted as 50 marks viva-voce exam and same will be considered for the calculation of SGPA and CGPA.
- 2. Minimum marks required in SEE to pass: 20 (40%)
- 3. For a pass in the course, a candidate shall secure overall 50% of the maximum marks of the course i.e., CIE+SEE put together.

CONSTITUTIONAL LAW

Course Code	18HUM10.1N	Credits	2
Course type	SEC	CIE Marks	100
Hours/week: L-T-P	2 Hrs. (Lectures) per Week	SEE Marks	-
Total Hours	28 Hrs	SEE duration	-

Course learning objectives:

- 1. To understand the constitutional values and objectives written in the Indian Constitution
- 2. To understand the Fundamental rights and duties of an Indian citizen

Module I: Indian Constitution

- Preamble to the Constitution of India a)
- b) **Evolution of Constitutional Law**

Module II: Rights and Duties

- a) Scope and extent of Fundamental Rights under Part III
- b) Details of exercise of rights, limitations and important cases.
- c) Relevance of Directive principles of State Policy Under Part IV
- d) Significance of Fundamental Duties under part IV (a)

Module III: Executive

a)Union: President, Vice-President, Prime Minister, Council of Ministers, Parliament and Supreme Court of India

b) State: State Executive, Governor, Chief Minister, Council of Ministers, Legislature and high courts

Module IV: Constitutional Provision

Constitutional provisions for scheduled castes and tribes; women and children and backward classes.

Module V: Emergency Powers

- a) Emergency powers
- b) Major constitutional Amendments.
- c) Electoral Process

References:

1.Durga Das Basu," Introduction to the Constitution Of India(student edition) 2.VN Shukla, "Constitution of India"

Course delivery methods

Assessment methods

1. Lectures 1. Assignment assessment

2. Assignments

04 Hours

06 Hours

06 Hours

06 Hours

06 Hours

Scheme of Continuous Internal Evaluation (CIE):

Components	Portfolio Project	Average of two assignments	Quiz/Seminar/Project	Class participation	Total Marks	
Maximum Marks	80	-	-	20	100	
 Note: This subject does not have Semester End Examination (SEE). Minimum marks required to pass CIE: 50 (50%) 						

