All and	h.		Year 2018-23 ODD SEMESTER	Sone	me	3 01	otu	uie	5)	П		SOAP EVEN SEMESTER					_
ear	Sno	Course Cod		L	1	т	s	P	С	Sno	Course Code	Course Title	L	Т	s	F	,
		APAR117	BASIC DESIGN & CREATIVE WORKSHOP	T.	T	- 1	2		12	1	APAR118	ARCHITECTURAL DESIGN-I	1.	+	6	+	_
	1	APAR119	INTRODUCTION TO BUILDING MATERIALS	2	1				2	2	APAR120	BUILDING CONSTRUCTION &	1.	+	6	+	_
	3	APAR129	HISTORY OF CULTURE & CIVILISATION	2	+	+			2	3	APAR128	MATERIALS-I THEORY OF DESIGN	2	+	+	+	_
First	4	APAR123	ARCHITECTURAL DRAWING-I	1.	+	-	6		6	4	APAR124	ARCHITECTURAL DRAWING-II	-	+	4	+	-
	5	APAR125	ARTS AND GRAPHICS-I	+-	1		4		4	5	APAR126	WORKSHOP		+	1.	4	-
	6	APCE113	STRUCTURAL DESIGN-I	2	1.	1		-	3	6	APCE114	STRUCTURAL DESIGN-II	2	1	+	1	-
	7	APCH125	ENVIRONMENTAL STUDIES	3	1			-	3	7	APEL101	COMMUNICATION SKILLS	4	+	+	+:	\dashv
				+	1	T	1			8	APEL171	COMMUNICATION SKILLS LAB	-	+	+	2	-
		3	2 TOTAL	9	1	1 2	2	0	32		31	TOTAL		8 1	16		
	1	APAR229	ARCHITECTURAL DESIGN-II	Τ.	T.	. 1	0		10	1	APAR218	ARCHITECTURAL DESIGN-III		_	10	Т	-
			BUILDING CONSTRUCTION AND	+	+	+	+		-	一	AFARZIO		-	+-	10	+	-
	2	APAR241	MATERIALS-II		1		5	-	5	2	APAR232	BUILDING CONSTRUCTION & MATERIALS-III	-		5	ŀ	
	3	APAR231	HISTORY OF ARCHITECTURE-I	2	1	1	-	-	2	3	APAR226	HISTORY OF ARCHITECTURE-II	2		-		
	4	APAR239	ENVIRONMENT & CLIMATE	2	1	1	4	-	2	4	APAR222	ARCHITECTURAL GRAPHICS	-	-	4	-	
Second	5	APAR225	ARTS & GRAPHICS-II	-		. 3	3	-	3	5	APAR224	COMPUTER APPLICATION IN ARCHITECTURE-II	-	-	-	4	
o,	6	APAR227	COMPUTER APPLICATION IN ARCHITECTURE-I	-				4	2	6	APCE232	STRUCTURAL DESIGN-IV	2	0	-	-	
	7	APCE229	STRUCTURAL DESIGN-III	2				-	2	7	APCE230	BUILDING SERVICES-I (WATER SUPPLY & SANITATION)	2	-	-		
	8	APCE233	SURVEYING & LEVELLING	1				-	1								
	9	APCE235	SURVEYING & LEVELLING LAB	-	-			2	1								
		3	TOTAL	7	0	1	В	6	28		29	TOTAL	6	0	19	4	
	1	APAR325	ARCHITECTURAL DESIGN -IV	Τ.	Τ.	11	0		10	1	APAR318	ARCHITECTURAL DESIGN-V		_	10		-
	2	APAR333	BUILDING CONSTRUCTION AND MATERIALS-IV	-	-	5	+	-	5	2	APAR322	BUILDING CONSTRUCTION AND MATERIALS-V			5		
	3	APAR327	MODERN WORLD ARCHITECTURE	2	1.	Τ.	+		2	3	APAR312	TOWN PLANNING	-			-	-
	4	APAR329	HOUSING	+	ŀ.	+	+	+	_			WORKING DRAWING & BUILDING	2	H	-	-	_
	5	APAR323	COMPUTER APPLICATION IN	2		1	+	4	2	5	APAR310 APCE334	BYELAWS STRUCTURAL DESIGN-VI	•		6		
	6	APCE323	STRUCTURAL DESIGN-V	2	-	+	+	+	2	6			2	-	-		
	7	APCE317	ESTIMATING, COSTING &	-	-	+	+	+	-		APAR328	BUILDING SERVICES-III (ACOUSTICS) AIR CONDITIONING & MECHANICAL	1	1	-		
	8	APEE321	SPECIFICATIONS BUILDING SERVICES-II (ELECTRICAL &	2	-	+	+	+	2	7	APAR330	SERVICES	1	1	-	-	
	•	APEESZI	LIGHTING)	2	Ŀ	L.	L	4	2								
1			TOTAL	10	0	18	5 4	4	27			TOTAL	6	2	21	0	
1	1	APAR419A	BUILDING CONSTRUCTION AND	-	-	10)	-	10	1	APAR402A	PROFESSIONAL TRAINING		-		-	
	2	APAR421A	MATERIALS-VII		-	5	1	-	5								
	3	APAR431A	PROFESSIONAL PRACTICE AND OFFICE MANAGEMENT	2	-	-	1	-	2					П			
	4	APAR425A	PROJECT CONSTRUCTION MANAGEMENT	2		-	1	-	2								1
	5	APAR427A	ELECTIVE-I (SITE PLANNING & LANDSCAPE DESIGN)	2	1		1		3								1
	6	APAR513A 25	ELECTIVE-II (INTERIOR DESIGN)	2	1	ŀ			3								
			TOTAL	8	2	15	1) :	25		0	TOTAL	0	0	0	0	
1	1	APAR519A	DISSERTATION		-	6		_	6	1		ARCHITECTURAL THESIS		-	18	-	
1	3	APAR521A APAR407A	URBAN DESIGN ELECTIVE-III (ARCHITECTURAL	-	-	10	+	+	10	2	APAR522B	SEMINAR		-	4	-	
1	3		CONSERVATION) ELECTIVE-IV (SUSTAINABLE	2	1	-	1.	+	3								
-	22	APAR413A	ARCHITECTURE) TOTAL	2	1	Ŀ	Ŀ		3								
				4	2	16	10	113	<i>cz</i>		22	TOTAL	0	0	22	0	ĺ
1	1	APAR407	List of Electives ARCHITECTURAL CONSERVATION		_	1	+	+	-	7		LOW COST CONSTRUCTION	2	1		-	I
-	2	APAR407	SITE PLANNING & LANDSCAPE DESIGN	2	1			+	3	8		TECHNOLOGY WATER RESOURCE MANAGEMENT		-		_	1
1	3						1	+	+			WATER RESOURCE MANAGEMENT INTEGRATED WASTE MANAGEMENT &	2	1	-	•	1
-	4	APAR411	ART MOVEMENTS & ARCHITECTURE SUSTAINABLE ARCHITECTURE		1	1		+	3	9		TECHNOLOGY	2	1	-	٠	-
				2	1	-	1.	+	3	10		INTERIOR DESIGN	2	1	-	•	+
-		APAR415	INTELLIGENT BUILDINGS	2	1	-	1-	1	3	11	APAR515	VERNACULAR ARCHITECTURE	2	1	-		1
	6	APAR433	VISUAL ARTS	2			1	+		45	40405		-	+	-		t
	6		VISUAL ARTS	2	1	-		_	3			PARAMETRIC DESIGN rac[P]+Stud[S]+Tut[T]	1	2	-		

APAR520A	ARCHITECTURAL THESIS	L	T	S	C					
Version 1.0		0	0	10	18					
Pre-requisites/Exposure	Completion of All Design Studios till Semester VIII, Urban Design, Professional Practice									
Co-requisites	Integration of Services, Structural and with Design	Integration of Services, Structural and Construction systems								

Course Objectives

- 1. To understand the context and validate the need for a particular topic/ on-going project as Thesis topic.
- 2. To independently understand and analyse the design brief, site conditions, bye laws, context and limitations of the design project and propose a concept design
- 3. To enable the students to apply the knowledge learnt in the previous semesters in architectural design, construction and building services.
- 4. To sensitize the students to space-specific contextual factors in designing.
- 5. To sensitize the students to the special needs of the differently abled people, suffering from various types of physical limitations, as they negotiate the built environment.

Course Outcomes

On successful completion of this course, the students have capability to:

- CO1. To independently understand and analyse the design brief, site conditions, bye laws, context and limitations of the design project and propose a concept design.
- CO2. Understand the process of presenting an architectural project in totality with full set of drawings, model, research work and details explaining the background study, design brief, context and culmination of the entire research and design process.
- CO3. Create Architectural models of structural forms and important aspects of functionality.
- CO4. Apply all bye laws including fire safety norms for the building.
- CO5. To independently complete the graduation project and transition into professional practice smoothly.

Catalog Description

The multiple challenges of 'built environment' offer unlimited scope for the choice of an architectural design thesis. The selection of the thesis subject may result either from issue/s involved, or from the challenges of design, or the inherent and acquired aptitude of a student, which he/she wishes to perfect and present. The variety of intentions give students the choice to select the topic of the thesis from a purely hypothetical to a 'live' programme, as long as the topic can result in tangible 'built environment' solution.

Course Content

For reasons of maintenance of uniformity in results and standards, the thesis presentation shall be in two distinct compartments: a report comprising of all the preliminary studies required for the thesis topic, and the final design solution.

The Thesis report shall consist of all relevant contextual studies: of user, place and time to enable the formulation of design criteria.

The design solution shall be in the form of sheets and models of the concept and design and I shalfurther include the presentation of at least one specific aspect relevant to the selected topic in complete detail.

The report, in triplicate, shall be submitted in bound form together with prints/photographs of

all the drawings and models.

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination/Jury

Examination Scheme:

Components	Internal Jury	External Jury
Weightage (%)	50	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Course Outcomes (COs)	Mapped Program Outcomes
CO1	To independently understand and analyse the design brief, site conditions, bye laws, context and limitations of the design project and propose a concept design.	PO1, PO2, PO3, PO4
CO2	Understand the process of presenting an architectural project in totality with full set of drawings, model, research work and details explaining the background study, design brief, context and culmination of the entire research and design process.	PO1, PO2
CO3	Create Architectural models of structural forms and important aspects of functionality.	PSO1, PSO2 PO1
CO4	Apply all bye laws including fire safety norms for the building.	PO1
CO5	To independently complete the graduation project and transition into professional practice smoothly.	PO4, PSO4, PSO5

]	Program	me and	Course	Mappin	g			
CO	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	PS O 1	PS O 2	PS O3	PS O4	PS O5
CO1	3			3				3				
CO2	3			3					2	3		3
CO3		3	3	3						3	2	3
CO4				3	2					3		3
CO5						3	3				2	3
CO6												
CO7												
	1	=lightly	mapped		2	= moder	ately ma	pped		3=strong	ly mapped	1

B. Arch

Course Objectives

- 1. The subject Dissertation focuses on, research, in the area of Architecture and Allied subjects in order to make students understand about social and technological needs of the era.
- 2. They start understanding the subject by investigating relevant case studies, data collection and the existing literature which can be from book or web.
- 3. Then they are expected to present their research/ data orally and graphically.
- 4. This will help them to improve their analytical and presentation skills.

Course Outcomes

On completion of this course, the students will be able to

- CO1. Present data (conceptual, historical, analytical, and comparative or in any other area related to Architecture & habitat) at all stages during the entire semester.
- CO2. Identification of an appropriate and focused research topic reflecting social and technological needs of the day.
- CO3. Formulate synopsis including objectives, scope of work, methodology of work, case studies to be undertaken, site selection culminating in broad functional requirements.
- CO4. An investigation of the topic using an analysis of existing literature, case studies and other data sources.
- CO5. Develop understanding of the research topic
- CO6. Able to do find out conclusions from the research
- CO7. Ability to carry out independent viewpoint in interpretation and analysis.
- CO8. Present the submission for all stages in print and digital mode.

Catalog Description

This course helps the students to develop their critical thinking in order to make them prepared for final thesis project which they will attend in final year of their degree. The main objectives of the course are to formulate the synopsis. This includes deciding the objectives of the research, its scope, methodology, relevant case studies to be undertaken and finally culminating in, broad requirements of the research. At the end, the students are expected to draw the conclusion which can be same as they thought when started their research work or it can be different.

The submission format for all stages shall be print and digital. The data (conceptual, historical, analytical, and comparative or in any other area related to Architecture & habitat) are required to be presented at all stages during the entire semester.

APAR519A	DISSERTATION	L	T	S	C
Version 1.0		0	0	6	6
Pre-requisites/Exposure	Basic knowledge of research				
Co-requisites	Communication skills				

Course Content

The dissertation shall entail the following:

- Identification of an appropriate and focused research topic reflecting social and technological needs of the day.
- Formulate synopsis including objectives, scope of work, methodology of work, case studies to be undertaken, site selection culminating in broad functional requirements.

- An investigation of the topic using an analysis of existing literature, case studies and other data sources.
- To develop understanding of the research topic.
- Conclusions from the research

The dissertation shall be based on empirical study, field work, and textual analysis in the field of urban and rural planning. It should demonstrate candidate's capacity for analysis and judgment as also her/his ability to carry out independent viewpoint in interpretation. The dissertation shall present an orderly & critical exposition of existing knowledge of the subject or shall embody results of original interpretation and analysis & demonstrate the capacity of the candidate to do independent research work. While writing the dissertation, the candidate shall lay out clearly the work done by her/him independently and the sources from which she/he has obtained other information.

The dissertation shall be well structured document with clear objectives, well-argued and appropriate conclusions indicating an appropriate level of expertise. The submission format for all stages shall be print and digital. Seminars in related areas to the dissertation topic (conceptual, historical, analytical, and comparative or in any other area related to Architecture & habitat) are required to be presented at all stages during the entire semester.

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination Examination Scheme:

Components	Mid term Jury	End term Internal Jury	End term External Jury
Weightage (%)	20	30	50

Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Mapping between COs and POs	
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Present data (conceptual, historical, analytical, and comparative or in any other area related to Architecture & habitat) at all stages during the entire semester.	PO1
CO2	Identification of an appropriate and focused research topic reflecting social and technological needs of the day.	PO2
CO3	Formulate synopsis including objectives, scope of work, methodology of work, case studies to be undertaken, site selection culminating in broad functional requirements.	PO4
CO4	An investigation of the topic using an analysis of existing literature, case studies and other data sources.	PO5, PO6
CO5	Develop understanding of the research topic	PO1
CO6	Able to do find out conclusions from the research	PO2
CO7	Ability to carry out independent viewpoint in interpretation and analysis.	PO4
CO8	Present the submission for all stages in print and digital mode.	PO5, PO6

					Progran	ime and	Course	Mappin	g			
CO	P	P	P	P	P	P	P	PS	PS	PS	PS	PS
	O	O	O	0	O	O	O	O	0	03	04	05
	1	2	3	4	5	6	7	1	2		Torre	

CO1		3								1
CO2			3							1
CO3				3	3	3				2
CO4 CO5			3		3					3
CO5						3				3
CO6 CO7										
CO7										
	1=lightly	y mapped		2	= moder	ately mapped	3=s	trongly	napped	

SEMESTER VIII

APAR402A PROFESSIONAL TRAINING

Course Objectives

- 1. To offer students an opportunity to work in an architect's office and get acquainted with the demands of the profession.
- 2. Improve communication and analytical skills for handling the assigned task.
- 3. Able to create portfolio which include two sets of drawings showing construction system and materials, services and architectural presentation drawings.

Course Outcomes

On successful completion of this course, the students have capability to

- CO1. Practical Training which is to be undertaken with an architect registered with the Council of Architecture.
- CO2. The student will perform duties under an architect with minimum professional experience of ten years le to gauge the role of density, mixed land use, ground coverage and developmental control needs for the design of housing.
- CO3. The student trainees should take prior approval of the Architect's office they intend to join, from the concerned authority in the Department of Architecture.
- CO4. The duration will be of 22 weeks of inducting and discharging of duties by the student
- CO5. An exposure to the processes and challenges of designing within constraints of time is learnt.

Catalog Description

To offer students an opportunity to work in an architect's office and get acquainted with the demands of the profession

Course Content

The 22 week office training exposes students to the processes and challenges of designing in the real world. Students are expected to learn various aspects of the design process including design development, working drawings, presentation drawings, site visits, client and consultant meetings, and Project Management.

The Training Report shall consist of the various drawings, observations, technical graphic data, design, structure, construction methods, services, use of material etc. obtained during the process of training. The building study shall be a critical appraisal of one of the noted buildings designed and supervised by the firm in which the candidate has taken the training. The Building Material Study shall include pertinent data, characteristics and applications of a contemporary building material. The detailing study shall deal with the various aspects of an interesting detail done by the firm, where the candidate has done the training or any other project of interest

Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination Examination Scheme:

Components End Term Internal Jury End Term External Jury

Registrar
K.R. Mangalam University
Sohna Facility (Haryana)

Weightage (%) 50	50
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Relationship between the Course Outcomes (COs) and Program Outcomes (POs)

	Mapping between COs and POs	
	Course Outcomes (COs)	Mapped Program Outcomes
CO1	Practical Training which is to be undertaken with an architect registered with the Council of Architecture.	PO1
CO2	The student will perform duties under an architect with minimum professional experience of ten years le to gauge the role of density, mixed land use, ground coverage and developmental control needs for the design of housing.	PO2, PO3
CO3	The student trainees should take prior approval of the Architect's office they intend to join, from the concerned authority in the Department of Architecture.	PO4
CO4	The duration will be of 22 weeks of inducting and discharging of duties by the student	PO5, PO6
CO5	An exposure to the processes and challenges of designing within constraints of time is learnt.	PO5, P07

					Programme and Course Mapping								
CO	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	PS O	PS O 2	PS O3	PS O4	PS O5	
CO1		2	3	3	2	3	3	2	-			2	
CO ₂		2		3	3	3	2			2	2	2	
CO3		3	2	3	2	2	3	3	2	2		2	
CO ₄					3		3			-		3	
CO5							7 100					-	
CO6													
CO7													
1=lightly mapped				1	2= moderately mapped					3=strongly mapped			