



M.ARCH SYLLABUS GENERAL 2020-22

**Programme Code: SAP0101
Duration- 2 Years Full Time**

Program and Course Structure

- A. General Guideline***
- B. Program Structure Template***
- C. Course Templates***
- D. Assessment and Attainment of PO's and CO's.***

1. Standard Structure of the Program at University Level

1.1 Vision, Mission and Core Values of the University

Vision of the University

To serve the society by being a global University of higher learning in pursuit of academic excellence, innovation and nurturing entrepreneurship.

Mission of the University

- 1. Transformative educational experience**
- 2. Enrichment by educational initiatives that encourage global outlook**
- 3. Develop research, support disruptive innovations and accelerate entrepreneurship**
- 4. Seeking beyond boundaries**

Core Values

- Integrity**
- Leadership**
- Diversity**
- Community**

1.2 Vision and Mission of the School

Vision of the School

To be amongst the top institutes in India imparting quality education and professional skills to the students to emerge as architects of global caliber and thus the society in large.

Mission of the School

1. To create and sustain a stimulating and responsive academic inclusive environment.
2. To regularly enhance the teaching contents & techniques in keeping with current and future trends.
3. To provide a competitive and career oriented programme.
4. To encourage students to be socially responsive and responsible architects.

Core Values

- Critical Thinking and Observation
- Analytical Skills
- Creativity
- Integrity to uphold authentic building traditions and architecture principles

1.3 Programme Educational Objectives (PEO)

1.3.1 Writing Programme Educational Objectives (PEO)

PEO1 : To equip the students with the basic knowledge about the evolution of architecture as a distinct body of knowledge.

PEO2 : To sensitize the students about the specialized components within the field of architecture that are required to be integrated for a successful professional practice.

PEO3 : To familiarize the students with various levels of complexities of architectural design .

PEO4 : To ensure awareness amongst the students regarding architectural design as a functions of natural & cultural context.

PEO5 : To ensure familiarity amongst students about the current techniques and their validity related to good architecture.

PEO6 : To strengthen entrepreneurial and innovation culture among students.

1.3.3 Program Outcomes (PO's)

PO1: Architectural Knowledge

PO2: Critical thinking and Analysis

PO3: Problem solving and Design Development Skills

PO4: Communication and Display

PO5: Environment and sustainability

PO6: Professional Ethics

SHARDA UNIVERSITY
School Of Architecture and Planning
Program: Master Of Architecture (General)
Batch: 2020-22
Term: I

S. No	Subject Code	Subjects	L	T	P	Credits	Type of Course ¹ :
							1. CC 2. AECC 3. SEC 4. DSE
Jury Subjects							
1	MAJ 101	Design Studio – I	2	2	6	12	CC
2	MAJ 102	Research Methodology I	4	0	0	4	CC
3	MAJ 103	Theory & Criticism -I	2	0	0	2	CC
4	MAJ 104	Digital Fabrication-I	0	2	2	4	SEC
Total Credits						22	

¹ CC: Core Course, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific Courses

SHARDA UNIVERSITY
School Of Architecture and Planning
Program: Master Of Architecture (General)
Batch: 2020-22
Term: II

S.No.	Subject Code	Subjects	L	T	P	Credits	PRE-REQUISITE/CO-REQUISITE	Type of Course ² : 1. CC 2. AECC 3. SEC 4. DSE
Jury Subjects								
1	MAJ 111	Design Studio – II	2	2	6	12		CC
2	MAJ 112	Research Methodology II	4	0	0	4		CC
3	MAJ 113	Digital Fabrication II	0	2	2	4		CC
4	MAJ 114	Theory & Criticism –II	2	0	0	2		SEC
Total Credits						22		

¹ CC: Core Course, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific Courses

SHARDA UNIVERSITY
School Of Architecture and Planning
Program: Master Of Architecture (General)
Batch: 2020-22
Term: III

S.No.	Subject Code	Subjects	L	T	P	Credits	Type of Course ³ :
Jury Subjects							
1	MAJ 201	Design Studio - III	2	2	6	12	CC
2	MAJ 202	Architectural Dissertation	2	2	2	5	CC
3	MAJ 203	Design Technology and Sustainability	2	2	0	3	SEC
Theory Subjects							
4	MAR 204	Elective I: Contemporary Architecture	2	0	0	2	DSE
Total Credits						22	

¹ CC: Core Course, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific Courses

SHARDA UNIVERSITY
School Of Architecture and Planning
Program: Master Of Architecture (General)
Batch: 2020-22
Term: IV

S.No.	Subject Code	Subjects	L	T	P	Credits	Type of Course ⁴ :
Jury Subjects							
1	MAJ 211	Architectural Design Thesis	0	0	12	18	CC
2	MAJ 212	Architectural Dissertation	0	4	0	2	CC
Theory Subjects							
3	MAA 213	Elective I: Theory of Landscape Architecture	2	0	0	2	DSE
Total Credits						22	

¹ CC: Core Course, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific Courses

MAJ 101- Design Studio-1

School: SUSAP		Batch : 2020-22
Program: M.ARCH		Current Academic Year: 2020-21
Branch:		Semester:1
1	Course Code	MAJ 101
2	Course Title	Design Studio-1
3	Credits	12
4	Contact Hours (L-P-S)	2-2-6
	Course Status	Compulsory
5	Course Objective	<ul style="list-style-type: none"> • Exploring and designing for city level • Understanding the language of city spaces, plazas, etc in architectural design <p>Learn about the different elements of urban design</p>
6	Course Outcomes	<p>CO1: students should develop skills of drawing and representation</p> <p>CO2: to assimilate learning of graphics, construction, structures and computers to apply to basic design.</p> <p>CO3: Explore creative processes and idea generation and demonstrate critical evaluation of these processes in their projects.</p> <p>CO4: Appraise how design can impact, interact with, and improve environments.</p> <p>CO5: Understand spaces with three-dimensional visualization through the use of block models and appropriate softwares.</p>
7	Course Description	Architectural Design Project of a large magnitude in one of or similar categories of building typology emphasizing on need of Advance construction techniques and using modular co-ordination, pre-fabricated elements and technology.
8	Outline syllabus	
	Unit 1	Design Problem
	A	Introduction to Project
	B	Form and material based investigation
	C	Understanding spatial aspects based on activity, space, form and human scale
	Unit 2	Literature & Case Study
	A	Pre design study-Case study
	B	Pre design study -Literature Study, Site Analysis.

	C	Functional standards.		
	Unit 3	Concept Development		
	A	Concept formulation and idea investigation		
	B	Preparation of design requirements, area requirements based on standards and their interrelation and circulation patterns.		
	C	Concept Formulation, Bubble Diagram and activity zoning.		
	Unit 4	Design Development		
	A	Design development- site development		
	B	Design development- floor Plans		
	C	Design development- sections and elevations		
	Unit 5	Design Presentation		
	A	Design sheets presentation		
	B	Model making on appropriate scale		
	C	Final portfolio submission		
	Mode of examination	Theory		
	Weightage Distribution	CA	MTE	ETE
		60%	0%	40%
	Text book/s*			
	Other References			

MAJ 102: RESEARCH METHODOLOGY -I

School: SAP		Batch : 2020-22
Program: M.Arch		Current Academic Year: 2020-21
Branch: General		Semester: I
1	Course Code	MAJ 102
2	Course Title	Research Methodology I
3	Credits	4
4	Contact Hours (L-P-S)	4-0-0
	Course Status	Compulsory
5	Course Objective	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> • define the necessity of appropriate research • understand with the methods of conducting research • know the technical writing
6	Course Outcomes	CO1: to recognize the subjective and objective aspects of research CO2: to identify objectives and working out methodologies CO3: to relate to and analyse the structure of a research paper CO4: to compose the research in a clear and concise format easily accessible to a range of reader
7	Course Description	The aim of this course is to prepare the students to do research in the field of architecture. They are familiarized with academic writing standards and ethical aspects of academic research.
8	Outline syllabus	
	Unit 1	Foundations of Research
	1a	Meaning, Motivation, Utility of research in architecture
	1b	Objective and characteristics of research

1c	Research and scientific method		
Unit 2	Types of Research		
2a	Descriptive vs. Analytical Research		
2b	Applied vs. Fundamental Research		
2c	Review of projects of design complexity, involving themes, subthemes and architectural expression		
Unit 3	Tools and Techniques		
3a	Used for collecting data (observational studies, surveys, interviews) and analysing data.		
3b	Multivariate analysis and software applications) for different research methods		
3c	Software for paper formatting, Software for detection of Plagiarism		
Unit 4	Literature Review		
4a	Need and process of literature review		
4b	Style of referencing and bibliography		
4c	Literature review writing		
Unit 5	Citation methods and rules		
5a	Foot note, text note, end note		
5b	Bibliography		
5c	Citation rules: MLA, APA, Chicago, Blue Book, OSCOLA		
Mode of examination	Jury		
Weightage Distribution	CA	MTE	ETE
	50%	-	50%

Text book/s*	<ul style="list-style-type: none">• Ross, R., “Research: An Introduction”, Barnes and Noble Books.• Khanzode, V. V., “Research Methodology – Techniques and Trends”, APH Publishing.• Kothari, C. R., “Research Methodology – Methods and Techniques”, New Age International.• Knight, A. and Ruddock, L., “Advanced Research Methods in Built Environment”, John Wiley & Sons.
Other References	

MAJ 103 – THEORY OF CRITICISM -I

School: SAP		Batch : 2020-22
Program:M.Arch		Current Academic Year: 2020-21
Branch:Architecture		Semester: 1
1	Course Code	MAJ 103
2	Course Title	Theory and Criticism I
3	Credits	2
4	Contact Hours (L-P-S)	2-0-0
	Course Status	Compulsory
5	Course Objective	To deliver knowledge and information about significant issues in current disciplinary thinking, as well as with the philosophical, political, and material contexts for works of art and architecture through different centuries.
6	Course Outcomes	CO1: To identify various architectural theorist and their theories during 17 th to 19 th century CO2: To evaluate various perspective of architectural theories CO3: To distinguish the different styles and theories of art CO4: To criticise and critique works and theories of various architectural theorists.
7	Course Description	This course aims to familiarize the students with various architectural theorists and their theories during 17 th to 19 th century. The course explores the description of literary theories, from wide domain of art, architecture, archaeology and criticism. It also includes various styles through time.
8	Outline syllabus	
	Unit 1	Renaissance & Beyond: Works of Erwin Panofsky
	A	Perspective as symbolic Form
	B	Meaning in the Visual Art
	C	Renaissance and Gothic Art
	Unit 2	The Critique of Typology/ Language
	A	Jean-Nicolas-Louis Durand
	B	Gintio Carlo Argan
	C	Quatremere de Quinchy
	Unit 3	Late 19th Century Problem of Iron and Glass

	A	In what style should we build	
	B	Sigfried Giedion	
	C	Mechanization takes command	
	Unit 4	Space as Aesthetic Category	
	A	August Schmarsow	
	B	Alois Riegl	
	C	Heinrich Wofflin	
	Unit 5	Production / Power	
	A	Michel Foucault : Heterotopia	
	B	Henri Lefebvre: Production of Space	
	C	Manuel Castells: Urban Network	
Mode of examination	Jury		
Weightage Distribution	CA	MTE	ETE
	50%	-	50%
Text book/s*			

MAJ 104- Digital Fabrication-1

School: SUSAP		Batch : 2020-22
Program: M.ARCH		Current Academic Year: 2020-21
Branch:		Semester:1
1	Course Code	MAJ 104
2	Course Title	Digital Fabrication-1
3	Credits	4
4	Contact Hours (L-P-S)	0-2-2
Course Status		Compulsory
5	Course Objective	<p>The focus will be on invention rather than application of predefined ideas. With this approach this course is assumed to become a centre of innovative ideas as a solution for the conventional and future problems. This will bring the academic world of architecture in the forefront of design explorations and theories to have great impact on the professional world as an expected outcome.</p> <p>Students will be introduced to the machines and the workability of it. They are expected to the practical work more than the modeling and theoretical studies. The models will be assessed based on the detailing of the form on the basis of innovative joinery details and fixings and material combinations.</p>
6	Course Outcomes	<p>CO1. Understand the new modeling technique called as Associative modeling will be taught as one of the approach for form development. As a result the software plays a different role than replicating ideas in to 3D form. It becomes the base to develop digital concepts.</p> <p>CO2. Advance command where students will be given different small exercises which will be based on the primary stage form development in the 3D Modeling software. This work will be assessed on the basis of digital concept development and not on the rendering</p>

		<p>criteria's of the software. Formation of new tools, application and inter compatibility of the software will be analyzed.</p> <p>CO3: Outputting and settings, Render output in 3D views.</p> <p>CO4: Advance command where students will be given different small exercises</p>		
7	Course Description	The interdependencies of software and machines will be explained in this module. The technical details of how the hardware works with the software for future modification suggested on analytical thinking will be possible.		
8	Outline syllabus			
	Unit 1	Introduction to Digital Architecture 3D Modeling		
	A	Basic 3D Interface with working tools, Mesh modeling, 2D Splines, navigating 3dsmax space, and working with objects.		
	B	Coordinate Systems, Arrays, Modifier stack – bend, Compound objects - Boolean, loft, etc., Basic Cameras.		
	C	Assignment		
	Unit 2	Develop and create 3D Visualization and Animation		
	A	Advance 3D Modeling and tools		
	B	Material mapping and techniques with Basic lights		
	C	Assignment		
	Unit 3	Advanced Materials, Radiosity, Light Tracer, and Photoshop		
	A	External References		
	B	Material properties and associated map parameters		
	C	Light tracing		
	Unit 4	Efficiency in Rendering and Presentation Preparation		
	A	Presentation Issues		
	B	InDesign, Photoshop		
	C	Advance layouts		
	Unit 5	Presentation Preparation Continued with Render output		
	A	Presentation Issues		
	B	Multi-view Orthographic Projection with Projection Techniques		
	C	Render Output and techniques		
	Mode of examination	Jury		
	Weightage Distribution	CA	MTE	ETE
		50%	0%	50%
	Text book/s*			
	Other References			

MAJ 111 - Design Studio-II

School: SUSAP		Batch : 2020-22
Program: M.ARCH		Current Academic Year: 2020-21
Branch:		Semester:2
1	Course Code	MAJ 111
2	Course Title	Design Studio-II
3	Credits	12
4	Contact Hours (L-P-S)	2-2-6
Course Status		Compulsory
5	Course Objective	<ul style="list-style-type: none"> • Exploring and designing for city level • Understanding the language of city spaces, plazas, etc in architectural design <p>Learn about the different elements of urban design</p>
6	Course Outcomes	<p>CO1: students should develop skills of drawing and representation</p> <p>CO2: to assimilate learning of graphics, construction, structures and computers to apply to basic design.</p> <p>CO3: Explore creative processes and idea generation and demonstrate critical evaluation of these processes in their projects.</p> <p>CO4: Appraise how design can impact, interact with, and improve environments.</p>
7	Course Description	Architectural Design Project of a large magnitude in one of or similar categories of building typology emphasizing on need of Advance construction techniques and Advance Building services like: Projects for High end hospitality industry, Super specialty hospitals, Airports & mass transportation terminals, Research laboratories, High end IT parks & establishments, High rise buildings, State Secretariat and assembly, etc.
8	Outline syllabus	
	Unit 1	Design Problem
	A	Introduction to Project
	B	Form and material based investigation
	C	Understanding spatial aspects based on activity, space, form and human scale
	Unit 2	Literature & Case Study
	A	Pre design study-Case study
	B	Pre design study -Literature Study, Site Analysis.
	C	Functional standards.

Unit 3	Concept Development		
A	Concept formulation and idea investigation		
B	Preparation of design requirements, area requirements based on standards and their interrelation and circulation patterns.		
C	Concept Formulation, Bubble Diagram and activity zoning.		
Unit 4	Design Development		
A	Design development- site development		
B	Design development- floor Plans		
C	Design development- sections and elevations		
Unit 5	Design Presentation		
A	Design sheets presentation		
B	Model making on appropriate scale		
C	Final portfolio submission		
Mode of examination	Jury		
Weightage Distribution	CA	MTE	ETE
	50%	0%	50%
Text book/s*			
Other References			

MAJ 112 : Research Methodology- II

School: SAP		Batch : 2020-22
Program: M.Arch		Current Academic Year: 2020-21
Branch: General		Semester: 2
1	Course Code	MAJ 112
2	Course Title	Research Methodology- II
3	Credits	4
4	Contact Hours (L-P-S)	4-0-0
	Course Status	Compulsory
5	Course Objective	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> • define the necessity of appropriate research • understand with the methods of conducting research • know the technical writing
6	Course Outcomes	CO1: to recognize the subjective and objective aspects of research CO2: to identify objectives and working out methodologies CO3: to relate to and analyse the structure of a research paper CO4: to compose the research in a clear and concise format easily accessible to a range of reader
7	Course Description	The course aims to establish the understanding of research through critical exploration of research language, methods and tools and techniques.
8	Outline syllabus	
	Unit 1	Introduction
	1a	Research in architecture- its importance and scope; Areas of research and types of research in architecture
	1b	Research process- identification of problem, formulation of research questions and hypothesis, collection of evidences and data analysis

1c	Methods of inquiry		
Unit 2	Research process		
2a	Basic Overview		
2b	Formulating the research problem		
2c	Defining the research problem		
Unit 3	Research Methods		
3a	Research types: Quantitative vs. Qualitative Research		
3b	Research types: Conceptual vs. Empirical Research		
3c	Research Techniques and Tools: Questionnaire, Interview, Observation, Schedule, Check-list, Library records, Reports.		
Unit 4	Formulation of Hypothesis		
4a	Sources of hypothesis		
4b	Characteristics and role of hypothesis		
4c	Tests of Hypothesis		
Unit 5	Technical Report Writing		
5a	Research report writing		
5b	Style Manuals		
5c	IPR and Plagiarism		
Mode of examination	Jury		
Weightage Distribution	CA	MTE	ETE
	50%	-	50%
Text book/s*	<ul style="list-style-type: none"> Ross, R., "Research: An Introduction", Barnes and Noble Books. 		

	<ul style="list-style-type: none">• Khanzode, V. V., “Research Methodology – Techniques and Trends”, APH Publishing.• Kothari, C. R., “Research Methodology – Methods and Techniques”, New Age International.• Knight, A. and Ruddock, L., “Advanced Research Methods in Built Environment”, John Wiley & Sons.
Other References	

MAJ 113- Digital Fabrication-II

School: SUSAP		Batch : 2020-22
Program: M.ARCH		Current Academic Year: 2020-21
Branch:		Semester:2
1	Course Code	MAJ 113
2	Course Title	Digital Fabrication-II
3	Credits	4
4	Contact Hours (L-P-S)	0-2-2
	Course Status	Compulsory
5	Course Objective	<p>Digital Fabrication Design is the new revolution in the history of architecture. The focus will be on invention rather than application of predefined ideas. With this approach this course is assumed to become a centre of innovative ideas as a solution for the conventional and future problems. This will bring the academic world of architecture in the forefront of design explorations and theories to have great impact on the professional world as an expected outcome.</p> <p>M. Arch in Digital Fabrication Design takes a first step with an agenda of “Parametric Explorations”. Based on this agenda, the studios, lectures and the supportive content will be channelized accordingly. The agenda will be changed after every 4 years to update the knowledge of Digital Architecture and creating a responsive architecture for the particular time line.</p>
6	Course Outcomes	<p>CO1. Understand This module is designed to set the minds of students to initialize the first stage exploration. It will set a psychological base to understand and develop individual theories on the lines of Digital Architecture.</p> <p>CO2. Advance Learning with the interdependencies of software and machines will be explained in this module. The technical details of how the hardware works with the software for future modification suggested on analytical thinking will be possible.</p> <p>CO3: The new modeling technique called as Associative modeling will be taught as one of the approach for form development. As a result the software plays a different role than replicating ideas in to 3D form. It becomes the base to develop digital concepts</p>
7	Course Description	Students will be given different small exercises which will be based on the primary stage form development in the parametric software. This work will be assessed on the basis of digital concept development and not on

		the rendering criteria's of the software. Formation of new tools, application and intercompatibility of the software will be analyzed.		
8	Outline syllabus			
	Unit 1	Introduction to Digital Architecture 3D Modeling		
	A	Introduction to Rhino 3D Interface with working tools, Mesh modeling, 2D Splines, navigating 3dsmax space, and working with objects.		
	B	Coordinate Systems, Arrays, Modifier stack – bend, Compound objects - Boolean, loft, etc., Basic Cameras.		
	C	Assignment		
	Unit 2	Develop and create 3D Visualization and Animation		
	A	Advance 3D Modeling and tools		
	B	Material mapping and techniques with Basic lights		
	C	Assignment		
	Unit 3	Advanced Materials, Radiosity, Light Tracer, and Photoshop		
	A	External References		
	B	Material properties and associated map parameters		
	C	Light tracing		
	Unit 4	Efficiency in Rendering and Presentation Preparation		
	A	Parametric Design using Grass hopper		
	B	Parametric Design using Grass hopper		
	C	Parametric Design using Grass hopper		
	Unit 5	Presentation Preparation Continued with Render output		
	A	Presentation Issues		
	B	Multi-view Orthographic Projection with Projection Techniques		
	C	Render Output and techniques		
	Mode of examination	Jury		
	Weightage Distribution	CA 50%	MTE 0%	ETE 50%
	Text book/s*			
	Other References			

MAJ 114– Theory And Criticism-II

School: SAP		Batch : 2020-22
Program:M.Arch		Current Academic Year: 2020-21
Branch:Architecture		Semester: 2
1	Course Code	MAJ 114
2	Course Title	Theory and Criticism -II
3	Credits	2
4	Contact Hours (L-P-S)	2-0-0
	Course Status	Compulsory
5	Course Objective	To deliver knowledge and information about significant issues in current disciplinary thinking, as well as with the philosophical, political, and material contexts for works of art and architecture through different centuries.
6	Course Outcomes	CO1:To identify various architectural theorist and their theories during 17 th to 19 th century CO2: To evaluate various perspective of architectural theories CO3: To distinguish the different styles and theories of art CO4: To criticise and critique works and theories of various architectural theorists.
7	Course Description	This course aims to familiarize the students with various architectural theorists and their theories during 17 th to 19 th century. The course explores the description of literary theories, from wide domain of art, architecture, archaeology and criticism. It also includes various styles through time.
8	Outline syllabus	
	Unit 1	Critiques of Modernity
	A	Critical Regionalism : K Frampton
	B	Post Functionalism/Peter Eisenman
	C	Historicism: Alan Colquhoun and Leon Krier
	Unit 2	Critique of the city
	A	Collage City/Colin Rowe
	B	Robert Venturi/ Kitsch & Las Vegas
	C	Rem Koolhaas/Delirious New York
	Unit 3	Place
	A	Christian Norberg Schulz/ Gerius Loci
	B	Martin Heidegger and place
	C	Gaston <i>Bachelard & Poetics of Space</i>
	Unit 4	Construction or Deconstructivism

	A	Jaques Derrida		
	B	Mark Wigley		
	C	Jurgen Habermas		
	Unit 5	Modernism after Post Modernism		
	A	Neo Modernism/ High Tech Architecture		
	B	Peter Zumthor		
	C	Eye of the Skin		
	Mode of examination	Jury		
	Weightage Distribution	CA	MTE	ETE
		50%	0%	50%
	Text book/s*	<hr/>		
	Other References	<hr/>		

MAJ 202 – Architectural Dissertation I

School: SUSAP		Batch : 2020-22
Program: M.Arch		Current Academic Year: 2020-21
Branch:		Semester:III
1	Course Code	MAJ 202
2	Course Title	Dissertation
3	Credits	6
4	Contact Hours (L-P-S)	2-2-6
Course Status		Compulsory
5	Course Objective	<ol style="list-style-type: none"> 1. To enable students to establish a strong theoretical foundation, clarity of thought and also to orient the students to structured research in a focused manner. 2. The process of study shall enable students to conduct indepth analysis and objective research on a topic of their interest . 3. Students may be encouraged to select the topic which may eventually culminate in the Architectural Design Thesis in the subsequent semester.
6	Course Outcomes	<ul style="list-style-type: none"> • CO1: Define and Recognise the importance of planning and preparation of data required to undertake a research project. • CO2 : Develop a thorough understanding of the chosen subject area. Identify the critical data and material required to carry out the project. • CO3 : Demonstrate the ability to collate and critically assess/interpret data. To be performed either individually or as a teamwork • CO4 : Develop an ability to effectively examine and communicate knowledge in a scientific manner. • CO5 : Formulate the study and the inputs based on research findings. • CO6 : Compare the findings, assess the research as per the comments and discussions and finally submitting a complete research report/design.

7	Course Description	<p>Students may choose a topic related to architecture and allied subjects. The topics must be vetted by the faculty. Emphasis must be on critical understanding, logical reasoning and structured writing.</p> <p>By the end of the semester , students are expected to submit a written report of approximately 8000 words wherein standard referencing conventions and technical writing norms must be adhered to. Students are expected to present the progress of the study at various stages of the semester. Final assessment of the student work may be based on written report as well as oral communication. However, greater weight age may be given for writing skills and research content of the study .</p>
8	Outline syllabus	
	Unit 1	Introduction to Dissertation
		a) Statement of the problem.
		b) Purpose of the study
		c) Significance of the study.
	Unit 2	Literature Review
		a) Identify and group together common areas.
		b) Compare, contrast and evaluate issues.
		c) Demonstrate why the topic and research is relevant to your field of study.
	Unit 3	Methodology
		a) Sample
		b) Data collection
		c) Data analysis
	Unit 4	Implications and Limitations of study
		a) Identifying the limitations and how important each limitation is.
		b) Explaining the nature of limitations.
		c) Suggesting how such limitation could be overcome
	Unit 5	Implications and Recommendations

		a) Specific measures or directions that can be taken		
		b) Critical suggestion regarding the best course of action in certain situation		
		c) <i>Guide to resolve issues and result in a beneficial outcome</i>		
	Mode of examination	Jury: Discussion based continuous evaluation, Research Report Presentation		
	Weightage Distribution	CA	MTE	ETE
		50%	-	50%
	Text book/s*			
	Other References			

MAR 103: CONTEMPORARY ARCHITECTURE TRENDS & THEORIES

School: SAP		Batch :2020-22
Program: M.Arch		Current Academic Year: 2020-21
Branch: General		Semester: III
1	Course Code	MAR 103
2	Course Title	CONTEMPORARY ARCHITECTURE TRENDS & THEORIES
3	Credits	2
4	Contact Hours (L-P-S)	2-0-0
	Course Status	Elective I
5	Course Objective	After successful completion of this course, student should be able to: <ul style="list-style-type: none"> • Develop an awareness of the reasons for contemporary architectural theories. • Acquire an in depth knowledge of contemporary architectural trends , study the works of architects practicing in definable style of contemporary architecture
6	Course Outcomes	CO1: Identify Architectural trends within specified context CO2 : Illustrate the influencing factors in contemporary architecture CO3 : Explain the digital technologies and applications CO4 : Analyze the application and impact related to sustainability in environment CO5 : Hypothesize the examples of modern structures in the 20 th century.
7	Course Description	
8	Outline syllabus	

Unit 1	Evolution of Architectural trends
1a	Formal and the informal built-form
1b	Manifestations and significant theories
1c	Styles as classified later in history
Unit 2	Influencing factors in contemporary architecture
2a	Modern structures of 20 th century , analysis and influence
2b	Advances in Construction Technology
2c	New materials of construction
Unit 3	Influencing factors in the shaping of contemporary architecture
3a	Advances in Digital Technology
3b	Use of digital technology in visualization
3c	Simulation and application techniques
Unit 4	Analysis of contemporary design
4a	Awareness and application of sustainability
4b	Impact on environment.
4c	Architectural expression
Unit 5	Analysis of contemporary design
5a	Analysis of contemporary design – study of examples of modern structures of 20 th century and analysis of the influences with respect to - awareness and application of sustainability and impact on environment.

5b	Analysis of contemporary design – study of examples of modern structures in this period and analyse the influences with respect to –Architectural expression influenced by vernacular and regional Architecture.		
5c	Analysis of contemporary design –study of examples of modern structures and analyze the influences with respect to –Architectural expression influenced by world as a global village		
Mode of examination	Theory		
Weightage Distribution	CA	MTE	ETE
	30%	20%	50%
Text book/s*	The language of post modern Architecture, by Charles		
Other References			

MAR 208 – Architectural Design Thesis

School: SUSAP		Batch : 2020-22
Program: M.Arch		Current Academic Year: 2020-21
Branch:		Semester: IV
1	Course Code	MAR 208
2	Course Title	
3	Credits	18
4	Contact Hours (L-P-S)	0-0-12
	Course Status	Compulsory
5	Course Objective	<ol style="list-style-type: none"> 1. Identify a contextually challenging architectural design problem. 2. Evolve strategy to evolve a good solution. 3. Evolve present and defend the proposed design
6	Course Outcomes	CO1: Identify a socio economic environmental context in need of a good architectural design for a key project. CO2 : Construct a database design brief noted in the context and knowledge base. CO3 : Analyse and prioritize the process to arrive at design solution. CO4 : Develop and present the proposed design.
7	Course Description	The M. Arch program culminates in a thesis project. Under the guidance of a thesis Mentor. Students are required formulate a cohesive thesis argument and project using supportive research and case studies and should demonstrate his ability and skills to do a critical enquiry through design. The nature of the work must be an original research or design project that involves additional learning of a substantive nature. The final proposal to be presented in appropriately rendered drawings, modules, 3D views and Report. The work must be documented with a written thesis completed to Institute specifications within the final term of the senior year.
8	Outline syllabus	
	Unit 1	Identification of the project , preparation of Synopsis
		d) Introduction/Background
		e) Aims & Objective, Rationale of the topic
		f) Site Identification and justification
	Unit 2	Literature Study , Case study
		a) Identify and group together common areas.

		b) Compare, contrast and evaluate issues.	
		c) Demonstrate why the topic and research is relevant to your field of study.	
Unit 3	Program formulation		
	a) Detailed Design Program		
	b) Design Criteria / Approach specific to the topic chosen		
	c) Conceptual Design		
Unit 4	Design interventions		
	a) Preliminary Design Drawings		
	b) Service Drawings		
	c) Landscape / Site Details		
Unit 5	Design Proposal and Report		
	a) Detailed design proposal		
	b) Supporting literature study		
	c) All Drawings & Report		
Mode of examination	Jury		
Weightage Distribution	CA	MTE	ETE
	50%	-	50%
Text book/s*			
Other References			

MAR – Dissertation II

School: SUSAP		Batch : 2020-22
Program: M.Arch		Current Academic Year: 22020-21
Branch:		Semester:1V
1	Course Code	
2	Course Title	Dissertation II
3	Credits	2
4	Contact Hours (L-T-P)	0-4-0
	Course Status	Compulsory
5	Course Objective	<p>4. To enable students to establish a strong theoretical foundation, clarity of thought and also to orient the students to structured research in a focused manner.</p> <p>5. The process of study shall enable students to conduct in-depth analysis and objective research on a topic of their interest .</p> <p>6. Students may be encouraged to select the topic which may eventually culminate in the Architectural Design Thesis in the subsequent semester.</p>
6	Course Outcomes	<ul style="list-style-type: none"> • CO1: Define and Recognise the importance of planning and preparation of data required to undertake a research project. • CO2 : Develop a thorough understanding of the chosen subject area. Identify the critical data and material required to carry out the project. • CO3 : Demonstrate the ability to collate and critically assess/interpret data. To be performed either individually or as a teamwork • CO4 : Develop an ability to effectively examine and communicate knowledge in a scientific manner. • CO5 : Formulate the study and the inputs based on research findings. • CO6 : Compare the findings, assess the research as per the comments and discussions and finally submitting a complete research report/design.
7	Course Description	Students may choose a topic related to architecture and allied subjects. The topics must be vetted by the faculty.

		<p>Emphasis must be on critical understanding, logical reasoning and structured writing.</p> <p>By the end of the semester , students are expected to submit a written report of approximately 8000 words wherein standard referencing conventions and technical writing norms must be adhered to. Students are expected to present the progress of the study at various stages of the semester. Final assessment of the student work may be based on written report as well as oral communication. However, greater weight age may be given for writing skills and research content of the study.</p>
8	Outline syllabus	
	Unit 1	Introduction to Dissertation
		d) Statement of the problem.
		e) Purpose of the study
		f) Significance of the study.
	Unit 2	Literature Review
		g) Identify and group together common areas.
		h) Compare, contrast and evaluate issues.
		i) Demonstrate why the topic and research is relevant to your field of study.
	Unit 3	Methodology
		d) Sample
		e) Data collection
		f) Data analysis
	Unit 4	Implications and Limitations of study
		d) Identifying the limitations and how important each limitation is.
		e) Explaining the nature of limitations.
		f) Suggesting how such limitation could be overcome
	Unit 5	Implications and Recommendations
		d) Specific measures or directions that can be taken
		e) Critical suggestion regarding the best course of action in

		certain situation		
		f) <i>Guide to resolve issues and result in a beneficial outcome</i>		
Mode of examination	Jury: Discussion based continuous evaluation, Research Report Presentation			
Weightage Distribution	CA	MTE	ETE	
	50%	-	50%	
Text book/s*				
Other References				

MAR * : THEORY OF LANDSCAPE ARCHITECTURE**

School: SAP		Batch :
Program: M.Arch		Current Academic Year: 2019-2020
Branch: General		Semester: IV
1	Course Code	MAR 120
2	Course Title	THEORY OF LANDSCAPE ARCHITECTURE
3	Credits	2
4	Contact Hours (L-P-S)	2-0-0
	Course Status	Elective II
5	Course Objective	The objective of this course is to familiarize the students with basic concepts of Landscape Architecture To sensitize the students with the status of landscape resources available in the world
6	Course Outcomes	<p>CO1:The students shall be able to describe the role of landscape resources and biodiversity in landscape</p> <p>CO2:the students shall be able to explain how culture and other key elements of historical context have had an impact on designed and natural settings</p> <p>CO3: The students shall be able to analyze and discuss the role of natural systems in shaping the regional landscape, the role of landscape ecology in understanding these systems, and the role of impact assessment and landscape management in assuring sustainable landscape conservation and development.</p> <p>CO4: The students shall be able to Demonstrate an understanding of the relationships between natural processes and human interventions in the landscape, the range of scales from regional planning to</p>

		garden design
7	Course Description	
8	Outline syllabus	
	Unit 1	MODULE 1
	1a	Overview of landscape resources at the national level. Significance of biodiversity
	1b	Settlements and Landscape: Siting and evolution of cities in relation to regional landscape resources. The role of landform
	1c	Threats to urban landscape resources; urban environmental issues such as solid waste management
	Unit 2	MODULE 2
	2a	The urban forest: its ecological social and environmental dimensions. Ways of studying urban vegetation. Its role in the urban landscape.
	2b	Landscape heritage: Open space systems, cultural and sacred landscapes, their typology and role in the development of cities.
	2c	Landscape resources specific to distinctive city types: for example: religious centres, historic cities, coastal or port cities, hill station etc.
	Unit 3	MODULE 3
	3a	City development Plans, Zonal Plans and structure plan. Development controls and their role in the conservation and creation of urban landscape.
	3b	National Environment Policy. Developmental and Environmental issues associated with: mountain and hill areas; deserts and wastelands; river and aquatic systems, coastal and estuarine regions, etc.
	3c	The rural landscape: agriculture and forestry as competing uses, the impact of industry and power generation.

Unit 4	MODULE 4		
4a	Forest types of India; introduction to Forest Policy and management of forest resources.		
4b	Conservation Forestry, Agro-Forestry and Social Forestry.		
4c	Agricultural practices and the formation of traditional rural landscape. Illustrative examples from different climatic and geographic regions.		
Unit 5	MODULE 5		
5a	Wetlands: definition, wetland values and conservations. Wastelands management.		
5b	Land reclamation and rehabilitation. Watersheds and the importance of watershed management.		
5c	Resource conservation, land capability classification; mechanical, vegetative and agronomic measures in soil and water conservation.		
Mode of examination	Theory		
Weightage Distribution	CA	MTE	ETE
	30%	20%	50%

<p>Text book/s*</p>	<ol style="list-style-type: none"> 1. Schaal ,Hans Dieter (1993) , New Landscape Architecture, Ernst and Sohn 2. Dee, C. (2001) Form and Fabric: A Visual Introduction, London: Spon Press- Taylor and Francis Group. 3. etal., A.a. (n.d) Building and Landscape.? 4. G.B.Tobey (1973) A history of American Landscape architecture, American elsevier Publishing Co.,NY. 5. Hill, P. (2004) Contemporary history of garden design , Birkhauser publishers. 6. Jellico, G.a.S. (1995) The Landscape of Man, Thames & Hudson Publication. 7. Lehrman, J. (1980) Earthly Paradise- Garden and courtyard in Islam, Thames and Hudson. 8. Maria, C.B.J. (n.d) Mastaedi Arain: Landscape Design Today, Spain . 9. Newton, N.T. (n.d) Design on the Land: The Development of Landscape Architecture . 10. Repishti, P.a.F. (2003) Dictionary of today’s landscape designers, SkiraEditores P.A.
<p>Other References</p>	