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MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES (POs) and PROGRAM SPECIFIC OUTCOMES (PSOs)

S No	Course Code	Course Title	CO NO	Description of the Course Outcome	Program Outcomes										PSO	
					1	2	3	4	5	6	7	8	9	10	1	2
1	22AR1101	Theory of Architecture	CO1	Understand architecture and basics on space and form development.		2		2								
			CO2	Understand components of building circulation and its relation to architecture.	2	2										
			CO3	Understand Architectural aesthetics in designing a building & also understand the key role of principles applied in architecture.		2		2								
			CO4	Apply functioning of design process and its application in architectural buildings through case studies.				2						2	2	
2	24AR1102	History of Architecture - I (Ancient Civilization)	CO1	Understand Primitive Architecture and Ancient settlements in pre-Historic times and get knowledge on the Ancient River valley civilizations in the world.			2						2			2
			CO2	Understand the Architecture and Planning of Ancient River Valley Civilizations			2	2								2
			CO3	Understand the Culture and its influence on Architecture in Ancient Greece and Ancient Rome and its impact on Western Architecture			2						2			2
			CO4	Understand the Built forms in Ancient Greece and Ancient Roman Empire and its monumental Urban Architecture			2		2				2			
3	24AR1152	Architectural Drawing - I (Basic Geometry)	CO1	Understand the fundamentals of drawing and drafting, including construction and development of surfaces for various basic 3D shapes, as well as the representation of various building components and related elements.	2		2	2							2	

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					1	2	3	4	5	6	7	8	9	10	1	2
			CO2	Comprehend the representation of a building in plan, elevation, and sections, and be able to prepare simple measure drawings.	2				2							
4	24AR1153	Architectural Design Studio – 1 (Basic Design)	CO1	An understanding of the qualities of different elements as well as their composite fusions. An ability to engage and combine the elements of design in spontaneous as well as intentional ways to create desired qualities and effects	2		2									2
			CO2	Development of required skills – observation / analysis / abstractions / interpretation / representations / expressions through models and drawings. Understanding of 3D Composition by involving students in a number of exercises which will help generation of a form from a two dimensional / abstract idea.	2				2							2
5	24AR1254	Model Making Workshop	CO1	Understand cutting and sticking for making a model, Components of detailed model, Representing hills, Plateau, water bodies, furniture's, Cars							2	2				
			CO2	Understand different materials and apply the acquired knowledge and create a model Independently by choosing appropriate material and techniques.		2			2							3
6	23UC1101	Language Skills	CO1	Understanding the language Mechanics in Basic Grammar & Interactive Listening & Speaking								2	2	2		
			CO2	Understand the Pronunciation of Language through Role-plays												
			CO3	Apply different reading techniques and answer the Comprehension Passages												
			CO4	Apply various techniques to make Paragraph development and Essay Writing and Letter Writing												

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					1	2	3	4	5	6	7	8	9	10	1	2
			CO5	Apply Life Skills to enhance the Employability									3	3	3	
7	23UC0009	Ecology & Environment	CO1	Understand the importance of Environmental education and conservation of natural resources									2			
			CO2	Understand the importance of ecosystems and biodiversity							2					
			CO3	Identify critically about individual roles in prevention of pollution. An Environmental Studies will be enabled to do independent research on human interactions with the environment							2					
			CO4	Understanding the environmental science knowledge on solid waste management, disaster management and EIA process Recognize the knowledge on environmental legislation, disaster management and EIA process.						2						
8	24UC1203	Design Thinking and Innovation	CO1	Understand the importance of Design thinking mindset for identifying contextualized problems		2					2					
			CO2	Analyze the problem statement by empathizing with user			2				2					
			CO3	Develop ideation and test the prototypes made					2	2	2					
			CO4	Explore the fundamentals of entrepreneurship skills for transforming the challenge into an opportunity						2		2				
9	24AR1204	Design of Structures - I (Plane trusses, shear force and bending	CO1	Make students Understand about the architecture and structural engineering interface. Understanding the concept of forces and structural systems.	2											
			CO2	Understanding the concept of forces and structural systems. Analyzing the plane trusses			2									

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		moment)	CO3	Understanding of shear force and bending moments in column. Determination of deflection of beams			2 2									
			CO4	Make students Understand about the architecture and structural engineering interface. Understanding the concept of forces and structural systems.	2											
10	24AR1205	History of Architecture - II (Hindu Architecture)	CO1	Understand Vedic culture and study the origins of Early Hinduism, Jainism, Buddhism, and its rudimentary forms of construction.				2					2			2
			CO2	Understand Hindu forms of worship, concept, symbolism and to get knowledge on the metaphysical plan of Temple Architecture.			2	2								2
			CO3	Understand and to get knowledge on the temple architecture and temple towns during various periods and empires in South India and North India.			2						2			2
			CO4	Understand and to know the character and Architecture of temples of South India and North India in detail.			2		2				2			2
11	24AR1255	Architectural Drawing - II (3D forms and color)	CO1	Understand the concepts and Scientific Methods of Perspective Drawing and apply Rendering Techniques, principles of Shade & Shadow and Construct sciography of Architectural Structures							2	2		2		
			CO2	Understand identification and measuring of specific Architectural Details of Historically significant, Buildings and the presentation techniques of drawings							2			2		
12	24AR1256	Architectural Design Studio - II	CO1	Apply anthropometric data, conduct desktop/case study and understand collected data towards framing parameters for House design and Cafeteria Design Cafeteria Design		2		2							2	

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					1	2	3	4	5	6	7	8	9	10	1	2
			CO2	Create Architectural Details for floated design exercise floated as per the semester complexity, Buildings and the presentation techniques of drawings		3										3
13	24AR1258	Building Material And Construction-I(Masonry) (BMC-I)	CO1	Understand the material stones, bricks and Soil: Types, Properties, Challenges. Bricks: Compositions, Classifications, Alternative Bricks Stone: Stone classifications, tests, uses, preservations, Artificial stones. Concrete: Masonry						2						
			CO2	Apply the knowledge about the techniques of masonry and draft the types of Stone masonry, brick masonry, and Concrete block masonry. Different masonry Walls, Foundations, Lintels and Arches. To understand the basic building components of the building i.e.: Foundation to parapet wall. To study the elements of the building and their importance, to understand the sequences of construction &structural system.						2						
14	24UC1204	Communication Skills	CO1	Analyze and construct complex sentences, including compound-complex sentences, with proficiency and a high level of proficiency in using punctuation marks effectively, and develop an understanding of subtle grammatical nuances and apply them accurately in their writing. Speaking										2	2	2
			CO2	Demonstrate improved listening comprehension skills, including the ability to understand native-level speech, various accents, and complex linguistic structures. utilizing appropriate verbal and nonverbal communication techniques.												

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					1	2	3	4	5	6	7	8	9	10	1	2
			CO3	Engage in practicing and making inferences, drawing conclusions, and interpreting implicit meaning from challenging texts, fostering deeper comprehension and engagement with the material.												
			CO4	Demonstrate adaptability in their writing, tailoring their language, tone, and style to suit the needs and expectations of specific audiences and rhetorical situations.										2	2	2
15	24AR2107	Design of Structures - II (Design of beams and columns)	CO1	Understanding the concept of simple stresses and strains and elastic properties of solids	2											
			CO2	Analyze the properties of structural timber and bamboo			2									
			CO3	Analyze the Design of flexure members of timber and design of simple truss.			2									
			CO4	Understand Structural properties of brick masonry and analysis			2									
16	24AR2108	History of Architecture - III (Medieval periods)	CO1	Understanding the evolution of early Christian and Medieval periods its Architecture and socio-political changes	2										2	
			CO2	Understanding Renaissance and Mannerist Architectures and their practices in Europe, growth of nations and styles of Baroque and Rococo	2										2	2
			CO3	Understanding the Islamic principle's philosophy & its relevance to various built forms and the influence of Islamic architecture on Indian subcontinent Architecture of various provinces under sultanate rule	2										2	
			CO4	Understanding of Architectural developments during Mughal Dynasty Study of cross culture influence and evolution of secular architecture in princely states	2										2	

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					1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**1**	**2**
17	24AR2109	Climate Responsive Architecture	CO1	Understanding of elements of climate, human comfort, and human body heat balance	2			2								2
			CO2	Understanding the concept of heat transfer in buildings, sun path diagrams and designing shading devices			2		2							2
			CO3	Understanding air movement for designing buildings accordingly.				2	2							2
			CO4	Understanding climate responsive architecture through case studies.				2	2							2
18	24AR2110	Site Survey and Analysis	CO1	Understanding Surveying using Chain and Compass. Understanding Surveying using Dumpy Level and Theodolite.				1				2				2
			CO2	Applying survey practices in field using Chain, Compass, Dumpy Level, Theodolite, Total Station and Alidade				1						3		3
19	24AR2157	Computer Studio - I (MS office, AutoCAD 3D)	CO1	Understand the basics of computer system and their supporting technologies like MS Office.	2	2									1	
			CO2	Apply the learned skills in preparation of documentation reports, analysis reports, and audio-visual presentations.	2	2									2	
20	24AR2160	Building Material and Construction-II (Doors, Windows, Partition, False Ceiling)	CO1	Understand the materials and its joinery: Timber, Bamboo. Understand the techniques, types of construction of wooden doors, windows, roofing. Understanding Cement and Concrete: Types, properties, tests, and applications in Doors, Windows, Roofing Understanding Ferrous and Nonferrous materials (Steel): Types, properties, Applications in Doors, Windows, Roofing,						3						

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					1	2	3	4	5	6	7	8	9	10	1	2
			CO2	Apply the knowledge and draft the details of wooden & steel trusses, RCC roofs, brick roofs, door and windows, wooden, RCC and Steel Roofs trusses as per construction industry/practice. Formwork, Shoring and Scaffolding: types and application						3						
21	24AR2159	Architectural Design Studio - III	CO1	Applying methods to understand and analyze the use, spaces, and concepts of residential activities, as well as applying methods to understand and analyze the spaces, connectivity, and standards of institution buildings.				2						2	2	2
			CO2	Create projects with design typologies such as Foundation School/Pre School/Public Health Care Center/Restaurant/Museum/Library, labeled as Project 1 and Project 2.		3					3				3	3
22	24AR2211	Design of Structures - III (Design of footings)	CO1	Understanding of Basics of RCC design	3		3									
			CO2	Understanding and designing of columns	3		3									
			CO3	Understanding and designing of footings and staircases	3		3									
			CO4	Understanding and analysis a given section for under or over design carrying capacity	3		3									
23	24AR2212	Building Services - I (Plumbing and sanitation)	CO1	Understanding the processes involved in the distribution, treatment, and disposal of wastewater.							2					
			CO2	Understanding the building sanitation method and different types of plumbing systems.								2				
			CO3	Understanding the plumbing and sanitary layouts of a residence.								2				
			CO4	Understanding the use and installation of various plumbing fixtures and sewerage systems for sanitary conveyance.								2				2

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					1	2	3	4	5	6	7	8	9	10	1	2
24	24AR2263	Building Material And Construction-III (Staircase, Flooring And Advanced Roofing)	CO1	Understand the Floor Finishes, Roofing techniques like Vaults, domes and Different slab techniques like one way slab, two-way slab, waffle, Bubble deck slab etc. Staircase components and types. Damp proof material and plastering	2		2									
			CO2	Flooring; Concrete, Wooden, Stone, Tile etc. Slabs/Roofing: Vault, Dome, Waffle, Bubble deck, hollow core slabs, filler slab etc. Staircase types using the materials Wooden, metal, RCC etc.	2		2			3						
25	24AR2213	Site Analysis and Planning	CO1	Understand about the basics of site, measuring and drawing methodologies.		1										
			CO2	Understand the importance of analysis of a site required in architectural design and building construction.			2									
			CO3	Understand the context of the site with respective to the surrounding land use typology.			2								1	
			CO4	Understand the site planning techniques and layout principles to be followed prior to site designing.				2								
26	24AR2261	Architectural Design Studio - IV	CO1	Application of anthropometry, circulation patterns, standards of various facilities		2		2							2	
			CO2	Create the Design after the analysis of the rural planning, infrastructure, and settlement planning of a village (rural settlement) as per the needs of the settlement as Project 1. Propose a design depending on the village documentation and survey that is functionally, good community oriented and open spaces – Project 2		3		3				3				3

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					1	2	3	4	5	6	7	8	9	10	1	2
27	24AR2214	Contemporary Architecture	CO1	Understand the Architecture and Planning of various Cities during Medieval Age. Understand the Culture and Built Forms in Pre – Independence (Colonial Rule) and Post-Independence of India.	2		2									
			CO2	Understand the Theories of current Architect practices and their applicability in meeting present day Needs.	2				2							
			CO3	Understand Cubism & Constructivism along with various Building styles of Early Modern Architects. Understand Post Modernism and International Style along with Ideas and Works of Various Architects of that time			2	2								
			CO4	Understand Critical Regionalism and other alternative practices. along with Ideas and Works of Various Architects of that time. Understand Deconstructivism along with Forms, Ideas and Concepts followed by Various Architects in their works			2		2							
28	24AR2262	Computer Studio - II (Image making and 3d making software)	CO1	Understand and learn to use of image editing software, graphics and animation software's.	2	2									2	
			CO2	Apply the tools of sketch up or equivalent software to create a detailed 3D model by working in collaboration by application of advanced tools	2	2									3	
29	24AR2223	Human Settlements and Planning	CO1	Understand the various elements of Human Settlements and the classification of Human Settlements.		2										
			CO2	Understand familiarize the students with Planning concepts and process in Urban and Regional Planning.			2									
			CO3	Understand the changing dynamics of Urban Form and its planning according to urban transformation			2						2			

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					1	2	3	4	5	6	7	8	9	10	1	2
			CO4	Understand the interrelationship between Human Settlements structure and Social Dynamics.			1						2			2
30	24AR3120A	PE-1 (Vernacular Architecture)	CO1	Understand the Vernacular Architecture, its Approaches & Concepts.	2			2								
			CO2	Understand the Vernacular styles of Buildings in Western, Northern & North-Eastern India.					2							
			CO3	Understand the Vernacular Architectural Styles of Southern India.					2							
			CO4	Understand the Influence of Western world on Vernacular Architecture.					2							
	24AR3120B	PE-1 (Sustainable Architecture)	CO1	Remember the Fundamentals of Sustainability and its impact on Environment							1	1				2
			CO2	Understanding the new concepts and terminologies of sustainability						2		2	2			2
			CO3	Understand the importance of site planning and energy, water efficient landscaping as an important tool in sustainable architecture							3	3				2
			CO4	Apply National and International Case studies of Sustainable Architecture through research summary on GRIHA, LEED and other Certification							3	3	3			2
31	24AR3115	Design of Structures - IV (Detailing of structural member)	CO1	Understanding of limit state design.		2										
			CO2	Apply the techniques and Design of reinforcement for a section.		3										
			CO3	Apply the Design detailing, and the purpose of one-way and two-way slabs.		3										2
			CO4	Apply the detailing for special structures such as deep beams, corbels, and shear. walls etc.			3									2
32	24AR3116	Building Services - II	CO1	Understanding the planning techniques and study of electricity, installations, wiring, and principles of	2											

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		(Electrical, and Acoustics)		distribution and safety.												
			CO2	Understanding the application of artificial illumination and lighting design for various spaces			2									
			CO3	Understanding the knowledge of ventilation principles.									2			2
			CO4	Applying the properties of sound and architectural acoustics, applicability of acoustic concepts and design, and learning how to create acoustics and analyze the integration of all three services in architectural planning.									3			3
33	24AR3166	Building Material and Construction-IV (Partitions, False Ceiling And False Flooring)	CO1	Understanding Plastics, Glass, Aluminum, Gypsum Board, Fiber Board, particle Board as a building material: types, properties, use, principles and methods of construction. Markey Survey of the material types.	2		2									2
			CO2	Apply the knowledge: Glass and Metal cladding of facades and building envelopes, Skylights: Fixing and fabrication details. Walls: Sandwich panel walls, PUF panels etc Partitions, False Ceiling and False Floorings: Types and Construction techniques, Construction details as per industry standards.	2		2									2
34	24AR3117	Building Bye laws and Office Management	CO1	Understand the importance of Building codes in different zones and learning about the terminologies	2		2								2	
			CO2	Understand the different norms from National Building Code of India	2				2						2	
			CO3	Understand the basic need of building bye laws of local region and to learn the terminology. To be introduced to Energy Conservation	2		2	2							2	
			CO4	Understand basis office procedure and management techniques in architecture			2	2								2

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35	24AR3164	Architectural Design Studio - V	CO1	Analyze the use, the spaces and the concepts of different homes for the disabled. To understand and analyze the spaces, connectivity, and the standards of Institution buildings		2		2								3
			CO2	Design a Social oriented building. A Home for physically and mentally challenged- Project 1 To design an institution-oriented building, School of Architecture, Design Institutions. Project 2 Old age Home, orphan age, School for disabled, Campus Design, theme-based hotels, shopping mall, Resort etc.		3		3								3
36	24AR3165	Computer Studio - III (Building Information Modelling)	CO1	Understand interface, workspace, and utilization of tools of 3Dmodeling software applies the required tools and componentsinbuildinga3D model. To create documentation reports, analysis reports, and audiovisual presentations.	2	2										2
			CO2	Understand, visualize the space and apply the tools of BIM software, identify the need of tools of BIM software. To create a detailed 3D model by working in collaboration by application of advanced tools	2	2										2
37	24AR3221	Building Services - III (HVAC and fire safety)	CO1	Understanding the Thermal Properties of the building material and components and mechanical ventilation	2										2	
			CO2	Understanding the principles, systems, and design criteria of HVAC.	2										2	
			CO3	Understanding the techniques and concepts in fire safety norms in the buildings.	2										2	
			CO4	Apply the techniques of mechanical transportation systems in building plans	2										3	
38	24AR3222	Specification, Estimation and	CO1	Understanding of data required and methods of estimation	2										2	

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					1	2	3	4	5	6	7	8	9	10	1	2
		Costing	CO2	Applying various methods, estimate different quantities.			3								3	
			CO3	Understanding of the types of estimates and costing	2		2								2	
			CO4	Understanding various specifications and terminology used.							2	2				2
39	24AR3224A	PE-2 (Landscape Design Studio)	CO1	Understanding landscape principles and types around the world. Advanced skills in utilizing site analysis techniques, plant selection, and design software to create sustainable and aesthetically pleasing outdoor spaces that enhance the built environment.						2	2	2			2	
			CO2	Develop a skill to integrate various knowledge systems to arrive at a design proposal. Minimum of 2 projects at different levels – Local, Urban. Utilizing traditional and digital methods, while exploring sustainable practices and cultural influences in landscape design Projects typology – Residential landscape, Urban Parks, Terrace gardening etc.						3	3		3		2	
	24AR3224B	PE-2 (Modular Construction Studio)	CO1	Applying methods to develop an understanding of space design at the local level. Additionally, applying techniques to integrate various knowledge systems to formulate a design proposal of a practical scale, along with implementing the process used for the same.						2		2				
			CO2	Creating opportunities for students to comprehend the area, scale, design, and implementation factors involved in Modular construction. Additionally, create projects for students to incorporate Modular construction, with a mandatory requirement for conducting case studies and documentation of Modular Construction.						2	2		2			

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40	24AR3267	Architectural Design Studio - VI	CO1	Expose the students to the challenges of designing functionally complicated buildings, having a complex array of activities and services. To familiarize the students to the task of coordinating integration of structural design and specialized building services in the framework of architectural design		2		2						2	2	
			CO2	Design A Functionally Complex Building (Medium Rise Structure Example Hospital, Juvenile Correction Centre, Research And Development Center) , Project 2 Design An Shopping Mall or Students Hostel Or Travelers Hostel, Conventional Center,5 star hotel Etc.		3									3	
41	24AR3225A	PE-3 (Appropriate Construction Technologies)	CO1	Understanding the alternative building materials, applying cost. effective materials and techniques to resolve environmental problems.		2	2									
			CO2	Understanding the indigenous construction materials and techniques for building resilience and disaster mitigation		2	2									
			CO3	Understanding the materials and techniques for energy efficient building construction		2	2									
			CO4	Applying Building Information Modelling in modern construction industry						3						
	24AR3225B	PE-3 (Energy Efficient Building)	CO1	Understand the importance of energy efficiency in buildings and strategies involved. Determine SMART, INTELLIGENT etc	2			2								
			CO2	Understand the importance of relevance of water in built environment						2						
			CO3	Understand Building Envelope installations and Dynamic facades Simulation			2						2			
			CO4	Understand Lighting, Appliances and Occupant Behaviour and introduction to simulation and analysis			2						2			

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					1	2	3	4	5	6	7	8	9	10	1	2
				software												
42	24AR3229A	PE-4 (Architectural Conservation)	CO1	Understand about the basics of Conservation in India									2			
			CO2	Understand the Conservation Practices			2									
			CO3	Understand the importance & analysis of Urban Conservation			2									
			CO4	Discuss about Conservation planning & Adaptive Conservation.				2								
	24AR3229B	PE-4 (Set Design)	CO1	Understand the Background writing and Concept creation for PLAY.									2			
			CO2	Understand the Technology and concepts involved in Film set design.			2									
			CO3	Understand and making of Background set to resemble the feature, Variation nasality in Lay outing Set.			2									
			CO4	Mock model on Concept allotted and study Lighting and prop Installations.				2								
43	24AR4126	Building Services - IV (Building automation)	CO1	Understand the philosophy of building automation systems and subsystems						2						
			CO2	Understanding about the communication and security systems						2						
			CO3	Applying the integration of building services into architectural design						3						3
			CO4	Applying the interaction and integration between building structure, systems, services, management, control, and information technology.						3						3
44	24AR4128B	PE-5 (Architecture Photography)	CO1	2Understand basics regarding usage, equipment and varied parameters of smartphone camera, professional camera										1	1	

S No	Course Code	Course Title	CO NO	Description of the Course Outcome	Program Outcomes										PSO	
					1	2	3	4	5	6	7	8	9	10	1	2
			CO2	Application of photographic equipment and techniques										2	2	
			CO3	Analyze with photojournalism and visual communication techniques										2	2	
			CO4	Apply the knowledge gained to visualize and write about buildings of architectural importance										2	2	
	24AR4128A	PE-5 (Housing)	CO1	Understand housing and Housing issues	2		2									
			CO2	Understand Housing, 5-year plans specific to housing	2				2							
			CO3	Understand Critical Sources of Finance			2	2								
			CO4	Understand Planning – Physical, Administration, Socio-Cultural, Sustainable, Financial, Future forecasts, and trends			2	2								
45	24AR4118A	PE-6 (Interior Design Studio)	CO1	Apply and demonstrate proficiency in conceptualizing and executing interior design projects, integrating principles of spatial planning, aesthetics, and functionality effectively.	2		2									
			CO2	Analyze advanced skills in utilizing digital tools and software to create comprehensive interior design presentations, fostering creativity and professionalism in their design solutions	2				2							
	24AR4118B	PE-6 (Furniture Design Studio)	CO1	Understand and demonstrate proficiency in conceptualizing and executing furniture design projects, integrating principles of ergonomics, aesthetics, and functionality effectively.	2		2									2

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					1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**1**	**2**
			CO2	Analyze the skills in Planning of furniture with material usage understanding materials, manufacturing techniques for practical and innovative solutions. Minimum of 2 projects should be done by using prototypes, Detail drawings and utilizing traditional and digital methods, while exploring sustainable practices and cultural influences in furniture design	2				2							2
46	24AR4168	Architectural Design Studio - VII	CO1	Application of the integration of services, sustainable building and anthropometry, circulation patterns.		2		2					2		2	
			CO2	Create and design spatial planning and functionality in Low. Rise. High Density Project. Project 1. To analyze the spaces, connectivity, and the standards of sustainable and service intensive building. Case study. To create design of a sustainable service integrated intelligent. Green building in High Rise (Project 2)		3		3					3			
47	24AR4130	Working Drawing - I (Building structure, civil and masonry)	CO1	Applying teaching methods, instruct students in preparing detailed working drawings for effective execution at construction sites and impart knowledge of the essential components of working drawings, notations, and drawing standards.	2						2					
			CO2	Applying methods of transmittals and record-keeping, integrate services drawings and detail various types of drawings. Apply the latest materials knowledge with specifications for updates.				2			2					
48	24AR4131	Research Methodology	CO1	Understand the basics of the research and process.			2	2					2			

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					1	2	3	4	5	6	7	8	9	10	1	2
			CO2	Understand about the research methodologies - Quantitative			2						2			
			CO3	Understand about the research methodologies - Qualitative			2						2			
			CO4	Apply the research in formulating the scientific manuscripts and make it publishable			2									2
49	24AR4232	Building Construction and Management	CO1	Understand the Objectives and Methods of project Management System			2				2				2	
			CO2	Understand various Tools and Techniques to facilitate efficient management of Projects			2					2			2	
			CO3	Analyze Project cost model and steps involved in cost optimization						3		3			2	
			CO4	Applying Scientific Evaluation Techniques to Manage Project Durations and resources with Examples								3			2	
50	24AR4269A	PE-7 (Dissertation)	CO1	Understand research skills by formulating a well-defined research question, conducting in-depth literature reviews, and presenting original findings in a structured academic format						3	3				1	
			CO2	Analyzing the theoretical frameworks and empirical evidence to produce a coherent argument, contributing new insights to their field of study.		2	3									1
	24AR4269B	PE-7 (Thesis Seminar)	CO1	Identify, explore and research topics of their interest; then describe by the organized presentations.	2					3						1

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					1	2	3	4	5	6	7	8	9	10	1	2
			CO2	Apply the ideas in finding a new solution to the existing problem and interpret via applying the architectural systems						3				2	2	
51	24AR4233A	PE-8 (Urban Design)	CO1	Understand Urban Design terminologies		2								2	2	2
			CO2	Understand Users and Activities in a city		2		2					2			2
			CO3	Understand public spaces, streets & Transport		2							2	2		2
			CO4	Understand Application of Urban Design		2		2					2			2
	24AR4233B	PE-8 (Behavioral Architecture)	CO1	Understand concepts and concerns of perception. Identify and develop the sensitivity to the needs of users and clients	2			2						2		2
			CO2	Understanding the designing and planning for urban quality			2							2		2
			CO3	Understand and apply the macro and micro built environment and behavioral aspects			3						3	2		2
			CO4	Apply the relationship between built - environment and perception			2						3			2
52	24AR4270	Urban Design Studio	CO1	Analyze the role of Services at higher scale in Urban level and apply the integration of services into intelligent sustainable building case study case study							2	2				2
			CO2	Create High Density Urban facility as a solution to the Urban area problems, Current issues. (Project-1) Analyze the spaces, Transformation according lifestyle changes in Urban population, connectivity, and the standards of sustainable and service intensive building. Case study. Create design of a sustainable service integrated intelligent green building High Density Project. (Project 2)			2							2	2	

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					1	2	3	4	5	6	7	8	9	10	1	2
53	24AR4234A	PE-9 (Transportation Planning)	CO1	Understand Basic elements and various category of vehicles depending upon the category of Roads exiting	1											
			CO2	Understanding Various types of Circulation & Users along with their infrastructural needs.			2				2					
			CO3	Understanding Road Safety & Civic Sense			2				2					
			CO4	Understanding Traffic & Transportation byelaws & Regulation									2			2
	24AR4234B	PE-9 (Disaster Mitigation and Management)	CO1	Understand the necessity for disaster management and measures that are to be followed.			2								2	
			CO2	Understand the disaster preparedness and Involving Design Considerations for buildings			2								2	
			CO3	Understand the study of design considerations for disaster management and precautions.			2								2	
			CO4	Understand the Relief & Rehabilitation for Disasters			2								2	
54	24AR4271	Working Drawing - II (Detailing)	CO1	Applying teaching methods, instruct students in preparing detailed working drawings for effective execution at construction sites and impart knowledge of the essential components of working drawings, notations, and drawing standards.							2	2				
			CO2	Applying methods of transmittals and record-keeping, integrate services drawings and detail various types of drawings. Apply the latest materials knowledge with specifications for updates.			2						2			
55	24AR5172	Practical Training / Internship	CO1	Understand the preparation of professional architectural portfolio and resume. Apply Academic architectural skills in various projects while working in office						2	2	2				

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					1	2	3	4	5	6	7	8	9	10	1	2
			CO2	Evaluate attributes of project, based on discussions with Chief Architect and clients. Site supervision during execution and coordination with the agencies involved in the construction process.						3	3	3				
56	24AR5235	Architecture Professional Practice	CO1	Expose students to the daily realities of an architectural practice through the Training								2				
			CO2	Facilitate an understanding of the evolution of an architectural project from design to execution.									2	2		
			CO3	Enable an orientation that would include the process of development of conceptual ideas, presentation skills.						2	2					
			CO4	Involvement in office discussions, client meetings, development of the concepts into working drawings, tendering procedure.										2		
57	24AR5273	Architectural Thesis	CO 1	Applying the Architectural Thesis, Writing Synopsis, Studies Related to Project. Literature study in relation to literatures, Desktop Studies, Case studies.	2	2	2	2								
			CO2	Create a design from the Site Study, Application of Data & Information Collected regarding project topic, Preliminary Drawings production. Creation of final Viable drawings & Building Services, Physical & Virtual Model and Report making.	3	3	3	3	3	3						
58	23UC0026	Human Values, Gender equality & Professional Ethics	CO1	Understand and analyze the essentials of human values and skills, self-exploration, happiness, and prosperity.	2											
			CO2	Evaluate coexistence of the "I" with the body.				3								
			CO3	Identify and associate the holistic perception of harmony at all levels of existence.					4							
			CO4	Develop appropriate technologies and management patterns to create harmony in professional and personal lives.										4		

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					1	2	3	4	5	6	7	8	9	10	1	2
59		OEC-1 Foreign Language														

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Program Articulation Matrix (Mapping of Courses with POs/SOs/PSOs)

S.No	Course Code	Course Name	Category	L	T	P	S	I	N	Cr	PO										PSO	
											1	2	3	4	5	6	7	8	9	10	1	2
1	24AR1101	Theory Of Architecture	PCC	3	0	0	0	0	0	3	2			2		2						2
2	24AR1102	History Of Architecture - I (Ancient Civilization)	PCC	3	0	0	0	0	0	3			2	2	2		2			2		1
3	24AR1152	Architectural Drawing - I (Basic Geometry)	PCC	0	0	3	0	0	0	3							2	2		2	1	1
4	24UC1102	Language Skills	HAS	2	0	2	0	0	0	3	2						2	2				
5	24AR1153	Architectural Design Studio - I	PRI(PC)	0	0	9	0	0	0	9		2		2			2		2	2	1	
6	24AR1154	Model Making Workshop	PCC	0	0	4	0	0		4						2	2	2			1	2
7	23UC0009	Ecology & Environment	BSAE	0	0	0	0	2	0	0						1				1		
8	23UC1203	Design Thinking And Innovation	HAS	2	0	2	0	0	0	3					2	2						
9	24AR1204	Design Of Structures - I (Plane Trusses, Shear Force And Bending Moments)	BSAE	3	0	0	0	0	0	3						2		2	2			2
10	24AR1205	History Of Architecture - II(Hindu Architecture)	PCC	3	0	0	0	0	0	3	2		2	2	2							1

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11	24AR2155	Architectural Drawing – II (3d Forms And Colour)	PCC	0	0	3	0	0	0	3							2	2		2		
12	24AR1256	Architectural Design Studio -II	PRI (PC)	0	0	9	0	0	0	9		2		1						2		2
13	24AR1258	Building Material And Construction - I (Masonry)	BSAE	0	0	4	0	0	0	4				2		2	2	2	2		2	2
14	24UC1204	Communication Skills	HAS	2	0	2	0	0	0	3						2	1	2	2			
15	24AR2107	Design Of Structures - II (Design Of Beams And Columns)	BSAE	3	0	0	0	0	0	3						2		2	2			2
16	24AR2109	Climate Responsive Architecture	BSAE	3	0	0	0	0	0	3				1		2		2				2
17	24AR2110	Site Survey And Analysis	SEC	0	0	0	3	0	0	3						2	1	2				
18	24AR2108	History Of Architecture- III(Medieval Architecture)	PCC	3	0	0	0	0	0	3	2		2	2	2							1
19	24AR2157	Computer Studio - I (Ms Office, Autocad 3d)	SEC	0	0	0	3	0	0	3								2	2		1	2
20	24AR2160	Building Material And Construction - II (Joinery, Trusses, Roofs, Formwork)	BSAE	0	0	4	0	0	0	4				2		2	2	2	2			

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21	24AR2159	Architectural Design Studio -III	PRI (PC)	0	0	9	0	0	0	9		2	1							2	2	2
22	24AR2211	Design Of Structures – III (Design Of Footings)	BSAE	3	0	0	0		0	3	3		3			3						
23	24AR2212	Building Services - I (Plumbing And Sanitation)	BSAE	3	0	0	0	0	0	3			1			2	1	2	2			
24	24AR2263	Building Material And Construction - III (Staircase,Flooring & Advanced Roofing)	BSAE	0	0	4	0	0	0	4				2		2	2	2	2			
25	24AR2213	Site Analysis And Planning	PCC	2	0	0	0	0	0	2	1		2				2					2
26	24AR2261	Architectural Design Studio -Iv	PRI (PC)	0	0	9	0	0	0	9		2	1							2	2	2
27	24AR2214	Contemporary Architecture	PCC	3	0	0	0	0	0	3	2		2	2	2		2			2		1
28	24AR2262	Computer Studio - II (Image Making And 3d Making Software)	SEC	0	0	0	3	0	0	3							2	2			1	2
29	24AR2223	Human Settlements And Planning	PCC	2	0	0	0	0	0	2	2	1					2					
30	24AR3120A	PE 1 - Vernacular Architecture	PEC	3	0	0	0	0	0	3	2		2	2	2		2			2		1
	24AR3120B	PE 1 - Sustainable		3	0	0	0	0	0	3	2		2			2						2

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S.No	Course Code	Course Name	Category	L	T	P	S	I	N	Cr	PO										PSO	
											1	2	3	4	5	6	7	8	9	10	1	2
		Architecture																				
31	24AR3115	Design Of Structures - IV (Detailing Of Structural Member)	BSAE	3	0	0	0		0	3		3										
32	24AR3116	Building Services - II (Electrical, And Acoustics)	BSAE	3	0	0	0	0	0	3			1			2	1	2	2			
33	24AR3166	Building Material And Construction - IV (Partitions, False Ceiling & False Flooring)	BSAE	0	0	4	0	0	0	4				2		2	2	2	2			
34	24AR3117	Building Bye Laws And Office Management	PCC	2	0	0	0	0	0	2	2		2	2	2						2	
35	24AR3164	Architectural Design Studio -V	PRI (PC)	0	0	9	0	0	0	9		2		1						2	2	2
36	24AR3165	Computer Studio - III (Building Information Modelling)	SEC	0	0	4	0	0	0	4	2	2										2
37	24AR3221	Building Services - III (HVAC And Fire Safety)	BSAE	3	0	0	0	0	0	3			1			2	1	2	2			
38	24AR3222	Specification, Estimation And Costing	PCC	3	0	0	0	0		3	1		2		2		2					

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											1	2	3	4	5	6	7	8	9	10	1	2
39	24AR3224A	PE 2 - Landscape Design Studio	PEC	0	0	4	0	0	0	4		1	1				2			2	2	2
	24AR3224B	PE 2 - Modular Construction Studio		0	0	4	0	0	0	4												
40	24AR3267	Architectural Design Studio -VI	PRI (PC)	0	0	12	0	0	0	12		2	1							2	2	2
41	24AR3225A	PE 3 - Appropriate Construction Technologies	PEC	2	0	0	0	0	0	2		1	2			2						
	24AR3225B	PE 3 - Energy Efficient Buildings		2	0	0	0	0	0	2	2		2			2						2
42	24AR3229A	PE 4 - Architectural Conservation	PEC	3	0	0	0	0	0	3		1					2					
	24AR3229B	PE 4 - Set Design		3	0	0	0	0	0	3		1					2					
43	24AR4126	Building Services - IV (Building Automation)	BSAE	3	0	0	0	0	0	3			1			2	1	2	2			
44	24AR4128A	Pe 5 - Housing	PEC	2	0	0	0		0	2		1	2		2		2					
	24AR4128B	Pe 5 - Architecture Photography		2	0	0	0	0	0	2		2	1									
45	23AR3118A	Pe 6 - Interior Design Studio	PEC	0	0	4	0	0		4		1	1				2			2	2	2
	23AR3118B	Pe 6 - Furniture Design Studio		0	0	4	0	0		4	1	1	1	2	2							
46	24AR4168	Architectural Design Studio	PRI	0	0	12	0	0		12		2	1							2	2	2

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		-VII	(PC)																			
47	24AR4130	Working Drawing - I (Building Structure, Civil And Masonry)	BSAE	0	0	4	0	0	0	4				2		2	2	2	2			
48	24AR4131	Research Methodology	PRI (PC)	2	0	0	0	0	0	2				2	2				2			
49	24AR4232	Building Construction And Management	PAECC	3	0	0	0	0	0	3			1			2	1	2	2			2
50	24AR4269A	Pe 7 - Dissertation	PEC	0	0	4	0	0	0	4												
	24AR4269B	Pe 7 - Thesis Seminar		0	0	4	0	0	0	4												
51	24AR4233A	Pe 8 - Urban Design	PEC	2	0	0	0	0	0	2		1					2					
	24AR4233B	Pe 8 - Behavioral Architecture		2	0	0	0	0	0	2	1		2		2		2					
52	24AR4270	Urban Design Studio	PCC	0	0	12	0	0	0	12		1					2			2	2	2
53	23AR4234A	Pe 9 - Transportation Planning	PEC	3	0	0	0	0		3												
	23AR4234B	PE 9 - Disaster Mitigation And Management	PEC	3	0	0	0	0		3	2		2	2		2			2			2
54	24AR4271	Working Drawing - Ii (Detailing)	BSAE	0	0	4	0	0	0	4				2		2	2	2	2			
55	24AR5172	Practical Training / Internship	PAECC	0	0	30	0	0		30				2		2	2	2	2			
56	24AR5235	Architecture Professional	PAECC	3	0	0	0	0	0	3	1		2		2		2					

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											1	2	3	4	5	6	7	8	9	10	1	2
		Practice																				
57	24AR5273	Architectural Thesis	PCC	0	0	15	0	0	0	15		2		2					1	2	2	2
58	23UC0026	Human Values, Gender equality and Professional Ethics	HAS	0	0	0	0	4	0	2	2	2			2	2			2	2	2	
59		Foreign Language	OEC																			