



Koneru Lakshmaiah Education Foundation

(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

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Campus: Green Fields, Vaddeswaram - 522 302, Guntur District, Andhra Pradesh, INDIA.

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School of Architecture

Course Articulation Matrix AY 2023 -24

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

SN	SE	COURSE	COURSE	COs	CO Description	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2				
1	1	22AR1101	Theory of Architecture	CO1	Introduction to Architecture and basic understanding on space and form development.		2		2												
				CO2	To learn the components of building circulation and its relation to architecture.	2	2														
				CO3	An understanding on architectural aesthetics in designing a building & also understand the key role of principles applied in architecture.		2		2												
				CO4	Students should understand the functioning of design process and its application in architectural buildings				3								3	3			



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					through case studies.															
2	1	22AR1102	History of Architecture - I (Ancient Civilization)	CO1	To 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	To study the Built forms in Ancient Greece and Ancient Roman Empire and its monumental Urban Architecture			2	2						2					



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3	1	23AR1103	Building Materials - I (Brick, Stone, Wood)	CO1	Understanding of the building materials -Soils and Bricks			2	2		2									
				CO2	Understanding of the building materials - stones & sand							2								
				CO3	Understanding of the building materials Lime and Cement								2							
				CO4	Understanding of the building materials-Timber & Bamboo				2		2									
4	1	22AR1151	Art and Visual Graphic Studio	CO1	To Understand the Principles of Drawing.															
4	1	22AR1151	Art and Visual Graphic Studio	CO2	To Understand the Types, Properties and Application of Colors.	2									2					
				CO3	To Understand the Painting Variations.	2								2						
				CO4	To Understand the Techniques of Sculpturing.	2								2						
				CO5	To explore and apply the	4								4	4					



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O	M	CODE	NAME	COs	CO Description												
					combine the elements of design in spontaneous as well as intentional ways to create desired qualities and effects												
				CO3	Development of required skills – observation / analysis / abstractions / interpretation / representations / expressions through models and drawings.			2		2							2
				CO4	Understanding of 3D Composition by involving students in several exercises which will help generation of a form from a two dimensional / abstract idea.			2		2							2
7	1	22UC1101	Integrated Professional English	CO1	Understanding the language Mechanics in Basic Grammar & Interactive Listening & Speaking									2	2	2	



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				CO2	Applying Integrated Reading skills & Techniques of Writing									3	3	3	
8	1	22UC0009	Ecology & Environment	CO1	Define to articulate basic understanding of the importance of Environmental education and conservation of natural resources. conservation of natural resources and Energy resources.									2			
				CO2	Understand concepts of ecosystems and learn methods for conservation of habitats 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							2					



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10	2	22AR1205	History of Architecture - II (Hindu Architecture)	CO1	To understand Vedic culture and study the origins of Early Hinduism, Jainism, Buddhism, and its rudimentary forms of construction.			2						2			2
				CO2	To understand Hindu forms of worship, concept, symbolism and to get knowledge on the metaphysical plan of Temple Architecture.			2	2								2
				CO3	To 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	To Study and to know the character and Architecture of temples of South India and North India in detail.			2	2					2			2



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11	2	23AR1206	Building Materials - II (cement, R.C.C, and Glass)	CO1	Understanding the building materials - Ferrous & Nonferrous metals	2														
				CO2	Understanding of the building materials – Cement mortar and concrete & Reinforced cement concrete.	2														
				CO3	Understanding of the building material - Glass.	2														
				CO4	Understanding of the building material - Paints.	2														
12	2	22AR1254	Model Making Workshop	CO1	To understand cutting and sticking for making a model							2								
				CO2	To understand representing hills, Plateau, water bodies, furniture's, Cars							2	2							
				CO3	To understand components of a detailed model								2	2						



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				CO4	To know different materials and apply the acquired knowledge							2					
				CO5	To create a model Independently by choosing appropriate material and techniques.							6					
13	2	22AR1256	Architectural Drawing - II (3D forms and color)	CO1	To Understand the concepts and Scientific Methods of Perspective Drawing and apply Rendering Techniques							2	2				
				CO2	To understand the principles of Shade & Shadow and Construct Sciography of Architectural Structures.							2			2		
				CO3	To Understand identification and measuring of specific Architectural Details of Historically									2			2



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					reports, and audio visual presentations.												
				CO3	To reciprocate the tools of 2D visualization to create architectural drawings.	2	2										
				CO4	To create layouts, plot/print to scale drawings, design and edit 2Dgraphic images.	5											
22	3	23AR2158	Building Construction - I (Masonry)	CO1	to understand natural materials like stone used in the building construction, method of construction and its application & usage in building industry & types of masonry, it's systems & techniques.						2						
				CO2	To understand the brick as basic building material & application of clay products in construction sector, methods & techniques.						2						



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				CO3	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.						4						
				CO4	Students should be able to analyze the different types of brick masonry & construction methods and details of contemporary and traditional work method demonstrate the techniques through study models						4						
23	3	22AR2138	Architectural Design Studio -III	CO1	To understand and analyze the use, the spaces, and the concepts of residential activities.		2		2						2	2	23



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				CO2	To design a small-scale residential project		3										3	
				CO3	To understand and analyze the spaces, connectivity, and the standards of Institution buildings. To design an institution-oriented building		3					3					3	
				CO4	Time Problem design with minimal design agenda		3											3
24	3	22UC2103	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			4				4						
				CO3	Develop ideation and test the prototypes made				3			3						



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O	M	CODE	NAME	COs	CO Description												
				CO4	Explore the fundamentals of entrepreneurship skills for transforming the challenge into an opportunity				2				2				
25	4	23AR2211	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 and load carrying capacity	3		3									
26	4	22AR2211	Building Services - I (Plumbing and sanitation)	CO1	To know about the water treatment, distribution, and wastewater treatment methods & disposal.							1					



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					re, rural plan ning, infra struc ture, and settl eme nt plan ning of a villag e (rural settl eme nt). To document the observations and compile the analysis for presentation – Project 3												
30	4	22AR2213	Contempo rary Indian Architectu re	CO1	Understand the Evolution of Dwellings as base of Traditional and Vernacular styles of India.	2		2									
				CO2	Understand the Architecture and Planning of various Cities during Medieva l Age.	2				2							



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					School of Architecture - Project 2 Time Problem - To design an Art center / Museum												
38		22AR3118 A	PE-1 (Interior Design Studio)	CO1	To understand the basic design acumen and anthropometry , ergonomics	2		2									
				CO2	To enhance their skills by applying design concept and theme for small spaces	2				2							
				CO3	Apply the skills in Planning of residential spaces with material usage understanding			4	4								
				CO4	apply anthropometry in hospitality related environment.			4	4								4
39		22AR3118 B	PE-1 (Furniture Design Studio)	CO1	To understand the basic design acumen and anthropometry , ergonomics	2		2									2
				CO2	To enhance their skills by applying design concept and theme to human scale	2				2							2



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O	M	CODE	NAME	COs	CO Description												
					application of advanced tools												
		22AR3117 A	PE-2 (Vernacular Architecture)	CO1	To understand the Vernacular Architecture, its Approaches & Concepts.	2			2								
				CO2	To Understand the Vernacular styles of Buildings in Western, Northern & North-Eastern India.					2							
				CO3	To Understand the Vernacular Architectural Styles of Southern India.					2							
				CO4	To study and Understand the Influence of Western world on Vernacular Architecture.					2							
		22AR3117 B	PE-2 (Sustainable Architecture)	CO1	Fundamentals of Sustainability and its impact on Environment							1	1				
				CO2	Understanding the new concepts and terminologies of sustainability						2		2	2			



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				CO3	An understanding of the types of estimates and costing	2		2									2	
				CO4	Knowledge of various specifications and terminology used.							2		2				2
45	6	23AR3223	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				
				CO4	Understand the interrelationship between Human Settlements				2					2				



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					structure and Social Dynamics.												
46	6	22AR3222 A	PE-3 (Landscape Design Studio)	CO1	Develop an understanding about space design at local level						2	2	2				
				CO2	Develop a skill to integrate various knowledge systems to arrive at a design proposal of an urban scale, the process used for the same						3	3		3			
				CO3	Make the students understand the area, scale, design and implementation factors with the involvement of stakeholders							4	4				
				CO4	Make the students work on relatively large project for incorporating multidisciplinary domains in the projects for consideration of the same.				4			4	4	4			
		22AR3222 B	PE-3 (Modular)	CO1	Develop an understanding about space						2		2				



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			Technologies)		techniques to resolve environmental problems.												
				CO2	Familiarity with indigenous construction materials and techniques for building resilience and disaster mitigation		2	2									
				CO3	Familiarity with the material and techniques for energy efficient building construction		2	2									
				CO4	Introduction to Building Information Modelling and application of the same in modern construction industry						3						
		23AR3225 B	PE-4 (Energy Efficient Building)	CO1	To understand the importance of energy efficiency in buildings and strategies involved.	2			2								
				CO2	To understand the importance of relevance of						2						



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					water in built environment												
				CO3	Introduction to green rating systems and building codes			2						2			
				CO4	Introduction to simulation and analysis software			2						2			
49	6	22BB21C3	Human Resource Management	CO1	Integrated perspective on role of HRM in modern business. Ability to plan human resources and implement techniques of job design					2					2		
				CO2	Competency to recruit, train, and appraise the performance of employees					2					2		
				CO3	Rational design of compensation and salary administration					2					2		
				CO4	Ability to handle employee issues and evaluate the new trends in HRM					2					2		



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					pre-engineered Concrete structures, adaptation in large-span structures, pre-engineered Steel structures, adaptation in steel frames/space frames and their components.												
				CO3	Understand and apply different aspects and technologies. involved in the construction of High-rise buildings		2	2									
				CO4	Introduction to advanced building materials and their application in the contemporary architectural practice		2										
	7	23AR4127 B	PE-5 (Architecture Photography)	CO1	Familiarity with the photographic knowledge and equipment										1	1	
				CO2	Familiarity with photojournalism and visual										2	2	



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					communication techniques												
				CO3	Application of photographic equipment and techniques										2		2
				CO4	Creating visuals for buildings of architectural importance										2		2
52	7	23AR4128 A	PE-6 (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							
	7	23AR4128 B	PE-6 (Intelligent Buildings)	CO1	Understand intelligent buildings' concept and its evolution								2				



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				CO2	Understand energy management systems and indoor environment quality of buildings							2					
				CO3	Understand energy conservation technology in buildings and its application			3				3					
				CO4	Understand and apply building management systems			3				3					
53	7	22AR4150	Architectural Design Studio -VII	CO1	Memorize anthropometry, circulation patterns, importance of services and building techniques		2		2						2		2
				CO2	To understand and apply the integration of services into intelligent sustainable building case study		3		3					3			
				CO3	To Create and design spatial planning and		4		4					4	4		



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				CO4	Discuss about Conservation planning & Adaptive Conservation.				2								
	7	22AR4124 B	PE-7 (Set Design)	CO1	Understand the Background writing and Concept creation for PLAY.									2			
				CO2	Study the Technology and concepts involved in Film set design.			2									
				CO3	Study and making of Background set to resemble the feature, Variation nasality in Lay outing Set			2									
				CO4	Produce a Mock model on Concept allotted and study Lighting and prop Installations.				2								
55	7	22AR4148	Working Drawing - I (Building structure, civil and masonry)	CO1	Introduce Working drawings and their significance in the	2						2					



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					the "I" with the body.												
				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		
58	8	22AR4226	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				3



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				CO4	Applying Scientific Evaluation Techniques to Manage Project Durations and resources with Examples								4				4
59	8	22AR4228 A	PE-8 (Dissertation)	CO1	Understand the importance of reasoning							2	2				
				CO2	Select the topic which may eventually culminate in the Architectural Design Thesis in the subsequent semester.			2						2			
				CO3	Select and apply the concept of reasoning to the chosen topic						3	3	3				
				CO4	Analyze the spaces, connectivity, and the standards of sustainable and service intensive building. Case study										5		
				CO5	Write a report on the research done in the topic with appropriate studies.						5	5	5				



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	8	22AR4228 B	PE-8 (Thesis Seminar)	CO1	Students will explore and research topics of their interest; then organize presentations.	2		2										
				CO2	To help students improve as speakers. All enrolled students must be present at each seminar. It is expected that students will actively participate by asking questions of the speaker.						2				2			
				CO3	The seminar process includes topic selection, synopsis submission, research on the topic and finally a presentation. Students can take aid of various mediums of visual presentation ranging from Power points to films to working models to best explain their topic.			3						3				



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				CO4	Each student will give two 20-minute presentations. The student's seminar should cover a minimum of four related papers in the topic chosen.			4						4			
60	8	23AR4233 A	PE-9 (Urban Design)	CO1	Memorize Urban Design terminologies		2		2						2		2
				CO2	Understand Users and Activities in a city		2		2					2			
				CO3	Understand public spaces, streets & Transport		2		2					2	2		
				CO4	Understand Application of Urban Design		2		2					2			
		23AR4233 B	PE-9 (Transportation Planning)	CO1	Study the 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			2				2					



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					infrastructural needs.												
				CO3	Understanding Road Safety & Civic Sense			2				2					
				CO4	Understanding Traffic & Transportation byelaws & Regulation									2			2
61	8	22AR4253	Urban Design Studio	CO1	Understand the role of Services at higher scale in Urban level							2		2			
				CO2	Understand and apply the integration of services into intelligent sustainable building case study			2								2	
				CO3	Create High Density Urban facility as a solution to the Urban area problems, Current issues. (Project-1)						3		3				
				CO4	Analyze the spaces, Transformation according lifestyle changes in Urban population,						5		5		5		



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					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)												
62	8	23AR4234 A	PE-10 (Behavioral Architecture)	CO1	Identify concepts and concerns of perception. Identify and develop the sensitivity to the needs of users and clients	2			2								
				CO2	Understanding the designing and planning for urban quality						2				2		
				CO3	Identify and apply the macro and micro built environment and behavioral aspects			3						3			
				CO4	Analyze the relationship			3						3			



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					between built - environment and perception												
		23AR4234 B	PE-10 (Disaster Mitigation and Management)	CO1	Understand the necessity for disaster management and measures that are to be followed.			2									2
				CO2	Study the Disaster preparedness and Involving Design Considerations for buildings			2									2
				CO3	Study the Design considerations for Disaster management and precautions.			2									2
				CO4	Understand the Relief & Rehabilitation for Disasters			2									2
63	8	22AR4251	Working Drawing - II (Detailing)	CO1	Train the students to prepare detailed Working drawings for effective execution at construction site.							2	2				
				CO2	Teach students the essential			2						2			



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O	M	CODE	NAME	COs	CO Description												
					components of working drawings, notations, drawing standards,												
				CO3	Preparation of integrated services drawings and detailing for various types of drawings and methods of transmittals and record keeping.						3	3	3				
				CO4	Update the latest materials knowledge with specifications										5		
64	9	22AR5154	Practical Training / Internship	CO1	Understand the preparation of professional architectural portfolio and resume						2	2	2				
				CO2	Apply Academic architectural skills in various projects while working in office						4	4	4				
				CO3	Evaluate attributes of project, based on discussions with Chief							5	5				



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					Architect and clients.												
				CO4	Site supervision during execution and coordination with the agencies involved in the construction process.						5		5				
65	10	22AR5228	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,										2		



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					development of the concepts into working drawings, tendering procedure.												
66	10	22AR5255	Architectural Thesis	CO 1	Understanding the Architectural Thesis, Writing Synopsis, Studies Related to Project.	2	2	2	2								
				CO2	Literature study in relation to literatures, Desktop Studies, Case studies.	3	3	3	3	3	3						
				CO3	Site Study, Application of Data & Information Collected regarding project topic, Preliminary Drawings production.	4	4	4	4	4	4	4		4			
				CO4	Creation of final Viable drawings & Building Services, Physical & Virtual Model and Report making.					5	5		5	5			