



Koneru Lakshmaiah Education Foundation

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

Accredited by NAAC as 'A++' Approved by AICTE ISO 21001:2018 Certified

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

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

School of Architecture

Course Articulation Matrix Y 2022 -23

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	11	12	1	2			
1	22AR1101	Theory of Architecture	CO1	Introduction to Architecture and basic understanding on Architectural space and form development.		1		1													
			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.		3		3													
			CO4	Students should understand the functioning of design process and its application in architectural buildings through case studies.				3						3							3
2	22AR1103	Building Materials - I	CO1	Understanding of the building materials Soils and Bricks			2			2											
			CO2	Understanding of the building materials Rocks and Stones						2											
			CO3	Understanding of the building materials Timber & Bamboo									2								



Koneru Lakshmaiah Education Foundation

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

Accredited by NAAC as 'A++' ♦ Approved by AICTE ♦ ISO 21001:2018 Certified

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

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

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	11	12	1	2	
			CO4	Understanding of the building materials Lime.			3			3		3							
3	22AR1204	Mechanics of Structures - I	CO1	Understanding the concept of forces and structural systems	1	1													
			CO2	Understanding the sectional properties of structural members			2	2											
			CO3	Analyzing the trusses and plane trusses					3	3									
			CO4	Analysing the columns using Euler's theory and Rankine formulae.								3		3					
4	22AR1206	Building Materials - II	CO1	Understanding of the building materials - Cement and RCC.			2			2									
			CO2	Understanding of the building material - Steel.						2									
			CO3	Understanding of the building material - Glass.									3						
			CO4	Understanding of the building material - Paints.		3							3						
5	22AR2107	Mechanics of Structures - II	CO1	Understanding the concept of simple stresses and strains and elastic properties of solids							1		1						
			CO2	Analyzing determinate beams and plotting shear force and bending moment diagrams						2			2						
			CO3	Analyzing indeterminate beams and plotting shear force and bending moment diagrams						3			3					3	



Koneru Lakshmaiah Education Foundation

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

Accredited by NAAC as 'A++' Approved by AICTE ISO 21001:2018 Certified

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

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

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	11	12	1	2
			CO4	Understanding the theory of simple bending									3					3
6	22AR1209	Climate Responsive Architecture	CO1	An understanding of elements of climate, human comfort, and human body heat balance.				2										
			CO2	Understanding the concept of heat transfer in buildings, sun path diagrams and designing shading devices.	2													
			CO3	Understanding air movement for designing buildings accordingly.				3	3									
			CO4	Understanding climate responsive architecture through case studies.	3				3								3	
7	22AR2210	Design of Structures - I	CO1	Developing the design of structural components with timber.	1		1											
			CO2	Developing the design of steel connections using bolted and welded connections	2		2											
			CO3	Developing the design of steel tension members	3		3											
			CO4	Developing the design of steel compression members	3		3											
8	22AR2211	Building Services - I	CO1	To know about the water treatment, distribution, and wastewater treatment methods & disposal.							1							



Koneru Lakshmaiah Education Foundation

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

Accredited by NAAC as 'A++' ♦ Approved by AICTE ♦ ISO 21001:2018 Certified

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

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

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	11	12	1	2	
			CO2	Understanding the building sanitation method and different types of plumbing systems									2						
			CO3	To understand the layouts and sanitary layouts of a residence.									3						
			CO4	To understand the use and installation of various plumbing fixtures and to know the sewerage systems for sanitary conveyance.									3						3
9	22AR3114	Design of Structures - II	CO1	Understanding the concept of limit state design of R.C structures								2		2					
			CO2	Developing the design of reinforced concrete beams							3			3					
			CO3	Developing the design of reinforced concrete columns									3	3					
			CO4	Developing the design of reinforced concrete slabs										3					
10	22AR3115	Building Services - II	CO1	Study of electricity, installations, wiring and principles of distribution and safety	2			2											
			CO2	Know the application artificial illumination, and lighting design for various spaces						2					2				
			CO3	Knowledge of air conditioning and ventilation principles evaluate electrical layouts			2							2					



Koneru Lakshmaiah Education Foundation

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

Accredited by NAAC as 'A++' ♦ Approved by AICTE ♦ ISO 21001:2018 Certified

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

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

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	11	12	1	2		
			CO4	To understand the techniques of bamboo constructions and the construction techniques of wall and kitchen cabinets			3		3				3						3	
15	22AR3143	Building Construction - III	CO1	To understand the construction of doors and windows in accordance with the type of usage	2		2												2	
			CO2	To understand the use R.C.C in Structural and nonstructural building components in construction industry/practice.	2				2										2	
			CO3	Clear understanding of paneling, soundproof and light weight partitions			3	3												3
			CO4	Students should also understand the techniques of water proofing and damp proofing.			3		3											3
16	22AR3246	Building Construction - IV	CO1	Understanding of Cement and Concrete properties.						2	2	2								
			CO2	Understanding of Special concrete and Concreting methods.						2	2		2							
			CO3	Understanding of the Reinforced Cement Concrete Construction							3	3								
			CO4	Understanding of Advanced Application Reinforced Cement Concrete Construction.				3			3	3	3							



Koneru Lakshmaiah Education Foundation

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

Accredited by NAAC as 'A++' Approved by AICTE ISO 21001:2018 Certified

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

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

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	11	12	1	2		
20	22AR4226	Building Construction and Management	CO1	To understand the Objectives and Methods of project Management System			2				1	3								
			CO2	To understand various Tools and Techniques to facilitate efficient Management of Projects			2						1							
			CO3	To Analyze Project cost model and steps involved in cost optimization						1		3								
			CO4	To Applying Scientific Evaluation Techniques to Manage Project Durations and resources with Examples									3							
21	22AR5228	Architecture Professional Practice	CO1	To expose students to the daily realities of an architectural practice through Practical Training							2	1								
			CO2	To facilitate an understanding of the evolution of an architectural project from design to execution.			1						1							
			CO3	To enable an orientation that would include the process of development of conceptual ideas, presentation skills.							2	1	2							
			CO4	Involvement in office discussions, client meetings, development of the concepts into working drawings, tendering procedure.											1					
22	22AR4228A	Dissertation	CO1	To understand the importance of reasoning							3	3								



Koneru Lakshmaiah Education Foundation

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

Accredited by NAAC as 'A++' ♦ Approved by AICTE ♦ ISO 21001:2018 Certified

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

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

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	11	12	1	2	
			CO2	To select the topic which may eventually culminate in the Architectural Design Thesis in the subsequent semester.			1						1						
			CO3	To select and apply the concept of reasoning to the chosen topic						2	3	3							
			CO4	To analyze the spaces, connectivity, and the standards of sustainable and service intensive building. Case study										1					
			CO5	To write a report on the research done in the topic with appropriate studies.						2	3	3							
23	22AR4228B	Thesis Seminar																	
24	22AR5154	Practical Training / Internship	CO1	To expose students to the daily realities of an architectural practice through Practical Training							3	3							
			CO2	To facilitate an understanding of the evolution of an architectural project from design to execution.			1						1						
			CO3	To enable an orientation that would include the process of development of conceptual ideas, presentation skills.						2	3	3							
			CO4	Involvement in office discussions, client meetings, development of the concepts into working drawings, tendering procedure.										1					



Koneru Lakshmaiah Education Foundation

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

Accredited by NAAC as 'A++' ♦ Approved by AICTE ♦ ISO 21001:2018 Certified

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

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

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	11	12	1	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.			3	1										2
			CO4	To Study and to know the character and Architecture of temples of South India and North India in detail			3		2					1				2
27	22AR2108	History of Architecture - III	CO1	Understanding the evolution of early Christian and Medieval periods, its Architecture and socio – political changes.	2		3											2
			CO2	Renaissance and Mannerist Architectures and their practices in Europe, growth of nations and styles of Baroque and Roccoco.	2				2									2
			CO3	Understanding the Islamic principles, philosophy, & its relevance to various built forms, and the influence of Islamic architecture on Indian subcontinent. Architecture of various provinces under sultanate rule.			3	1										2
			CO4	Study of Architectural developments during Mughal Dynasty, Study of cross culture influence and evolution of secular architecture in princely states			3		2									2
28	22AR2212	Site Analysis and Planning	CO1	To make students understand about the basics of site, it's measuring and drawing methodologies.									1					



Koneru Lakshmaiah Education Foundation

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

Accredited by NAAC as 'A++' Approved by AICTE ISO 21001:2018 Certified

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

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

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	11	12	1	2
			CO2	Understand familiarize the students with Planning concepts and process in Urban and Regional Planning.				3										
			CO3	Understand the changing dynamics of Urban Form and its planning according to urban transformation				3					2					
			CO4	Understand the interrelationship between Human Settlements structure and Social Dynamics				3					2					
31	22AR4126A	Housing	CO1	Understand housing and Housing issues	2		3											
			CO2	Understand Housing, 5 year plans specific to housing	2				1									
			CO3	Understand Critical Sources of Finance				3	2									
			CO4	Understand Planning – Physical, Administration, Socio-Cultural, Sustainable, Financial, Future forecasts, and Trends				3	2									
32	22AR4126B	Intelligent Buildings																
	22AR4229A	Urban Design	CO1	To memorize Urban Design terminologies		3	3							1				1
33			CO2	To understand Users and Activities in a city		3	3						2					
			CO3	To understand public spaces, streets & Transport		3	3						2	1				
			CO4	To understand Application of Urban Design		3	3						2					



Koneru Lakshmaiah Education Foundation

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

Accredited by NAAC as 'A++' ♦ Approved by AICTE ♦ ISO 21001:2018 Certified

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

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

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	11	12	1	2		
34	22AR4229B	Transportation Planning																		
35	22AR1152	Architectural Drawing - I	CO1	To Understand the Fundamentals of Drawing and Drafting	1		2											2		
			CO2	To Understand the Construction and Development of Surfaces for various Basic 3D Shapes.	1				2									2		
			CO3	To Understand the representation of various building components and related elements			2	1												2
			CO4	To Understand the representation of a building in plan, elevation & sections. To Understand the Preparation of Simple Measure Drawing			2		2											2
36	22AR1153	Architectural Design Studio -I (Basic Design)	CO1	To Understand the Fundamentals of Drawing and Drafting	2		3											2		
			CO2	To Understand the Construction and Development of Surfaces for various Basic 3D Shapes.	2				2										2	
			CO3	To Understand the representation of various building components and related elements			3	1												2
			CO4	To Understand the representation of a building in plan, elevation & sections. To Understand the Preparation of Simple Measure Drawing			3		2											2
37	22AR1254	Model Making Workshop	CO1	To understand cutting and sticking for making a model							2									



Koneru Lakshmaiah Education Foundation

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

Accredited by NAAC as 'A++' ♦ Approved by AICTE ♦ ISO 21001:2018 Certified

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

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

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	11	12	1	2	
			CO2	To understand representing hills, Plateau, water bodies, furniture's, Cars.								2	2						
			CO3	To understand components of a detailed model								2	2						
			CO4	To know different materials and apply the acquired knowledge and create a model Independently by choosing appropriate material and techniques.								2							
38	22AR1256	Architectural Drawing - II	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 significant Buildings.								2			2				
			CO4	To understand the presentation techniques of drawings	2							2							
39	22AR1257	Architectural Design Studio -II	CO1	To make student to remember anthropometric data, conduct desktop/case study and understand collected data towards framing parameters for Bedroom design.		2		2							2				2



Koneru Lakshmaiah Education Foundation

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

Accredited by NAAC as 'A++' Approved by AICTE ISO 21001:2018 Certified

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

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

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	11	12	1	2	
			CO2	To make student to apply and analyze collected data, to derive concepts, evaluate schematic preliminary design options and final design presentation of a Bedroom for a cine actor.		3													3
			CO3	To make student to derive concepts, schematic preliminary design, and final design presentation of a Shop front for a given context.		3								3					3
			CO4	To make student to remember anthropometric data, conduct desktop/case study and understand collected data towards framing parameters for Coffee Shop design.		2		2						2				2	
40	22AR2138	Architectural Design Studio -III	CO1	To understand and analyze the use, the spaces and the concepts of residential activities.		2		2						2				2	
			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					3
41	22AR2241	Architectural Design Studio -IV	CO1	To memorize anthropometry, circulation patterns, standards various facilities to be provided.		2		2						2				2	



Koneru Lakshmaiah Education Foundation

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

Accredited by NAAC as 'A++' ♦ Approved by AICTE ♦ ISO 21001:2018 Certified

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

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

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	11	12	1	2		
			CO2	To create and design spatial planning, circulation, and functionally good community oriented open spaces – Project 1		3		3						3						
			CO3	To create and design functional and activity-oriented community spaces- Project 2		3		3					3	3						
			CO4	To analyze the architecture, rural planning, infrastructure, and settlement planning of a village (rural settlement) To document the observations and compile the analysis for presentation – Project 3		3		3					3	3						3
42	22AR3144	Architectural Design Studio -V	CO1	To understand and analyze the use, the spaces, and the concepts of different homes for the disabled		2		2						2					2	
			CO2	To design a Social oriented building –A Home for physically and mentally challenged- Project 1		3													3	
			CO3	To understand and analyze the spaces, connectivity, and the standards of Institution buildings.		2								2						2
			CO4	To design an institution-oriented building – School of Architecture- Project 2 Time Problem - To design an Art center / Museum		3								3						3



Koneru Lakshmaiah Education Foundation

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

Accredited by NAAC as 'A++' Approved by AICTE ISO 21001:2018 Certified

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

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

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	11	12	1	2		
43	22AR3118A	Interior 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 for small spaces	2				2										2	
			CO3	Apply the skills in Planning of residential spaces with material usage understanding			3	3												3
			CO4	Study and apply anthropometry in hospitality related environment.			3		3											3
44	22AR3118B	Furniture Design Studio	CO1	To understand the basic design acumen and anthropometry, ergonomics	1		1											2		
			CO2	To enhance their skills by applying design concept and theme to human scale	1				2										2	
			CO3	Apply the skills in Planning of furniture with material usage understanding			2	2												3
			CO4	Study and apply anthropometry in daily use products.			2		2											3
45	22AR3222A	Landscape Design Studio	CO1	To develop an understanding about space design at local level						2	2	2								
			CO2	To develop a skill to integrate various knowledge systems to arrive at a design proposal of an urban scale, the process used for the same						2	2		2							



Koneru Lakshmaiah Education Foundation

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

Accredited by **NAAC** as 'A++' ♦ Approved by **AICTE** ♦ ISO 21001:2018 Certified

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

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

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	11	12	1	2		
			CO3	To make the students understand the area, scale, design, and implementation factors with the involvement of stakeholders								2	2							
			CO4	To make the students work on relatively large project for incorporating multidisciplinary domains in the projects for consideration of the same.				2				2	2	2						
46	22AR3222B	Modular Construction Studio																		
47	22AR3247	Architectural Design Studio -VI	CO1	To expose the students to the challenges of designing functionally complicated buildings, having a complex array of activities and services		2		2							2				2	
			CO2	To Design a functionally complex Building (Medium Rise Structure) - PROJECT 1		3													3	
			CO3	To familiarise the students to the task of coordinating integration of structural design and specialised building services in the framework of architectural design		2									2					2
			CO4	To make students understand advanced construction technology and newer building materials. To Design a functionally complex Building (High Rise Structure) - PROJECT 2		3		3						3	3					3



Koneru Lakshmaiah Education Foundation

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

Accredited by NAAC as 'A++' ♦ Approved by AICTE ♦ ISO 21001:2018 Certified

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

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

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	11	12	1	2		
48	22AR4150	Architectural Design Studio -VII	CO1	To 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 functionality in Low Rise – High Density Project. (Project 1)		3		3				3	3							
			CO4	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 – High Density Project. (Project 2)		3		3				3	3						3	
49	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	3								
			CO4	Analyze the spaces, Transformation according lifestyle changes in Urban population,						3	3	3		3						



Koneru Lakshmaiah Education Foundation

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

Accredited by NAAC as 'A++' ♦ Approved by AICTE ♦ ISO 21001:2018 Certified

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

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

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	11	12	1	2
			CO3	To strengthen the students' knowledge about preparing working drawings for various building elements.						2		2						2
			CO4	To Improve the construction details knowledge									2	2				2
66	22AR4251	Working Drawing - II	CO1	To train the students to prepare detailed Working drawings for effective execution at construction site.							2	2						2
			CO2	To teach students the essential components of working drawings, notations, drawing standards,			1						2					2
			CO3	To preparation of integrated services drawings and detailing for various types of drawings and methods of transmittals and record keeping.						2	2	2						2
			CO4	To update the latest materials knowledge with specifications										2				2
67	22UC1101	Integrated Professional English	CO1	Understand the concepts of grammar to improve communication, reading, and writing skills											2			2
			CO2	Demonstrate required knowledge over Dos and Don'ts of speaking in the corporate context. Demonstrate ability to face formal situations / interactions.										2				2
				Understand the varieties of reading and comprehend the tone and style of the author. Skim									2					2



Koneru Lakshmaiah Education Foundation

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

Accredited by **NAAC** as 'A++' ♦ Approved by **AICTE** ♦ **ISO 21001:2018** Certified
Campus: Green Fields, Vaddeswaram - 522 302, Guntur District, Andhra Pradesh, INDIA.
 Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

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	11	12	1	2		
				finding out all the possible arrangements in linear & circular order.																
69	22UC1203	Design Thinking and Innovation	CO1	Understand the importance of Design thinking process for contextualized problems						1	1									
			CO2	Analyze, define, and ideate for solutions						2	2									
			CO3	Develop and test the prototype made							2	2								
			CO4	Explore the fundamentals of entrepreneurship skills for transforming the challenge into an opportunity							2	2								
70	22MB52C3	Human Resource Management	CO1	Integrated perspective on role of HRM in modern business. Ability to plan human resources and implement techniques of job design					1					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							
71		Innovation and Entrepreneurship	CO1	Explain and apply the key terms, definitions, and concepts used in the study of Innovation and Entrepreneurship Development					1				2							



Koneru Lakshmaiah Education Foundation

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

Accredited by **NAAC** as 'A++' ♦ Approved by **AICTE** ♦ **ISO 21001:2018** Certified

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

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

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	11	12	1	2
			CO2	Demonstrate how as an entrepreneur he can use the concepts of Innovation, to create new product, services, and business processes					2					2				
			CO3	Construct a well-structured business plan by including all the necessary elements of the business plan					2					2				
			CO4	Demonstrate how as an entrepreneur he can use the concepts of Entrepreneurship, to develop a new entrepreneurial organization					2					2				