



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.

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

DEPARTMENT OF ARCHITECTURE

PROGRAM: BACHELORS OF ARCHITECTURE

ACADEMIC YEAR: 2021-2022

SN o	Course Code	Course Title	CO NO	Description of the Course Outcome
1	21AR1101	Theory Of Architecture	CO 1	An understanding on basic principles and elements of architecture.
			CO 2	An understanding on architectural form and space in terms of elements and principles of architecture and their use.
			CO 3	To learn the components of building circulation and its relation to architecture.
			CO 4	Students should understand the function of design process and analysis of architectural buildings through case studies.
2	21AR1102	History Of Architecture - I	CO1	To Understand Primitive Architecture and Ancient settlements in Pre-Historic times and get knowledge on the Ancient River valley civilizations in the world.
			CO2	Understand the Architecture and Planning of Ancient River Valley Civilizations
			CO3	Understand the Culture and its influence on Architecture in Ancient Greece and Ancient Rome and its impact on Western Architecture
			CO4	To study the Built forms in Ancient Greece and Ancient Roman Empire and its monumental Urban Architecture
3	21AR1103	Building Material -I	CO1	Understanding of the building materials Soils and Bricks
			CO2	Understanding of the building materials Rocks and Stones
			CO3	Understanding of the building materials Timber & Bamboo
			CO4	Understanding of the building materials Lime.
4	21AR1151	Art And Visual Graphic Studio	CO1	Understand the Principles of Drawing.
			CO2	Understand the Types, Properties and Application of Colors.


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			CO3	Understand the Painting Variations.
			CO4	Understand the Techniques of Sculpturing.
5	21AR1152	Architectural Drawing - I	CO1	To Understand the Fundamentals of Drawing and Drafting
			CO2	To Understand the Construction and Development of Surfaces for various Basic 3D Shapes.
			CO3	To Understand the representation of various building components and related elements
			CO4	To Understand the representation of a building in plan, elevation & sections. To Understand the Preparation of Simple Measure Drawing
6	21AR1153	Architectural Design Studio – 1 (Basic Design)	CO1	An understanding of the qualities of different elements as well as their composite fusions
			CO2	An ability to engage and combine the elements of design in spontaneous as well as intentional ways in order to create desired qualities and effects
			CO3	Development of required skills – observation / analysis / abstractions / interpretation / representations / expressions through models and drawings.
			CO4	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.
7	21UC1101	Integrated Professional English	CO1	Understand the concepts of grammar to improve communication, reading, and writing skills
			CO2	Demonstrate required knowledge over Dos and Don'ts of speaking in the corporate context. Demonstrate ability to face formal situations / interactions.
			CO3	Understand the varieties of reading and comprehend the tone and style of the author. Skim and scan effectively and appreciate rhetorical devices
			CO4	Apply the concepts of writing to draft corporate letters, emails, and memos
8	21UC0009	Ecology And Environment	CO 1	Understand the importance of Environmental education and conservation of natural resources.
			CO 2	Understand the importance of ecosystems and biodiversity.
			CO 3	Apply the environmental science knowledge on solid waste management, disaster management and EIA process.

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9	21AR1204	Mechanics Of Structures - I	CO1	Determine the principal stresses and strains in structural members
			CO2	Analyze the forces in members of trusses
			CO3	Determine the bending moment and shear force in the members subjected to loads
			CO4	Determine the bending and shear stresses in structural members
10	21AR1205	History Of Architecture - Ii	CO1	To understand vedic culture and study the origins of Early Hinduism, Jainism, Buddhism and its rudimentary forms of construction.
			CO2	To understand Hindu forms of worship, concept, symbolism and to get knowledge on the metaphysical plan of Temple Architecture
			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.
			CO4	To Study and to know the character and Architecture of temples of South India and North India in detail
11	21AR1206	Building Materials- Ii	CO1	Understanding of the building materials - Cement and RCC.
			CO2	Understanding of the building material - Steel.
			CO3	Understanding of the building material - Glass.
			CO4	Understanding of the building material - Paints.
12	21AR1254	Model Making Workshop	CO1	To understand cutting and sticking for making a model
			CO2	To understand representing hills, Plateau, water bodies, furniture's, Cars.
			CO3	To understand components of a detailed model
			CO4	To know different materials and apply the acquired knowledge and create a model Independently by choosing appropriate material and techniques.
13	21AR1255	Surveying And Levelling	CO1	Understanding Surveying using Chain and Compass.
			CO2	Understanding Surveying using Dumpy Level and Theodolite.
			CO3	Understanding Surveying using Total Station and Alidade.
			CO4	Applying survey practices in field



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14	21AR1256	Architectural Drawing - II	CO1	To Understand the concepts and Scientific Methods of Perspective Drawing and apply Rendering Techniques
			CO2	To understand the principles of Shade & Shadow and Construct Sciography of Architectural Structures.
			CO3	To Understand identification and measuring of specific Architectural Details of Historically significant Buildings.
			CO4	To understand the presentation techniques of drawings
15	21AR1257	Architectural Design Studio – II	CO1	To make student to remember anthropometric data, conduct desk top/case study and understand collected data towards framing parameters for Bed room design.
			CO2	To make student to apply and analyze collected data, to derive concepts, evaluate schematic preliminary design options and final design presentation of a Bed room for a cine actor.
			CO3	To make student to derive concepts, schematic preliminary design and final design presentation of a Shop front for a given context.
			CO4	To make student to remember anthropometric data, conduct desk top/case study and understand collected data towards framing parameters for Coffee Shop design.
16	21UC1202	English Proficiency	CO 1	Apply the concepts of accurate English while writing and be come equally ease in using good vocabulary and language skills.
			CO 2	Understand the importance of professional writing and apply the same in day to day usage.
			CO 3	Apply the concepts of Ratios, Percentages, Averages and Analyzing the given information, a student is required to understand the given information and there after answer the given questions on the basis of comparative analysis of the data in the form of tabulation, bar graphs, pie charts, line graphs. Analyze the given data to find whether it is sufficient or not.
			CO 4	Apply the basic functionality of Clocks and Calendars to find the solutions for the problems. Analyze the given symbols to understand the hidden meaning of the given expression and finding the solutions. Analyze the given conditions and finding out all the possible arrangements in linear & circular order.

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17	21AR2107	Mechanics Of Structures - II	CO1	Understanding Shear force and Bending moment of Beams
			CO2	Understanding Bending, Shear stress and Principal stresses of beams
			CO3	Understanding Buckling of Columns
			CO4	Understanding the concept of Statically Indeterminate Beams and Frames
18	21AR2137	Building Construction- I	CO1	It is required that students should understand materials used in the building, method of construction and application
			CO2	To understand the components of building and nuances of drawing plan, Elevation and section along with relevant sketches and details showing method of construction
			CO3	To understand, analyze the application and different arrangement styles of building materials
			CO4	Students should be able to analyze the different construction methods and details of contemporary and traditional work method demonstrate the techniques through study models
19	21AR2108	History Of Architecture - III	CO1	Understanding the evolution of early Christian and Medieval periods, its Architecture and socio – political changes.
			CO2	Renaissance and Mannerist Architectures and their practices in Europe, growth of nations and styles of Baroque and Roccoco.
			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 .
			CO4	Study of Architectural developments during Mughal Dynasty, Study of cross culture influence and evolution of secular architecture in princely states
20	21AR2109	Climate Responsive Architecture	CO 1	An understanding of elements of climate, ability to read their measurements, human comfort and human body heat balance.
			CO 2	Understanding thermal comfort factors and principles of heat transfer.



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			CO 3	Understanding sun path diagrams and air movement for design of fenestration and shading devices.
			CO 4	Understanding climate responsive architecture through case studies.
21	21AR2138	Architectural Design Studio – III	CO 1	To understand and analyze the use, the spaces and the concepts of residential activities.
			CO 2	To design a Small scale residential project
			CO 3	To understand and analyze the spaces, connectivity and the standards of Institution buildings.
			CO 4	To design an institution oriented building
			CO 5	Time Problem design with minimal design agenda
22	21AR2136	Computer Studio – I	CO 1	To understand the basics of computer system and their supporting technologies.
			CO 2	To create documentation reports, analysis reports; and audio visual presentations.
			CO 3	To reciprocate the tools of 2D visualization to create architectural drawings.
			CO 4	To create layouts, plot/print to scale drawings, design and edit 2D graphic images.
23	21AR2210	Design Of Structures - I	CO 1	Design the structural components timber and their general behavior with reference to code provisions, Madras roof terrace.
			CO 2	Design of bolted and welded connections
			CO 3	Design the tension members
			CO 4	Design the compression members, Design of steel beams - laterally supported
24	21AR2211	Building Services - I	CO1	To know about the water treatment, distribution and waste water treatment methods & disposal.
			CO2	Understanding the building sanitation method and different types of plumbing systems
			CO3	To understand the layouts and sanitary layouts of a residence.
			CO4	To understand the use and installation of various plumbing fixtures and to know the sewerage systems for sanitary conveyance.



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25	21AR2240	Building Construction-II	CO1	To understand the construction of doors and windows in accordance with the type of usage
			CO2	To understand the uses of wooden trusses and staircases in construction industry/practice
			CO3	To understand the installation of paneling, soundproof and light weight partitions
			CO4	To understand the techniques of bamboo constructions and the construction techniques of wall and kitchen cabinets
26	21AR2212	Site Analysis And Planning	CO1	To make students understand about the basics of site, it's measuring and drawing methodologies.
			CO2	To explain the importance of analysis of a site required in architectural design and building construction.
			CO3	To make students understand the context of the site with respective to the surrounding land use typology.
			CO4	To discuss about the site planning techniques and layout principles to be followed prior to site designing.
27	21AR2241	Architectural Design Studio – IV	CO1	To memorize anthropometry, circulation patterns, standards various facilities to be provided.
			CO2	To create and design spatial planning, circulation and functionally good community oriented open spaces – Project 1
			CO3	To Create and design functional and activity oriented community spaces- Project 2
			CO4	To analyze the architecture, rural planning, infrastructure and settlement planning of a village (rural settlement)
			CO5	To document the observations and compile the analysis for presentation – Project 3
28	21AR2213	Contemporary Indian Architecture	CO1	Understand the Evolution of Dwellings and Structures in Pre-Independence Medieval Age
			CO2	Understand the Architecture and Planning of various Cities during Medieval Age
			CO3	Understand the Culture and Built Forms in Colonial Rule of India



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			CO4	Understand the Culture and Built forms in Post-Independence Era
29	21AR2239	Computer Studio - II	CO 1	To understand interface, workspace and utilization of tools of 3D modeling software apply the required tools and components in building a 3D model.
			CO 2	To create documentation reports, analysis reports; and audio visual presentations.
			CO 3	To understand, visualize the space and apply the tools of BIM software, identify the need of tools of BIM software.
			CO 4	To create a detailed 3D model by working in collaboration by application of advanced tools
30	21AR3114	Design Of Structures - II	CO 1	Understanding Concept of Elastic method, Ultimate Load Method and Limit State Method, Analysis and Design of beams by WSM
			CO 2	Analysis & design of beams – Design of Continuous beams by LSM
			CO 3	Understanding Behaviour and design of one way and two-way slabs by LSM
			CO 4	Understanding Design of circular slabs, Design of staircase by limit state method (LSM)
31	21AR3115	Building Services- II	CO1	Study of electricity, installations, wiring and principles of distribution and safety
			CO2	Know the application artificial illumination, and lighting design for various spaces
			CO3	Knowledge of air conditioning and ventilation principles evaluate electrical layouts
			CO4	Understanding properties of sound and Architectural acoustics, and analyzing acoustic concepts and design, learning how to create acoustic and lighting designs to different building types – Studio work
32	21AR3143	Building Construction- III	CO1	To understand the construction of doors and windows in accordance with the type of usage
			CO2	To understand the use R.C.C in Structural and nonstructural building components in construction industry/practice.
			CO3	Clear understanding of paneling, soundproof and light weight partitions
			CO4	Students should also understand the techniques of water proofing and damp proofing.
33	21AR3144	Architectural Design Studio –	CO 1	To understand and analyze the use, the spaces and the concepts of different homes for the disabled



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		V	CO 2	To design a Social oriented building –A Home for physically and mentally challenged
			CO 3	To understand and analyze the spaces, connectivity and the standards of Institution buildings.
			CO 4	To design an institution oriented building – School of Architecture
			CO 5	Time Problem - To design an Art center / Museum
34	21AR3116	Contemporary Western Architecture	CO1	To Understand Cubism & Constructivism along with various Building styles of Early Modern Architects.
			CO2	To Understand Post Modernism and International Style along with Ideas and Works of Various Architects of that time.
			CO3	To Understand Critical Regionalism and other alternative practices along with Ideas and Works of Various Architects of that time.
			CO4	To Understand Deconstructivism along with Forms, Ideas and Concepts followed by Various Architects in their works.
35	21AR3142	Interior Design Studio	CO1	To understand the basic design acumen and anthropometry, ergonomics
			CO2	To enhance their skills by applying design concept and theme for small spaces
			CO3	Apply the skills in Planning of residential spaces with material usage understanding
			CO4	Study and apply anthropometry in hospitality related environment.
36	21AR3117A	Vernacular Architecture	CO1	To understand the Vernacular Architecture, its Approaches & Concepts.
			CO2	To Understand the Vernacular styles of Buildings in Western, Northern & North-Eastern India.
			CO3	To Understand the Vernacular Architectural Styles of Southern India.
			CO4	To study and Understand the Influence of Western world on Vernacular Architecture.
37	21AR3117B	Sustainable Architecture - I	CO1	To understand the concept of green building need for it in today's context
			CO2	To understand the traditional buildings under different climatic zones and the elements in vernacular buildings
			CO3	Understanding the climatic influences on built



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				environment
			CO4	To understand the importance of site planning and energy efficient landscaping as an important tool in sustainable architecture
38	21AR3219	Building Services - Iii	CO 1	Familiarity with different air conditioning systems, their context of use and basics of planning involved.
			CO 2	An understanding of fire safety, fire fighting, fire prevention and installations in buildings.
			CO 3	An understanding of mechanical transportation systems in a building and their design requirements.
			CO 4	Ability to integrate services in buildings.
39	21AR3246	Building Construction- IV	CO1	Understanding of Cement and Concrete properties.
			CO2	Understanding of Special concrete and Concreting methods.
			CO3	Understanding of the Reinforced Cement Concrete Construction
			CO4	Understanding of Advanced Application Reinforced Cement Concrete Construction.
40	21AR3218	Estimation, Costing And Specifications	CO 1	An understanding of data required and methods of estimation
			CO 2	Ability to estimate various quantities using different methods
			CO 3	An understanding of the types of estimates and costing
			CO 4	Knowledge of various specifications and terminology used
41	21AR3220	Human Settlements And Planning	CO1	To understand the various elements of Human Settlements and the classification of Human Settlements.
			CO2	To familiarize the students with Planning concepts and process in Urban and Regional Planning.
			CO3	To explore the students about the dynamics of Urban Form and its planning
			CO4	To understand the interrelationship between Human Settlements structure and Social Dynamics
42	21AR3245	Landscape Studio	CO1	To develop an understanding about space design at local level



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			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
			CO3	To make the students understand the area, scale, design and implementation factors with the involvement of stakeholders
			CO4	To make the students work on relatively large project for incorporating multidisciplinary domains in the projects for consideration of the same.
43	21AR3247	Architecture Design Studio - VI	CO1	To expose the students to the challenges of designing functionally complicated buildings, having a complex array of activities and services
			CO2	To Design a functionally complex Building (Medium Rise Structure)
			CO3	To familiarise the students to the task of coordinating integration of structural design and specialised building services in the framework of architectural design
			CO4	To make students understand advanced construction technology and newer building materials
			CO5	To Design a functionally complex Building (High Rise Structure)
44	21AR3221A	Appropriate Construction Technologies	CO1	Familiarity with the alternative building materials, applying cost effective materials and techniques to resolve environmental issues
			CO2	Familiarity with the indigenous construction materials and techniques for building resilience and disaster mitigation
			CO3	Familiarity with the material and techniques for energy efficient building construction
			CO4	Introduction to Building Information Modelling and application of the same in modern construction industry
45	21AR3221B	Sustainable Architecture- II	CO1	To understand the importance of energy efficiency in buildings and strategies involved.
			CO2	To understand the importance of relevance of water in built environment
			CO3	Introduction to green rating systems and building codes



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			CO4	Introduction to simulation and analysis software
46	20BB32C1	Human Resource Management	CO 1	Integrated perspective on role of HRM in modern business. Ability to plan human resources and implement techniques of job design
			CO 2	Competency to recruit, train, and appraise the performance of employees
			CO 3	Rational design of compensation and salary administration
			CO4	Ability to handle employee issues and evaluate the new trends in HRM
47	20BB32C3	Innovation And Entrepreneurships	CO 1	Explain and apply the key terms, definitions, and concepts used in the study of Innovation and Entrepreneurship Development
			CO 2	Demonstrate how as an entrepreneur he can use the concepts of Innovation, to create new product , services and business processes
			CO 3	Construct a well-structured business plan by including all the necessary elements of the business plan
			CO4	Demonstrate how as an entrepreneur he can use the concepts of Entrepreneurship, to develop a new entrepreneurial organization
48	21AR4123	Building Services - IV	CO 1	To gain knowledge about different Building Automation Systems and Controls
			CO 2	To gain knowledge about different Communication and Security Systems
			CO 3	To gain knowledge on the various intelligent systems in Vertical Transportation
			CO 4	Ability to integrate the advanced services in Buildings
49	21AR4149	Advanced Building Techniques	CO1	Familiarity with the advanced construction techniques in RCC and their adoptability to architecture.
			CO2	Understand and apply various pre-engineered Concrete structures, adaptation in large span structures, pre-engineered Steel structures, adaptation in steel frames/space frames and their components.



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			CO3	Understand and apply different aspects and technologies involved in the construction of High-rise buildings
			CO4	Introduction to advanced building materials and their application in the contemporary architectural practice
50	21AR4122	Housing	CO1	To Understand housing and Housing issues
			CO2	To Understand Housing, 5 year plans specific to housing
			CO3	To Understand Critical Sources of Finance
			CO4	To Understand Planning – Physical, Administration, Socio-Cultural, Sustainable, Financial, Future forecasts and Trends
51	21AR4150	Architecture Design Studio - Vii	CO1	To memorize anthropometry, circulation patterns, importance of services and building techniques
			CO2	To understand and apply the integration of services into intelligent sustainable building case study
			CO3	To Create and design spatial planning and functionality in Low Rise – High Density Project.(Project 1)
			CO4	To analyze the spaces, connectivity and the standards of sustainable and service intensive building. Case study
			CO5	To create design of a sustainable service integrated intelligent green building in High Rise – High Density Project. (Project 2)
52	21AR4124A	Architectural Conservation	CO1	To make students understand about the basics of Conservation in India.
			CO2	To Study the Conservation Practices.
			CO3	To explain the importance & analysis of Urban Conservation
			CO4	To Discuss about Conservation planning & Adaptive Conservation.
53	21AR4124B	Set Design	CO1	To Understand the Background writing and Concept creation for PLAY.



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			CO2	To Study the Technology and concepts involved in Film set design.
			CO3	To study and making of Background set to resemble the feature, Variation nasality in Lay outing Set
			CO4	To Produce a Mock model on Concept allotted and study Lighting and prop Installations.
54	21AR4148	Working Drawing-1	CO1	To introduce Working drawings and their significance in the construction of buildings.
			CO2	To teach students the essential components of working drawings, notations, drawing standards,
			CO3	To strengthen the students' knowledge about preparing working drawings for various building elements.
			CO4	To Improve the construction details knowledge
55	21AR4226	Building Construction And Management	CO1	To understand the Objectives and Methods of project Management System
			CO2	To understand various Tools and Techniques to facilitate efficient Management of Projects
			CO3	To Analyze Project cost model and steps involved in cost optimization
			CO4	To Applying Scientific Evaluation Techniques to Manage Project Durations and resources with Examples
56	21AR4252	Dissertation	CO1	To understand the importance of reasoning
			CO2	To select the topic which may eventually culminate in the Architectural Design Thesis in the subsequent semester.
			CO3	To select and apply the concept of reasoning to the chosen topic
			CO4	To analyze the spaces, connectivity and the standards of sustainable and service intensive building. Case study
			CO5	To write a report on the research done in the topic with appropriate studies.
57	21AR4225	Urban Design Theory	CO1	To memorize Urban Design terminologies
			CO2	To understand Users and Activities in a city
			CO3	To understand Public spaces, streets & Transport
			CO4	To understand Application of Urban Design



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58	21AR4253	Urban Design Studio	CO1	To memorize anthropometry, circulation patterns, importance of services and building techniques
			CO2	To understand and apply the integration of services into intelligent sustainable building case study
			CO3	To Create and design spatial planning and functionality in Low Rise – High Density Project.(Project 1)
			CO4	To analyze the spaces, connectivity and the standards of sustainable and service intensive building. Case study
			CO5	To create design of a sustainable service integrated intelligent green building in High Rise – High Density Project. (Project 2)
59	21AR4251	Working Drawing-II	CO1	To train the students to prepare detailed Working drawings for effective execution at construction site.,
			CO2	To teach students the essential components of working drawings, notations, drawing standards,
			CO3	To preparation of integrated services drawings, and detailing for various types of drawings and methods of transmittals and record keeping.
			CO4	To update the latest materials knowledge with specifications
60	21AR4227A	Behavioral Architecture	CO1	To study the activity related to Age groups in public place planning.
			CO2	To Understand the Behavioral Interface & Building systems in relation to this.
			CO3	To Understand the Behavioral Design process and execution to create evaluation methods.
			CO4	To study and Understand the Influence Behavioral Architecture on Urban Environment.
61	21AR4227B	Disaster Mitigation And Management	CO1	To Understand the necessity for disaster management and measures that are to be followed.
			CO2	To Study the Disaster preparedness and Involving Design Considerations for buildings
			CO3	To study the Design considerations for Disaster management and precautions.
			CO4	To Understand the Relief & Rehabilitation for Disasters
62	21AR5154	Practical Training	CO1	To expose students to the daily realities of an architectural practice through Practical Training
			CO2	To facilitate an understanding of the evolution of an



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				architectural project from design to execution.
			CO3	To enable an orientation that would include the process of development of conceptual ideas, presentation skills.
			CO4	Involvement in office discussions, client meetings, development of the concepts into working drawings, tendering procedure.
			CO5	Site supervision during execution and coordination with the agencies involved in the construction process.
63	21AR5228	Architectural Professional Practice	CO1	To expose students to the daily realities of an architectural practice through Practical Training
			CO2	To facilitate an understanding of the evolution of an architectural project from design to execution.
			CO3	To enable an orientation that would include the process of development of conceptual ideas, presentation skills.
			CO4	Involvement in office discussions, client meetings, development of the concepts into working drawings, tendering procedure.
64	21AR5255	Architectural Thesis	CO1-CO5	Culmination of the development of the student's knowledge, attitudes and skills over the course of studies in architecture.

Academic Professor I/C

HOD-Architecture

Ar. Vidya Sagar Reddy.G
HOD-ARCH, KLEF.