



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: 2019-2020

SN o	Course Code	Course Title	CO NO	Description of the Course Outcome
1	19AR1101	Climatology	CO1	An understanding of elements of climate, ability to read their measurements, human comfort and human body heat balance.
			CO2	Understanding thermal comfort factors and principles of heat transfer.
			CO3	Understanding sun path diagrams and air movement for design of fenestration and shading devices.
			CO4	Understanding climate responsive architecture through case studies.
2	19AR1103	Building Materials - I	CO1	Understanding of the building materials Soils and Lime
			CO2	Understanding of the building materials Bamboo.
			CO3	Understanding of the building materials Timber
			CO4	Understanding of the building materials Straw bales.
3	19AR1204	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
4	19AR1206	Building	CO1	Understanding of the building materials - Cement and RCC.



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		Materials - Ii	CO2	Understanding of the building material - Steel.
			CO3	Understanding of the building material - Glass.
			CO4	Understanding of the building material - Paints.
5	19AR2107	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
6	19AR2210	Designo Structres - I	CO1	Design the structural components timber and their general behavior with reference to code provisions, Madras roof terrace.
			CO2	Design of bolted and welded connections
			CO3	Design the tension members
			CO4	Design the compression members, Design of steel beams - laterally supported
7	19AR2211	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.
8	19AR3114	Design Of Structures - Ii	CO1	Understanding Concept of Elastic method, Ultimate Load Method and Limit State Method, Analysis and Design of beams by WSM
			CO2	Analysis & design of beams – Design of Continuous beams by LSM
			CO3	Understanding Behaviour and design of one way and two-way slabs by LSM
			CO4	Understanding Design of circular slabs, Design of staircase by limit state method (LSM)
9	19AR3115	Building	CO1	Study of electricity, installations, wiring and principles of

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(Signature)

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		Services - Ii		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
10	19AR3219	Building Services - Iii	CO1	Familiarity with different air conditioning systems, their context of use and basics of planning involved.
			CO2	An understanding of fire safety, firefighting, fire prevention and installations in buildings.
			CO3	An understanding of mechanical transportation systems in a building and their design requirements.
			CO4	Ability to integrate services in buildings.
11	19AR4123	Building Services - Iv	CO1	To gain knowledge about different Building Automation Systems and Controls
			CO2	To gain knowledge about different Communication and Security Systems
			CO3	To gain knowledge on the various intelligent systems in Vertical Transportation
			CO4	Ability to integrate the advanced services in Buildings
12	19AR2137	Building Constructi on - 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
13	19AR2240	Building Constructi on - 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

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			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
14	19AR3143	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 non structural 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.
15	19AR3246	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.
16	19UC0009	Ecology And Environment	CO1	Understand the importance of Environmental education and conservation of natural resources.
			CO2	Understand the importance of ecosystems and biodiversity.
			CO3	Apply the environmental science knowledge on solid waste management, disaster management and EIA process.
17	19AR4149	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.
			CO3	Understand and apply different aspects and technologies involved in the construction of High-rise buildings

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			CO4	Introduction to advanced building materials and their application in the contemporary architectural practice
18	19AR4226	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
19	19AR5228	Architecture 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.
20	19AR4252	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.
21	19AR5154	Practical Training / Internship	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,



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				tendering procedure.
			CO5	Site supervision during execution and coordination with the agencies involved in the construction process.
22	19AR1102	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
23	19AR1205	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
24	19AR2108	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
25	19AR2212	Site Analysis	CO1	To make students understand about the basics of site, its measuring and drawing methodologies.



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		And Planning	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.
26	19AR3218	Estimation ,Costing Specificati on	CO1	An understanding of data required and methods of estimation
			CO2	Ability to estimate various quantities using different methods
			CO3	An understanding of the types of estimates and costing
			CO4	Knowledge of various specifications and terminology used
27	19AR3220	Human Settlement s 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
28	19AR4122	Housing	CO1	Understand housing and Housing issues
			CO2	Understand Housing, 5 year plans specific to housing
			CO3	Understand Critical Sources of Finance
			CO4	Understand Planning – Physical, Administration, Socio-Cultural, Sustainable, Financial, Future forecasts, and Trends
29	19AR4225	Urban Design	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
30	19AR1130	Architectu ral 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



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			CO4	To Understand the representation of a building in plan, elevation & sections. To Understand the Preparation of Simple Measure Drawing
31	19AR1131	Architectural Design Studio -I (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.
32	19AR1232	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. To know different materials and apply the acquired knowledge and create a model Independently by choosing appropriate material and techniques.
33	19AR1233	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
34	19AR1234	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.
			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.
			CO3	To make student to derive concepts, schematic preliminary design, and final design presentation of a Shop front for a given context.

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			CO4	To make student to remember anthropometric data, conduct desktop/case study and understand collected data towards framing parameters for Coffee Shop design.
35	19AR2138	Architectu ral Design Studio -III	CO1	To understand and analyze the use, the spaces and the concepts of residential activities.
			CO2	To design a small-scale residential project
			CO3	To understand and analyze the spaces, connectivity, and the standards of Institution buildings. To design an institution-oriented building
			CO4	Time Problem design with minimal design agenda
36	19AR2241	Architectu ral 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) To document the observations and compile the analysis for presentation – Project 3
37	19AR3144	Architectu ral Design Studio -V	CO1	To understand and analyze the use, the spaces, and the concepts of different homes for the disabled
			CO2	To design a Social oriented building –A Home for physically and mentally challenged- Project1
			CO3	To understand and analyze the spaces, connectivity, and the standards of Institution buildings.
			CO4	To design an institution-oriented building – School of Architecture- Project 2 Time Problem - To design an Art center / Museum
38	19AR3118A	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.

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39	19AR3245	Landscape Design Studio	CO1	To develop an understanding about space design at local level
			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.
40	19AR3247	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
			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
				To Design a functionally complex Building (High Rise Structure)
41	19AR4150	Architectural 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.
				To create design of a sustainable service integrated intelligent green building in High Rise – High Density Project. (Project 2)
42	19AR4253	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



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			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
				To create design of a sustainable service integrated intelligent green building in High Rise – High Density Project. (Project 2)
43	19AR5255	Architectural Thesis	CO1	Culmination of the development of the student's knowledge, attitudes, and skills over the course of studies in architecture.
			CO2	Culmination of the development of the student's knowledge, attitudes, and skills over the course of studies in architecture.
			CO3	Culmination of the development of the student's knowledge, attitudes, and skills over the course of studies in architecture.
			CO4	Culmination of the development of the student's knowledge, attitudes, and skills over the course of studies in architecture.
			CO5	Culmination of the development of the student's knowledge, attitudes, and skills over the course of studies in architecture.
44	19AR2213	Contemporary Indian Architecture	CO1	Understand the Evolution of Dwellings as base of Traditional and Vernacular styles of India
			CO2	Understand the Architecture and Planning of various Cities during Medieval Age
			CO3	Understand the Culture and Built Forms in Pre – Independence (Colonial Rule) and Post-Independence of India
			CO4	Understand the Culture and Built forms in Post-Independence Era
45	19AR3116	Contemporary Western Architecture	CO1	Understand Cubism & Constructivism along with various Building styles of Early Modern Architects.
			CO2	Understand Post Modernism and International Style along with Ideas and Works of Various Architects of that time.
			CO3	Understand Critical Regionalism and other alternative practices along with Ideas and Works of Various Architects of that time.
			CO4	Understand Deconstructivism along with Forms, Ideas and Concepts followed by Various Architects in their works.



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46	19AR3117A	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.
47	19AR3117B	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 environment
			CO4	To understand the importance of site planning and energy efficient landscaping as an important tool in sustainable architecture
48	19AR3221A	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
49	19AR3221B	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
			CO4	Introduction to simulation and analysis software
50	19AR4124A	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



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			CO4	To Discuss about Conservation planning & Adaptive Conservation.
51	19AR4124B	Set Design	CO1	To Understand the Background writing and Concept creation for PLAY.
			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.
52	19AR4227A	Behavioural Architecture	CO1	To study the activity related to Age groups in public place planning.
			CO2	To Understand the Behavioural Interface & Building systems in relation to this.
			CO3	To Understand the Behavioural Design process and execution to create evaluation methods.
			CO4	To study and Understand the Influence Behavioural Architecture on Urban Environment.
53	19AR4227B	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
54	19AR1129	Art and Visual Graphic Studio	CO1	Understand the Principles of Drawing.
			CO2	Understand the Types, Properties and Application of Colors.
			CO3	Understand the Painting Variations.
			CO4	Understand the Techniques of Sculpturing.
55	19AR2135	Surveying and Levelling	CO1	Understanding Surveying using Chain and Compass.
			CO2	Understanding Surveying using Dumpy Level and Theodolite.



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			CO3	Understanding Surveying using Total Station and Alidade.
			CO4	Applying survey practices in field
56	19AR2136	Computer Studio - I	CO1	To understand the basics of computer system and their supporting technologies.
			CO2	To create documentation reports, analysis reports; and audio-visual presentations.
			CO3	To reciprocate the tools of 2D visualization to create architectural drawings.
			CO4	To create layouts, plot/print to scale drawings, design and edit 2D graphic images.
57	19AR2239	Computer Studio - II	CO1	To understand interface, workspace, and utilization of tools of 3D modeling software apply the required tools and components in building a 3D model.
			CO2	To create documentation reports, analysis reports; and audio-visual presentations.
			CO3	To understand, visualize the space and apply the tools of BIM software, identify the need of tools of BIM software.
			CO4	To create a detailed 3D model by working in collaboration by application of advanced tools
58	19AR4148	Working Drawing - I	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
59	19AR4251	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	19UC1101	Basic English	CO1	Understand the concepts of grammar to improve communication, reading, and writing skills
			CO2	Demonstrate required knowledge over Dos and Don'ts of



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				speaking in the corporate context .Demonstrate ability to face formal situations /interactions.
			CO3	Understandthevarietiesofreadingandcomprehendthetoneandstyleofthe author. Skim and scan effectively and appreciate rhetorical devices
			CO4	Apply the concepts of writing to draft corporate letters, emails, and memos
61	22UC1202	English Proficiency	CO1	ApplytheconceptsofaccurateEnglishwhilewritingandbecomeequallyateaseinusinggoodvocabularyandlanguageskills.
			CO2	Understand the importance of professional writing and apply the same in day to day usage.
			CO3	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.
			CO4	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.
62	19UC0008	Constitution Of India	CO1	To understand the preamble of constitution & Fundamental Rights of Indians.
			CO2	To Study RTI act, Directive principles to state Policy.
			CO3	To Understand the roles and Functions of Authorities
			CO4	To discuss the Amendment acts and Powers.
63	19UC0010	Universal Human Values & Professional Ethics	CO1	To gain knowledge about value education
			CO2	To gain knowledge about harmony in human being, family and society
			CO3	To gain knowledge on the harmony in nature



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			CO4	To gain knowledge on th implications of the right understanding
64	19BB32C1	Human Resource Management	CO1	Integrated perspective on role of HRM in modern business. Ability to plan human resources and implement techniques of job design
			CO2	Competency to recruit, train, and appraise the performance of employees
			CO3	Rational design of compensation and salary administration
			CO4	Ability to handle employee issues and evaluate the new trends in HRM

Academic Professor I/C

HOD-Architecture

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