

(Category -1, Deemed to be University esta. 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

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

Academic year 2019-20

| S. No | Course | Course Title | CON | Description of the Course Outcome | | | | | Pro | ogr | am | Out | come | es | | PS | O |
|-------|----------|-----------------------------|------|---|---|---|---|---|-----|-----|----|-----|------|----|----|----|---|
| | Code | | 0 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 9 | 10 | 11 | 12 | 1 | 2 |
| 1 | 19AR1101 | Climatology | (()) | 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 |
| 2 | 19AR1103 | 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 | | | | | |
| | | | CO4 | Understanding of the building materials Lime. | | | 3 | | | 3 | | 3 | | | | | |
| 3 | 19AR1204 | 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 | | | | | | | |



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| | Code | | ο | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 89 | 10 | 11 | 12 | 1 | 2 |
| | | | CO4 | Analyzing the columns using Euler's theory and Rankine formulae. | | | | | | | | 3 | 3 | | | | |
| 4 | 19AR1206 | 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 | 19AR2107 | Mechanics of Structures - II | C01 | 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 | | | | | |
| | | | (0) | Analyzing indeterminate beams and plotting shear force and bending moment diagrams | | | | | | 3 | | 3 | | | | | 3 |
| | | | CO4 | Understanding the theory of simple bending | | | | | | | | 3 | | | | | 3 |
| 6 | 19AR2210 | 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 | | | | | | | | | | |



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| | Code | | 0 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 9 | 10 | 11 | 12 | 1 | 2 |
| 7 | 19AR2211 | Building Services - I | CO1 | To know about the water treatment, distribution and wastewater treatment methods & disposal. | | | | | | | 1 | | | | | | |
| | | | 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 | | | | | |
| | | | | To understand the use and installation of various plumbing fixtures and to know the sewerage systems for sanitary conveyance. | | | | | | | | 3 | | | | | 3 |
| 8 | 19AR3114 | 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 | ; | | | | |
| | | | СОЗ | Developing the design of reinforced concrete columns | | | | | | | | 3 3 | ; | | | | |
| | | | CO4 | Developing the design of reinforced concrete slabs | | | | | | | | 3 | ; | | | | |
| 9 | 19AR3115 | Building Services - II | (1) | Study of electricity, installations, wiring and principles of distribution and safety | 2 | | | 2 | | | | | | | | | |
| | | | CO_2 | Know the application artificial illumination, and lighting design for various spaces | | | | | | 2 | | | 2 | | | | |
| | | | () | Knowledge of air conditioning and ventilation principles evaluate electrical layouts | | | 2 | | | | | ź | | | | | |
| | | | CO- | Understanding properties of sound and Architectural acoustics, and analyzing acoustic concepts and design, learning how to | | | 2 | | | | | 2 | | | | | |



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|-------|----------|---------------------------|------|---|---|---|---|---|-----|-----|----|-----|-----|----|----|----|---|
| | Code | | 0 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 89 | 10 | 11 | 12 | 1 | 2 |
| | | | | create acoustic and lighting designs to different building types – Studio work | | | | | | | | | | | | | |
| 10 | 19AR3219 | Building Services - III | C()1 | Familiarity with different air conditioning systems, their context of use and basics of planning involved. | 2 | 2 | | | | | | | | | | | |
| | | | | An understanding of fire safety, firefighting, fire prevention and installations in buildings. | 2 | 2 | | | | | | | | | | | |
| | | | (()3 | An understanding of mechanical transportation systems in a building and their design requirements. | 2 | 2 | | | | | | | | | | | |
| | | | CO4 | Ability to integrate services in buildings. | | | 3 | 3 | | | | | | | | | 3 |
| 11 | 19AR4123 | Building Services - IV | CO1 | To gain knowledge about different Building Automation Systems and Controls | 2 | 2 | | | | | | | | | | | |
| | | | CO2 | To gain knowledge about different Communication and Security Systems | 2 | 2 | | | | | | | | | | | |
| | | | CO3 | To gain knowledge on the various intelligent systems in Vertical Transportation | 2 | 2 | | | | | | | | | | | |
| | | | CO4 | Ability to integrate the advanced services in Buildings | | | 3 | 3 | | | | | | | | | 3 |
| 12 | 19AR2137 | Building Construction - I | CO1 | It is required that students should understand materials used in the building, method of construction and application | | | | | | 2 | 2 | 2 | | | | | |



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|-------|----------|-----------------------------|-----|---|---|---|---|---|-----|------|-----|-----|------|----|----|----|---|
| | Code | | 0 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 8 | 3 9 | 10 | 11 | 12 | 1 | 2 |
| | | | | To understand the components of building and nuances of drawing plan, Elevation, and section along with relevant sketches and details showing method of construction | 5 | | | | | 2 | 2 | | 2 | | | | |
| | | | CO3 | To understand, analyze the application and different arrangement styles of building materials | | | | | | | 3 3 | 3 | | | | 3 | |
| | | | | Students should be able to analyze the different construction methods and details of contemporary and traditional work method demonstrate the techniques through study models | | | | 3 | | | 3 | 3 | | | | | 3 |
| 13 | 19AR2240 | Building Construction - II | CO1 | To understand the construction of doors and windows in accordance with the type of usage | 2 | | 2 | | | | | | | | | | 2 |
| | | | CO2 | To understand the uses of wooden trusses and staircases in construction industry/practice | 2 | | 2 | | | | | | | | | | 2 |
| | | | CO3 | To understand the installation of paneling, soundproof and light weight partitions | | | 3 | 3 | | | | | | | | | 3 |
| | | | CO4 | To understand the techniques of bamboo constructions and the construction techniques of wall and kitchen cabinets | | | 3 | | 3 | | | 3 | | | | | 3 |
| 14 | 19AR3143 | 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 |



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| | Code | | 0 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 10 | כ | 11 | 12 | 1 | 2 |
| | | | СОЗ | 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 |
| 15 | 19AR3246 | 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 | 3 | | | | | |
| 16 | 19AR4149 | Advanced Building Techniques | | | | | 1 | | | 2 | 1 | 2 | 2 | | | 2 | | |
| 17 | 19UC0008 | Indian Constitution | CO1 | To understand the preamble of constitution & Fundamental Rights of Indians. | | | | | | | | | 2 | | | | | |
| | | | CO2 | To Study RTI act, Directive principles to state Policy. | | | 2 | | | | | | | | | | | |
| | | | CO3 | To Understand the roles and Functions of Authorities | | | 2 | | | | | | | | | | | |
| | | | CO4 | To discuss the Amendment acts and Powers. | | | | 2 | | | | | | | | | | |
| 18 | 19UC0009 | Ecology & Environment | CO1 | Understand the importance of Environmental education and conservation of natural resources. | | | | | | 2 | | | | | | | | |
| | | | CO2 | Understand the importance of ecosystems and biodiversity. | | | | | | | | | | | | 1 | | |



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| | Code | | 0 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 9 | 9 1 | 10 | 11 | 12 | 1 | 2 |
| | | | CO3 | Apply the environmental science knowledge on solid waste management, disaster management and EIA process. | | | | | | 2 | | | | | | | | |
| 19 | 19AR4226 | 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 | | | | | | |
| 20 | 19AR5228 | Architecture Professional Practice | | To expose students to the daily realities of an architectural practice through Practical Training | | | | | | | 2 | 1 | | | | | | |
| | | | | To facilitate an understanding of the evolution of an architectural project from design to execution. | | | 1 | | | | | - | 1 | | | | | |
| | | | | To enable an orientation that would include the process of development of conceptual ideas, presentation skills. | | | | | | | 2 | 1 | 2 | | | | | |
| | | | | Involvement in office discussions, client meetings, development of the concepts into working drawings, tendering procedure. | | | | | | | | | | 1 | | | | |
| 21 | 19AR4252 | Dissertation | CO1 | To understand the importance of reasoning | | | | | | | 3 | 3 | | | | | | |



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| | Code | | 0 | | 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 | | | | | | |
| 22 | 19AR5154 | 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 | | | | |
| | | | CO5 | Site supervision during execution and coordination with the agencies involved in the construction process. | | | | | 2 | 3 | 3 | | | | | | |
| 23 | 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. | | | 3 | | | 2 | 2 | | | | | | 2 |



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| | Code | | 0 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 9 | 10 | 1 | 11 | 12 | 1 | 2 |
| | | | CO2 | Understand the Architecture and Planning of Ancient River Valley Civilizations | | | 3 | 1 | | | | | | | | | | 2 |
| | | | | Understand the Culture and its influence on Architecture in Ancient Greece and Ancient Romeand its impact on Western Architecture | | | 3 | | | | 2 | | | | | | | |
| | | | CO4 | To study the Built forms in Ancient Greece and Ancient Roman Empire and its monumental Urban Architecture | | | 3 | | | 1 | | | 1 | | | | | 2 |
| 24 | 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. | 2 | | 3 | | | | | | | | | | | 2 |
| | | | | To understand Hindu forms of worship, concept, symbolism and to get knowledge on the metaphysical plan of Temple Architecture | 2 | | | | 2 | | | | | | | | | 2 |
| | | | СОЗ | 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 |
| 25 | 19AR2108 | 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 |



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| | Code | | 0 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 9 | 10 | 11 | 12 | 1 | 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 |
| | | | | Study of Architectural developments during Mughal Dynasty, Study of cross culture influence and evolution of secular architecture in princely states | | | 3 | | 2 | | | | | | | | 2 |
| 26 | 19AR2212 | Site Analysis and Planning | CO1 | To make students understand about the basics of site, it's measuring and drawing methodologies. | | | | | | | | 1 | | | | | |
| | | | CO2 | To explain the importance of analysis of a site required in architectural design and building construction. | | | 2 | | | | | | | | | | |
| | | | CO3 | To make students understand the context of the site with respective to the surrounding land use typology. | | | 2 | | | | | | | | | | |
| | | | CO4 | To discuss about the site planning techniques and layout principles to be followed prior to site designing. | | | | 1 | | | | | | | | | |
| 27 | 19AR3218 | Specification, Estimation and | CO1 | An understanding of data required and methods of estimation | 2 | | | | | | | | | | | | |
| | | Costing | CO2 | Ability to estimate various quantities using different methods | | | 1 | | | | | | | | | | |
| | | | CO3 | An understanding of the types of estimates and costing | 2 | | 2 | | | | | | | | | | |
| | | | CO4 | Knowledge of various specifications and terminology used | | | | | | | 1 | 1 | | | | | |



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| | Code | | 0 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 89 | 10 | 11 | 12 | 1 | 2 |
| 28 | 19AR3220 | Human Settlements and Planning | CO1 | Understand the various elements of Human Settlements and the classification of Human Settlements. | | 1 | | | | | | | | | | | |
| | | | 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 | | | | | |
| 29 | 19AR4122 | 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 | | | | | | | | | |
| 30 | 19AR4225 | Urban Design | CO1 | To memorize Urban Design terminologies | | 3 | 3 | | | | | | 1 | | | 1 | |
| | | | 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 | | | | | |
| 31 | 19AR1152 | Architectural Drawing - I | CO1 | To Understand the Fundamentals of Drawing and Drafting | 1 | | 2 | | | | | | | | | | 2 |



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| | Code | | 0 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 89 | 10 | 11 | 12 | 1 | 2 |
| | | | CO2 | To Understand the Construction and Development of Surfaces for various Basic 3D Shapes. | 1 | | | | 2 | | | | | | | | 2 |
| | | | СОЗ | 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 §ions. To Understand the Preparation of Simple Measure Drawing | | | 2 | | 2 | | | | | | | | 2 |
| 32 | 19AR1254 | 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 | | | | | |
| | | | CO4 | To know different materials and apply the acquired knowledge and create a model Independently by choosing appropriate material and techniques. | | | | | | | 2 | | | | | | |
| 33 | 19AR1256 | 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 | | | | |
| | | | СОЗ | To Understand identification and measuring of specific Architectural Details of Historically significant Buildings. | | | | | | | 2 | | 2 | | | | |



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| | Code | | 0 | | 1 | 2 | 3 4 | 4 | 5 | 6 | 7 | 8 9 | 10 | 11 | 12 | 1 | 2 |
| | | | CO4 | To understand the presentation techniques of drawings | 2 | | | | | | 2 | | | | | | |
| 34 | 19AR1131 | Architectural Design Studio -I (Basic Design) | () | An understanding of the qualities of different elements as well as their composite fusions | 2 | | 2 | | | | | | | | | | 3 |
| | | | 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 | 2 | | | | 3 | | | | | | | | 3 |
| | | | соз | Development of required skills – observation / analysis / abstractions / interpretation / representations / expressions through models and drawings. | | | 3 3 | 3 | | | | | | | | | 3 |
| | | | 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. | | | 2 | | 2 | | | | | | | | 2 |
| 35 | 19AR1234 | Architectural Design Studio -II | | To make student to remember anthropometric data, conduct desktop/case study and understand collected data towards framing parameters for Bed room design. | | 2 | | 2 | | | | | 2 | | | 2 | |
| | | | | 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. | | 3 | | | | | | | | | | | 3 |
| | | | соз | To make student to derive concepts, schematic preliminary design, and final design presentation of a Shop front for a given context. | | 3 | | | | | | | 3 | | | | 3 |



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| | Code | | 0 | | 1 | 2 | 3 4 | 1 5 | 6 | 5 | 78 | 9 | 10 | 11 | 12 | 1 | 2 |
| | | | | 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 | |
| 36 | 19AR2138 | 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 | |
| | | | | 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 |
| 37 | 19AR2241 | Architectural Design Studio -IV | CO1 | To memorize anthropometry, circulation patterns, standards various facilities to be provided. | | 2 | | 2 | | | | | 2 | | | 2 | |
| | | | CO2 | To create and design spatial planning, circulation, and functionally good community oriented open spaces – Project 1 | | 3 | : | 3 | | | | 3 | | | | | |
| | | | СОЗ | To create and design functional and activity-oriented community spaces- Project 2 | | 3 | 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 |



| S. No | Course | Course Title | CON | Description of the Course Outcome | | | | | Pro | ogra | am | Out | com | es | | P | SO |
|-------|----------|--------------------------------|---------|--|---|---|---|---|-----|------|----|-----|-----|----|----|-----|----|
| | Code | | ο | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 89 | 10 | 11 | 12 | . 1 | 2 |
| 38 | 19AR3144 | 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- Project1 | | 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 ofArchitecture- Project 2 Time Problem - To design an Art center / Museum | | 3 | | | | | | | 3 | | | | 3 |
| 39 | 19AR3142 | 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 |
| | | | 1.1.1.5 | Apply the skills in Planning of residential spaces with material usage understanding | | | 3 | 3 | | | | | | | | | 3 |
| | | | (.)4 | Study and apply anthropometry in hospitality related environment. | | | 3 | | 3 | | | | | | | | 3 |
| 40 | 19AR3245 | Landscape Design Studio | CO1 | To develop an understanding about space design at local level | | | | | | 2 | 2 | 2 | | | | | |



(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 | Course Title | CON | Description of the Course Outcome | | | | | Pro | gra | am | Out | come | es | | P: | SO |
|-------|----------|----------------------------------|-----|--|---|---|---|---|-----|-----|----|-----|------|----|----|----|----|
| | Code | | ο | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 9 | 10 | 11 | 12 | 1 | 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 | | | | | |
| | | | соз | To make the students understand the area, scale, design, and implementation factors with the involvement of stakeholders | | | | | | | 2 | 2 | | | | | |
| | | | | 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 | | | | | |
| 41 | 19AR3247 | Architectural Design Studio -VI | | 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 | |
| | | | | 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 |
| 42 | 19AR4150 | Architectural Design Studio -VII | C01 | To memorize anthropometry, circulation patterns, importance of services and building techniques | | 2 | | 2 | | | | | 2 | | | 2 | |



| S. No | Course | Course Title | CON | Description of the Course Outcome | | | | | Pro | ogr | am | Ou | tcon | nes | 5 | | PS | D |
|-------|----------|----------------------|-----|--|---|---|---|---|-----|-----|----|-----|------|-----|----|----|----|---|
| | Code | | 0 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 9 | 10 | ו | 11 | 12 | 1 | 2 |
| | | | CO2 | To understand and apply the integration of services into intelligent sustainable building case study | | 3 | | 3 | | | | 3 | ; | | | | | |
| | | | СОЗ | To Create and design spatial planning and functionality in Low Rise – High Density Project. (Project 1) | | 3 | | 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 | | | | 3 |
| 43 | 19AR4253 | 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 | | | | | ź | 2 | | | | | |
| | | | соз | Create High Density Urban facility as a solution to the Urban area problems, Current issues. (Project-1) | | | | | | 3 | 3 | 3 | | | | | | |
| | | | | Analyze the spaces, Transformation according lifestyle changes in Urban population, connectivity, and the standards of sustainable and service intensive building. Case study. Create design of a sustainable service integrated intelligent green building High Density Project. (Project 2) | | | | | | 3 | 3 | 3 | 3 | 3 | | | | |
| 44 | 19AR5255 | Architectural Thesis | CO1 | Culmination of the development of the student's knowledge, attitudes, and skills over the course of studies in architecture. | | | | | | | 3 | 3 | | | | | | |
| | | | CO2 | Culmination of the development of the student's knowledge, attitudes, and skills over the course of studies in architecture. | | | | | | | 3 | 3 | | | | | | |



| S. No | Course | Course Title | CON | Description of the Course Outcome | | | | | Pro | ogr | am | Ou | tco | me | s | | PS | O |
|-------|----------|--------------------------------------|-----|--|---|---|---|---|-----|-----|----|----|-----|----|----|----|----|---|
| | Code | | 0 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 1 | .0 | 11 | 12 | 1 | 2 |
| | | | CO3 | Culmination of the development of the student's knowledge, attitudes, and skills over the course of studies in architecture. | | | | | | | 3 | 3 | | | | | | |
| | | | CO4 | Culmination of the development of the student's knowledge, attitudes, and skills over the course of studies in architecture. | | | | | | | 3 | 3 | | | | | | |
| | | | | Culmination of the development of the student's knowledge, attitudes, and skills over the course of studies in architecture. | | | | | | | 3 | 3 | | | | | | |
| 45 | 19AR2213 | Contemporary Indian Architecture | 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 Medieval Age | 2 | | | | 2 | | | | | | | | | |
| | | | CO3 | Understand the Culture and Built Forms in Pre – Independence (Colonial Rule) and Post-Independence of India | | | 2 | 2 | | | | | | | | | | |
| | | | CO4 | Understand the Theories of current Architect practices and their applicability in meeting present day Needs | | | 2 | | 2 | | | | | | | | | |
| 46 | 19AR3116 | Contemporary Western Architecture | CO1 | Understand Cubism & Constructivism along with various Building styles of Early Modern Architects. | 2 | | 2 | | | | | | | | | | | |
| | | | CO2 | Understand Post Modernism and International Style along with Ideas and Works of Various Architects of that time. | 2 | | | | 2 | | | | | | | | | |
| | | | CO3 | Understand Critical Regionalism and other alternative practices along with Ideas and Works of Various Architects of that time. | | | 2 | 2 | | | | | | | | | | |



| S. No | Course | Course Title | CON | Description of the Course Outcome | | | | | Pro | ogra | am | Out | com | es | | PS | ο |
|-------|-----------|--|-----|---|---|---|---|---|-----|------|----|-----|-----|----|----|----|---|
| | Code | | ο | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 89 | 10 | 11 | 12 | 1 | 2 |
| | | | CO4 | Understand Deconstructivism along with Forms, Ideas and Concepts followed by Various Architects in their works. | | | 2 | 2 | | | | | | | | | |
| 47 | 19AR3117A | 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 | | | 2 | | | | |
| | | | CO3 | To Understand the Vernacular Architectural Styles of Southern India. | | | 2 | | | | | 2 | | | | | |
| | | | CO4 | To study and Understand the Influence of Western world on Vernacular Architecture. | | | 2 | | | | | 2 | | | | | |
| 48 | 19AR3117B | Sustainable Architecture - I | CO1 | To understand the concept of green building need for it in today's context | | | | | | | 1 | | | | | | |
| | | | CO2 | To understand the traditional buildings under different climatic zones and the elements in vernacular buildings | | | | | | | | 2 | | | | | |
| | | | CO3 | Understanding the climatic influences on built environment | | | | | | | | 3 | | | | | |
| | | | | To understand the importance of site planning and energy efficient landscaping as an important tool in sustainable architecture | | | | | | | | 3 | | | | | 3 |
| 49 | 19AR3221A | Appropriate Construction Technologies | | | 2 | | | | | 2 | | 2 2 | | | 2 | | |



| S. No | Course | Course Title | CON | Description of the Course Outcome | | | | | Pro | gra | am | Out | come | es | | PS | 0 |
|-------|-----------|-------------------------------|-----|--|---|---|---|-----|-----|-----|-----|-----|------|----|----|----|---|
| | Code | | 0 | | 1 | 2 | 3 | 4 ! | 5 | 6 | 7 8 | 3 9 | 10 | 11 | 12 | 1 | 2 |
| 50 | 19AR3221B | Sustainable Architecture - II | CO1 | To understand the importance of energy efficiency in buildings and strategies involved. | 1 | | | 1 | | | | | | | | 1 | |
| | | | CO2 | To understand the importance of relevance of water in built environment | | | | | | 2 | | | 2 | | | | 2 |
| | | | CO3 | Introduction to green rating systems and building codes | | | 1 | | | | | 2 | | | | | 2 |
| | | | CO4 | Introduction to simulation and analysis software | | | 1 | | | | | 2 | | | | | 2 |
| 51 | 19AR4124A | Architectural Conservation | CO1 | To make students understand about the basics of Conservation in India. | | | | | | | 1 | 2 | | | | | 2 |
| | | | CO2 | To Study the Conservation Practices. | | | 1 | | | | | | | | | 1 | |
| | | | CO3 | To explain the importance & analysis of Urban Conservation | | | 1 | | | | | | | | | 1 | |
| | | | CO4 | To Discuss about Conservation planning & Adaptive Conservation. | | | | 1 | | | | | | | | 1 | |
| 52 | 19AR4124B | Set Design | CO1 | To Understand the Background writing and Concept creation for PLAY. | | | | | | | | 2 | | | | | 2 |
| | | | CO2 | To Study the Technology and concepts involved in Film set design. | | | 1 | | | | | | | | | 1 | |
| | | | СОЗ | To study and making of Background set to resemble the feature, Variation nasality in Lay outing Set | | | 1 | | | | | | | | | 1 | |
| | | | CO4 | To Produce a Mock model on Concept allotted and study Lighting and prop Installations. | | | | 1 | | | | | | | | 1 | |



| S. No | Course | Course Title | CON | Description of the Course Outcome | | | | | Pro | gra | am | Out | come | es | | PS | 0 |
|-------|-----------|---------------------------------------|-----|---|---|---|---|---|-----|-----|-----|-----|------|----|----|----|---|
| | Code | | 0 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 8 | 3 9 | 10 | 11 | 12 | 1 | 2 |
| 53 | 19AR4227A | Behavioral Architecture | CO1 | To study the activity related to Age groups in public place planning. | 1 | | | 1 | | | | | | | | 1 | |
| | | | CO2 | To Understand the Behavioral Interface & Building systems in relation to this. | | | | | : | 2 | | | 2 | | | | 2 |
| | | | CO3 | To Understand the Behavioral Design process and execution to create evaluation methods. | | | 1 | | | | | 2 | | | | | 2 |
| | | | CO4 | To study and Understand the Influence Behavioral Architecture on Urban Environment. | | | 1 | | | | | 2 | | | | | 2 |
| 54 | 19AR4227B | Disaster Mitigation and Management | CO1 | To Understand the necessity for disaster management and measures that are to be followed. | | | | | | | | 2 | | | | | 2 |
| | | | CO2 | To Study the Disaster preparedness and Involving Design Considerations for buildings | | | 1 | | | | | | | | | 1 | |
| | | | CO3 | To study the Design considerations for Disaster management and precautions. | | | 1 | | | | | | | | | 1 | |
| | | | CO4 | To Understand the Relief & Rehabilitation for Disasters | | | | 1 | | | | | | | | 1 | |
| 55 | 19AR1151 | Art and Visual Graphic Studio | CO1 | Understand the Principles of Drawing. | 1 | | | | | | | | 2 | | | | 2 |
| | | | CO2 | Understand the Types, Properties and Application of Colors. | 1 | | | | | | | | 2 | | | | 2 |
| | | | CO3 | Understand the Painting Variations. | 1 | | | | | | | | 2 | | | | 2 |
| | | | CO4 | Understand the Techniques of Sculpturing. | 1 | | | | | | | | 2 | | | | 2 |



| S. No | Course | Course Title | CON | Description of the Course Outcome | | | | I | Prog | gra | m (| Dute | come | es | | PS | 0 |
|-------|----------|-------------------------|-----|--|---|---|---|-----|------|-----|-----|------|------|----|----|----|---|
| | Code | | 0 | | 1 | 2 | 3 | 4 ! | 5 6 | 5 | 7 8 | 9 | 10 | 11 | 12 | 1 | 2 |
| 56 | 19AR2135 | Surveying and Levelling | CO1 | Understanding Surveying using Chain and Compass. | | | | | | | 2 | | | | | | 2 |
| | | | CO2 | Understanding Surveying using Dumpy Level and Theodolite. | | | | | | | 2 | | | | | | 2 |
| | | | CO3 | Understanding Surveying using Total Station and Alidade. | | | | | | | 2 | | | | | | 2 |
| | | | CO4 | Applying survey practices in field | | | | | | | | | 2 | | | | 2 |
| 57 | 19AR2136 | Computer Studio - I | CO1 | To understand the basics of computer system and their supporting technologies. | 1 | 1 | | | | | | | | | | | 1 |
| | | | CO2 | To create documentation reports, analysis reports; and audio- visual presentations. | 1 | 1 | | | | | | | | | | | 1 |
| | | | СОЗ | To reciprocate the tools of 2D visualization to create architectural drawings. | 1 | 1 | | | | | | | | | | | 1 |
| | | | CO4 | To create layouts, plot/print to scale drawings, design and edit 2D graphic images. | 1 | 1 | | | | | | | | | | | 1 |
| 58 | 19AR2239 | Computer Studio - II | | To understand interface, workspace, and utilization of tools of 3D modeling software apply the required tools and components in building a 3D model. | 1 | 1 | | | | | | | | | | | 1 |
| | | | CO2 | To create documentation reports, analysis reports; and audio- visual presentations. | 1 | 1 | | | | | | | | | | | 1 |
| | | | СОЗ | To understand, visualize the space and apply the tools of BIM software, identify the need of tools of BIM software. | 1 | 1 | | T | | | | | | | | | 1 |



| S. No | Course | Course Title | CON | Description of the Course Outcome | | | | | Pro | gra | m | Outo | come | es | | PS | 0 |
|-------|----------|----------------------|-----|--|---|---|---|---|-----|-----|-----|------|------|----|----|----|---|
| | Code | | 0 | | 1 | 2 | 3 | 4 | 5 6 | 5 | 7 8 | 8 9 | 10 | 11 | 12 | 1 | 2 |
| | | | CO4 | To create a detailed 3D model by working in collaboration by application of advanced tools | 1 | | 1 | | | | | | | | | | 1 |
| 59 | 19AR4148 | Working Drawing - I | CO1 | To introduce Working drawings and their significance in the construction of buildings. | 1 | | | | | | 2 | | | | | | 2 |
| | | | CO2 | To teach students the essential components of working drawings, notations, drawing standards, | | | | 1 | | | 2 | | | | | | 2 |
| | | | СО3 | To strengthen the students' knowledge about preparing working drawings for various building elements. | | | | | ź | 2 | ź | 2 | | | | | 2 |
| | | | CO4 | To Improve the construction details knowledge | | | | | | | | 2 | 2 | | | | 2 |
| 60 | 19AR4251 | Working Drawing - II | CO1 | To train the students to prepare detailed Working drawings for effective execution at construction site. | | | | | | | 2 2 | 2 | | | | | 2 |
| | | | CO2 | To teach students the essential components of working drawings, notations, drawing standards, | | | 1 | | | | | 2 | | | | | 2 |
| | | | | To preparation of integrated services drawings and detailing for various types of drawings and methods of transmittals and record keeping. | | | | | ź | 2 | 2 2 | 2 | | | | | 2 |
| | | | CO4 | To update the latest materials knowledge with specifications | | | | T | | | | | 2 | | | | 2 |
| 61 | 19UC1101 | Basic English | | Understand the concepts of grammar to improve communication, reading, and writing skills | | | | | | | | | | 2 | | | 2 |



| S. No | Course | Course Title | CON | Description of the Course Outcome | | | | | Pr | ogr | ram | Ou | tco | me | S | | PS | 0 |
|-------|----------|---------------------|-----|---|---|---|---|---|----|-----|-----|----|-----|----|----|----|----|---|
| | Code | | 0 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 1 | 0 | 11 | 12 | 1 | 2 |
| | | | | Demonstrate required knowledge over Dos and Don'ts of speaking in the corporate context. Demonstrate ability to face formal situations /interactions. | | | | | | | | | | 2 | | | | 2 |
| | | | | Understandthevarietiesofreadingandcomprehendthetoneandstyl eofthe author. Skim and scan effectively and appreciate rhetorical devices | | | | | | | | | | 2 | | | | 2 |
| | | | | Apply the concepts of writing to draft corporate letters, emails, and memos | | | | | | | | | | | 2 | | | 2 |
| 62 | 19UC1202 | English Proficiency | CO1 | ApplytheconceptsofaccurateEnglishwhilewritingandbecomeequal lyateaseinusinggoodvocabularyandlanguageskills. | | | | | | | | | 2 | 2 | 2 | | | 2 |
| | | | CO2 | Understand the importance of professional writing and apply the same in day-to-day usage. | | | | | | | | 2 | 2 | 2 | | | | 2 |
| | | | СОЗ | 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. | 1 | | | 1 | | | | | | | | | | 1 |
| | | | 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. | 1 | | | | 3 | | | | | | | | | 3 |



| S. No | Course Code | Course Title | CON O | Description of the Course Outcome | Program Outcomes PSO | | | | | | | | | | SO | | |
|-------|----------------|--|----------|---|----------------------|---|---|---|---|---|---|----|----|----|------|-----|---|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 89 | 10 | 11 | L 12 | 2 1 | 2 |
| 63 | 20UC1102 | Design Thinking and Innovation · I | - | | 2 | | | | | | 2 | 2 | | | | | |
| 64 | 20UC1203 | Design Thinking and Innovation – II | | | 2 | | | | | | 2 | 2 | | | | | |
| 65 | 19BB32C1 | 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 | | | | | 1 | | | | 2 | | | | |
| | | | CO 2 | Competency to recruit, train, and appraise the performance of employees | | | | | 2 | | | | 2 | | | | |
| | | | CO 3 | Rational design of compensation and salary administration | | | | | 2 | | | | 2 | | | | |
| | | | CO4 | Ability to handle employee issues and evaluate the new trends in HRM | | | | | 2 | | | | 2 | | | | |
| 66 | 19BB32C3 | Innovation and Entrepreneurship | CO1 | Explain and apply the key terms, definitions, and concepts used in the study of Innovation and Entrepreneurship Development | | | | | 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 | | | | |
| | | | соз | Construct a well-structured business plan by including all the necessary elements of the business plan | | | | | 2 | | | | 2 | | | | |



| S. No | | Course | Course Title | CON | Description of the Course Outcome | | | | Program Outcomes PS | | | | | | | | | | | |
|-------|--|--------|--------------|-----|---|---|---|---|---------------------|---|---|---|---|-----|----|----|----|---|---|--|
| | | Code | | 0 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 1 | 10 | 11 | 12 | 1 | 2 | |
| | | | | CO4 | Demonstrate how as an entrepreneur he can use the concepts of Entrepreneurship, to develop a new entrepreneurial organization | | | | | 2 | | | | | 2 | | | | | |