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DC SCHOOL OF ARCHITECTURE & DESIGN
VAGAMON

Bachelor of Architecture Degree Program Course Outcome

Semester 1 & 2

Semester	Course Code / Subject	CO	Course Outcome
I & II	19AR12001 Architectural Design 1 & 2	1	Demonstrate proficiency in applying the fundamentals of architectural education, recognizing its interconnections with various knowledge domains.
		2	Apply the Elements and Principles of Design, colour theory, and architectural drawing skills effectively in creative compositions.
		3	Exhibit a holistic approach to architectural design, integrating art, spatial comprehension, and the design process through practical applications and a major project.
	19AR12002 Building Materials and Technology 1 & 2	1	Demonstrate proficiency in identifying and describing the fundamental components of a building, their functions, and various construction techniques and materials.
		2	Apply knowledge of soils, foundations, and construction materials to make informed decisions regarding building design and construction methods.
		3	Exhibit the ability to evaluate and select appropriate materials and construction methods for specific building components, considering their properties and environmental impact.
	19AR12003 Professional Skill Enhancement 1 & 2	1	Demonstrate proficiency in creating three-dimensional architectural models using various materials and techniques, effectively translating design ideas into tangible representations.
		2	Develop strong communication skills, including listening, reading, and technical communication, to convey architectural concepts and ideas clearly and overcome communication barriers.
		3	Engage in co-curricular activities that foster teamwork, leadership, and skill development, enhancing the overall learning experience and promoting academic and societal engagement.
	19AR12004 History of Architecture 1 & 2	1	Proficiently analyse and interpret the architectural history of diverse ancient civilizations, recognizing the influence of culture, geography, and social structures on their built environments.
		2	Display a profound grasp of architectural development in ancient Greece, Rome, China, and the Indian subcontinent, emphasizing significant landmarks and fundamental design principles.
		3	Apply in-depth knowledge of Kerala's architectural heritage, including indigenous structures, materials, and religious architecture, to appreciate the region's unique building traditions and design concepts.
	19AR12005 Theory of Structures 1 & 2	1	Proficiently analyse and apply structural design principles, recognizing the historical evolution of structural forms and their relevance in architecture.
		2	Demonstrate the ability to calculate and predict forces, moments, and reactions in statically determinate beams and trusses, utilizing equilibrium principles and load tracing techniques.
		3	Apply knowledge of material strength and cross-sectional properties to assess the resistance of structural members to external forces, enabling sound structural decision-making in architectural design.
	19AR12006	1	Apply a thorough command of design elements and principles to craft

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	Theory of Design		visually captivating and harmonious compositions, utilizing the intricacies of color, texture, and form.
		2	Utilize design principles to establish unity, emphasis, scale, and proportion, incorporating anthropological and sociological insights into design solutions.
		3	Demonstrate the ability to draw inspiration from nature, utilizing principles of bio mimicry and exploring emergent designs to enhance creative problem-solving within the design discipline.
	19AR12007 Architectural Graphics	1	Proficiently utilize architectural design language, mastering technical drafting tools and techniques, graphical annotations, symbols, lettering, dimensioning, and scales for effective visual communication.
		2	Apply advanced visual representation skills, including orthographic projection, intersection, and section of solids, development of surfaces, and the use of isometric, axonometric, and perspective views in architectural drawings.
		3	Demonstrate the ability to create compelling architectural drawings and renderings, incorporating shading, shadow, and various rendering techniques to convey design concepts effectively.
	19AR12008 Mathematics for Design	1	Apply fundamental principles of geometry, demonstrating proficiency in the properties and calculations related to two-dimensional and three-dimensional shapes and conics.
		2	Solve trigonometric problems and utilize trigonometric ratios for various applications, including heights and distances, and the ratios of sum, difference, and multiplication of angles.
		3	Apply calculus concepts to find derivatives, maxima, minima, and volumes, as well as calculate lengths of tangents to curves and areas bounded by plane curves. Additionally, use sequences and statistics to analyse data and apply statistical measures in architectural contexts.

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Semester 3

Semester	Course Code / Subject	CO	Course Outcome
III	19AR03001 Architectural Design 3	1	Proficiently navigate the architectural design process, from data collection to concept formulation, emphasizing the importance of design development and spatial articulation.
		2	Cultivate the ability to construct well-researched project briefs, evaluate sites, and establish functional and aesthetic connections in architectural design, all while grasping fundamental structural systems and elevating representation skills.
		3	Apply sustainable design principles and conduct critical evaluations of architectural spaces, considering factors such as functionality, aesthetics, materials, and climate responsiveness, while engaging in documentation and short-duration projects to foster innovation and decision-making skills.
	19AR03002 Building Materials and Technology 3	1	Demonstrate an extensive knowledge of construction materials like steel, aluminium, UPVC, and plastics, encompassing their characteristics, production methods, and utility in construction.
		2	Gain proficiency in selecting and utilizing materials for doors, windows, and surface finishes, considering factors like functionality, aesthetics, and durability.
		3	Apply knowledge of materials, finishes, and construction techniques to create architectural designs that meet specific requirements, taking into account environmental and climatological considerations, while presenting findings from market surveys to a jury.
	19AR03003 Professional Skill Enhancement 3	1	Develop effective oral and written communication skills, including interpersonal communication, verbal and non-verbal communication, and persuasion, to articulate ideas clearly and persuasively.
		2	Enhance writing skills by mastering sentence formation, diction, paragraph and essay writing, coherence, cohesion, letter writing, technical writing, report writing, presentation skills, and effective use of non-verbal communication and body language.
		3	Gain proficiency in computer-aided drafting (CAD) tools and techniques, enabling the creation and manipulation of architectural drawings in 2D CAD software. Additionally, explore and engage in co-curricular activities like theatre, music, or other skill-oriented endeavours, fostering teamwork and peer learning.
	19AR03004 History of Architecture 3	1	Acquire an in-depth knowledge of European medieval architectural styles, encompassing Early Christian, Byzantine, Romanesque, and Gothic, as well as Renaissance architecture in Italy, France, and England. Cultivate an appreciation for the historical factors and influences that molded these architectural eras and their distinct attributes.
		2	Study Indian architecture during medieval times, specifically Hindu temples. Examine the development of Hindu temple architecture, distinguish between Indo-Aryan and Dravidian styles, and gain an appreciation for the architectural elements of notable Indian temples.
		3	Explore Islamic architecture in India, covering imperial and provincial styles, architectural evolution under various dynasties (Slave, Khalji, Sayyid, Lodi, and Suri), and regional influences (Punjab, Bengal, Gujarat, Deccan). Gain insights into Mughal architecture with a focus on Akbar and

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			Shah Jahan, examining iconic landmarks like the Taj Mahal and the Red Fort.
	19AR03005 Theory of Structures 3	1	Apply stress-strain principles to assess material strength in structural design..
		2	Analyse beam behaviour, calculate shear forces and bending moments, and create relevant diagrams.
		3	Evaluate column stability, beam deflection, and torsional effects in structural components.
	19AR03006 Climatology	1	Apply climate classifications and analysis to design strategies for various climatic zones.
		2	Assess thermal comfort and design buildings for optimal heat transfer, considering heat exchange and solar shading.
		3	Implement principles of day lighting and natural ventilation for sustainable and comfortable building design in different climates.
	19AR03007 Humanities	1	Demonstrate the ability to analyse how sociological factors shape architectural design and the built environment.
		2	Analyse history's influence on architectural design, emphasizing the social shaping of spaces and architectural identity.
		3	Critically assess the impact of social change, urbanization, and cultural transformation on architecture and architectural identity.
	19AR03008(A) Architectural Photography	1	Proficiently operate various cameras and employ photography principles to creatively capture architectural subjects.
		2	Apply post-production methods to enhance architectural photos.
		3	Comprehend the essentials of film production for dynamic media projects, including storyboarding, cinematography, sound recording, and basic editing.
	19AR03008(B) Carpentry and Welding	1	Demonstrate proficiency in carpentry techniques, including timber selection, tool usage, and joint preparation.
		2	Exhibit competence in welding processes, ensuring safety, and applying welding terminology.
		3	Apply practical skills in carpentry and welding, utilizing tools and techniques effectively.
	19AR03008(C) Sculpture	1	Show proficiency in sculpture, exploring a range of materials, techniques, and styles, while considering their historical and contemporary context.
		2	Collaborate effectively within a team to create kinetic sculptures and assemblages, while documenting the artistic process.
		3	Create outdoor sculptures and installations, utilizing diverse materials and focusing on sustainability through up cycling.

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Semester 4

Semester	Course Code / Subject	CO	Course Outcome
IV	19AR04001 Architectural Design 4	1	Demonstrate the ability to design a complex built environment integrating multiple user groups and responding to site, context, and sustainability considerations.
		2	Analyse architectural elements and buildings, preparing comprehensive appraisal reports.
		3	Apply design concepts to develop innovative, time-bound projects while gaining practical insights into real-world construction during site visits.
	19AR04002 Building Materials and Technology 4	1	Show proficiency in designing and constructing reinforced concrete structures, encompassing different types of slabs, construction joints, reinforcement, and materials knowledge.
		2	Proficiency in evaluating and selecting roofing materials, incorporating their properties and climate considerations.
		3	Comprehend vertical transportation systems, including lifts, escalators, and modern advancements in the field, and their role in architectural design and construction.
	19AR04003 Professional Skill Enhancement 4	1	Proficiency in creating 3D architectural models using CAD tools, transforming 2D drawings into three-dimensional representations.
		2	Engagement in diverse co-curricular activities and social initiatives, fostering teamwork and peer learning, and contributing to academic and societal development.
		3	Demonstration of practical skills in utilizing computer applications for architectural design and participating in academic and community-based initiatives.
	19AR04004 History of Architecture 4	1	Gain proficiency of architectural transformations during the industrial era, the emergence of modern movements, and in-depth analysis of works by influential architects.
		2	Insight into postmodern and contemporary architectural trends, including bio mimicry, with a focus on renowned architects' contributions.
		3	Comprehensive knowledge of the evolution of Indian architecture, spanning colonial influences, post-independence modernist and post-modernist eras, and the impact of liberalization on architectural practice.
	19AR04005 Theory of Structures 4	1	Proficiency in the fundamental concepts of RCC design, including the limit state method, load considerations, and code compliance for beams.
		2	Competence in the design of slabs and staircases, covering one-way and two-way slabs, and the classification and theoretical design of staircases.
		3	Ability to apply structural patterns, approximate load calculations, and design principles for foundations and columns in real-world engineering scenarios.
	19AR04006 Building Services 1	1	Demonstrate expertise in the historical evolution and significance of building services, particularly in water supply and sanitation, emphasizing the critical role of sanitation in averting waterborne diseases.
		2	Ability to design, calculate, and implement water supply systems, considering water sources, quality, treatment, demand, storage, distribution, and materials, while adhering to relevant standards and norms.

		3	Competence in designing domestic water supply and sewage systems for both low-rise and multi-storey buildings, incorporating considerations for hot-cold water supply, drainage, and rainwater harvesting, along with connecting to public sewer systems and ensuring proper disposal.
	19AR04007 Site Planning & Landscape Design	1	Proficiency in analysing and integrating natural and man-made elements in landscape design, incorporating aspects of topography, hydrology, geology, and environmental factors.
		2	Competence in applying principles of landscape architecture, including the selection of hardscape materials and appropriate vegetation for different landscape purposes.
		3	Ability to develop comprehensive landscape designs, utilizing site-specific planning and planting strategies while adhering to principles of landscape architecture and hardscape-soft scape integration.
	19AR04008(A) Applied Ergonomics	1	Proficiency in applying ergonomic principles to design spaces that accommodate human anatomy and physiological capabilities, enhancing comfort and efficiency.
		2	Competence in designing inclusive and age-appropriate spaces, addressing the needs of diverse user groups, including children, the elderly, and individuals with disabilities.
		3	Ability to analyse and mitigate environmental stressors in various settings, including workplaces, to create healthier and more comfortable environments for users.
	19AR04008(B) Art Appreciation	1	Ability to analyse and appreciate works of art using the vocabulary of art, including elements and principles of design, and to critically evaluate artistic expression.
		2	Proficiency in recognizing and contextualizing major art movements and their significant works, both in Western and Indian art history.
		3	Appreciation of the rich artistic traditions and contemporary directions in Indian art.
	19AR04008(C) Traditional Architecture of Kerala	1	Apply traditional architectural principles of Kerala effectively in building design and site planning.
		2	Analyse and appreciate various traditional building typologies in Kerala, including Nalukettus and Ettukettus, and their cultural significance.
		3	Recognize the influence of traditional architectural principles on temple and town planning in Kerala and assess their design and spatial aspects critically.

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Semester 5

Semester	Course Code / Subject	CO	Course Outcome
V	19AR05001 Architectural Design 5	1	Demonstrate the ability to integrate essential services and sustainable design principles into the planning and detailing of multi-storied buildings.
		2	Apply knowledge of structural and functional grids, universal access, and fire safety regulations in the design of complex built environments.
		3	Analyse and appreciate the influence of culture on architecture through settlement studies and site-specific design detailing.
	19AR05002 Building Materials and Technology 5	1	Evaluate and select appropriate composite materials and timber products for building construction based on their application and sustainability considerations.
		2	Demonstrate proficiency in construction detailing for various building components, such as floors, walls, ceilings, and roofs, using a range of materials.
		3	Analyse and design large span structures, including lattice trusses, steel portal frames, shell roofs, tensile structures, and cable structures, considering their functional requirements and structural integrity.
	19AR05003 Professional Skill Enhancement 5	1	Proficiency in creating detailed architectural models, visualizations, and animations using Building Information Modelling (BIM) software, with a focus on architectural scale and realism.
		2	Ability to design and produce professional presentations, brochures, and documents by combining various software tools for vector-based composition and photo editing.
		3	Engagement in social initiatives and collaborative activities to enhance interpersonal and teamwork skills, fostering participation in academic and societal events..
	19AR05004 Human Settlement Planning	1	Demonstrate a deep grasp of the historical evolution and theories of human settlement planning, encompassing both global and Indian perspectives.
		2	Exhibit competency in comprehending the various concepts and terminologies related to town planning, along with the ability to utilize survey techniques and data collection methods for urban planning processes.
		3	Exhibit a comprehensive grasp of the current planning landscape, encompassing pertinent legislation, planning organizations, and urban complexities, emphasizing the significance of sustainable urban planning and emerging concepts like Transit Oriented Development (TOD) and Smart Cities.
	19AR05005 Theory of Structures 5	1	Proficiency in steel structure design principles, encompassing connections, tension members, beams, and columns, while adhering to relevant loading standards and design philosophies.
		2	Competence in designing bolted connections for axial loads, trusses, and various beam types, considering factors such as bending strength, shear strength, deflection limits, and web stability.
		3	Proficiency in designing compression members, encompassing short and long columns, while considering slenderness ratios and addressing the behavior of various column sections under axial and eccentric loads.
	19AR05006 Building Services 2	1	Proficiency in electrical service design, covering site-level distribution systems, building wiring, implementation of electrical safety measures,

			and familiarity with materials and fixtures.
		2	Competence in lighting design principles, including knowledge of illumination systems, lamp types, design considerations for effective lighting schemes, and energy-efficient lighting practices.
		3	Expertise in fire fighting systems and safety measures, covering fire detection, alarm and extinguishing systems, passive and active fire protection strategies, and compliance with relevant safety codes.
	19AR05007 Interior Design & Detailing	1	Proficiency in developing interior design concepts, spatial analysis, and the application of design elements and principles in creating functional and aesthetically pleasing interior spaces.
		2	Competence in incorporating ergonomics and anthropometry principles into interior design, ensuring comfortable and user-friendly spaces.
		3	Ability to apply colour and lighting concepts effectively, enhancing interior design with considerations for colour harmony, lighting quality, and the psychological impact of colours and lighting in various settings.
	19AR05008(A) Advanced landscaping	1	Proficiency in analysing and applying historical and cultural insights to landscape design, recognizing the evolution and significance of various landscape traditions.
		2	Ability to create well-planned planting designs that consider plant characteristics, ecological impact, and visual aesthetics to enhance the beauty and functionality of landscapes.
		3	Competence in designing water features and bodies within landscapes, addressing water management, aesthetics, and ecological considerations for sustainable and attractive outdoor spaces.
	19AR05008(B) Behavioural Architecture	1	Proficiency in applying principles of environmental psychology to design built environments that consider human behaviour, perception, and emotions effectively.
		2	Capability to observe, analyses, and map human behaviour in various settings, enabling the design of spaces that meet user needs and preferences.
		3	Competence in recognizing the significance of behavioural design in different environments, including educational, workplace, residential, and urban spaces, and the ability to apply this knowledge to enhance the quality of these environments.
	19AR05008(C) Inclusive Design	1	Proficiency in applying the principles of universal design to create inclusive built environments that cater to a diverse range of abilities and conditions.
		2	Competence in assessing and implementing accessibility standards in architectural design, considering various elements within and outside buildings.
		3	Ability to conduct access audits and develop retrofitting solutions for barrier-free environments, ensuring usability and inclusivity for all individuals.

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Semester 6

Semester	Course Code / Subject	CO	Course Outcome
VI	19AR06001 Architectural Design 6	1	Demonstrate knowledge of campus planning principles, emphasizing the significance of site planning and the interplay between built form and open space.
		2	Evaluate the aesthetic composition of built form in three dimensions and its relationship with the surrounding environment
		3	Apply sustainable strategies in campus planning, focusing on the efficient use of energy, water, and materials.
	19AR06002 Working Drawings 1	1	Create construction drawings and execute on-site project details.
		2	Demonstrate proficiency in integration of building services within a building's layout.
		3	Proficiency in working drawings across different disciplines.
	19AR06003 Professional Skill Enhancement 6	1	Gain exposure to a diverse range of skills, including workshops, communication proficiency, and computer applications, instilling confidence in handling core subjects.
		2	Cultivate teamwork and interpersonal skills essential for managing complex situations effectively.
		3	Develop the capacity to handle stress and master multitasking abilities.
	19AR06004/ Housing	1	Identify housing challenges on a national and global scale, considering the scale of problems, outcomes of initiatives, and associated factors
		2	Acknowledge issues concerning slums and affordable housing for the impoverished, and explore inventive strategies for their amelioration.
		3	Develop the capacity to grasp the intricacies of housing projects comprehensively.
	19AR06005 Specification and Cost Estimation	1	Demonstrate proficiency in technically specifying elements of the built environment and ensure their compliance with nationally or internationally approved quality standards.
		2	Competently generate estimates for small-scale projects.
		3	Skilfully apply valuation principles and related considerations to inform the design process critically.
	19AR06006 Building Services 3: Mechanical Services & Acoustics	1	Cultivate an appreciation for the pivotal role of services in buildings and their seamless integration within the built environment.
		2	Skilfully evaluate different HVAC systems and the criteria influencing the selection among them.
		3	Attain proficiency in acoustic design considerations pertaining to spaces and materials, and adeptly recommend acoustical solutions.
	19AR06007(A) Cost Effective Technology in Building Construction	1	Apply cost-effective techniques in design.
		2	Cultivate a grasp of ecosystem carrying capacity, carbon footprint, sustainability, and sustainable development concepts.
		3	Recognize the repercussions of emerging vulnerabilities related to global warming and climate change, and comprehend the building industry's contribution to these challenges.
	19AR06007(B) Geographic Information System	1	Gain an introduction to fundamental Geographic Information System (GIS) concepts.
		2	Familiarize with the process of acquiring geospatial data.
		3	Develop the capability to create both digital and printed maps.

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	19AR06007(C) Vernacular Architecture	1	Explore vernacular architecture as a dynamic process shaped by cultural and civilizational factors, emphasizing its evolution over time.
		2	Recognize vernacular architecture as a manifestation influenced by diverse social, political, and economic factors, in response to cultural and climatic conditions.
		3	Gain insight into the tangible experience of buildings, fostering an appreciation for the intricate interplay of both physical and metaphysical influences that shape architecture.
	19AR06008(A) Elective Theory3: Facilities Planning	1	Conduct in-depth literature and live case studies, emphasizing their relevance for comprehensive comprehension of hospital planning and services.
		2	Demonstrate proficiency in conducting research, coupled with critical analysis, to address selected case studies. Additionally, implement innovative technologies and solutions.
		3	Execute case studies with a focus on hospital planning and services, enabling hands-on experience and practical application of innovative technologies and solutions.
	19AR06008(B) Elective Theory 3: Services in High Rise Buildings	1	Attain foundational knowledge of high-rise buildings and their service needs
		2	Cultivate an awareness of the pertinent codes and regulations that govern services in high-rise structures
		3	Comprehend the spatial considerations in relation to service requirements
	19AR06008(C) Elective Theory 3: Indian Thoughts and Traditions	1	Gain exposure to the diverse knowledge systems and traditions of India
		2	Receive an introduction to the fundamental concepts in Indian Art and Architecture
		3	Engage in discussions pertaining to Indian Identity, Cultural Continuity, Ancient Indian wisdom, and contemporary challenges

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Semester 7

Semester	Course Code / Subject	CO	Course Outcome
VII	19AR07001 Architectural Design 7	1	Develop proficiency in applying sustainable housing design principles, considering various factors like climate, building envelope, site selection, and resource efficiency.
		2	Demonstrate the ability to analyze and respond to housing economics, public policy, and spatial requirements in diverse contexts.
		3	Gain practical knowledge in implementing housing standards, settlement pattern evolution, and addressing challenges related to high-density housing and larger-scale site planning.
	19AR07002 Working Drawings 2	1	Attain proficiency in creating 'Good for Construction' drawings, demonstrating competence in detailing for construction projects.
		2	Acquire the ability to generate and interpret supplementary drawings for various disciplines, ensuring coordinated and comprehensive working drawing sets.
		3	Demonstrate the skillset necessary for preparing structural, electrical, water supply, and sanitation drawings, building on knowledge from the previous semester's design project.
	19AR07003 Professional Skill Enhancement 7	1	Gain confidence in core subjects through exposure to diverse skills like workshops, communication, and computer applications.
		2	Develop team spirit and interpersonal skills for effectively managing complex situations.
		3	Learn to cope with stress and enhance multitasking capabilities.
	19AR07004 Urban Design	1	Gain knowledge of the evolution and characteristics of urban forms, including their components and interdependencies.
		2	Familiarize with urbanism theories, aspects, and contemporary issues, while exploring potential solutions.
		3	Acquire skills to observe, interpret, and analyze diverse urban scenarios in the present day.
	19AR07005 Project Management	1	Proficiency in comprehending various stages of construction planning and network analysis.
		2	Demonstrate proficiency in utilizing a range of construction equipment.
		3	Acquire knowledge of project management procedures, material management, and safety measures in construction projects, including scheduling and resource allocation.
	19AR07006 Environmental Science for Architecture	1	Foster awareness of scientific knowledge and current debates on the environment at global, regional, and local scales.
		2	Enable students to grasp cause-and-effect relationships among human, natural, and climatic factors impacting ecological systems.
		3	Familiarize students with global and national environmental issues, emphasizing the scale of impacts, relevant conventions, laws, and policies in the fields of biodiversity and environmental protection.
	19AR07007 Professional Ethics & Practice	1	Attain awareness of the professional responsibilities associated with the role of an Architect.
		2	Cultivate an understanding of the ethical obligations and expectations in the field of architecture.
		3	Become familiar with engaging professionally with various stakeholders

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			within the architectural practice.
	19AR07008(A) Elective Workshop 3: Contemporary process in Architectural Design	1	Comprehend the impact of contemporary media theories on architectural design in the present day.
		2	Gain insight into the relationship between contemporary design processes/theories and computational techniques.
		3	Demonstrate the ability to apply specific aspects of contemporary processes to a given design situation, and become familiar with architectural works derived from these processes.
	19AR07008(B) Elective Workshop 3: Graphic Design	1	Gain an introduction to the discipline of Graphic Design.
		2	Develop fundamental skills for creating and presenting simple sheet presentations.
		3	Demonstrate the ability to describe the graphic design process, utilize basic sketching techniques for communication, and produce various graphic design projects such as posters, e-books, portfolios, logos, etc.
	19AR07008(C) Elective Workshop 3: Product Design	1	Gain an introduction to the discipline of Product Design.
		2	Develop fundamental skills for handling simple product design projects.
		3	Demonstrate the ability to describe the product development process, utilize basic sketching techniques for communication, and plan, implement, and present a product design project. Additionally, create a small prototype of the product using CAD software and top-down methodology.

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Semester 8

Semester	Course Code / Subject	CO	Course Outcome
VIII	19AR08001 Professional Training	1	Gain a comprehensive understanding of the architecture profession, including duties, responsibilities, coordination, services provided, and the role of an architect in an office setting.
		2	Acquire practical knowledge and experience in various stages of the architectural process, from initial discussions and site surveys to design, presentation, client meetings, preparation of drawings and documents, site visits, and project execution.
		3	Develop proficiency in tasks related to architectural practice, such as involvement in the design process, site visits, preparation of various types of drawings, creation of project documentation, and engaging in discussions and meetings with clients, contractors, and other consultants.

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Semester 9

Semester	Course Code / Subject	CO	Course Outcome
IX	19AR09001 Architectural Design 8	1	Develop a comprehensive understanding of contemporary urban issues and explore potential solutions.
		2	Gain knowledge of the various components of the urban environment and their interrelationships.
		3	Comprehend the impact of urban design on end users, and learn mapping and diagramming techniques for effective urban planning and design.
	19AR09002 / Advanced Building Technology	1	Acquire decision-making skills for selecting suitable construction technologies and materials in building design, considering factors such as technology feasibility, physical properties, socio-cultural impacts, and ecological footprint.
		2	Demonstrate the ability to represent various construction techniques and materials through drawings to support building design decisions.
		3	Gain proficiency in evaluating and incorporating appropriate construction techniques and materials based on their potentials and properties, enhancing the overall quality and sustainability of building designs.
	19AR09003 Professional Skill Enhancement 8	1	Gain exposure to a range of skills, including workshops, communication proficiency, and computer applications, enhancing confidence in handling core subjects.
		2	Develop teamwork and interpersonal skills to effectively manage complex situations.
		3	Acquire the ability to cope with stress and develop multitasking capabilities, contributing to improved academic performance and overall professional readiness.
	19AR09004 Green Built Environment	1	Aware of key concepts such as ecosystem, carrying capacity, ecological footprint, human comfort, and sustainable development.
		2	Familiarize with various approaches and strategies for achieving sustainability in buildings and communities.
		3	Develop awareness of current trends and innovative ideas in the design and development of sustainable built environments.
	19AR09005 Disaster Management & Mitigation	1	Attain a comprehensive understanding of natural disasters and human-induced environmental hazards, encompassing both uncontrollable natural events and disasters caused by human activities.
		2	Gain a foundational knowledge of principles and processes related to disaster preparedness, response, and recovery.
		3	Develop basic skills in planning, organizing, and decision-making for disaster risk reduction, providing a solid foundation in disaster management concepts and practices.
	19AR09006 Research Methodology	1	Gain insight into the pivotal role of research in the field of architecture.
		2	Develop skills to interpret, evaluate, and conduct architectural research effectively.
		3	Acquire proficiency in presenting research results and honing technical writing skills for publishing related research topics.
	19AR09007(A) Elective Theory 4: Architectural	1	Cognizant of Architectural Conservation as an approach that establishes a connection between the past, present, and future in the context of heritage preservation.

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	Conservation	2	Become familiar with the history of the conservation movement, various global agencies involved in conservation, and their policies.
		3	Be introduced to the international framework of conservation, including definitions, principles, and concepts. Learn about guidelines for preservation, conservation, and restoration of buildings, as well as gain an overview of the current status of conservation and preservation in India. Additionally, understand the concept of integrating development with heritage preservation, emphasizing opportunities for community participation, and gaining exposure to the management of heritage buildings and sites.
	19AR09007(B) Elective Theory 4: Earthquake Resistant Architecture	1	Gain the ability to comprehend the formation and causes of earthquakes.
		2	Develop an understanding of the factors that need to be taken into account in the design of buildings and services to effectively resist earthquakes.
		3	Acquire knowledge and skills for applying earthquake-resistant principles in architectural design projects, including familiarity with design codes, building configuration, and construction details for seismic-prone areas.
	19AR09007(C) Elective Theory 4: Green Building Rating system	1	Acknowledge of the significance of sustainable planning in building and development projects, and the importance of being environmentally responsive to construction requirements.
		2	Gain awareness of the rating system used for evaluating green buildings
		3	Acquire knowledge and appreciation for the role and importance of green buildings in promoting sustainability, along with an understanding of the components involved in their planning and design.
	19AR09008(A) Elective Theory 5: Architecture and Sustainability	1	Aware of the significance of sustainable planning in conceiving building and development projects, and the importance of being environmentally responsive to construction requirements.
		2	Cultivate critical awareness of existing environmental rating systems.
		3	Gain practical application skills in sustainable construction practices, specifically tailored to the regional context.
	19AR09008(B) Elective Theory 5: Architecture Pedagogy	1	Gain familiarity with the historical development of education methods in architecture.
		2	Be introduced to prevailing models of teaching-learning methods and their application in architectural education.
		3	Acquire skills to evaluate architectural design and other art forms, as well as an introduction to research methodology, paper writing, and presentation as tools for transmitting knowledge.
	19AR09008(C) / Elective Theory 5: Building Performance and Compliance	1	Gain proficiency in utilizing IT applications and software for building performance analysis in areas such as thermal, lighting, and environmental quality.
		2	Acquire practical knowledge of policies, standards, and procedures for environmental compliance in projects, and develop competency in their application
		3	Cultivate skills and awareness for promoting sustainability in the built environment

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Semester 10

Semester	Course Code / Subject	CO	Course Outcome
X	9AR10001 / Architectural Design Thesis	1	Enable students to apply a comprehensive approach to architectural design, integrating knowledge from previous semesters.
		2	Evaluate students' ability to synthesize architectural, technical, and social systems through a capstone project, represented using architectural drawings, 3D models, and visual techniques.
		3	Cultivate creative and critical thinking in students through a choice-based studio in their area of interest, providing guidance for their career development within the scope of the B.Arch. program.