Kalinga University
Science
Bachelor Of Science (Interior Design)

PO

S. No.	Program Outcome (PO) Description
1	Environment and Sustainability: To be able to apply various manufacturing tools, techniques, IT technology & and software.
2	Interior Design Knowledge: The ability to apply the concept of the design process along with the spatial elements, building services, various interior materials, socio-economic, and cultural influences, and the principles of design & and planning in the development of interior environments.
3	Problem Analysis: The ability to assess the client needs, space requirements, and construction techniques for effective problem solving with critical thinking aspects, impacting all the stages of interior space design.
4	Design/Development of Solutions: The ability to identify the most optimal design solutions like energy efficiency, cost-effectiveness environment friendly, as needed for implementing the interior design projects in an effective manner.
5	Individual and Teamwork: The ability to contribute significantly as a member or a leader in diverse environments with multidisciplinary teams.
6	Ethics: Will be able to carry out professional design responsibility along with ethical values.
7	Introduce the basic concepts, fundamental principles, and theories related to various interior design phenomena and their relevancies in day-to-day life.
8	Continuous Learning: To instill the attributes of life-long learning skills.
9	Acquire skills in handling offices, and interior sites, planning, designing, and drawing logical inferences from interior design subjects.
10	Communication Skills: The ability to communicate effectively in various facets like - speaking, writing, sketching, and making diagrams to illustrate, construct, present, or otherwise communicate design proposals.

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11	Modern Tool Usage: To be able to apply various manufacturing tools, techniques, IT technology, and software.
12	Project Handling Skills: The ability to plan, outline effective blueprints, execute, and complete the process of designing for the interior built environments.

PSO

S. No.	Program Specific Outcome (PSO) Description
1	The ability to analyze and develop plans based on modern concepts & and human requirements, to design interior spaces with effective circulation and connectivity in the building enclosures.
2	Exhibit an understanding of how subjects like Interior Furnishings, Indoor Landscaping, Interior Photography, and Architectural Design History correlate & and reflect major impacts in the development of space.
3	Ability to demonstrate a wide range of technical skills and design knowledge during schematic design and to apply the principles of lighting, acoustics, thermal comfort, and indoor air quality in relation to environmental impact, human well-being along with life safety, accessibility & sustainability issues in making sound design decisions across varying levels of Complexity.

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CO

S.No.	Course Code	Course Name	Course Outcome (CO's) - Description
1	BID101A	English	**CO1:** It will enhance Language of communication, various speaking skills such as personal communication, social interactions and communication in professional situations such as interviews, group discussions and office environments, important reading skills as well as writing skills such as report writing, notetaking etc. While, to an extent, the art of communication is natural to all living beings, intoday's world of complexities, it has also acquired some elements of science. It is hoped that after studying this course, students will find a difference in their personal and professional interactions
2	BID102	Design Basics	**CO1:** Understand and communicate fundamental concepts and theories of design and styles in interior design.
			CO2: Understand the types of design and apply theories and tools in making new designs.
			CO3: Understand the elements of design and their importance in making new designs.
			CO4: Understand principles of design and its application in interior design.
			CO5: Learn the application of motifs with role and carrier options for interior designers.
3	BID103	Applied Arts on Textiles-I	**CO1:** Develop a comprehensive understanding of textiles, including the meaning and classification of fibers, and yarn, enabling effective selection and utilization of these fundamental elements.
			CO2: Acquire proficiency in fabric construction, particularly weaving techniques encompassing loom components, weaving operations, types of weaves (plain, twill, fancy), and weave variations (Jacquard, Dobby, Leno), leading to the creation of diverse fabric structures.
			CO3: Gain expertise in dyeing and printing processes, covering various techniques of dyeing fibers, yarns, and fabrics, as well as hand and machine printing methods, fostering the ability to enhance fabrics through color and pattern application.
			CO4: Master fabric finishes, including basic processes like mercerizing, sanforizing, calendaring, and sizing, as well as special finishes like water repellency, fireproofing, mothproofing, and stain resistance, enhancing fabric properties and applications.
			CO5: Develop skills in applying art principles, design elements, color harmonies, and color systems in fabric selection, facilitating the creation of aesthetically pleasing and visually balanced fabric choices.
			CO1: students will have a comprehensive understanding of the role and significance of color in both interior and exterior design.

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4	BID202	COLOUR AND LIGHTING	**CO2:**	Students will understand the different colour systems and colour harmonies.
			CO3:	Students will understand the application of colour schemes. And the effect of light on colour.
			CO4:	Students will have a comprehensive grasp of the critical role lighting plays in interior and exterior design.
			CO5:	Students will understand the principle of lighting and selection of lighting for interior and exterior spaces
5	BID203	GRAPHICS	**CO1:**	Students will understand the significance of engineering and be proficient in the usage of essential drawing instruments for making drawings.
			CO2:	Students will have the ability to accurately calculate areas and volumes of geometric shapes, effectively apply different scales for graphical representation, and utilize drafting scales to ensure accurate and proportionate drawings in engineering graphics.
			CO3:	Students will be capable of accurately representing points, lines, and basic geometric solids using orthographic projection techniques in engineering graphics.
			CO4:	Students will be proficient in creating accurate cross-sectional representations of diverse geometric solids such as cylinders, prisms, cones, and pyramids in engineering drawings.
			CO5:	students will possess the ability to accurately unfold and depict the surfaces of basic geometric solids.
6	BID204	SOFT SKILLS AND PERSONALITY ENHANCEMENT	**CO1:**	Team Building: Understand synergy and effective team characteristics. Negotiation Skills: Learn successful negotiation strategies and communication techniques. Grooming: Develop positive self-presentation and attire selection skills.
			CO2:	Organizing Meetings: Acquire skills to plan and manage meetings effectively.Telephonic Etiquettes: Learn proper phone communication and voice mail etiquette.Business Etiquettes: Understand professional expectations, effective writing, and cross-cultural interaction.
			CO3:	Stress Management: Recognize stress types, and symptoms, and employ stress management techniques. Time Management: Prioritize tasks, set goals, and overcome barriers to manage time efficiently. Self-Management: Enhance self-awareness, discipline, and personal development.

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				Presentation Skills: Develop presentation creation, audience understanding, and delivery proficiency.
			CO4:	Organizational Skills: Understand organization structure, roles, responsibilities, and report drafting. Leadership Skills: Develop foundational leadership capabilities.
			CO5:	Group Discussion: Learn argument formation, defense, and respectful discussion. Personal Interview: Acquire skills for successful interview appearance. Public Speaking: Master art of public speaking and rhetorical elements. Conference and Meeting Participation: Learn effective participation, technical clarity, and report drafting skills.
7	BID301	BASIC COMPUTER APPLICATION AND AUTO CAD-I	**CO1:**	The course provides students with a comprehensive understanding of AutoCAD's interface, system requirements, GUI elements, essential toolbars, commands, and concepts.
			CO2:	Students will be adept at utilizing various point fixing methods (absolute Cartesian, relative rectangular, and relative polar coordinates) and creating geometric shapes (line, circle, arc, ellipse, rectangle, polygon) in AutoCAD to accurately construct and design drawings.
			CO3:	Students will have gained proficiency in using a wide array of modification tools in AutoCAD, enabling them to efficiently edit and manipulate objects within drawings for precise design adjustments.
			CO4:	Students will have gained proficiency in using a wide array of modification tools in AutoCAD.
			CO5:	Students will have acquired advanced skills in utilizing tools for navigation, working with 2D and 3D objects, and implementing design enhancements.
8	BID302	DRAFTSMANSHIP – I	**CO1:**	Students will possess a holistic comprehension of draftsmanship, enabling them to proficiently contribute to effective design workflows.
			CO2:	Students will have developed a comprehensive understanding of drafting tools, and their applications which enable them to create precise and professional drawings.
			CO3:	Students will have acquired proficiency in designing well-structured drawing sheets with appropriate title blocks, implementing various types of lines and hatching for clarity, and mastering effective lettering techniques to produce professional and legible technical drawings.

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			CO4:	Students will have developed a comprehensive understanding of dimensioning principles, techniques for accurate placement, consideration of units, and appropriate execution methods, enabling them to proficiently create well-dimensioned technical drawings.
			CO5:	Students will possess the skills to execute precise geometrical constructions and produce effective technical sketches through freehand techniques.
9	BID303	INTERIOR DESIGN STUDIO AND BUILDING SYSTEM TECHNOLOGY - I	**CO1:**	Students will have a comprehensive understanding of various building materials, their characteristics, applications, and finishes, enabling them to make informed choices in construction and design projects.
			CO2:	Students will have gained a thorough knowledge of diverse interior construction techniques, which enable them to effectively contribute to the planning and execution of interior construction projects.
			CO3:	Students will possess a comprehensive understanding of designing and implementing various architectural elements such as doors, and windows.
			CO4:	Students will have a comprehensive grasp of vertical transportation systems including staircases, and lifts, equipping them to design safe, efficient, and accessible means of vertical movement within built environments
			CO5:	Students will have a thorough understanding of rainwater harvesting principles, its environmental significance, its advantages, components and methods involved in rainwater harvesting systems, enabling them to contribute to sustainable water management practices in various contexts.
10	BID304	BASICS OF INTERIOR DESIGN – I	**CO1:**	Understand the types of design and apply theories and tools in making new designs.
			CO2:	Understand the elements of design and their importance in making new designs.
			CO3:	Understand principles of design and its application in interior design.
			CO4:	Understand the color theory and its application in interior design.
			CO5:	Understand the importance, type, and use of lighting in interior design.
			CO1:	Students will be proficient in utilizing inquiry tools, as well as mastering various drawing and editing tools, enabling them to accurately measure, analyze, and manipulate elements within AutoCAD drawings.
			CO2:	Students will possess a comprehensive proficiency in creating and editing diverse types of dimensions, configuring dimension styles, enhancing their ability to produce precise and well- communicated technical documentation.

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11	BID401	BASIC COMPUTER APPLICATION AND AUTOCAD - II	**CO3:**	Students will have a solid foundation in 3D modeling, adeptly utilizing point fixing methods, understanding different model types, and effectively translating concepts into three-dimensional representations using various coordinate systems, enabling them to create accurate and comprehensive 3D models.
			CO4:	students will have acquired proficiency in utilizing standard primitive tools to create basic 3D shapes and employing Boolean operations for complex model generation, enabling them to construct intricate and detailed 3D models in various design scenarios.
			CO5:	Students will possess comprehensive knowledge of lighting types, camera perspectives, material application, rendering techniques, and model data exchange, enabling them to create visually compelling and realistic 3D scenes and effectively collaborate in the broader design and visualization process.
12	BID402	DRAFTSMANSHIP – II	**CO1:**	Students will have developed a thorough understanding of symbols, their significance, and their application in architectural and structural contexts.
			CO2:	Students will possess a comprehensive understanding of plumbing systems, including water supply, sanitation, and drainage, as well as the practical application of plumbing symbols, drainage plans, and house wiring concepts, enabling them to design and implement effective and safe plumbing and electrical systems in residential buildings.
			CO3:	Students will have a proficient understanding of orthographic projection principles, multi-view representation techniques, and section drawing methods, allowing them to accurately convey three-dimensional objects on two-dimensional surfaces using standardized drafting practices.
			CO4:	Students will possess a comprehensive grasp of isometric views and projections, understanding their significance, principles, and characteristics, and the ability to create accurate isometric representations for effective visual communication in engineering and design contexts.
			CO5:	Students will have acquired a comprehensive understanding of perspective projection principles, rendering techniques using various tools and textures, and the ability to create visually engaging and accurate drawings, enhancing their capacity to effectively communicate and visualize architectural and design concepts.
			CO1:	Students with a comprehensive understanding of sound principles, properties, and behaviors, enabling them to design spaces with optimal acoustics, manage sound reflection and absorption, and address acoustical defects effectively through informed design choices and materials selection.

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13	BID403	INTERIOR DESIGN STUDIO AND BUILDING SYSTEM TECHNOLOGY-II	**CO2:**	Students will possess a thorough understanding of illumination principles, diverse lighting fixture types, and their applications in residential and commercial settings, enabling them to create well-lit and visually appealing interior spaces while considering functional and aesthetic lighting requirements.
			CO3:	Students will have gained a comprehensive understanding of air conditioning principles, various system types, and their applications in diverse environments such as residential spaces, hospitality settings, cultural institutions, and healthcare facilities, allowing them to effectively design and implement optimal indoor climate control solutions.
			CO4:	Students will be proficient in understanding electrical systems, and creating basic electrical layouts, enabling them to contribute effectively to the planning and implementation of electrical services in architectural and building design projects.
			CO5:	Students will possess a comprehensive understanding of ventilation concepts, types (natural and mechanical), and the significance of adhering to building by-laws concerning building lines, open spaces, size, height, and ventilation requirements, enabling them to design structures that prioritize occupants' comfort, safety, and regulatory compliance.
14	BID404	BASICS OF INTERIOR DESIGN – II	**CO1:**	Students will have a thorough grasp of furniture design, considering factors like climate, family requirements, availability, comfort, design principles, and budget constraints, enabling them to make informed decisions in creating functional and aesthetically pleasing interior spaces through well-designed furniture selection and arrangement.
			CO2:	Students will possess comprehensive knowledge of furniture materials, adept selection skills, and practical arrangement strategies for different rooms, enabling them to create well-furnished and aesthetically pleasing interior spaces that align with functionality, aesthetics, and design principles.
			CO3:	Students will have a comprehensive understanding of soft furnishings, encompassing their significance, types such as carpets, rugs, cushion covers, window treatments, and the ability to effectively integrate these elements to enhance comfort, aesthetics, and functionality in interior spaces.
			CO4:	Students will possess a comprehensive comprehension of accessories in interior design, including their significance, various types (functional, decorative, both), and the capability to strategically incorporate accessories to elevate the visual appeal and functionality of interior spaces.

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			CO5:	Students will have a thorough understanding of flower arrangement, encompassing its significance, various styles, shapes, and types, enabling them to skillfully create aesthetically pleasing floral displays that enhance interior aesthetics and contribute to the overall ambiance of a space.
15	BID501	FURNITURE IN INTERIORS	**CO1:**	Students will be able to differentiate between traditional, contemporary, and modern furniture styles, understand the factors influencing furniture selection for diverse purposes, and make informed choices based on climatic conditions, family needs, preferences, availability, and budget considerations.
			CO2:	students will have a comprehensive understanding of familiar furniture materials including wood varieties (teak, rosewood, walnut, etc.), bamboo, cane, metals, plastics, and leathers, enabling them to select suitable materials for different furniture designs.
			CO3:	Students will gain the expertise to effectively select and arrange furniture for various rooms (living room, dining room, bedroom, kitchen, study room, office) by considering functional and aesthetic aspects, applying principles of design to create harmonious and balanced arrangements.
			CO4:	students will possess knowledge about construction features of furniture, including shaping, carving, turning, joining, and finishes, as well as upholstery techniques and designs, allowing them to comprehend the intricacies of furniture production and customization.
			CO5:	Students will be equipped to ensure the longevity and aesthetic appeal of furniture through proper care and maintenance techniques for wooden, wicker, cane, metal, plastic, and upholstered furniture. They will also understand wood finishes and furniture polishes to maintain and enhance the durability and aesthetics of different furniture materials.
			CO1:	Students will gain an understanding of floriculture, including the concept, significance, and importance of ornamental plants, enabling them to classify various plant types such as annuals, biennials, perennials, shrubs, trees, climbers, creepers, cacti, succulents, ferns, palms, and bulbs.
			CO2:	Students will acquire proficiency in both sexual and asexual propagation methods, such as division, cutting, layering, grafting, budding, and tissue culture, enhancing their ability to reproduce ornamental plants effectively.

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16	BID502	FLORICULTURE AND LANDSCAPING	**CO3:**	Students will learn comprehensive methods of protecting ornamental plants, including cultural, chemical, and mechanical approaches, as well as pest and disease control techniques, allowing them to ensure the health and maintenance of ornamental plants.
			CO4:	Students will develop expertise in landscaping principles, including garden types, components, formal and informal designs, and principles of landscape gardening. They will also master lawn establishment, maintenance, and various types, along with indoor plant potting and repotting techniques.
			CO5:	Students will explore modern gardening trends such as Terrace Gardens, Rock Gardens, Terrariums, and Bonsai culture, enabling them to develop these practices. They will also be equipped to cultivate ornamental plants in limited spaces like roof gardens and hanging gardens, while also mastering flower arrangement techniques, styles, types, shapes, and the step-by-step process.
17	BID503	PLANNING THE LIFE SPACE	**CO1:**	Students will develop a comprehensive understanding of living space, encompassing concepts, factors influencing design, location, orientation, and planning objectives, enabling them to assess the utility, economy, beauty, and character of living spaces while considering ownership and rental options.
			CO2:	Students will grasp the significance of housing, including its functions and site selection, and gain proficiency in interpreting and creating various house plans, such as site plans, floor plans, elevations, cross-sections, and perspective views, catering to different housing types.
			CO3:	Students will be able to define and differentiate between private, public, work, and traffic spaces within a home, with a special focus on utility spaces like laundry facilities, enhancing their ability to efficiently allocate and organize spaces.
			CO4:	Students will master the principles of effective house planning, covering aspects like aspect, orientation, privacy, room grouping, circulation, furniture requirements, sanitation, and practical considerations, equipping them to design functional and harmonious living environments.
			CO5:	Students will gain essential knowledge of construction methods, encompassing types of construction such as load-bearing and non-load-bearing or framed structures, as well as the advantages and limitations of cast-in-site and prefabrication techniques, enabling them to make informed decisions in construction planning and execution.

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18	BID504	RESIDENTIAL SPACE DESIGNING	**CO1:**	By understanding the concepts of macro, micro, and meso environments, proteomics, personal space, territoriality, claustrophobia, agoraphobia, crowding, and their influence on site analysis and orientation, students will be equipped to assess and design living spaces that cater to psychological, physiological, and social aspects, promoting optimal well-being and functionality.
			CO2:	Through an exploration of housing functions, determinant factors, housing challenges in India, and considerations for ownership and renting, students will gain the ability to critically assess housing issues, propose effective solutions, and make informed decisions regarding housing choices.
			CO3:	By studying different plan types, space allocation strategies, socioeconomic considerations, and plan evaluation skills, students will develop proficiency in designing functional and culturally sensitive residential spaces that cater to diverse needs and effectively utilize available resources.
			CO4:	Through an examination of housing standardization, BIS roles, and legal constraints including plot regulations, easements, zoning and building laws, students will be empowered to create housing solutions that align with industry standards, regulations, and legal frameworks for sustainable and compliant built environments.
			CO5:	By exploring financial avenues and institutional support such as NEERI, NBO, CBRI, SERC, LIC, banks, HDFC, and HUDCO, students will be equipped to navigate and leverage diverse funding sources and organizations for successful housing projects.
19	BID505A	CONSUMER AND MERCHANDISING	**CO1:**	Through an in-depth study of commercial art, merchandising, and evolving trends in art, architecture, and display, students will gain the ability to strategically create impactful and innovative visual experiences that enhance consumer engagement and effectively communicate brand identity.
			CO2:	By comprehending consumer dynamics, rights, responsibilities, and merchandise elements, students will be prepared to ethically and effectively engage with consumers and apply strategic merchandising techniques that align with industry standards and promote positive consumer experiences.
			CO3:	Through an exploration of merchandising strategies, distribution channels, and selling techniques, students will develop the skills to optimize product placement, selection of distribution channels, and selling methods to effectively reach target markets and enhance business success.
			CO4:	By studying salesmanship's principles, types, qualities, and techniques, students will acquire the ability to employ effective communication and persuasion skills to build strong customer relationships and achieve successful sales outcomes.

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			CO5:	Through an exploration of advertisement concepts, media selection, and poster creation techniques, students will develop the skills to create compelling and impactful advertisements using various media, effectively conveying messages to target audiences.
20	BID505B	KITCHEN DESIGN	**CO1:**	By understanding kitchen functions, types, and design principles including orientation, ventilation, storage, work triangle, color, light, and safety, students will be equipped to create efficient, ergonomic, and aesthetically pleasing kitchen spaces that cater to diverse culinary needs.
			CO2:	Through a comprehensive study of kitchen geometry, work heights, space dimensions, and anthropometric measurements, students will possess the knowledge to create kitchen layouts that optimize ergonomic design and user comfort, enhancing functionality and workflow efficiency.
			CO3:	By exploring diverse kitchen materials and finishes, their attributes, pros, and cons, students will be proficient in selecting and recommending appropriate materials that meet functional, aesthetic, and durability requirements for efficient and visually appealing kitchen designs.
			CO4:	Through a comprehensive study of essential kitchen services including water supply, electricity, and drainage, students will possess the expertise to design kitchens with optimized functionality, safety, and sustainability, meeting the diverse needs of modern living.
			CO5:	By mastering the principles of kitchen storage, designing appropriate storage areas, and understanding maintenance needs, students will be equipped to create organized and efficient kitchens that ensure proper storage, accessibility, and upkeep of culinary tools and supplies.
			CO1:	By comprehending the goals, organizational setups, staff responsibilities, and professional context of housekeeping, students will be equipped to contribute effectively to various scales of housekeeping departments and understand the role of housekeeping as a valuable profession in hospitality management.
			CO2:	Through an examination of housekeeping roles within commercial and welfare institutions and coordination with reception, catering, interior decoration, and related departments, students will gain the ability to seamlessly collaborate across diverse sectors to ensure clean, functional, and aesthetically pleasing environments.

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21	BID505C	HOUSE KEEPING AND FRONT OFFICE MANAGEMENT	**CO3:**	Develop a comprehensive understanding of the essential functions of the housekeeping department, including desk control, record keeping, key management, service pantry setup, lost and found procedures, fire/emergency protocols, and first aid measures within hospitality management.
			CO4:	Acquire a thorough knowledge of general maintenance practices encompassing room cleanliness, furniture care, bedding management, and upkeep of linens, blankets, bedspreads, mattresses, and pillow covers within the context of hospitality and facility management.
			CO5:	Develop a comprehensive understanding of the front office's pivotal role in hospitality, covering its layout, equipment, staff attributes, responsibilities, and the job description of a front office assistant, contributing to effective management and guest services in the industry.
22	BID601	SOFT FURNISHINGS	**CO1:**	Gain an in-depth understanding of soft furnishings, their significance in enhancing both functionality and aesthetics within spaces, and develop the ability to select and utilize furnishings effectively.
			CO2:	Acquire knowledge about various window treatment options, including curtains, draperies, blinds, and shades, along with their installation techniques and decorative elements, to enhance interior design.
			CO3:	Develop proficiency in identifying and utilizing different types of furnishings like cushions, bed linens, table linens, kitchen linen, and bath linen, fostering expertise in creating inviting and well-appointed spaces.
			CO4:	Attain comprehensive insights into floor coverings, particularly carpets and rugs, encompassing their types, selection criteria, and installation considerations, facilitating the creation of aesthetically pleasing and comfortable environments.
			CO5:	Master the art of maintaining soft furnishings, including stain removal, repair techniques, laundering procedures, and proper storage methods, ensuring longevity and pristine condition of interior elements.
			CO1:	Gain an in-depth understanding of soft furnishings, their significance in enhancing both functionality and aesthetics within spaces, and develop the ability to select and utilize furnishings effectively.
			CO2:	Acquire knowledge about various window treatment options, including curtains, draperies, blinds, and shades, along with their installation techniques and decorative elements, to enhance interior design.

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23	BID602	APPLIED ARTS	**CO3:**	Develop proficiency in identifying and utilizing different types of furnishings like cushions, bed linens, table linens, kitchen linen, and bath linen, fostering expertise in creating inviting and well-appointed spaces.
			CO4:	Attain comprehensive insights into floor coverings, particularly carpets and rugs, encompassing their types, selection criteria, and installation considerations, facilitating the creation of aesthetically pleasing and comfortable environments.
			CO5:	Master the art of maintaining soft furnishings, including stain removal, repair techniques, laundering procedures, and proper storage methods, ensuring longevity and pristine condition of interior elements.
24	BID603	COMMERCIAL SPACE DESIGNING	**CO1:**	Gain a comprehensive understanding of the concept of commercial art, including its meaning, development, and its relevance within various business contexts.
			CO2:	Acquire the ability to strategically design and plan commercial spaces for diverse purposes, including restaurants, hotels, airports, educational institutions, hospitals, shopping complexes, exhibitions, and trade fairs.
			CO3:	Develop proficiency in creating effective commercial displays through principles of interior arrangement, merchandise presentation, and lighting techniques, enhancing the visual appeal and functionality of commercial spaces.
			CO4:	Master the art of crafting impactful window displays, understanding the core principles, techniques, and arrangements that captivate and engage customers, optimizing the visual impact of commercial establishments.
			CO5:	Explore and understand the latest trends in commercial architecture and design, including the conceptualization of commercial buildings, with a focus on features specific to departmental stores and shopping complexes.
25	BID604A	PROFESSIONAL PRACTICE	**CO1:**	Develop expertise in space planning for residential interiors, covering various rooms like living, dining, kitchen, bedroom, children's room, and bathroom, enabling effective utilization of space while maintaining aesthetic appeal.
			CO2:	Acquire proficiency in space planning for office interiors, encompassing aspects like cabinets, conference rooms, and open office systems, facilitating functional and efficient commercial environments.
			CO3:	Gain a thorough understanding of estimating, including definitions, types of estimates, measurement techniques, quantity surveying, rate analysis, and preparing schedules, empowering effective project cost assessment.
			CO4:	Master the art of creating comprehensive specifications, including definitions, objectives, types, and essential components, enhancing the ability to articulate detailed project requirements effectively.

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			CO5:	Develop a solid grasp of tendering and quotations processes, encompassing meanings, documentation, types, preparation, and understanding contracts, leading to effective project communication and execution.
26	BID604B	ENVIRONMENT CONTROL IN INTERIORS	**CO1:**	Develop expertise in space planning for residential interiors, covering various rooms like living, dining, kitchen, bedroom, children's room, and bathroom, enabling effective utilization of space while maintaining aesthetic appeal.
			CO2:	Acquire proficiency in space planning for office interiors, encompassing aspects like cabinets, conference rooms, and open office systems, facilitating functional and efficient commercial environments.
			CO3:	Gain a thorough understanding of estimating, including definitions, types of estimates, measurement techniques, quantity surveying, rate analysis, and preparing schedules, empowering effective project cost assessment.
			CO4:	Master the art of creating comprehensive specifications, including definitions, objectives, types, and essential components, enhancing the ability to articulate detailed project requirements effectively.
			CO5:	Develop a solid grasp of tendering and quotations processes, encompassing meanings, documentation, types, preparation, and understanding contracts, leading to effective project communication and execution.
27	BID604C	FINE ARTS – DRAWING AND PAINTING	**CO1:**	Course Outcome: Develop proficiency in using drawing equipment and supports, along with different types of brushes, enabling the creation of designs on various surfaces using appropriate tools.
			CO2:	Acquire skills in using a variety of drawing media, including pencils, charcoal, pastels, conte crayons, pens, markers, and accessories, allowing for diverse artistic expressions.
			CO3:	Gain expertise in painting media such as watercolor, gouache, tempera, acrylics, and oil paints, including understanding binders, diluents, mediums, palettes, and accessories, leading to the creation of wall hangings.
			CO4:	Develop techniques of drawing encompassing line, points, tone, wash, and texture, and apply them to create greeting cards using varied methods, enhancing artistic versatility.
			CO5:	Master color theory and composition principles, including color language, tonal value, mixing, expression, contrast, and focal point creation, while evaluating the works of three prominent artists, leading to well-informed artistic choices.

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28	BID605A	ERGONOMICS	**CO1:**	Develop a comprehensive understanding of ergonomics, encompassing its meaning, importance, and factors related to workers, workplaces, tools, equipment, and environmental conditions.
			CO2:	Acquire proficiency in creating optimal work environments, covering aspects like location, spatial considerations, climate, furniture, lighting, ventilation, flooring, noise, storage, and kitchen layouts, enhancing comfort and efficiency.
			CO3:	Gain expertise in anthropometry, including understanding workers' dimensions at work and rest, vertical and horizontal reaches, work heights, and the relationship between workers, workspace, and activities, leading to ergonomic workspace design.
			CO4:	Develop skills to enhance work efficiency through principles of work simplification, effective body mechanics, and posture adjustments for various activities, incorporating Mundel's classes of change.
			CO5:	Master the art of designing work areas based on ergonomic principles, utilizing activity analysis to optimize efficiency and comfort in workspaces.
29	BID605B	GREEN BUILDING TECHNOLOGY	**CO1:**	Develop a comprehensive understanding of green building technology, encompassing its meaning, concept, significance, benefits, and the positive impact of green buildings on human health and the natural environment.
			CO2:	Acquire proficiency in identifying and utilizing eco-friendly materials and finishes like bamboo, straw, wood, stone, recycled materials, and various fibers, promoting sustainable construction practices in green buildings.
			CO3:	Gain expertise in green building practices and technologies, including designing sustainable roofing, walls, floors, electrical, plumbing, windows, doors, HVAC systems, insulation, interior finishes, and landscaping for environmentally responsible construction.
			CO4:	Master the concepts of renewable energy resources, focusing on solar energy, its advantages, and the functioning of solar devices such as room heaters, lights, water heaters, and air conditioners, contributing to energy-efficient and eco-friendly building designs.
			CO5:	Develop skills in water conservation technology, with a focus on rainwater harvesting, understanding its importance, structural requirements, various system types, and advantages, promoting responsible water management in green building projects.
			CO1:	Develop a comprehensive understanding of entrepreneurship, encompassing the concepts of entrepreneur, enterprise, and entrepreneurship, along with the transition to self-employment, key entrepreneurial qualities, and challenges faced by entrepreneurs.

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30	BID605C	ENTREPRENEURIAL DEVELOPMENT	**CO2:**	Acquire proficiency in recognizing the multifaceted factors influencing entrepreneurial development, including economic, legal, socioeconomic, psychological, and environmental aspects, leading to a holistic understanding of the entrepreneurial ecosystem.
			CO3:	Gain expertise in the agencies that support entrepreneurial development programs, including SIDCO, DIC, TIIC, EDII, SIPCOT, and KVIC, and understand the role of institutional finance provided by entities like IDBI, ICICI, RBI, and LIC in fostering entrepreneurial initiatives.
			CO4:	Master the process of project identification and classification, including understanding project concepts, identification, classification, internal and external constraints, and setting project objectives, leading to effective project planning.
			CO5:	Develop skills in project formulation, covering its concept, necessity, essential elements, selection criteria, appraisal formats, feasibility report checklists, and adherence to planning commission guidelines, enabling effective project planning and decision-making.

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