



MVPS's SP College of Architecture

Udhaji Maratha Boarding Campus, Off Gangapur Road, Nashik-13

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Criterion 2

Teaching - Learning and Evaluation

2.6 - Student Performance and Learning Outcomes

2.6.1



Criterion 2 – Teaching- Learning and Evaluation

Key Indicator – 2.6 Student Performance and Learning Outcomes

2.6.1 Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution.

B. ARCH

Sr. No.	Contents (Documents)
1	Course Outcomes 2019 Pattern
2	Course Structure 2019 Pattern, B.Arch SPPU (Savitribai Phule Pune University)

B. DESIGN

Sr. No.	Contents (Documents)
1	Course Outcomes 2023Pattern
2	Course Outcomes 2015 Pattern
3	Course Structure B.Design, 2023Pattern SPPU (Savitribai Phule Pune University)
4	Course Structure B.Design, 2015Pattern SPPU (Savitribai Phule Pune University)



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2.6.1

Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution.

Course Outcomes 2019 Pattern.



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COURSE OUTCOMES FOR B. ARCH. 2019 PATTERN

Course Objectives as mentioned in syllabus of 2019 Pattern are referred and combined with Bloom's Taxonomy for learning.

FIRST YEAR B.ARCH - SEM I					
1	Basic Design	1201901 (SS)	1201901.1	CO 1	The students should be able to relate the elements of basic design, principles of design, various techniques and sources to improve creativity and multisensory aspects of space to architectural design.
			1201901.2	CO 2	The students should understand the elements of basic design, principles of design, various techniques and sources to improve creativity and multisensory aspects of space.
			1201901.3	CO 3	The students should be able to apply the elements of basic design, principles of composition for space making and also experiment with various techniques and sources to improve creativity.
			1201901.4	CO 4	The students should be able to examine the various elements of basic design and principles of design and multisensory aspects of space.
			1201901.5	CO 5	The students should be able to critically appraise the application of elements of basic design, principles of composition and multisensory aspect of space in space making.
			1201901.6	CO 6	The students should be able to create their own explorations, and spatial design demonstrating the application of elements of basic design and principles of design.
2	Building Construction & Materials I	1201902 (PP), 1201903 (SV)	1201902.1	CO 1	To know fundamentals of basic building elements from foundation to roof, their functions and behaviors under various conditions, with specific reference to load bearing construction and materials suitable for the same.
			1201902.2	CO 2	To understand principles of designing components of load bearing structures from foundation to roof, their functions and behaviors under various conditions, with specific reference to load bearing construction and materials suitable for the same.
			1201902.3	CO 3	To apply knowledge of principles of designing components of load bearing structures, their functions and behaviors under various conditions and suitable materials to design building components from foundation to roof.
			1201902.4	CO 4	To analyze and examine suitability of various building materials for construction of load bearing structures with reference to their behaviors under various conditions.

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			1201902.5	CO 5	To validate and compare various building materials for their applicability in load bearing construction with reference to their behaviors under various conditions.
3	Theory of Structures I	1201904 (P)	1201904.1	CO 1	Recalling the Applied Mechanics basics concepts and Theory of Structures and their significance
			1201904.2	CO 2	Understand & summarize the detailed technics and relate them in numerical
			1201904.3	CO 3	Application of the knowledge in numerical so students will experiment on it, which help them at the time planning
			1201904.5	CO 5	Determine the answer by using or by putting CO2 various values
4	Arch Graphics & Drawing I	1201905 (SS)	1201905.1	CO 1	To learn the language of graphics, architectural drawing techniques, techniques of sketching for recording, studying and communicating objects, buildings and spaces.
			1201905.2	CO 2	To understand methods to express simple three-dimensional objects and building components Through Technical Drawings, using various graphic projection systems such as orthography, Isometric, Axonometric projections and cut sections.
			1201905.3	CO 3	To express architectural drawings by applying language of graphics and graphical projection systems such as orthography, Isometric, Axonometric projections and cut sections.
			1201905.4	CO 4	To develop visualization skills by analyzing simple three-dimensional objects and building components through Technical Drawings.
			1201905.5	CO 5	To compare various methods for recording, studying and communicating objects, buildings and spaces in order to express architectural design.
			1201905.6	CO 6	To create a set of conceptual and technical drawings in all subjects.
5	History of Architecture & Culture I	1201906 (SS)	1201906.1	CO 1	To gain an integrated knowledge of settlements, landscape, and architecture as a manifestation of culture and geography.
			1201906.2	CO 2	The students should be able to understand Developments in architecture through history as a result of the social, political, and geographical contexts.
			1201906.3	CO 3	The student should be able to relate the linkages between architecture and the socio- cultural, political and economic context of the period.
			1201906.4	CO 4	The student should be able to analyze the regional and temporal variations in archetypes and the rationale for the same.
			1201906.5	CO 5	The student should be able to determine and decide the style of structure from the spatial, structural and decorative elements.

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6	Communication Skills	1201907 (SS)	1201907.1	CO 1	Students will be able to choose from various communication skills for effective communication in architectural education and practice depending upon the need of the project.
			1201907.2	CO 2	Students will be able to demonstrate the use of various communication skills for effective communication in architectural education and practice like written, graphical, verbal, non-verbal as well as digital communication.
			1201907.3	CO 3	Students will experiment with various communication skills for as per need of the project to effectively communicate in architectural education and practice like written, graphical, verbal, non-verbal as well as digital communication.
			1201907.4	CO 4	Students will be able to categorize and inspect various communication skills for effective communication in architectural education and practice like written, graphical, verbal, non-verbal as well as digital communication.
			1201907.5	CO 5	Students will be able to determine application of various communication skills for effective communication in architectural education and practice like written, graphical, verbal, non-verbal as well as digital communication as per need.
			1201907.6	CO 6	The course should prepare the students to adapt and modify their own methods for effective communication in architectural education and practice like written, graphical, verbal, non-verbal as well as digital communication as per need.
7	Workshop I	1201908 (SS)	1201908.1	CO 1	To learn the techniques of various types of paper cutting, folding, pasting, and finishing skills. Memorizing and defining by practice
			1201908.2	CO 2	To understand methods to express simple three-dimensional objects and components through Technical Drawings, using various graphic projection systems such as Orthography, Isometric, Axonometric projections and cut sections and making objects in an innovative way.
			1201908.3	CO 3	To express architectural forms by applying various types of techniques and various ideas.
			1201908.4	CO 4	To develop visualization skills by creating and analyzing simple three-dimensional objects and different components technically.
			1201908.5	CO 5	To compare various methods for creating, molding, studying and communicating objects, buildings and spaces in order to express architectural design.
			1201908.6	CO 6	To create set of conceptual and technical models.

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FIRST YEAR B.ARCH - SEM II					
8	Architectural Design I	1201909 (SV)	1201909.1	CO 1	The students should know the aspects of decision making in architectural design such as anthropometry, climate, form, function, structure, and material, experiential quality of space and socio cultural, geographical factors.
			1201909.2	CO 2	The students should comprehend architectural design as a process of decision making and various aspects related to it.
			1201909.3	CO 3	The students should be able to apply knowledge of anthropometry, climate, form, function, structure, material etc. to design a simple space for human use.
			1201909.4	CO 4	The students should be able to analyze simple spaces and identify factors affecting their design.
			1201909.5	CO 5	The students should be able to evaluate simple spaces and rural settlements based on anthropometry, climate, form, function, structure, and material, experiential quality of space and socio cultural, geographical factors.
			1201909.6	CO 6	The students be able to design a simple space for human use.
9	Building Construction & Materials II	1201910 (P), 1201911 (SV)	1201910.1	CO 1	To know fundamentals of basic building elements from foundation to roof, their functions and behaviors under various conditions, with specific reference to load bearing construction and timber construction.
			1201910.2	CO 2	To understand principles of designing components of timber structures, their functions and behaviors under various conditions for load bearing construction.
			1201910.3	CO 3	To apply knowledge of principles of designing components of timber structures, their functions and behaviors under various conditions for load bearing construction.
			1201910.4	CO 4	To analyze and co relate various timber components with construction technologies, using timber and timber derivatives.
			1201910.5	CO 5	To evaluate applicability of timber construction technologies in designing various timber components.
10	Theory of Structures II	1201912(P)	1201912.1	CO 1	Recalling Simple Stresses and Strains
			1201912.2	CO 2	Understand & summarize the detailed technics of Simple Stresses and Strains relate them in numerical
			1201912.3	CO 3	Application of the knowledge in numerical so students will experiment on it , which help them at the time planning
			1201912.5	CO 5	Determine the answer by using CO2 or by putting various values
11		1201913 (SS)	1201913.1	CO 1	To learn techniques of expressing Composite Three-Dimensional objects and buildings formed by additive

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	Arch Graphics & Drawing II			and interpenetrated solids and to communicate an architectural idea / proposal in a legible and effective manner.	
		1201913.2	CO 2	To understand various graphical projection systems including sections, perspective projections, use of shades and shadows etc. to communicate an architectural idea / proposal.	
		1201913.3	CO 3	To apply various graphical projection systems including sections, perspective projections, use of shades and shadows etc. to communicate an architectural idea / proposal.	
		1201913.4	CO 4	To develop visualization skills by analyzing composite three dimensional objects and buildings through various graphical projection systems.	
		1201913.5	CO 5	To compare various projection methods for communicating objects, buildings and spaces in order to express architectural design.	
		1201913.6	CO 6	To create set of conceptual and technical drawings in all subjects.	
12	History of Architecture & Culture II	1201914 (SS)	1201914.1	CO 1	To remember the development of Mughal architecture and to gain knowledge about the architectural characteristics and differences of Islamic architecture.
			1201914.2	CO 2	The students should be able to understand the development of architecture with specific reference to form, technology, and ornament as a result of the social, political, and geographical contexts.
			1201914.3	CO 3	The student should be able to relate the linkages between architecture and the socio- cultural, political and economic context of the period.
			1201914.4	CO 4	The student should be able to analyze the regional and temporal variations in archetypes and the rationale for the same.
			1201914.5	CO 5	The student should be able to determine and decide the style of structure from the spatial, structural and decorative elements.
13	Fundamentals of Architecture	1201915 (SS)	1201915.1	CO 1	Students will be able to relate to the various roles an architect has to play simultaneously and define the nature of Architecture.
			1201915.2	CO 2	Students will understand the scope of Architecture as one is interpreting its evolution through time to explain the definition of architecture.
			1201915.3	CO 3	Students will be able to identify various fundamentals of Architecture and develop awareness about their manifestation in Architecture.
			1201915.4	CO 4	Students will be able to decode the Generators of Architectural Design and inspect their relationship with each other and illustrate it graphically.

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			1201915.5	CO 5	Students will be able to assess the aesthetic and functional components of Architecture and conduct an appraisal of the same.
			1201915.6	CO 6	The course should prepare the students to construct their own paradigms of Architectural design backed by a theoretical knowledge to test them further in proposing a design solution.
14	Workshop II	1201916 (SS)	1201916.1	CO 1	To acquire knowledge from all types of workshop machineries, techniques by making three-Dimensional objects and creative forms by abstract and interpenetrated solids and Architectural conceptual idea. Hands on experimentation with various materials.
			1201916.2	CO 2	To understand various graphical projection systems including sections, perspective projections, use of shades and shadows etc. to communicate with an architectural idea / proposal by using a design software.
			1201916.3	CO 3	To apply various types of material to create models, use of shades and shadows etc. to communicate with an architectural idea / proposal by using design software.
			1201916.4	CO 4	To develop visualization skills by analyzing composite three dimensional objects and buildings through various graphical projection systems with design software and making model.
			1201916.5	CO 5	To compare various projection methods for communicating objects, buildings and spaces in order to express architectural design while creation of various models.
			1201916.6	CO 6	To create models from conceptual and technical drawings.

SECOND YEAR B.ARCH - SEM III

15	Architectural Design II	2201917 (SV)	2201917.1	CO 1	Students will be able to choose from design iteration process at various scales/ levels.
			2201917.2	CO 2	Students will be able to comprehend relationship between design, visual arts, building construction, climatology, building materials, structure etc. and evolve a design solution.
			2201917.3	CO 3	Students will be able to select and experiment with aesthetical, functional (activity, user, space relation) , technical (construction and material) and environmental (climatic, socio-geographic) aspects of architectural design.
			2201917.4	CO 4	Students will be able to classify and re-interpret various sources for inspiration for architectural design such as nature, history, geometry, culture etc.

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			2201917.5	CO 5	Students will be able to appraise multi-functional, multi-cellular built environments from various case studies to determine generators for their own design
			2201917.6	CO 6	The course should prepare the students to develop their own suitable design language for architectural design of multi-functional, multi-cellular built environments.
16	Building Construction & Materials III	2201918 (P), 2201919 (SV)	2201918.1	CO 1	Students will be able to relate the soil study with foundation type and various Structural RCC Components with the materials used in RCC
			2201918.2	CO 2	The students will be able to understand the basic principles of RCC, various Prerequisites and Designing of RCC Structural construction with respect to smaller span structures.
			2201918.3	CO 3	Students should be able to choose the appropriate type of RCC Components such as types of Beams, Slabs, Staircases and Material such as Concrete types, flooring, paving etc.
			2201918.4	CO 4	Students should be able to examine and compare various building materials used in RCC Construction such as concrete, steel etc.
			2201918.5	CO 5	Student should be able to interpret and evaluate various construction technologies as per site situations.
			2201918.6	CO 6	Student will be able to design and develop appropriate construction and working details for a RCC building component up to plinth level for smaller span structures.

17	Theory of Structures III	2201920 (P)	2201520.1	CO 1	Recalling the Euler's and Rankine's Theory for Buckling and Crushing Failure in Columns
			2201520.2	CO 2	Understand Assumptions and Limitations. Concepts of End Conditions & summarize the detailed technics and relate them In numerical
			2201520.3	CO 3	Application of the knowledge in numerical so students will experiment on it , which help them at the time planning
			2201520.5	CO 5	Determine the answer by using CO2 or by putting various values
18	Computer Aided Drawing & Graphics	2201921 (SS)	2201921.1	CO 1	Students learn to communicate an architectural idea / proposal in a legible and effective manner through various architectural presentations and rendering techniques..
			2201921.2	CO 2	The students shall be able to understand principles of perspective drawings, sketching & CAD by technical methods.
			2201921.3	CO 3	To produce architectural objects by applying design ideas through various sketching and presentation techniques & CAD illustration software programs.

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			2201921.4	CO 4	The students will develop their imaginary skills by analyzing different drafting tools & technique.
			2201921.5	CO 5	Students should be able to communicate various ideas through architectural graphic representations (drafting and sketching).
			2201921.6	CO 6	Students should be able to comprehend and express nuances of graphic language through various presentation techniques and methods learnt.
19	History of Architecture & Culture III	2201922 (SS)	2201922.1	CO 1	The students should be able to gain the knowledge about development of European architecture through the historical period
			2201922.2	CO 2	The students should be able to understand the construction technology using the different materials.
			2201922.3	CO 3	The student should be able to relate the linkages between architecture and the socio- cultural, political and economic context of the period.
			2201922.4	CO 4	The student should be able to analyze the regional and temporal variations in archetypes and the drivers of change, revival, and evolution of architecture
			2201922.5	CO 5	The student should be able to determine and decide the style of structure from the spatial, structural and decorative elements.

20	Building Services I	2201923 (P), 2201924 (SS)	2201923.1	CO 1	To list and relate the basics of Building Services- water supply, systems of drainage and plumbing in building for an existing Architectural Project.
			2201923.2	CO 2	To learn and relate the basics of Building Services- water supply, systems of drainage in building and Garbage disposal for a existing Architectural Project.
			2201923.3	CO 3	The course intends to inculcate in students the integration of building services in Architectural Design for low, medium and high-rise buildings.
			2201923.4	CO 4	The course intends to co relate and compare the different options available for waste disposal, rainwater harvesting, lighting and electrification, alternative energy sources and existing examples of built structures.
			2201923.5	CO 5	The course intends to enable students to determine the appropriate method building services in architectural design.
			2201923.6	CO 6	The course intends to enable students to determine the appropriate method building services in architectural design.
21	Climatology	2201925 (SS)	2201925.1	CO 1	The students should be able to relate climate and architecture, recognize the various climatic zones in India with respective traditional climate responsive architecture.

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			2201925.2	CO 2	The students should be able to understand climate as a determinant of architectural design and various climate responsive building design criteria.
			2201925.3	CO 3	The students should be able to apply climate responsive building design for various climates and microclimatic site conditions.
			2201925.4	CO 4	The students should be able to examine, correlate and illustrate the different climate responsive design strategies applicable for site microclimate and climatic zones in India.
			2201925.5	CO 5	The students should be able to compare and justify applicability of various climate responsive building design strategies in architectural design to achieve thermal comfort.
			2201925.6	CO 6	The students should be able to propose climate responsive design solutions to integrate with their architectural design projects.

SECOND YEAR B.ARCH - SEM IV

22	Architectural Design III	2201926 (SV)	2201926.1	CO 1	Students will be able to find out and select attributes of Architectural character through application of indigenous materials, construction technology from the documentation of a settlement in different regional and climatic context.
			2201926.2	CO 2	Students will be able to comprehend site specific stimuli through responses to physical, climate, visual, cultural contexts from the documentation of a settlement in different regional and climatic context.
			2201926.3	CO 3	Students will be able to apply zoning, activity distribution, circulation and activity relationships to multiple layering of architectural space
			2201926.4	CO 4	Students will be able to analyze passive solar responses and fenestration design from settlement study to test them in their own designs
			2201926.5	CO 5	Students will be able to appraise function and space studies as well as defined user group specific perception of space and compare it with their own design solutions
			2201926.6	CO 6	The course should prepare the students to develop their own suitable design language for architectural design of multicellular, multiple level spaces by

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					application of principles of functionality, climate, composition, and aesthetics.
23	Building Construction & Materials IV	2201927 (P), 2201928 (SV)	2201927.1	CO 1	Students will be able to relate basic principles of RCC with various Structural RCC Components and materials used in RCC
			2201927.2	CO 2	The students will be able to understand the basic principles of RCC, various Prerequisites and Designing of RCC Structural construction with respect to cantilever slabs, staircase and vertical transportation.
			2201927.3	CO 3	Students should be able to choose the appropriate type of materials, RCC component type and detailing for various types of building components.
			2201927.4	CO 4	Students should be able to examine and compare various building materials and technology used in construction such as concrete, steel, damp proofing materials, glass and plastics. etc.
			2201927.5	CO 5	Student should be able to interpret and evaluate various construction technologies and detailing as per site situations such as door types, lift or escalator types.
			2201927.6	CO 6	Student will be able to design and develop appropriate construction and working details for a RCC building component in superstructure smaller span structures.
24	Theory of Structures IV	2201929 (P)	2201929.1	CO 1	Recalling Wood by W.S Method, Introduction to I.S.883 Study of Wood as a Material. Different Grades Available
			2201929.2	CO 2	Understand Design of Wood & summarize the detailed technics and relate them in numerical
			2201929.3	CO 3	Application of the knowledge in numerical so students will experiment on it , which help them at the time planning
			2201929.5	CO 5	Determine the answer by using CO2 or by putting various values
25	Environmental Science	2201930 (SS)	2201930.1	CO 1	The students should have basic introduction to Multidisciplinary nature of environmental studies with focus on Natural Resources, Eco Systems, Biodiversity and its conservation, Environmental Pollution, Environment Legislation and Social aspects of environment, Environment friendly buildings.
			2201930.2	CO 2	The students understand Multidisciplinary nature of environmental studies, current environmental issues and its interconnectedness with architecture/development.
			2201930.3	CO 3	The students should be able to apply knowledge of environmental studies to understand interconnectedness of current environmental issues and architecture/development.

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Principals

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			2201930.4	CO 4	The students should be able to analyze current environmental issue and its interconnectedness with architecture/development.
			2201930.5	CO 5	The students should be able to judge and recommend architectural interventions to minimize current environmental issues.
26	History of Architecture & Culture IV	2201931 (SS)	2201931.1	CO 1	The students should be able to gain the developments in architecture of the post-medieval Western World.
			2201931.2	CO 2	The students should be able to understand the development of architecture with specific reference to form, technology, and ornament.
			2201931.3	CO 3	The student should be able to relate the linkages between architecture and the socio- cultural, political and economic context of the period.
			2201931.4	CO 4	The student should be able to analyze the regional and temporal variations in archetypes and the drivers of change with respect to contemporary architecture of the world with respect to historical precedents.
			2201931.5	CO 5	The student should be able to determine and decide the style of structure from the formal, structural, and stylistic aspects of architectural development.
27	Building Services II	2201932 (P), 2201933 (SS)	2201932.1	CO 1	To list and relate the basics of Building Services- water supply, systems of drainage and plumbing in building for an existing Architectural Project.
			2201932.2	CO 2	To learn and relate the basics of Building Services- water supply, systems of drainage in building and Garbage disposal for an existing Architectural Project.
			2201932.3	CO 3	The course intends to inculcate in students the integration of building services in Architectural Design for low, medium and high-rise buildings.
			2201932.4	CO 4	The course intends to co relate and compare the different options available for waste disposal, rainwater harvesting, lighting and electrification, alternative energy sources and existing examples of built structures.
			2201932.5	CO 5	The course intends to enable students to determine the appropriate method building services in architectural design.
			2201932.6	CO 6	The course intends to enable students to determine the appropriate method building services in architectural design.
28	Site Survey & Analysis	2201934 (SS)	2201934.1	CO 1	To introduce students to the various factors related to Site Survey and Analysis relevant to Architectural Site Planning
			2201934.2	CO 2	Understand the basic principles of surveying for vertical, horizontal, linear and angular measurements to arrive at solutions to basic surveying problems.

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			2201934.3	CO 3	Understanding leveling (auto level, theodolite) and using it in field of construction. Further draw contours.
			2201934.4	CO 4	Analyze type of survey operation required for problem solving in field to perform.
			2201934.5	CO 5	The course will prepare students to determine the importance as well as judge their interest in the particular field of specialization chosen to decide their further course of career.
			2201934.6	CO 6	Design and implement different types of curves for deviating type of alignments, and Creating surveying techniques to align highway and railway curves.

THIRD YEAR B.ARCH - SEM V					
			3201935.1	CO 1	Students will be able to define the role of Campus planning for designing buildings with different functions, requiring spaces of different scales and employing suitable structural systems. Also, students are expected to address functional aspects of design and the building services such as storm water management, locations of water tanks, sewage disposal system, and etc.to sustain campus by itself.
			3201935.2	CO 2	Students will understand various socio-cultural patterns, geographic context and identify the needs of the users and the site to evolve a sustainable design along with aesthetic aspects of Design, spatial attributes and formal characteristics.
29	Architectural Design IV	3201935 (SV)	3201935.3	CO 3	Students will be able to apply their knowledge in sustainable site planning and designing based on various factors for achieving functional (activity, user, space relation), aesthetic, Technical (construction and material), environmental (climatic, socio-geographic) and Cultural goals which shall be integrated in built and inbuilt spaces.
			3201935.4	CO 4	Students will be able to analysis and synthesis of various design parameters in built-unbuilt spatial relationship; also classify and re-interpret various sources for inspiration for architectural design such as nature, history, geometry, culture Topography, context, philosophy, material, existing vegetation etc.
			3201935.5	CO 5	Students will be able to appraise multi-functional, multi-cellular built environments from various case studies to determine generators for their own design

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			3201935.6	CO 6	The course will guide students to, formulate and develop design proposal for pilot projects culminating into an idea, concept generation and visualization that encourages sensitivity towards their own suitable design language for multi-functional, multi-cellular built environments.
30	Building Construction & Materials V	3201936 (PP), 3201937 (SV)	3201936.1	CO 1	The student is able to identify and relate different types of Interior elements, variations in frame structure, RCC flooring systems and single basement construction.
			3201936.2	CO 2	The student is able to understand characteristics and properties of various Interior elements, variations in frame structure, RCC flooring systems and single basement construction.
			3201936.3	CO 3	The student is able to make use of technology to develop different possibilities of assembling interior elements.
			3201936.4	CO 4	The student is able to survey, classify and examine different types of technology and materials suitable for Interior elements, variations in frame structure, RCC flooring systems and single basement construction.
			3201936.5	CO 5	The student is able to inculcate an analytical thinking about selection and application of appropriate material and technology.
			3201936.6	CO 6	The student is able to propose an appropriate solution for a specific design requirement related to Interior elements, frame structure, RCC flooring systems or single basement construction.
31	Theory of Structures V	3201938(P)	3201938.1	CO 1	Recalling theory only on Support Systems and Reinforcement Detailing in the various Cases
			3201938.2	CO 2	Understand & summarize the detailed technics of Staircase Support Systems and relate them in numerical
			3201938.3	CO 3	Application of the knowledge in numerical so students will experiment on it , which help them at the time planning
			3201938.5	CO 5	Determine the answer by using CO2 or by putting various values
32	Landscape Architecture	3201939 (SS)	3201939.1	CO 1	Students will be able to define the scope of Landscape architecture based on their knowledge and exposure on various factors which are required in landscape practice.
			3201939.2	CO 2	Students will understand different socio-cultural patterns, geographic context and address the needs of the users and the site and evolve a sustainable design
			3201939.3	CO 3	Students will be able to apply their knowledge in site planning and designing based on various factors for achieving functional, aesthetic, environmental and cultural goals

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			3201939.4	CO 4	Students will be able to discover, classify, and analyze different natural and manmade aspects such as Microclimate, topography, hydrology, vegetation, physical and socio-cultural context through various examples / case studies / practices in field of landscape architecture.
			3201939.5	CO 5	Students will be able to build their interest in landscape architecture by appraising various works in the field and its scope.
			3201939.6	CO 6	The course will guide students to, formulate and develop design proposal for pilot projects culminating into an idea, concept generation and visualization that encourages creative thinking.
33	Elective I (Contemporary Architecture)	3201940 (SS)	3201940.1	CO 1	The students should be able to relate and recall the various features of the architectural styles which emerged in the 19th and 20th century.
			3201940.2	CO 2	The students should be able to interpret and establish a critical viewpoint about contemporary trends and approaches in architectural production.
			3201940.3	CO 3	Application of the knowledge gained through the study of history of architecture to analyze contemporary architecture.
			3201940.4	CO 4	To analyze the contemporary trends/approaches in architectural production in terms of design, practices, its perception, appreciation and critical discourses.
			3201940.5	CO 5	To critically reflect and comment on contemporary architecture across the world.
			3201940.6	CO 6	The students will be able to hypothesize and develop their individual view point and construct an argument to put it across.
34	Building Services III	3201941 (P), 3201942 (SS)	3201942.1	CO 1	To obtain knowledge of technical and design aspects of natural ventilation, heating, cooling and HVAC systems and their components.
			3201942.2	CO 2	To comprehend natural ventilation, heating, cooling and HVAC services as an integral part of architectural design process and to understand its working principles, components, materials and provisions in architectural design.
			3201942.3	CO 3	To have application of functional and aesthetic aspects of natural ventilation, heating, cooling and HVAC systems in architectural design.
			3201942.4	CO 4	To analyze and compare suitability of various ventilation systems in buildings, with respect to their working principles, components, materials and provisions in architectural design.
			3201942.5	CO 5	To judge suitability of different HVAC systems in buildings after estimating cooling loads of spaces.
			3201942.6	CO 6	To design air conditioning system and ducting layout for a space or part of a building.

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35	Working Drawing I	3201943 (SS)	3201943.1	CO 1	To know the basics of working drawing for Load Bearing Structure
			3201943.2	CO 2	To understand various terms used in working drawing along with graphical representation and annotations
			3201943.3	CO 3	To develop and apply graphical representation in working drawing.
			3201943.4	CO 4	To classify, analyze and compare various drawings and its co-relation with each other
			3201943.5	CO 5	To acquaint students with the methodology and sequence of various working drawings and its importance in professional practice
			3201943.6	CO 6	To create a working drawing set of an architectural design.

THIRD YEAR B.ARCH - SEM VI

36	Architectural Design V	3201944 (SV), 3201945 (P)	3201944.1	CO 1	Students will be able to define the role of Campus planning for designing buildings with different functions, requiring spaces of different scales and employing suitable structural systems. Also, students are expected to list down the building services such as storm water management, locations of water tanks, sewage disposal system, etc. to sustain campus by itself.
			3201944.2	CO 2	Students will understand various socio-cultural patterns, geographic context and identify the needs of the users and the site to evolve a sustainable design.
			3201944.3	CO 3	Students will be able to apply their knowledge in sustainable site planning and designing based on various factors for achieving functional (activity, user, space relation), aesthetic, Technical (construction and material), environmental (climatic, socio-geographic) and Cultural goals which shall be integrated in built and inbuilt spaces.
			3201944.4	CO 4	Students will be able to analysis and synthesis of various design parameters in built-unbuilt spatial relationship; also classify and re-interpret various sources for inspiration for architectural design such as nature, history, geometry, culture Topography, context, philosophy, existing vegetation etc.
			3201944.5	CO 5	Students will be able to appraise multi-functional, multi-cellular built environments from various case studies to determine generators for their own design
			3201944.6	CO 6	The course will guide students to, formulate and develop design proposal for pilot projects culminating into an idea, concept generation and visualization that encourages sensitivity towards their own suitable design language for multi-functional, multi-cellular built environments.

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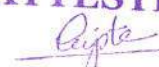
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37	Building Construction & Materials VI	3201946 (SV)	3201946.1	CO 1	The student is able to identify and define different type of building materials, fencing and Gates, earthquake resistant frame structures, modular co-ordination and steel structures.
			3201946.2	CO 2	The student is able to understand characteristics and properties of various building materials, earthquake resistant frame structures, fencing and Gates, modular co-ordination and steel structures.
			3201946.3	CO 3	The student is able to make use of technology to develop different possibilities for steel Trusses, earthquake resistant frame structures, modular co-ordination and steel structures.
			3201946.4	CO 4	The student is able to survey, classify and examine different types of technology and materials suitable for building construction.
			3201946.5	CO 5	The student is able to inculcate an analytical thinking about selection and application of appropriate material and technology.
			3201946.6	CO 6	The student is able to propose an appropriate solution for a specific design requirement related to steel trusses, earthquake resistant frame structures, modular co-ordination and steel structures.
38	Theory of Structures VI	3201947(P)	3201947.1	CO 1	Recalling the theory only on Doubly Reinforced Beams, T and L Beams and to adopt span to depth ratios for
			3201947.2	CO 2	Understand columns across multiple floors changing grade and percentage of steel and grade of concrete & summarize the detailed technics and relate them in numerical
			3201947.3	CO 3	Application of the knowledge OF lateral pressure and understand the proportioning and stability of a gravity retaining wall in numerical so students will experiment on it , which help them at the time planning
			3201947.5	CO 5	Determine the answer by using CO2 or by putting various values
39	Research in Architecture I	3201948 (SS)	3201948.1	CO 1	To be able to search, identify and select the topics of interest and to enhance knowledge & personal skill by listening, memorizing and improving cognitive abilities. And to know the significance of research in architecture and ethical practices in Research
			3201948.2	CO 2	To develop understanding for various aspects of research in summarizing, categorizing, comparing and inferring its value of association with different fields.
			3201948.3	CO 3	To prepare and articulate the information collected
			3201948.4	CO 4	To organize, appraise and explain the various parameters of research correlating them with diverse domain
			3201948.5	CO 5	To be able to validate, comment, review or criticize various parameters of research topics.

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			3201948.6	CO 6	The course will facilitate to compose, write and formulate the synopsis for their pilot project.
40	Elective II	3201949 (SS)	3201949.1	CO 1	Students will choose an area of interest based on their previous knowledge / exposure for further exploration.
			3201949.2	CO 2	Students will understand a particular field of specialization chosen in detail to clarify that field's concepts and application.
			3201949.3	CO 3	Students will be able to develop special skills in the particular field of specialization chosen in terms of application by exploring the recent developments in the field of architecture.
			3201949.4	CO 4	Students will be able to analyze various examples / case studies / practices in the particular field of specialization chosen and to compare the same with larger context of overall sphere of Architecture.
			3201949.5	CO 5	The course will prepare students to determine the importance as well as judge their interest in the particular field of specialization chosen to decide their further course of career.
			3201949.6	CO 6	The course will train students to explore projects in the particular field of specialization chosen to build their interest and understanding in that field.
41	Building Services IV	3201950 (P), 3201951 (SS)	3201951.1	CO 1	To obtain knowledge of technical and design aspects of generation and propagation of sound, properties of sound & the fire triangle, causes, impacts, basic terminology of fire protection
			3201951.2	CO 2	To comprehend construction for acoustical treatment as an integral part of architectural design process and to understand Parameters for good acoustical conditions, parameters for noise control materials for it and architectural changes to be made in designing a structure. To comprehend construction for occupancy based classification of buildings, fire zones, construction types, fire rating requirements
			3201951.3	CO 3	To have application of functional and aesthetic aspects of acoustics and fire safety in architectural design.
			3201951.4	CO 4	To analyze and compare suitability of various acoustical treatments in buildings, with respect to their working principles, components, materials and provisions in architectural design. To analyze and compare suitability of various firefighting installations, with respect to their working principles, components along with passive design strategies for fire protection
			3201951.5	CO 5	To judge suitability of different acoustical treatments after Reverberation time calculations and provide recommendations for acoustical treatment. To judge suitability of different fire protection measures in buildings.

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			3201951.6	CO 6	To design acoustical system and for a space or part of a building. To design passive and active fire protection for a space or part of a building.
42	Working Drawing II	3201952 (SS)	3201952.1	CO 1	To know the basics of working drawing for RCC frame structure
			3201952.2	CO 2	To understand various term used in working drawing along with graphical representation and annotations
			3201952.3	CO 3	To develop and apply graphical representation in working drawing.
			3201952.4	CO 4	To classify, analyze and compare various drawings and its co-relation with each other
			3201952.5	CO 5	To acquaint students with the methodology and sequence of various working drawings and its importance in professional practice

FOURTH YEAR B.ARCH - SEM VII

43	Architectural Design VI	4201953 (SV)	4201953.1	CO 1	The student is able to identify the various features involved in the urban fabric in terms of typology, area, function and context.
			4201953.2	CO 2	To understand the housing in urban context, preferably in a different socio-cultural-economic setting than the institute and document the study in the form of a report various issues which need to be considered for envisaging a design project in totality.
			4201953.3	CO 3	The student is able to apply the various issues studied in the urban context to the design of a master plan and architectural design regarding housing with reference to the context.
			4201953.4	CO 4	The student is able to survey, classify and examine different features of the city and their roles, and apply the same with the housing needs of the city.
			4201953.5	CO 5	The student is able to inculcate an analytical thinking about the nature of spaces and the issues faced at the urban level and apply the same.
			4201953.6	CO 6	The student is able to design or create a master plan and an architectural design for housing with the various issues studied in the urban context like services, aesthetics, Rules, traffic regulations, and site and context.
44	Advanced Building Construction & Services I	4201954 (SV)	4201954.1	CO 1	To find out difference between regular and advanced construction techniques involved by recalling the previous knowledge.
			4201954.2	CO 2	Student should be able to understand and compare various construction techniques and services involved.
			4201953.3	CO 3	Student should be able to apply the acquired knowledge to solve the various issues related to advanced construction technology and services.

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			4201953.4	CO 4	Student should be able to analyze data (materials, products) available locally and internationally through survey and market study.
			4201953.5	CO 5	The student should be able to justify the method selected to solve the problem.
			4201953.6	CO 6	The student should be able to propose proper construction technique to improve the design.
45	Urban Studies I	4201955 (SS)	4201955.1	CO 1	The course will enable students to know the meaning of urban planning, urban design, neighborhood planning, high-rise housing, slum rehabilitation, public housing, town planning schemes etc.
			4201955.2	CO 2	To make Students understand the implications of various factors such as traffic-transportation, socio-economic, urban landscape etc. influencing the development, rationale of urban regulatory controls.
			4201955.3	CO 3	To make Students apply the learnt Urban Design Principles and Urban Planning Theories.
			4201955.4	CO 4	To make Students analyses knowledge gained from studying urban planning principles of case specific examples in the current context.
			4201955.5	CO 5	To enable Students to compare and evaluate, different aspects of the impact of architectural project beyond the site and neighborhood.
			4201955.6	CO 6	The course should prepare the students to design, develop and make proposals for resolving the complexities by addressing the requirements of the selected urban areas.
46	Research in Architecture II	4201956 (SS)	4201956.1	CO 1	To be able to recollect and review the work done of the topic of interest selected in the previous semester to enhance knowledge & personal skill by listening, memorizing and improving cognitive abilities. And to know the significance of research in architecture and ethical practices in Research
			4201956.2	CO 2	To develop understanding for various aspects of research in summarizing, categorizing, comparing and inferring its value of association with different fields by delimiting the scope of research
			4201956.3	CO 3	To apply various methods of data collection and prepare and articulate the information collected
			4201956.4	CO 4	Analyze To organize, appraise and explain the various parameters of research correlating them with diverse domain
			4201956.5	CO 5	Evaluate To be able to validate, comment, review or criticize various parameters of research topics
			4201956.6	CO 6	Create The course will facilitate to compose, write and formulate the research paper for their pilot project.
47	Elective III	4201957 (SS)	4201957.1	CO 1	Students will choose an area of interest (from Art and design or Technology and management or social-

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				humanities and history domain) based on their previous knowledge / exposure for further exploration.
			4201957.2	CO 2 Students will understand a particular field of specialization (from Art and design or technology and management or social-humanities and history domain) chosen in detail to clarify that field's concepts and application.
			4201957.3	CO 3 Students will be able to develop special skills in the particular field of specialization (from Art and design or Technology and management or social-humanities and history domain) chosen in terms of application by exploring the recent developments in the field of architecture.
			4201957.4	CO 4 Students will be able to analyze various examples / case studies / practices in the particular field of specialization (from Art and design or Technology and management or social-humanities and history domain) chosen and to compare the same with larger context of overall sphere of Architecture.
			4201957.5	CO 5 The course will prepare students to determine the importance as well as judge their interest in the particular field of specialization (from Art and design or Technology and management or social-humanities and history domain) chosen to decide their further course of career.
			4201957.6	CO 6 The course will train students to formulate and explore hands-on pilot projects in the particular field of specialization (from Art and design or Technology and management or social-humanities and history domain) chosen to build their interest and understanding in that field.
48	Quantity Surveying & Specification Writing I	4201958 (PP)	4201958.1	CO 1 The student should be able to define various terminologies, importance of subject and how it is useful in practice.
			4201958.2	CO 2 Student should be able to explain various aspects of topic and relate it with market practice.
			4201958.3	CO 3 Student should be able to apply the acquired knowledge to solve the problem given.
			4201958.4	CO 4 Student should be able to compare various methods.
			4201958.5	CO 5 The student should be able to explain the process.
49	Professional Practice	4201959 (PP)	4201959.1	CO 1 The course will enable students to know the Architectural Practice
			4201959.2	CO 2 Students will understand the various factors , which differ in various types of works
			4201959.3	CO 3 Students will be able to apply the knowledge gained from studying different types of works and contract through groups discussing cases in class

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			4201959.4	CO 4	Students will be able to apply the knowledge gained from studying different types of Articles of Agreement and Conditions of Contract through groups discussing cases in class
			4201959.5	CO 5	Students will know the importance and his role as a Valuer.

FOURTH YEAR B.ARCH - SEM VIII

50	Architectural Design VII	4201960 (SV)	4201960.1	CO 1	The student is able to identify the various features involved in the urban fabric in terms of typology, area, function and context.
			4201960.2	CO 2	The student to understand and analyze a location in an urban context, preferably in a different socio-cultural-economic setting than that of the institute and document the study.
			4201960.3	CO 3	The student is able to apply the various issues studied in the urban context to the design of a master plan and architectural design with reference to the context.
			4201960.4	CO 4	The student is able to survey, classify and examine different features of the city and their roles, and find the lacuna in the area under study.
			4201960.5	CO 5	The student is able to inculcate an analytical thinking about the nature of spaces and the issues faced at the urban level and apply the same.
			4201960.6	CO 6	The student is able to design or create a master plan and an architectural design with the various issues studied in the urban context like services, aesthetics, Rules, traffic regulations, and site and context.
51	Advanced Building Construction & Services II	4201961 (SV)	4201961.1	CO 1	To find out difference between regular and advanced construction techniques involved by recalling the previous knowledge.
			4201961.2	CO 2	Student should be able to understand and compare various construction techniques and services involved.
			4201961.3	CO 3	Student should be able to apply the acquired knowledge to solve the various issues related to advanced construction technology and services.
			4201961.4	CO 4	Student should be able to analyze data (materials, products) available locally and internationally through survey and market study.
			4201961.5	CO 5	The student should be able to justify the method selected to solve the problem.
			4201961.6	CO 6	The student should be able to propose proper construction technique to improve the design.
52	Urban Studies II	4201962 (SS)	4201955.1	CO 1	The course will enable students to relate to the process of urban planning and urban design from the point of view of various urban issues like urban economics, transportation, people centric designs etc.

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			4201955.2	CO 2	Students will differentiate between urban planning and urban design and understand the process of both disciplines for its wider applicability.
			4201955.3	CO 3	Students will be able to apply the knowledge of urban design to conduct various surveys to identify urban issues.
			4201955.4	CO 4	The course will make students to analyze various the data collected through surveys for various urban issues.
			4201955.5	CO 5	Students will be able to compare and evaluate the data collected through surveys for resolving the urban issues identified.
			4201955.6	CO 6	The course should prepare the students to design and make proposals based on data collected, analyzed and evaluated to resolve the urban issues identified.
			4201963.1	CO 1	Students will choose an area of interest (from Art and design or Technology and management or social-humanities and history domain) based on their previous knowledge / exposure for further exploration.
			4201963.2	CO 2	Students will understand a particular field of specialization (from Art and design or technology and management or social-humanities and history domain) chosen in detail to clarify that field's concepts and application.
			4201963.3	CO 3	Students will be able to develop special skills in the particular field of specialization (from Art and design or Technology and management or social-humanities and history domain) chosen in terms of application by exploring the recent developments in the field of architecture.
53	Elective IV	4201963 (SS)	4201963.4	CO 4	Students will be able to analyze various examples / case studies / practices in the particular field of specialization (from Art and design or Technology and management or social-humanities and history domain) chosen and to compare the same with larger context of overall sphere of Architecture.
			4201963.5	CO 5	The course will prepare students to determine the importance as well as judge their interest in the particular field of specialization (from Art and design or Technology and management or social-humanities and history domain) chosen to decide their further course of career.
			4201963.6	CO 6	The course will train students to formulate and explore hands-on pilot projects in the particular field of specialization (from Art and design or Technology and management or social-humanities and history domain) chosen to build their interest and understanding in that field.

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54	Elective V	4201964 (SS)	4201964.1	CO 1	Students will choose an area of interest (from Art and design or Technology and management or social-humanities and history domain) based on their previous knowledge / exposure for further exploration.
			4201964.2	CO 2	Students will understand a particular field of specialization (from Art and design or technology and management or social-humanities and history domain) chosen in detail to clarify that field's concepts and application.
			4201964.3	CO 3	Students will be able to develop special skills in the particular field of specialization (from Art and design or Technology and management or social-humanities and history domain) chosen in terms of application by exploring the recent developments in the field of architecture.
			4201964.4	CO 4	Students will be able to analyze various examples / case studies / practices in the particular field of specialization (from Art and design or Technology and management or social-humanities and history domain) chosen and to compare the same with larger context of overall sphere of Architecture.
			4201964.5	CO 5	The course will prepare students to determine the importance as well as judge their interest in the particular field of specialization (from Art and design or Technology and management or social-humanities and history domain) chosen to decide their further course of career.
			4201964.6	CO 6	The course will train students to formulate and explore hands-on pilot projects in the particular field of specialization (from Art and design or Technology and management or social-humanities and history domain) chosen to build their interest and understanding in that field.
55	Quantity Surveying & Specification Writing II	4201965 (PP)	4201965.1	CO 1	The student should be able to define various terminologies, importance of subject and how it is useful in practice.
			4201965.2	CO 2	Student should be able to explain various aspects of topic and relate it with market practice.
			4201965.3	CO 3	Student should be able to apply the acquired knowledge to solve the problem given.
			4201965.4	CO 4	Student should be able to compare various methods.
			4201965.5	CO 5	The student should be able to explain the process.
56	Project Management	4201966 (PP)	4201966.1	CO 1	The course will enable students to know the construction management
			4201966.2	CO 2	Students will understand the various factors, which differ in various types of tenders

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			4201966.3	CO 3	Students will be able to apply the knowledge gained from studying different types of tenders and contract through groups discussing cases in class
			4201966.4	CO 4	Students will be able to apply the knowledge gained from studying different types of Articles of Agreement and Conditions of Contract through groups discussing cases in class
			4201966.5	CO 5	Students will know the importance and his role as a Project Manager

FIFTH YEAR B.ARCH. - SEM IX

57	Practical Training	5201967 (SV)	5201967.1	CO 1	The student is able to Define and find appropriate professional practice to undertake practical training under the guidance of experts / professionals.
			5201967.2	CO 2	The student is able to understand various aspect of professional practice under the guidance of architect registered under the council of architecture.
			5201967.3	CO 3	The student is able to utilize his experience of practical training to develop knowledge of office management, site management, client /consultant interaction and design thinking to become a successful professional.
			5201967.4	CO 4	The student is able to survey, classify and examine different methods and processes used in the professional office to handle an architectural project successfully.
			5201967.5	CO 5	The student is able to inculcate an analytical thinking about selection and application of appropriate material and technology.
			5201967.6	CO 6	The student is able to propose an appropriate solution for a specific design requirement related to architectural project under the guidance of experts / professionals.

FIFTH YEAR B.ARCH. - SEM X

58	Architectural Design Project	5201968 (SV)	5201968.1	CO 1	To remember and recollect the research done in 8 th semester and decide the architectural project
			5201968.2	CO 2	To shortlist and select suitable case studies , To prepare a questionnaire for doing the case studies
			5201968.3	CO 3	To define a concept based on any attribute related to the project to discuss the relevance of concepts for the Design
			5201968.4	CO 4	To assimilate in a systematic manner the findings of the case studies. To criticize and evaluate the case studies

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			5201968.5	CO 5	To develop Visualization skills with the help of fast model making techniques, To present the highlights and the findings of the case studies
			5201968.6	CO 6	Compiling, deducting, deciding, Explaining the overall planning and other details of the project, To present the entire project for viva-voce along with drawings and models in a systematic manner

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2.6.1

Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution.

Course Structure B. Arch

SPPU (Savitribai Phule Pune University).

SAVITRIBAI PHULE PUNE UNIVERSITY

[Formerly the University of Pune]



COURSE STRUCTURE

FIVE YEAR DEGREE COURSE IN ARCHITECTURE

[B.ARCH.]

TO BE IMPLEMENTED FROM 2019-20

BOARD OF STUDIES IN ARCHITECTURE

FACULTY OF SCIENCE AND TECHNOLOGY

ATTESTED

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BACHELOR OF ARCHITECTURE COURSE STRUCTURE AND RULES

PREAMBLE

The New Syllabus of the B.Arch. course hence forth to be referred as the 2019 Pattern, to be implemented from the year 2019-20, is designed to address the rising expectations of knowledge to be borne by an architect. The interdisciplinary nature of the field of architecture demands integration of knowledge domains from various disciplines such as humanities, art, and technology and so on. However, what distinguishes an architect is the design knowledge and ability to employ the knowledge from the various disciplines for arriving at a solution to a problem.

Hence the syllabus has been designed such that the professional core subjects are supported by building science and technology courses, professional ability enhancement courses and the elective courses. The professional ability enhancement courses and the practical training of one semester focus on connecting the students with the practice. The elective courses enable an exposure to some other domain or nurtures the students' proficiency or skill. The Audit courses are introduced to acknowledge the knowledge that the student seeks in his/her area of interest but not directly contribute to the CGPA.

At the end of the course the graduating student shall be able to methodically approach a problem of creating a built environment be it a small house or a township by employing knowledge from various domains and at the same time making it safe, equitable, feasible and environment friendly. Education needs to equip the student to face the challenges and demands in the field by imbibing first principles.

As per the University guidelines, the course is structured upon the Credit System Based Assessment. The syllabus is structured with the following objectives and expected outcomes

PROGRAM EDUCATIONAL OBJECTIVES[PEO]-

1. **Theoretical Base**—To establish strong theoretical base and understanding of Architecture and work of an architect.
2. **Knowledge and Skills**—To inculcate design sensitivity and ability, as well as knowledge in the domains of humanities, technology & art and impart skills so as to equip the graduate student to undertake work of an architect.
3. **Values** - Sensitize the students to the universal values of equity, environmental care, accessibility, and respect for heritage and equip them to address these through design.
4. **Research** -Train the students to methodically research a issue or a situation to find a creative solution to meet the contextual challenges in the realm of changing technologies, socio economic and cultural changes.
5. **Practice and Ethics**- To enable the students to practice as architects and imbibe them with the knowledge of the professional practice and ethics.
6. **Changes and Diversification**—To expose the students to the changes in architectural practice, diversifications and evolving role of an architect.

PROGRAM OUTCOMES [PO]

1. **Knowledge** -Understanding about role of various knowledge domains such as humanities, technology, and environment in design of built environment.
2. **Principles & Theory**- Knowledge of principles of architecture & theoretical knowledge and its application in design.
3. **Creativity** - Creative and design thinking ability.
4. **Practice** - Ability to understand real life situation of Architectural Practice and to work with ethical and professional responsibilities.
5. **Collaborative Working** -Ability to communicate effectively and work in interdisciplinary groups.
6. **Inclusivity** -Sensitivity in design for inclusivity, equity, environment, diverse cultures, and heritage.
7. **Technological Knowhow**-Ability to review, comprehend and report technological developments in the profession of architecture and construction.
8. **Ability to choose Area of Specialisation or Practise**- Able to judge one's area of interest and accordingly choose the field of practice.

Rule no.1: ELIGIBILITY FOR ADMISSION.

Eligibility Criteria: Students seeking admission to First year of Bachelor's degree course in Architecture must fulfil the eligibility criteria laid down by Savitribai Phule Pune University / Govt. of Maharashtra / Council of Architecture as applicable from time to time.

Rule no.2: SCHEME OF ASSESSMENT.

A candidate to be eligible for the degree of Bachelor of Architecture will be required to appear for and pass examinations as under:

	Semester Numbers	Credits
1	Semester 1	28
2	Semester 2	28
	Total credits for First Year B.Arch.	56
3	Semester 3	28
4	Semester 4	28
	Total credits for Second Year B.Arch.	56
5	Semester 5	28
6	Semester 6	28
	Total credits for Third Year B.Arch.	56
7	Semester 7	28
8	Semester 8	28
	Total credits for Fourth Year B.Arch.	56
9	Semester 9	14
10	Semester 10	24
	Total credits for Fifth Year B.Arch.	38
	Total credits	262

Total Credits of the Course = 262

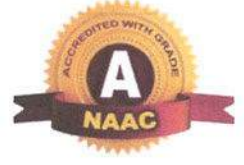
Colleges may offer the students audit courses one per semester [Sem I to Sem VIII]. The students may choose to opt these courses. The passing in audit courses is by clearance and they are non-credits courses and are not part of the SGPA / CGPA calculation.



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2.6.1 Teachers and students are aware of the stated Programme and Course Outcomes of the programmes offered by the Institution.

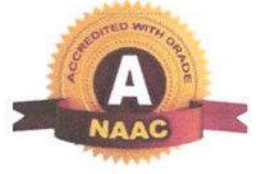
Sr. no.	Contents
1.	B. Des. – Course outcome 2023 pattern
2.	B. Des. – Course outcome 2015 pattern
3.	B. Des. – Course Structure, SPPU, (2023 pattern)
4.	B. Des. – Course Structure, SPPU, (2015 pattern)



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B. Des. – Course Outcomes – 2023 pattern



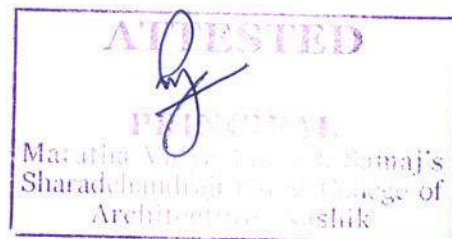
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Course Outcomes					
2023 Pattern Syllabus					
S.no.	Subject Name	Subject Code	Co- Code		Course Outcomes
First Year -Sem I					
1	Fundamentals of Design I	12023001	12023001.1	CO1	The students should be able to know the elements and principles of design.
			12023001.2	CO2	The students should be able to understand or comprehend various design principles like, scale, proportions, design theories, anthropometry etc
			12023001.3	CO3	The students are to do certain exercise, where they will apply the knowledge and develop their own design ideas in two dimensions.
			12023001.4	CO4	The students are expected to analyze and inspect their own, peers and other designers, design models, solutions related to the form study or aesthetic study.
			12023001.5	CO5	The student should be able to perceive, appraise and evaluate the design idea, concept, and should be able to judge and select its relevant design parameters.
			12023001.6	CO6	Students should be able to imagine and create a concepts and solution express by means of compositions, model etc.
2	Free Hand Drawing	12023002	12023002.1	CO1	Students will learn freehand drawing techniques and gain confidence in using lines, strokes, circles, and ellipses, improving their skills through consistent practice and repetition.
			12023002.2	CO2	Students will understand how to use Perspective techniques to Sketch.
			12023002.3	CO3	Students will explore basic forms, products, and views by applying perspective drawing techniques to create effective design sketches.
			12023002.4	CO4	Students will enhance their visualization skills by creating and analyzing simple three-dimensional objects and their components in a technical manner.
			12023002.6	CO6	Students will create a set of conceptual and technical sketches by applying various sketching techniques.





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Course Outcomes

2023 Pattern Syllabus

S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes
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First Year -Sem I

3	Model Making	12023003	12023003.1	CO1	Students will learn model-making techniques, such as cutting, pasting, and finishing, and improve these skills through practice and repetition.
			12023003.2	CO2	Students will learn how to make scaled models, prototypes, and mock-ups to explore the design process, focusing on quick, clear, and accurate visual communication.
			12023003.3	CO3	Students will explore basic shapes and forms by using model-making techniques to create effective design models.
			12023003.4	CO4	Students will develop model-making skills by creating and analyzing simple 3D objects and their components in a technical manner.
			12023003.6	CO6	Students will create a set of conceptual and technical models by applying various model-making techniques.

4	Geometric Construction	12023004	12023004.1	CO-1	Students should be able to choose appropriate instrument and method to draw different shapes and forms using various instruments.
			12023004.2	CO-2	Students should be able to demonstrate hierarchy of drawing by using appropriate text sizes and fonts. They should be able to interpret line type and their thickness to show various details on drawing.
			12023004.3	CO-3	Students should be able to construct basic shapes using angle method and circle method. They should be able to make use of instruments to draw.
			12023004.4	CO-4	Students should be able to analyze the object and able to draw orthographic projections and isometric view of simple objects.
			12023004.5	CO-5	Students should be able to choose appropriate orientation of object to show maximum details in orthographic projection, isometric view and transformation exercises.

5	Humanities	12023007	12023007.1	CO1	The students should be able to relate to the current and co-current happening events and its significance in Indian context.
			12023007.2	CO2	The students should be able to interpret and relate to the relevance of humanities to design through the disciplines associated with Humanities
			12023007.3	CO3	Application of the knowledge gained through the study should be seen in the assignment like influence in everyday goods, clothing, culture, believe.
			12023007.4	CO4	To analyse and appreciate the intercultural exchange and interrelation amongst the disciplines of humanities.
			12023007.5	CO5	To critically reflect and comment on diversity of behaviour, developments and decisions relevant to design across the world.
			12023007.6	CO6	The students will be able to develop their individual design development respecting all the aspect of humanities.



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Course Outcomes					
2023 Pattern Syllabus					
S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
First Year -Sem II					
1	Fundamentals of Design II	12023009	12023009.1	CO1	The students should be able remember the basic principles and elements of design.
			12023009.2	CO2	The students should be able to understand or comprehend 3D form, methods of form generation and their interpretation.
			12023009.3	CO3	The students will be able to apply knowledge to develop their own design ideas by constructing , organizing in 2D/ 3D Compositions.
			12023009.4	CO4	The students are expected to analyze and inspect their own, peer's solutions able to examine, compare and draw conclusion from the study.
			12023009.5	CO5	The student should be able to evaluate the elements and principles related to a design concept, and should be able to judge and select relevant design parameters.
			12023009.6	CO6	Students should be able to imagine and create a concepts and solution for given assignment brief express by means of compositions, model etc.
2	Design Process	12023010	12023010.1	CO-1	Student should able to know What, Why & How design process adds value to the life of people & environment. Student should be able to define an approach that can help - how to solve problems in a methodical, user-centric way.
			12023010.2	CO-2	Student should be able to understand how to solve problems in a methodical, user-centric way. Student should able to draw, relate, extend parallels of a particular situation
			12023010.3	CO-3	Student should be able to apply design process & techniques which should solve identified problem. Student should able to organize their findings from empathize phase, thereby creating a broaden solution space.
			12023010.4	CO-4	Student should able to extract useful information from data and then should able to categorize, compare & analyze it.
			12023010.5	CO-5	Student should able to compare, criticize & evaluate concepts, so they can validate their ideas.
			12023010.6	CO-6	Student should able to adapt techniques to ideate & create. Student should able to build prototype of their proposed solution.
3	Free Hand Drawing & Visualisation	12023012	12023012.1	CO1	Students will learn advanced freehand drawing techniques and confidently use lines, strokes, circles, and ellipses, improving these skills through practice and repetition.
			12023012.2	CO2	Students will understand how to sketch and use sketching techniques to generate design ideas for design concepts.
			12023012.3	CO3	Students will explore complex forms, products, and views by applying perspective drawing techniques to create effective design sketches.
			12023012.4	CO4	Students will develop visualization skills by creating and analyzing simple three-dimensional objects and their components in a technical way.
			12023012.6	CO6	Students will create a set of conceptual and technical sketches by applying various sketching techniques.



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Course Outcomes					
2023 Pattern Syllabus					
S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
First Year -Sem II					
4	Analytical Drawing	12023013	12023013.1	CO1	Students should be able to select proper instrument, line type, and line thickness to draw surface development, orthographic projections, sections etc.
			12023013.2	CO2	Students should be able to illustrate the object by means of surface development, orthographic projections, sections, perspective etc. using various scales.
			12023013.3	CO3	Students should be able to identify and apply various methods and instruments to draw Orthographic projections, Isometric view, axonometric view, surface development, perspective etc using various scales.
			12023013.4	CO4	Students should be able to discover the role of angle of cut, its position to show details through orthographic projections, sections, true shapes, Isometric view, axonometric view etc. They should be able to analyze the basic unit to derive various scales.
			12023013.5	CO5	Students should be able to determine position of cut to basic forms and operations to get desired form.
			12023013.6	CO6	The students should be able to develop the 3D models by using surface development as method.
5	Art Appreciation & Appraisal	12023014	12023014.1	CO1	Students will learn about the different styles, techniques, and cultural influences that shape contemporary Indian art.
			12023014.2	CO2	Students will learn to identify and compare various artistic techniques and styles used in both historical and contemporary art.
			12023014.3	CO3	Students will be able to explore and experiment with various artistic techniques and styles used across different art forms.
			12023014.4	CO4	Students will develop the ability to analyze folk and tribal art, understanding their cultural significance and relevance in today's world.
			12023014.5	CO5	Develop critical thinking and analytical skills specific to folk and tribal art forms.
			12023014.6	CO6	Students will create artworks that reflect a deep understanding of their cultural heritage, blending traditional and modern art forms.



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Course Outcomes					
2023 Pattern Syllabus					
S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
6	Environmental Perception	12023015	12023015.1	CO-1	Students should be able to define culture through the study of people and place in village/ city/ town.
			12023015.2	CO-2	Students should be able to relate, interpret and explain the environments which are diverse and essentially different from the environments that they reside in.
			12023015.3	CO-3	Student should be able to apply their documentation skills and interview person/family
			12023015.4	CO-4	Students should be able to discover lifestyle, traditions, crafts, arts and examine issues of chosen place.





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B. Des. – Course Outcomes – 2015 pattern



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
First Year -Sem I					
1	Freehand Drawing I	153451	153451.1	CO-1	The students should be able to know the various types of lines & strokes as well as their uses.
			153451.2	CO-2	The students should be able to understand the rendering techniques & improve their presentation skills
			153451.3	CO-3	The students should be able to apply sketching skills as a tool to transform the ideas & concepts into the sketch form.
			153451.4	CO-4	The students should be able to geometry of product with respect to the surfaces & contours & as well as their drawings.
			153451.6	CO-6	The students should be able to imagine & create new form of design using perspective methods according to the geometry, surfaces & contours.
2	Geometric Construction	153452	153452.1	CO-1	Students should be able to choose appropriate instrument and method to draw different shapes and forms using various instruments.
			153452.2	CO-2	Students should be able to demonstrate hierarchy of drawing by using appropriate text sizes and fonts. They should be able to interpret line type and their thickness to show various details on drawing.
			153452.3	CO-3	Students should be able to construct basic shapes using angle method and circle method. They should be able to make use of instruments to draw.
			153452.4	CO-4	Students should be able to analyze the object and able to draw orthographic projections and isometric view of simple objects.
			153452.5	CO-5	Students should be able to choose appropriate orientation of object to show maximum details in orthographic projection, isometric view and transformation exercises.
3	Fundamentals Of Design I	153453	153453.1	CO-1	The students should be able to know, what is design, art, aesthetics in design, and the difference between them. They should be able to name, define and relate elements like point, line, planes and forms, and principles like rhythm, harmony, chaos, etc. of design.
			153453.2	CO-2	They should be able to comprehend, explain, demonstrate, illustrate various design elements its characters, properties, attributes etc. They should be able to understand or comprehend various design principles like, scale, proportions, design theories, anthropometry etc
			153453.3	CO-3	The students are to do certain exercise, where they will apply the knowledge and develop their own design ideas in two dimensions. They have to experiment, construct, organize and model their own design ideas in two dimensions, by making certain patterns, textures, colour schemes etc.
			153453.4	CO-4	The students are expected to analyze and inspect their own, peers and other designers and master craftsmen, design models, solutions related to the form study or aesthetic study. They should be able to examine, compare and draw conclusion from the study or the learning happened.
			153453.5	CO-5	The student should be able to perceive, appraise, criticize and evaluate the elements like scale, proportions, colour and textures and principles related to a design idea, concept, abstract existing or proposed. They should be able to measure, judge and select his relevant design parameters



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
First Year -Sem I					
4	Presentation Skills I	153454	153454.1	CO-1	The students should be able to relate how verbal, written & graphical presentation skills act as enablers to present their work / concepts & designs.
			153454.2	CO-2	The students should be able to demonstrate, illustrate, relate, interpret and translate the techniques through oral, graphical and expressional/ digital presentation.
			153454.3	CO-3	The students should be able to make use of acquired knowledge by applying the presentation techniques in their projects.
			153454.4	CO-4	The students should be able to analyze the effective methods of presentation skills to present their work.
			153454.6	CO-6	The students should be able to compile, compose and propose their projects by using their learning of presentation techniques for effective communication of their design.
5	Basic Photography	153456	153456.1	CO-1	Students should be able to recall and define various types, categories of photography.
			153456.2	CO-2	Students should be able to interpret a photograph and explain the subject in a photograph.
			153456.3	CO-3	Student should be able to make use of camera and experiment with digital technology and techniques.
			153456.4	CO-4	Students should be able to discover the basic principles and elements of design through photography.
			153456.5	CO-5	Students should be able to perceive and choose their way of expression through photography
			153456.6	CO-6	Students should be able to create and invent original design approach towards photography for the purpose of Set Design
6	Model Making-I	153457	153457.1	CO-1	The students should be able to define the properties of various materials & their uses.
			153457.2	CO-2	The students should know the various types of model making tools & their uses.
			153457.3	CO-3	The students should be able to apply model making skills effectively with the materials like papers, file boards, foam board, wood & clay, for build scale model or prototype from drawings.
			153457.4	CO-4	Students should be able to choose appropriate materials for making scale models and prototypes using their knowledge
			153457.5	CO-6	The students should be able invent & create new designs of models using different materials.





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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
First Year -Sem I					
7	Humanities	153458	153458.1	CO-1	The student should be able to know what is the purpose of learning humanities. How humanities helps, relate ancient human society. They should be able to name, define, recall, various ancient civilization. They should be able to relate the timeline with various historical events, in that particular geographical topography.. What, When, Where, How and Why these civilizations happened or abandoned or vanished.
			153458.2	CO-2	The student should be able to understand, demonstrate and interpret various aspects like, cultural, social, administration and political of the ancient civilization. They should be able to illustrate, translate and draw inferences from the knowledge of humanities, relate human behavior in a society as a response to various sociocultural, political structure of the society.
			153458.3	CO-3	The student should be able to make use of the data to understand society.
			153458.4	CO-4	The student should be able to analyze the situations, considering the various factors like sociopolitical, sociocultural, economy, topography and its impact on society.
			153458.5	CO-5	They should be able to explain and evaluate various situations in the human development. They should be able to perceive, judge and justify various situations, in the human development.
First Year Sem II					
1	Free Hand Drawing II	153459	153459.1	CO-1	The student should be able to define & explore the techniques of design sketching & understand how we should use it.
			153459.2	CO-2	The students should be able to explore design sketching and illustrate the thoughts.
			153459.3	CO-3	The students should be able to apply the methods of design sketching to explain their innovative concepts.
			153459.4	CO-4	The students should be able to visualize and recognise the various types of light sources for creating shadows using various basic shapes.
			153459.5	CO-5	The students should be able to understand Linear perspective is a method of creating the illusion of space on a two-dimensional surface using lines.
2	Analytical Drawing	153460	153460.1	CO-1	Students should be able to select proper instrument, line type, and line thickness to draw surface development, orthographic projections, sections, golden section etc.
			153460.2	CO-2	Students should be able to illustrate the object by means of surface development, orthographic projections, sections, golden section etc. using various scales.
			153460.3	CO-3	Students should be able to identify and apply various methods and instruments to draw Orthographic projections, Isometric view, axonometric view, surface development, perspective etc using various scales.
			153460.4	CO-4	Students should be able to discover the role of angle of cut, its position to show details through orthographic projections, sections, true shapes, Isometric view, axonometric view etc. They should be able to analyze the basic unit to derive various scales.
			153460.5	CO-5	Students should be able to determine position of cut to basic forms and operations to get desired form.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
3	Fundamentals Of Design II	153461	153461.1	CO-1	The students should be able to define forms ,geometrical,natural, colliding,complex , what does it means by symbolism,,abstraction,balance etc in design. They should know what is gestalts thoery , eg.ground and figure.
			153465.2	CO-2	They should be able to comprehend and understand the goemetry of complex formsbe able to illustrate with the help of sketches the geometry ,and techniques used to construct such complex forms and structure. They should be able to interpret ,and translate the design complexities , in various design forms.
			153469.3	CO-3	The students shold be able to apply the knowledge gained through earlier classes , to construct and develop their design ideas and concept in 3d forms.The students should experiment to understand the relationship between forms and functions, . They should be able to build ,certain models,forms,etc which will disolav their design interpretations.or translations of certain design theories.
			153473.4	CO-4	The students should analyse existing or proposed forms ,complex forms and spaces. They should be able to examine various aspects of design related to froms,elements ,principles, like rhythm, harmony,datum,repotation, and conclude with a realization.
			153477.5	CO-5	They should be able to measure , judge and select his relevant design parameters , draw inferences related to its form,function and general societal perception. Assess or prove their or others design ideas or concepts, they or other have used in their own design. And justify the same .
4	Presentation Skills II	153462	153462.1	CO-1	The students should be able to recall the techniques of verbal, written & graphical presentation skills in their work / concepts & designs.
			153462.2	CO-2	The students should be able to demonstrate, illustrate, relate, interpret and translate the techniques through oral, graphical and expressional/ digital presentation.
			153462.3	CO-3	The students should be able to make use of acquired knowledge by applying the presentation techniques in their projects.
			153462.4	CO-4	The students should be able to analyze the effective methods of presentation skills to present their work.
			153462.5	CO-5	The students should be able to compile, compose and propose their projects by using their learning of presentation techniques for effective communication of their design.
5	Design Process	153463	153463.1	CO-1	Student should able to know What, Why & How design process adds value to the life of people & environment. Student should be able to define an approach that can help - how to solve problems in a methodical, user-centric way.
			153463.2	CO-2	Student should be able to understand how to solve problems in a methodical, user-centric way. Student should able to draw, relate, extend parallels of a particular situation
			153463.3	CO-3	Student should be able to apply design process & techniques which should solve identified problem. Student should able to organize their findings from emphatize phase, thereby creating a broaden solution space.
			153463.4	CO-4	Student should able to extract useful information from data and then should able to categorize, compare & analyze it.
			153463.5	CO-5	Student should able to compare, criticize & evaluate concepts, so they can validate their ideas.
			153463.6	CO-6	Student should able to adapt techniques to ideate & create. Student should able to build prototype of their proposed solution.





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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
6	Model Making-II	153464	153464.1	CO-1	The students should be able to recognise the innovative model making techniques, and how to use them to explain design process.
			153464.2	CO-2	The students should be able to understand the various methods of wood cutting & carving, different types of joints & finishing.
			153464.3	CO-3	The students should be able to apply model making skills to create conceptual study model or prototype for the design development process
			153464.4	CO-4	The students should be able to analyze the concept behind the form, explore the effective methods & appropriate materials for model making.
			153464.5	CO-6	The students should be able to invent & create new design processes using study models using different materials.
7	Art appraisal & Appreciation	153465	153465.1	CO-1	The students should be able to define ,what is art ,art appraisal ,and appreciation.They should be able to name ,recall,relate,various forms of art. How ,when and where it evolved.
			153465.2	CO-2	They students should be able to compare and interpret the study.They should be able to explain and demonstrate their study.They should be able to translate and summarise the study of art.
			153465.3	CO-3	They should be able to identify ,various aspects of art and its relation to the profession.They should be able to develop their hypothesis related to the topic.
			153465.4	CO-4	They should be able to analyze the art work and draw inferences from the same. They should be able to discover , through research.
			153465.5	CO-5	They should be able to appraise the art forms and art work .Understand its importance ,judge ,defend or justify its appraisal. They should be able to value it.
8	Environmental Perception	153466	153466.1	CO-1	Students should be able to define culture through the study of people and place in village/ city/ town.
			153466.2	CO-2	Students should be able to relate, interpret and explain the environments which are diverse and essentially different from the environments that they reside in.
			153466.3	CO-3	Student should be able to apply their documentation skills and interview person/family
			153466.4	CO-4	Students should be able to discover lifestyle, traditions, crafts, arts and examine issues of chosen place.





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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
Second Year Product Design Sem III					
1	Elements of Form I	163468	163468.1	CO-1	Recall basic concepts and terminology related to the language of form. Identify fundamental tools and techniques used for form manipulation and design.
			163468.2	CO-2	Explain the significance of form perception and appreciation in design. Describe how different tools and techniques can influence and alter form and shape.
			163468.3	CO-3	Apply principles of form perception and articulation in practical design exercises. Use fundamental tools to modify and create forms according to specific design objectives.
			163468.4	CO-4	Student should able to discover & examine relationships between forms & emotional responses
			163468.5	CO-5	Critique various forms to assess their effectiveness in conveying intended messages or emotions. Evaluate the effectiveness of different tools and techniques in achieving desired form and shape objectives.
			163468.6	CO-6	Design innovative and original forms that clearly communicate specific ideas or emotions through their structure and composition, and develop new forms by integrating various tools and techniques to address unique design challenges.
2	Ergonomics I	163469	163469.1	CO-1	The student should be able to recall the learnings and relate it to the design process.
			163469.2	CO-2	The students should be able to understand know the concept,terminology and the relevance of Ergonomics in Design process.
			163469.3	CO-3	The student should be able to built and apply the Ergonomic knowledge
			163469.4	CO-4	The student should be able to break the informationto discover new insights and build relationship between human behaviour and ergonomics.
			163469.5	CO-5	The students demonstrate the ability to understand and interpret the information,observation of current user behaviour
3	Materials & Processes I	163470	163470.1	CO-1	The students should be able to define what, why, when, where & which materials will be applies.
			163470.2	CO-2	The students should be able to explain understanding of materials by classifying them according to the applications.
			163470.3	CO-3	The students should be able to identify the appropriate material, manufacturing process & should be able to apply its knowledge.
			163470.4	CO-4	The students should be able to categorize, co-relate, illustrate the data and undertake the market survey to analyze and compare.
			163470.5	CO-5	The students should be able to use their learnings by recommending materials & manufacturing processes to evaluate in an existing product.





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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
Second Year Product Design Sem III					
4	Design Project I	163471	163471.1	CO-1	The student should be able to understand and relate to the design process and participate in choosing the area of enquiry
			163471.2	CO-2	The student should be able to understand and demonstrate the ability of conscious observations and explain it with understanding of who, why, what
			163471.3	CO-3	The student should be able to organize the information, facts and construct the opportunities of Design Intervals
			163471.4	CO-4	The student should be able to organize the information, facts and construct the opportunities of Design Intervals
			163471.5	CO-5	The student should be able to generate ideas and develop solutions and conclude on the most appropriate solutions
			163471.6	CO-6	The student should be able to create working solution and build prototype to demonstrate the feasibility of an idea to propose to the potential client
5	Technical Drawing I	163472	163472.1	CO-1	The students should be able to define the methods and how to use them accurately to communicate manufacturing drawing.
			163472.2	CO-2	The students should be able to demonstrate and illustrate the manufacturing drawing with particular reference to the drawing standard.
			163472.3	CO-3	The students should be able to apply the understanding to construct and develop manufacturing drawing with precision
			163472.4	CO-4	The students should be able to understand the relationship between design and manufacturing drawing. The students should be able to list various materials and write the specification for manufacturing drawing.
			163472.5	CO-5	Students should be able to choose correct tools for measuring and representing the manufacturing drawing.
			163472.6	CO-6	Students should be able to create standard manufacturing drawing of their design.
6	Advanced Illustration	163474	163474.1	CO-1	Students will learn how to use sketching as a tool for ideation and conceptualizing new, innovative products or design solutions.
			163474.2	CO-2	Students will gain the ability to create technically accurate sketches that represent products and furniture objects in precise detail.
			163474.3	CO-3	Students will explore complex forms, products, Furniture and views by applying perspective drawing techniques to create effective design sketches.
			163474.4	CO-4	Students will develop the ability to visualize products and furniture objects in three-dimensional space, helping them to create detailed, accurate, and functional designs.
			163474.6	CO-6	Students will develop advanced skills in creating realistic 3D visualizations and perspectives for design concepts.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
7	Exposure to Liberal Arts I	163476	163476. 1	CO-1	The students should be able to identify and recognise the various aspects of modern art.
			163476. 2	CO-2	The students should be able to understand various features of Folk art.Traditional art.
			163476. 3	CO-3	The students should be able to apply the artistic skills to create art works.
			163476. 4	CO-4	The students should be able to analyze the concept behind the subject, art style, art form, & interpret the study
			163476. 6	CO-6	The students should be able to express their thoughts and concepts through the various art forms
Second Year Product Design Sem IV					
1	History II	163477	163477. 1	CO-1	To identify and recognize the ability of humans to think, strategies and execute.
			163477. 2	CO-2	To understand and discuss the influences, exchange of ideas and thought processes during world wars and its implications on science and technology
			163477. 3	CO-3	To relate to the understanding of how the developments during this world changed the way we live or operate in the world we live in.
			163477. 4	CO4	To analyze how objects, products of its times were designed and changed the markets and consumer behavior.
			163477. 5	CO5	The students should be able to critically understand and evaluate the implications and its future possibilities.
2	Elements of Form II	163479	163479. 1	CO-1	Student should able to know how to percieve, appreciate & articulate a visual. Student should able to know how to use colour or texture as a tool in design.
			163479. 2	CO-2	Student should be able to understand, interpret & summarize the collected data. Students should understand elements - colour & finishes which can articulate the form/product.
			163479. 3	CO-3	Student should able to choose & apply understanding of colour and finishes on new forms or products.
			163479. 4	CO-4	Student should able to study & analyze product with respect to colour & finishes used for product communication.
			163479. 5	CO-5	Student should able to determine, measure & evaluate the colour & finish value of a product explored.
			163479. 6	CO-6	Student should able to adapt extract of the understanding. Student should able to build or develop a new application/form/ product on the understanding of colour & finishes.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
3	Ergonomics II	163480	163480.1	CO-1	The student should be able to recall the learnings and relate it to the design process.
			163480.2	CO-2	The students should be able to understand know the concept,terminology of User ,User behaviour.
			163480.3	CO-3	The student should be able to built and apply the knowledge of user and user behaviour
			163480.4	CO-4	The student should be able to break the information to discover new insights and build relationship between human behaviour and design decisions.
			163480.5	CO-5	The student should be able to conclude and assess based on observations and insights.
4	Materials & Processes II	163482	163482.1	CO-1	The students should be able to define what, why, when, where & which materials will be applies.
			163482.2	CO-2	The students should be able to explain understanding of materials by classifying them according to the applications.
			163482.3	CO-3	The students should be able to identify the appropriate material, manufacturing process & should be able to apply its knowledge.
			163482.4	CO-4	The students should be able to categorize, co-relate, illustrate the data and undertake the market survey to analyze and compare.
			163482.5	CO-5	The students should be able to use their learnings by recommending materials & manufacturing processes to evaluate in an existing product.
5	Technical Studies II	163484	163484.1	CO-1	The student should be able to relate and recall the knowledge of Fundamentals of Physics, Simple Mechanisms.
			163484.2	CO-2	The student should be able to explain and demonstrate basic understanding of Fundamentals of Physics, Simple Mechanisms and how it works.
			163484.3	CO-3	The student should be able to apply acquired knowledge in developing new ideas of mechanical objects and its applications.
			163484.4	CO-4	The student should be able to dissect and analyze the functions of mechanism and its working principles in the existing objects.
			163484.5	CO-5	The student should be able to perceive importance of mechanism and its functioning and evaluate new ideas based on it.
			163484.6	CO-6	The student should be able to create new designs based on their gained knowledge and can come up with new proposals/solutions.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
6	Design Project II	163485	163485.1	CO-1	The student should be able to relate and display the ability to undertake design process by choosing correct intervention
			163485.2	CO-2	The student should be able to demonstrate the ability of undertaking user research and synthesizing it into meaningful insights
			163485.3	CO-3	The student should be able to organize the information, facts and construct the opportunities of Design Intervention
			163485.4	CO-4	The student should be able to synthesize the surveys, information and data to formulate the Design Brief
			163485.5	CO-5	The student should be able to generate ideas and develop solutions and conclude on the most appropriate solutions
			163485.6	CO-6	The student should be able to create working solution and build prototype to demonstrate the check feasibility with target users
7	Technical Drawing II	163486	163486.1	CO-1	The students should be able to define the methods and how to use them accurately to communicate manufacturing drawing.
			163486.2	CO-2	The students should be able to demonstrate and illustrate the manufacturing drawing with particular reference to the drawing standards.
			163486.3	CO-3	The students should be able to apply the understanding to construct and develop manufacturing drawing with precision.
			163486.4	CO-4	The students should be able to understand the relationship between design and manufacturing drawing. The students should be able to list various materials and write the specification for manufacturing drawing.
			163486.5	CO-5	Students should be able to choose correct tools for measuring and representing the manufacturing drawing.
			163486.6	CO-6	Students should be able to create standard manufacturing drawing of their design.
8	Exposure to Liberal Arts II	163489	163489.1	CO-1	The students should be able to know how professional artist works and how to produce artworks. it will help to improve their art expression.
			163489.2	CO-2	The students should be able to understand Development of modern paintings & sculptures in India, Important artists and their works.
			163489.3	CO-3	Students should be able to identify & apply various techniques and methods in different art activities.
			163489.4	CO-4	The students should be able to identify & recognise the various aspects of Indian modern painting, sculpture, & music.
			163489.6	CO-6	The students create art works and they get hands on experience.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
Second Year Interior Design Sem III					
1	History I	163490	163490.1	CO-1	Students should be able to define the different architectural features of the different civilizations and periods.
			163490.2	CO-2	Students should be able to interpret the relationship between sociology, anthropology and the evolution of civilization.
			163490.3	CO-3	Students should be able to identify the architectural features and art forms of past civilizations in their cultural context.
			163490.4	CO-4	Students should be able to analyze the evolution of architectural monuments built using indigenous materials and techniques, in different parts of the world.
			163490.5	CO-5	Students should be able to assess the relevance of the various architectural features and art forms of different civilizations.
			163490.6	CO-6	Students should be able to compile a timeline of the various civilizations, their architectural features and sociological conditions.
2	Elements of Form I	163491	163491.1	CO-1	To define the characteristics of two and three dimensional objects and how they and impact indoor spaces.
			163491.2	CO-2	The students should be able to understand cognitive theories related to perception, appreciation and articulation of elements and their transformation in third dimension
			163491.3	CO-3	Students to illustrate their explorations having compositional values, given on exercises formulated based on different topics
			163491.4	CO-4	To categorise, co relate, compare and develop their ideations and select best explorations
			163491.5	CO-5	The course enables the students towards analytical thinking, interpretation and analysis of selected explorations which can be converted into three dimensional models
			163491.6	CO-6	To develop and compose hands on explorations and models based on exercises given.
3	Materials and Processes I	163492	163492.1	CO-1	Students should be able to choose the relevant materials for different building construction applications considering their properties.
			163492.2	CO-2	Students should be able to explain various processes employed in the manufacture and application of different building construction materials.
			163492.3	CO-3	Students should be able to apply the various building materials functionally and aesthetically.
			163492.4	CO-4	Students should be able to analyze the strengths and limitations of the various building materials.
			163492.5	CO-5	Students should be able to assess the use of different building construction materials for a specific function.
			163492.6	CO-6	Students should be able to combine various different materials to create habitable interior spaces.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
4	Construction Technology I	163493	163493.1	CO-1	Students should be able to identify the elements of buildings, structural system, specify the materials and construction drawings techniques used in interior designing.
			163493.2	CO-2	Students should be able to explain the function of the elements of buildings and their representation in working drawing.
			163493.3	CO-3	Students should be able to draw and sketch all construction details.
			163493.4	CO-4	Students should be able to analyze and distinguish all the structural system of a buildings.
			163493.5	CO-5	Students should be able to evaluate the carpentry joinery details.
			163493.6	CO-6	Students should be able to develop the design and to give innovative solution with all the construction detail and working drawing.
5	Design & Working Drawing -I	163494	163494.1	CO-1	Students should be able to recall the anthropometric data.
			163494.2	CO-2	Students should be able to illustrate the relationship between anthropometry ergonomics and interior spaces.
			163494.3	CO-3	Students should be able to apply the anthropometric data to create good ergonomics.
			163494.4	CO-4	Students should be able to analyze the built habitable interior spaces in terms of functionality, sustainability, aesthetics and user experience.
			163494.5	CO-5	Students should be able to determine the design brief based on the analytical study of the interior space, its function and user compatibility.
			163494.6	CO-6	Students should be able to create a design solution for an Interior space which fulfills the functional, ergonomic, and aesthetic requirements of the space.
6	Interior Drawing and graphics I	163495	163495.1	CO-1	To make students define the different methods and how to use the techniques of making execution and rendering drawing.
			163495.2	CO-2	Students should be able to illustrate and demonstrate the understanding , graphic language and rendering techniques through drawings.
			163495.3	CO-3	The students should be able to construct and develop drawing by using the techniques to represent various interior details.
			163495.4	CO-4	To make students understand the relationship between designing and execution drawing.
			163495.5	CO-5	The students should be able to choose the correct tools and technique to represent the execution and rendering drawing.
			163495.6	CO-6	Students should be able to create standard execution drawing.
7	Workshop Skills I	163496	163496.1	CO-1	The students should be able to understand the use and handling process of tools with safety through experimentation.
			163496.2	CO-2	The students should be able to identify and recognise the various features of the paper material and develop some designs as per creative ideas.
			163496.3	CO-3	The students should be able to understand the various type of material and their feature, limitation and properties. Experiment on same.
			163496.4	CO-5	The students will be able to developed some basic shapes from different type of material and convert into finish model.(Foam Bord, File bord, corgetted, etc.)



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
8	Computers I	163497	163497.1	CO-1	The students should be able to choose and select correct tools and software for presenting concept, ideas of final design.
			163497.2	CO-2	The students should be able to demonstrate and illustrate the tools in software for presenting ideas of the final design.
			163497.3	CO-3	The students should be able to apply the understanding and construct detailed interior space of the design.
			163497.5	CO-5	The students should be able to choose correct tools for drafting detailed drawings.
			163497.6	CO-6	The students should be able to compose and create the drawing of interior space.
9	Model Making	163498	163498.1	CO-1	The students should be able to identify and recognise the various feature and properties of the Art materials. And experiment on same.
			163498.2	CO-2	The students should be able to understand Geometry to Architecture collision where ideas and art meet.
			163498.3	CO-3	The students should be able to understand the various type of material and their feature, limitation and properties. Experiment on same.
			163498.5	CO-5	The students will be able to developed some basic shapes from different type of material and convert into finish model.(Foam Bord, File bord, corgetted, etc.)
10	Exposure to Liberal Arts I	163499	163499.1	CO-1	The students should be able to identify and recognise the various aspects of modern art.
			163499.2	CO-2	The students should be able to understand various features of Folk art, Traditional art.
			163499.3	CO-3	The students should be able to apply the artistic skills to create art works.
			163499.4	CO-4	The students should be able to analyze the concept behind the subject, art style, art form, & interpret the study
			163499.6	CO-6	The students should be able to express their thoughts and concepts through the various art forms



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
Second Year Interior Design Sem IV					
1	History II	163500	163500.1	CO-1	Students should be able to define the different architectural features of the different periods and cultures.
			163500.2	CO-2	Students should be able to interpret the relationship between sociology, anthropology and the evolution of culture and architecture.
			163500.3	CO-3	Students should be able to identify the architectural features and art forms of past civilizations in their cultural context.
			163500.4	CO-4	Students should be able to analyze the evolution of architectural monuments and habitable spaces built using indigenous materials and techniques, in a geographical and sociological context.
			163500.5	CO-5	Students should be able to assess the relevance of the various architectural features and art forms of different periods and cultures.
			163500.6	CO-6	Students should be able to compile a timeline of the various periods, their architectural features, art forms and sociological conditions.
2	Elements of Form II	163502	163502.1	CO-1	To define the importance of Colour as an element of two and three dimensional objects and spaces and how they transform and impact spaces.
			163502.2	CO-2	To give students spatial understanding and articulation of form with the help of colour, texture, light and finishes.
			163502.3	CO-3	Students to illustrate their explorations having compositional values, given on exercises formulated based on different topics.
			163502.4	CO-4	To categorise, co relate, compare and develop their ideations based on colour, material, texture and light.
			163502.5	CO-5	The course enables the students towards analytical thinking, interpretation and analysis of explorations which can be converted into three dimensional models.
			163502.6	CO-6	To develop and compose hands on explorations and models based on exercises given.
3	Materials and Processes II	163503	163503.1	CO-1	Students should be able to choose the relevant materials used for building construction applications considering their properties.
			163503.2	CO-2	Students should be able to classify various building materials based on their properties, origin and processes.
			163503.3	CO-3	Students should be able to apply specific materials functionally and aesthetically for various interior design applications.
			163503.4	CO-4	Students should be able to analyze the strengths and limitations of the various building materials.
			163503.5	CO-5	Students should be able to assess the use of different materials for a specific function.
			163503.6	CO-6	Students should be able to combine various different building materials based on their properties and processes to create habitable interior designed spaces.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
4	Construction Technology II	163505	163505.1	CO-1	Students should be able to define the standard and simple design principles and technical requirements applied in the construction of staircases and furniture.
			163505.2	CO-2	Students should be able to relate the application of various materials based on the function and structural requirements of staircases and furniture.
			163505.3	CO-3	Students should be able to apply specific materials, hardware and construction techniques to build the staircases and furniture.
			163505.4	CO-4	Students should be able to analyze the function, technical and aesthetic requirements of staircases and furniture.
			163505.5	CO-5	Students should be able to illustrate the various carpentry joineries, construction techniques and details, materials and hardware utilized in the construction of staircases and furniture.
			163505.6	CO-6	Students should be able to formulate the construction techniques and propose the materials to build staircases and furniture.
5	Building Services I	163506	163506.1	CO-1	The students should be able to define, where and how the basic system of water supply and sanitation in the bulding
			163506.2	CO-2	The students should be able to demonstrate the understanding and explain the basic syatem in the bulding.
			163506.3	CO-3	The students should be able to choose the correct material, fixture and apply them in the building layout.
			163506.4	CO-4	The students should be able to undertake the survey of various fixtures, materials of pipe in the market and analze for correct application.
			163506.5	CO-5	The students should be able to use their learning by recomending and interpreting it in the building layout.
			163506.6	CO-6	The students should be able to develop and propose the building services layout by the previous learning.
6	Climatology Environment & Eccology	163507	163507.1	CO-1	The students should know ,what are the fundamentals of climatology,and components of environment.They should be able to define sunpath, micro and macro climate. They should know , climatic zones,habitat response,and what is a bioclimatic chart.
			163507.2	CO-2	They should be able to comprehend various components of climate ,environment , land ,water and vegetation, bio climatic chart ,and relate it to the human habitats,settlements .They should be able to explain and illustrate various climatic zones .
			163507.3	CO-3	The student should be able to apply the knowledge of climate and human comfort ,while planning for the interior spaces . They should be able to choose remedies for the interior spaces in a particular environment atleast considering , sunpath,wind direction opening size and position. They should be able to develop his own inferences ,about a climatic zone , through the bioclimatic chart of that area
			163507.4	CO-4	Tney should be able to analyze the climatic data and discover facts.They should be able to assume certain conditions ,which are intangible and inferences drawn through realistic climatic data.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
7	Design & Working Drawing -II	163508	163508.1	CO-1	Students should be able to relate the anthropometric data to various functions and requirements of an interior space.
			163508.2	CO-2	Students should be able to interpret the relationship between anthropometry ergonomics and interior spaces.
			163508.3	CO-3	Students should be able to apply the anthropometric data to create functional and aesthetically pleasing ergonomic forms.
			163508.4	CO-4	Students should be able to analyze the built habitable interior spaces and forms in terms of functionality, sustainability, aesthetics and user experience.
			163508.5	CO-5	Students should be able to determine the design brief based on the analytical study of the interior space, its function and user needs.
			163508.6	CO-6	Students should be able to create a design for an interior space which fulfills the functional, ergonomic, and aesthetic requirements of the space.
8	Interior Drawing and graphics II	163509	163509.1	CO-1	The students should be able to define and recall the method and technique of executing drawing.
			163509.2	CO-2	The students should be able to demonstrate and illustrate the understanding of the technique of making execution drawing .
			163509.3	CO-3	The students should be able to apply the understanding to construct and develop detail furniture layout in interior execution drawing.
			163509.4	CO-4	The students should be able to list various materials and write the specification for furniture details in interior execution drawing.
			163509.5	CO-5	The students should be able to choose tools and technique of measuring, representing the execution and rendering drawing.
			163509.6	CO-6	Students should be able to create standard detailed execution drawing .
9	Workshop Skills II	163510	163510. 1	CO-1	The students should be able to understand the use and handling process of tools with safety through experimentation.
			163510. 2	CO-2	The students should be able to identify and recognise the various features of the paper material and develop some designs as per creative ideas.
			163510. 3	CO-3	The students should be able to understand the various type of material and their feature, limitation and properties. Experiment on same.
			163510. 5	CO-5	The students will be able to developed some basic shapes from different type of material and convert into finish model.(Foam Bord, File bord, corgetted, etc.)
			163510. 6	CO-6	The students will be able to identify appropriate material and convert into finish presentable model. (The method of Pesting, Finishing, colouring etc.). Experiment on same.
10	Exposure to Liberal Arts II	163512	163512. 1	CO-1	The students should be able to know how professional artist works and how to produce artworks. it will help to improve their art expression.
			163512. 2	CO-2	The students should be able to understand Development of modern paintings & sculptures in India, Important artists and their works.
			163512. 3	CO-3	Students should be able to identify & apply various techniques and methods in different art activities.
			163512. 4	CO-4	The students should be able to identify & recognise the various aspects of Indian modern painting, sculpture, & music.
			163512. 6	CO-6	The students create art works and they get hands on experience.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes
Second Year Set Design Sem III				
1	Elements of Form I	163514	163514.1	CO-1 To define the characteristics of two and three dimensional objects and how they impact in spaces.
			163514.2	CO-2 The students should be able to understand cognitive theories related to perception, appreciation and articulation of elements and their transformation in third dimension
			163514.3	CO-3 Students to illustrate their explorations having compositional values, given on exercises formulated based on different topics
			163514.4	CO-4 To categorise, co relate, compare and develop their ideations and select best explorations
			163514.5	CO-5 The course enables the students towards analytical thinking, interpretation and analysis of selected explorations which can be converted into three dimensional models
			163514.6	CO-6 To develop and compose hands on explorations and models based on exercises given.
2	Materials and Construction I	163515	163515.1	CO-1 Students should be able to select appropriate material (wood & metal). They should be aware of physical, chemical and mechanical properties of the material used for set conduction.
			163515.2	CO-2 Students should be able to illustrate the various construction techniques while working on set.
			163515.3	CO-3 Students should be able compare various forms of wood and metal available in market. They should be able to identify and apply appropriate treatment to the material to get desired effect.
			163515.4	CO-4 Students should be able to simplify clarify and distinguish the construction methodology (wooden and metal joinery) while constructing any set.
			163515.5	CO-5 Students should be able to compare choose appropriate hardware for construction and best possible material within the budget while constructing a set.
3	Design Project I	163516	163516.1	CO-1 Students should be able to find out areas where they can intervene for any event like window display, exhibition stalls, art fest and music shows etc.
			163516.2	CO-2 Students should be able to interpret the data collected though the case studies.
			163516.3	CO-3 Students should be able to develop concepts through sketches, models, technical drawings to organize an event considering purpose, place, people, zoning, services, materials etc.
			163516.4	CO-4 Students should be able to analyses a relationship between various factors like no of people, circulation area, no of stalls, area allotted for stalls etc. while designing for an event.
			163516.5	CO-5 Students should be able to decide appropriate material and represent it on drawings. They should be able to justify the budget provided for an event.
			163516.6	CO-6 Students should be able to create a feasible solution in terms of feasibility, aesthetics, materials, finance, services etc.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
4	Model Making	163517	163517. 1	CO-1	The students should be able to identify and recognise the various feature and properties of the Art materials. And experiment on same.
			163517. 2	CO-2	The students should be able to identify the correct material and develop some small 3D models as per their 2D sketches.
			163517. 3	CO-3	The students should be able to understand the various type of material and their feature, limitation and properties. Experiment on same.
			163517. 4	CO-6	The students will be able to developed some basic shapes from different type of material and convert into finish model.(Foam Bord, File bord, corgetted, etc.)
5	Advanced Illustrations	163518	163518. 1	CO-1	The students should be able to learn how to draw 3d views & how to show lighting, shine, reflection and shadow in design sketching.
			163518. 2	CO-2	The students should be able to understand how to use markers, watercolours, soft pastels, and various rendering materials to explain their concept, ideas, & design.
			163518. 3	CO-3	The students should be able to apply sketching & rendering skills for the presentation.
			163518. 4	CO-4	The students should be able to analyze the concept behind the story, scene, & explore the effective methods & appropriate mediums for design sketching.
			163518. 6	CO-6	The Students should be able to create rapid Ideation sketches, which are created by set designers while developing an idea of a Set.
6	Technical Drawing I	163519	163519. 1	CO-1	To make students define the different methods and how to use the techniques of making execution and rendering drawing.
			163519. 2	CO-2	Students should be able to illustrate and demonstrate the understanding , graphic language and rendering techniques through drawings.
			163519. 3	CO-3	The students should be able to construct and develop drawing by using the techniques to represent various interior details.
			163519. 4	CO-4	The students should be able to list the material and write specification in detail drawing.
			163519. 5	CO-5	The students should be able to choose the correct tools and technique to represent the execution and rendering drawing.
			163519. 6	CO-6	Students should be able to create the standard execution drawing.
7	Workshop Skills I	163520	163520. 1	CO-1	The students should be able to understand the use and handling process of tools with safety through experimentation.
			163520. 2	CO-2	The students should be able to identify and recognise the various features of the paper material and develop some designs as per creative ideas.
			163520. 3	CO-3	The students should be able to understand the use and handling process of paper material and tools with safety through experimentation.
			163520. 4	CO-4	The students should be able to understand the various type of material their feature, limitation and properties. (The method of Pesting,Finishing, colouring etc.). Experiment on same.
			163520. 5	CO-5	The students should be able to understand the various type of material their feature, limitation and properties.
			163520. 6	CO-6	The students will be able to identify appropriate material and convert into finish presentable model. (The method of Pesting,Finishing, colouring etc.). Experiment on same.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
8	Computers I	163521	163521.1	CO-1	The students should be able to choose and select correct tools and software for presenting concept, ideas of final design.
			163521.2	CO-2	The students should be able to demonstrate and illustrate the tools in software for presenting ideas of the final design.
			163521.3	CO-3	The students should be able to apply the understanding and construct detailed interior space of the design.
			163521.5	CO-5	The students should be able to choose correct tools for drafting detailed drawings.
			163521.6	CO-6	The students should be able to compose and create the drawing of interior space.

9	Exposure to Liberal Arts I	163522	163522.1	CO-1	The students should be able to identify and recognise the various aspects of modern art.
			163522.2	CO-2	The students should be able to understand various features of Folk art, Traditional art.
			163522.3	CO-3	The students should be able to apply the artistic skills to create art works.
			163522.4	CO-4	The students should be able to analyze the concept behind the subject, art style, art form, & interpret the study
			163522.6	CO-6	The students should be able to express their thoughts and concepts through the various art forms

Second Year Set Design Sem IV

1	History II	163523	163523.1	CO-1	Students should be able relate to various dynasties in ancient India by knowing their social, cultural, political life during ancient period.
			163523.2	CO-2	Student should be able to interpret the influence of social, cultural, political life on Art and architecture during ancient period.
			163523.3	CO-3	Student should be able to identify ancient architectural elements, artifacts, patterns, colors to establish the timeline of any ancient Indian dynasty.
			163523.4	CO-4	Students should be able to compare different architectural elements, forms, culture etc of ancient Indian dynasties.
			163523.5	CO-5	Students should be able to inculcate an analytical thinking about architecture and appraise various theoretical positions and to decide and recommend important architectural elements or props as a part of set of period film, drama or an event.

2	Elements of Form II	163525	163525.1	CO-1	To define the importance of Colour as an element of two and three dimensional objects and spaces and how they transform and impact spaces.
			163525.2	CO-2	To give students spatial understanding and articulation of form with the help of colour, texture, light and finishes.
			163525.3	CO-3	Students to illustrate their explorations having compositional values, given on exercises formulated based on different topics.
			163525.4	CO-4	To categorise, co relate, compare and develop their ideations based on colour, material, texture and light.
			163525.5	CO-5	The course enables the students towards analytical thinking, interpretation and analysis of explorations which can be converted into three dimensional models.
			163525.6	CO-6	To develop and compose hands on explorations and models based on exercises given.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
3	Elements of Medium I	163526	163526.1	CO-1	Students should be able to relate and tell how different elements makes a Television Production.
			163526.2	CO-2	Students should be able to explain and demonstrate the concept of time and space in Television Production.
			163526.3	CO-3	Student should be able to choose and make use of various Television Productions as a case study to develop understanding of different genres and Television Production techniques.
			163526.4	CO-4	Students should be able to discover relationship between Television channel, production house and audience.
			163526.5	CO-5	Students should be able to perceive and explain the process from script to broadcasting of a Television Production
			163526.6	CO-6	Students should be able to discuss the old classics, contemporary expressions and predict the new trends in Television Industry.
4	Materials and Construction II	163527	163527.1	CO-1	Students should be able to select the materials like paper, glass, acrylic, textiles etc. considering their physical, chemical, mechanical properties in the context of set design.
			163527.2	CO-2	Students should be able to illustrate the various construction techniques while using materials like paper, glass acrylic, textiles etc. they should be able to understand manufacturing processes of the material.
			163527.3	CO-3	Students should be able to identify and apply appropriate construction technique and treatments like polishing, painting, lamination etc. for the material to get desired effect.
			163527.4	CO-4	Students should be able to survey the market to compare different forms, types and varieties of materials.
			163527.5	CO-5	Students should be able to compare and choose appropriate materials and finishing within the financial budget.
			163527.6	CO-6	Students should be able to discuss the old classics, contemporary expressions and predict the new trends in Television Industry.
5	Design Project II	163529	163529.1	CO-1	The student should be able to relate and display the ability to undertake design process by choosing correct intervention
			163529.2	CO-2	The student should be able to demonstrate the ability of undertaking user research and synthesizing it into meaningful insights
			163529.3	CO-3	The student should be able to organize the information, facts and construct the opportunities of Design Intervention
			163529.4	CO-4	The student should be able to synthesize the surveys, information and data to formulate the Design Brief
			163529.5	CO-5	The student should be able to generate ideas and develop solutions and conclude on the most appropriate solutions
			163529.6	CO-6	The student should be able to create working solution and build prototype to demonstrate the feasibility with target users



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes
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6	Workshop Skills II	163531	163531.1	CO-1	The students should be able to understand the use and handling process of tools with safety through experimentation.
			163531.2	CO-2	The students should be able to identify and recognise the various features of the paper material and develop some designs as per creative ideas.
			163531.3	CO-3	The students should be able to understand the use and handling process of paper material and tools with safety through experimentation.
			163531.4	CO-4	The students should be able to understand the various type of material their feature, limitation and properties. (The method of Pesting, Finishing, colouring etc.). Experiment on same.
			163531.5	CO-5	The students should be able to understand the various type of material their feature, limitation and properties. (The method of Pesting, Finishing, colouring etc.). Experiment on same.
			163531.6	CO-6	The students will be able to identify appropriate material and convert into finish presentable model. (The method of Pesting, Finishing, colouring etc.). Experiment on same.

7	Technical Drawing II	163532	163532.1	CO-1	To make students define the different methods and how to use the techniques of making execution and rendering drawing.
			163532.2	CO-2	Students should be able to illustrate and demonstrate the understanding, graphic language and rendering techniques through drawings.
			163532.3	CO-3	The students should be able to construct and develop drawing by using the techniques to represent various interior details.
			163532.4	CO-4	The students should be able to list the material and write specification in detail drawing.
			163532.5	CO-5	The students should be able to choose the correct tools and technique to represent the execution and rendering drawing.
			163532.6	CO-6	Students should be able to create the standard execution drawing.

8	Advanced Photography	163533	163533.1	CO-1	Students should be able to recall and define basics of photography
			163533.2	CO-2	Students should be able to translate a thought and explain it in visual image form
			163533.3	CO-3	Student should be able to make use of camera and experiment with advanced digital technology and techniques
			163533.4	CO-4	Students should be able to discover and distinguish visual language of communication through photography
			163533.5	CO-5	Students should be able to perceive and choose their way of expression through photography and image manipulation
			163533.6	CO-6	Students should be able to create and invent original design approach towards photography for the purpose of Set Design with advanced technology and techniques

9	Exposure to Liberal Arts II	163534	163534.1	CO-1	The students should be able to know how professional artist works and how to produce artworks. it will help to improve their art expression.
			163534.2	CO-2	The students should be able to understand Development of modern paintings & sculptures in India, Important artists and their works.
			163534.3	CO-3	Students should be able to identify & apply various techniques and methods in different art activities.
			163534.4	CO-4	The students should be able to identify & recognise the various aspects of Indian modern painting, sculpture, & music.
			163534.6	CO-6	The students create art works and they get hands on experience.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes
Second Year Furniture Design Sem III				
1	History I	163535	163535.1	CO-1 To identify and recognize the ability of humans to think and act to satisfy a need.
			163535.2	CO-2 To understand the evolution of the civilization and their contributions like agriculture, pottery, social order.
			163535.3	CO-3 To relate to the understanding of how the people identified needs and designed to satisfy their needs.
			163535.4	CO-4 To evaluate the influences across different geographies on the development of objects, their expressions and its cultural relevance's.
2	Elements of Form I	163536	163536.1	CO-1 Recall basic concepts and terminology related to the language of form. Identify fundamental tools and techniques used for form manipulation and design.
			163536.2	CO-2 Explain the significance of form perception and appreciation in design. Describe how different tools and techniques can influence and alter form and shape.
			163536.3	CO-3 Apply principles of form perception and articulation in practical design exercises. Use fundamental tools to modify and create forms according to specific design objectives.
			163536.4	CO-4 Student should be able to discover & examine relationships between forms & emotional responses
			163536.5	CO-5 Critique various forms to assess their effectiveness in conveying intended messages or emotions. Evaluate the effectiveness of different tools and techniques in achieving desired form and shape objectives.
			163536.6	CO-6 Design innovative and original forms that clearly communicate specific ideas or emotions through their structure and composition, and develop new forms by integrating various tools and techniques to address unique design challenges.
3	Ergonomics I	163537	163537.1	CO-1 The student should be able to recall the learnings and relate it to the design process.
			163537.2	CO-2 The students should be able to understand know the concept,terminology and the relevance of Ergonomics in Design process.
			163537.3	CO-3 The student should be able to built and apply the Ergonomic knowledge
			163537.4	CO-4 The student should be able to break the informationto discover new insights and build relationship between human behaviour and ergonomics.
			163537.5	CO-5 The students demonstrate the ability to understand and interpret the information,observation of current user behaviour





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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes
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Second Year Furniture Design Sem III

4	Materials and Processes I	163538	163538. 1	CO-1	The students should be able to define what, why, when, where & which materials will be applies.
			163538. 2	CO-2	The students should be able to explain understanding of materials by classifying them according to the applications.
			163538. 3	CO-3	The students should be able to identify the appropriate material, manufacturing process & should be able to apply its knowledge.
			163538. 4	CO-4	The students should be able to categorize, co-relate, illustrate the data and undertake the market survey to analyze and compare.
			163538. 5	CO-5	The students should be able to use their learnings by recommending materials & manufacturing processes to evaluate in an existing product.
5	Design Project I	163539	163539. 1	CO-1	The students should be able to recall the process & should be able to define what, why, when, where, how the simple or basic needs is applied in furniture design.
			163539. 2	CO-2	The students should be able to demonstrated understanding by illustrating, relating & interpreting the information or needs in simple furniture design. They should be able to compare projects, caste studies, and summarize the facts and ideas.
			163539. 3	CO-3	The students should be able to identify key issues related to their design project & solve the problem by applying acquired knowledge, facts & different tools of creative thinking
			163539. 4	CO-4	The students should be able to examine, classify the information by comparing and analyzing the design solution for existing or proposed design.
			163539. 5	CO-5	The students should be able to explain, evaluate, appraise, defend or justify their own design solution, also they should be able to estimate or prove their design ideas.
			163539. 6	CO-6	The students should be able to create, develop, design & propose innovative solutions for their projects with help of models/prototypes. Also they should be able to formulate & compile their work.
6	Technical Drawing I	163540	163540. 1	CO-1	The students should be able to define the methods and how to use them accurately to communicate manufacturing drawing.
			163540. 2	CO-2	The students should be able to demonstrate and illustrate the manufacturing drawing with particular refernce to the drawing standard.
			163540. 3	CO-3	The students should be avle to apply the understanding to construct and develop manufaturing drawing with precission
			163540. 4	CO-4	The students should be able to understand the relationship between design and manufacturing drawing. The students should be able to list various materials and write the specification for manufacturing drawing.
			163540. 5	CO-5	Students should be able to choose correct tools for measuring and representing the manufacturing drawing.
			163540. 6	CO-6	Students should be able to create standard manufacturing drawing of their design.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
7	Workshop Skills I	163541	163541.1	CO-1	The students should be able to understand the use and handling process of tools with safety through experimentation.
			163541.2	CO-2	The students should be able to identify and recognise the various features of the paper material and develop some designs as per creative ideas.
			163541.3	CO-3	The students should be able to understand the use and handling process of paper material and tools with safety through experimentation.
			163541.4	CO-4	The students should be able to understand the various type of material their feature, limitation and properties. (The method of Pesting,Finishing, colouring etc.). Experiment on same.
			163541.5	CO-5	The students should be able to understand the various type of material their feature, limitation and properties. (The method of Pesting,Finishing, colouring etc.). Experiment on same.
			163541.6	CO-6	The students will be able to identify appropriate material and convert into finish presentable model. (The method of Pesting,Finishing, colouring etc.). Experiment on same.
8	Advanced Illustration	163542	163542.1	CO-1	The students should be able to learn how to create volumes, how to show lighting, shine, reflection and shadow in design sketching.
			163542.2	CO-2	The students should be able to learn how to use markers and different rendering materials.
			163542.3	CO-3	The students should be able to apply advanced sketching & rendering techniques to draw the various complex geometrical forms.
			163542.4	CO-4	The students should be able to analyze the concept behind the form, explore the effective methods & appropriate mediums for design sketching.
			163542.6	CO-6	The students should be able to invent & create new design illustration using different techniques & methods.
			9	Exposure to Liberal Arts I	163544
163544.2	CO-2	The students should be able to understand various features of Folk art,Traditional art.			
163544.3	CO-3	The students should be able to apply the artistic skills to create art works.			
163544.4	CO-4	The students should be able to analyze the concept behind the subject, art style, art form, & interpret the study			
163544.6	CO-6	The students should be able to express their thoughts and concepts through the various art forms			



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes
Second Year Furniture Design Sem IV				
1	History II	163545	CO-1	To identify and recognize the reasons for industrial revolution of the 18th and 19th century and the different movements.
			CO-2	To understand the influences, exchange of ideas and thought processes during this period. Also the contribution towards science and technology.
			CO-3	To be able to relate and apply the understanding of how the people innovated, invented and discovered materials, processes to satisfy their growing needs.
2	Elements of Form II	163547	163547.1 CO-1	Student should be able to know how to perceive, appreciate & articulate a visual. Student should be able to know how to use colour or texture as a tool in design.
			163547.2 CO-2	Student should be able to understand, interpret & summarize the collected data. Students should understand elements - colour & finishes which can articulate the form/product.
			163547.3 CO-3	Student should be able to choose & apply understanding of colour and finishes on new forms or products.
			163547.4 CO-4	Student should be able to study & analyze product with respect to colour & finishes used for product communication.
			163547.5 CO-5	Student should be able to determine, measure & evaluate the colour & finish value of a product explored.
			163547.6 CO-6	Student should be able to adapt extract of the understanding. Student should be able to build or develop a new application/form/ product on the understanding of colour & finishes.
3	Ergonomics II	163548	163548.1 CO-1	The student should be able to recall the learnings and relate it to the design process.
			163548.2 CO-2	The students should be able to understand know the concept, terminology of User ,User behaviour.
			163548.3 CO-3	The student should be able to built and apply the knowledge of user and user behaviour
			163548.4 CO-4	The student should be able to break the information to discover new insights and build relationship between human behaviour and design decisions.
			163548.5 CO-5	The student should be able to conclude and assess based on observations and insights.
4	Material & Processes II	163550	163550.1 CO-1	The students should be able to define what, why, when, where & which materials will be applies.
			163550.2 CO-2	The students should be able to explain understanding of materials by classifying them according to the applications.
			163550.3 CO-3	The students should be able to identify the appropriate material, manufacturing process & should be able to apply its knowledge.
			163550.4 CO-4	The students should be able to categorize, co-relate, illustrate the data and undertake the market survey to analyze and compare.
			163550.5 CO-5	The students should be able to use their learnings by recommending materials & manufacturing processes to evaluate in an existing product.





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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
5	Technical Studies	163552	163552. 1	CO-1	The student should be able to relate and recall the knowledge of Fundamentals of Physics, Simple Mechanisms.
			163552. 2	CO-2	The student should be able to explain and demonstrate basic understanding of Fundamentals of Physics, Simple Mechanisms and how it works.
			163552. 3	CO-3	The student should be able to apply acquired knowledge in developing new ideas of mechanical objects and its applications.
			163552. 4	CO-4	The student should be able to dissect and analyze the functions of mechanism and its working principles in the existing objects.
			163552. 5	CO-5	The student should be able to perceive importance of mechanism and its functioning and evaluate new ideas based on it.
			163552. 6	CO-6	The student should be able to create new designs based on their gained knowledge and can come up with new proposals/solutions.
6	Design Project II	163553	163553. 1	CO-1	The student should be able to relate and display the ability to undertake design process by <u>choosing correct intervention</u>
			163553. 2	CO-2	The student should be able to demonstrate the ability of undertaking user research and <u>synthesizing it into meaningful insights</u>
			163553. 3	CO-3	The student should be able to organize the information, facts and construct the opportunities of <u>Design Intervention</u>
			163553. 4	CO-4	The student should be able to synthesize the surveys, information and data to formulate the <u>Design Brief</u>
			163553. 5	CO-5	The student should be able to generate ideas and develop solutions and conclude on the most <u>appropriate solutions</u>
			163553. 6	CO-6	The student should be able to create working solution and build prototype to demonstrate the <u>check feasibility with target users</u>
7	Technical Drawing II	163554	163554. 1	CO-1	The students should be able to define the methods and how to use them accurately to communicate manufacturing drawing.
			163554. 2	CO-2	The students should be able to demonstrate and illustrate the manufacturing drawing with particular reference to the drawing standards.
			163554. 3	CO-3	The students should be able to apply the understanding to construct and develop manufacturing drawing with precision.
			163554. 4	CO-4	The students should be able to understand the relationship between design and manufacturing drawing. The students should be able to list various materials <u>and write the specification for manufacturing drawing.</u>
			163554. 5	CO-5	Students should be able to choose correct tools for measuring and representing the manufacturing drawing.
			163554. 6	CO-6	Students should be able to create standard manufacturing drawing of their design.





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8	Workshop Skills II	163555	163555.1	CO-1	The students should be able to understand the use and handling process of tools with safety through experimentation.
			163555.2	CO-2	The students should be able to identify and recognise the various features of the paper material and develop some designs as per creative ideas.
			163555.3	CO-3	The students should be able to understand the use and handling process of paper material and tools with safety through experimentation.
			163555.4	CO-4	The students should be able to understand the various type of material their feature, limitation and properties. (The method of Pesting,Finishing, colouring etc.). Experiment on same.
			163555.5	CO-5	The students should be able to understand the various type of material their feature, limitation and properties. (The method of Pesting,Finishing, colouring etc.). Experiment on same.
			163555.6	CO-6	The students will be able to identify appropriate material and convert into finish presentable model. (The method of Pesting,Finishing, colouring etc.). Experiment on same.
9	Exposure to Liberal Arts II	163557	163557.1	CO-1	The students should be able to know how professional artist works and how to produce artworks. it will help to improve their art expression.
			163557.2	CO-2	The students should be able to understand Development of modern paintings & sculptures in India, Important artists and their works.
			163557.3	CO-3	Students should be able to identify & apply various techniques and methods in different art activities.
			163557.4	CO-4	The students should be able to identify & recognise the various aspects of Indian modern painting, sculpture, & music.
			163557.6	CO-6	The students create art works and they get hands on experience.
			Third Year Product Design Sem V		
1	History III	173558	173558.1	CO-1	To recall and define the learnings of Physical and environmental ergonomics
			173558.2	CO-2	To understand and associate with the concept, terminology of Cognitive Science and Human Behavior.
			173558.3	CO-3	To build and relate the knowledge of cognitive ergonomics in understanding user experience.
			173558.4	CO-4	To compare the stereotypes and mental models to draw inferences of usability.
			173558.5	CO-5	To assess and decide on design decisions to ensure costumer acceptance.





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2	Elements of Form III	173559	173559.1	CO-1	Student should able to know what, why & how are form evolved & can be articulated. Student should able to know how form communicates.
			173559.2	CO-2	Student should able to understand, illustrate & explain form, structure & mechanisms in nature.
			173559.3	CO-3	Student should able to apply understanding of volume & structure to develop its scale model.
			173559.4	CO-4	Student should able to study & analyze form, structure & mechanisms in nature.
			173559.5	CO-5	Student should able to present & value, how an inspiration from nature can prove to be a better design. Student should able to select & transform the <u>attributes to develop new product.</u>
			173559.6	CO-6	Student should able to explore, build & create forms or product through sketches & models.
3	Ergonomics III	173560	173560.1	CO-1	To identify and recognize the ability of humans to think, strategies and execute.
			173560.2	CO-2	To understand and discuss the influences, exchange of ideas and thought processes during world wars and its implications on science and technology
			173560.3	CO-3	To relate to the understanding of how the developments during this world changed the way we live or operate in the world we live in.
			173560.4	CO-4	To analyze how objects, products of its times were designed and changed the markets and consumer behavior.
			173560.5	CO-5	To critically understand and evaluate the implications and its future possibilities.
4	Technical Studies	173562	173562.1	CO-1	Student should able to know latest techno-scientific principles & how it leads to possible innovation in product design
			173562.2	CO-2	Student should be able to understand, illustrate & explain different sources of energy & technologies related to energy & environment. Student should able to <u>understand their role in the field of design.</u>
			173562.3	CO-3	Student should be able to apply techniques to explore & explain product parts. Student should able to organize their findings.
			173562.4	CO-4	Student should be able to examine existing products by identifying its parts & technology used. Student should able to analyze how the product works.
			173562.6	CO-6	Student should be able to create exploded model of existing technical product to study.





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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
5	Design Project III	173563	173563. 1	CO-1	Student should able to know Why, Where & How to intervene through design in human realm & add value to the life of people. Student should able to do literature survey to find & collect relevant data. Student should be able to know how to use creative tools.
			173563. 2	CO-2	Student should able to understand, illustrate & explain data, technology and/or mechanisms in the context of identified need.
			173563. 3	CO-3	Student should be able to apply design process & techniques which should solve identified problem. Student should able to organize their findings from emphasize phase, thereby creating a broaden solution space.
			173563. 4	CO-4	Student should able to discover design opportunity in accessible environments. Student should able to do survey by activity recording & task analysis
			173563. 5	CO-5	Student should able to compare & evaluate processes to be used. Student should able to evaluate & validate collected or generated data.
			173563. 6	CO-6	Student should able to create concepts & explorations explanatory models by making use of design brief. Student should able to improve, build & construct the concept by design development & detailing. Student should able to design & create prototype.
6	Computer III	173564	173564. 1	CO-1	The students should be able to impart the knowledge of advance computer aided design software essential for designing & 3D visualization of product.
			173564. 2	CO-2	The students should be able to demonstrate and illustrate the tools in Autodesk Alias software for presenting ideas of the concepts/designs.
			173564. 3	CO-3	The students should be able to utilize the understanding of tools and apply them to develop their 3D product/concept/design.
			173564. 5	CO-5	The students should be able to present & explain their concepts with the support of 3d modelling software.
			173564. 6	CO-6	The students should be able to create and design 3D model of proposed solutions for their Design project.
7	Craft Documentation	173565	173565. 1	CO-1	The students should be able to relate what is India's rich culture, heritage & how it is defined. Also they should be able to list and choose rich cultural heritage craft for documentation.
			173565. 2	CO-2	The students should be able to demonstrate, establish an appreciation & give description and understanding by summarizing the information of our rich culture, heritage & vocabulary of craft techniques.
			173565. 3	CO-3	The students should be able to interview with communities, artisans & skilled craftsman to document the craft process.
			173565. 4	CO-4	The students should be able to dissect the collected data, analyze it & inspect to find the phenomenal base for drawing inspiration for relevant designs.
			173565. 5	CO-5	The students should be able to evaluate & recommend the possibility of extending the traditional material construction technique & craft techniques to contemporary application.
			173565. 6	CO-6	The students should be able to formulate, compile and compose the documentation of their projects by using the information collected & also they should be able to propose contemporary solution for their design.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes
Third Year Product Design Sem VI				
1	Dissertation I	173566	173566. 1	CO-1 To choose and define the aim and hypothesis of the dissertation topic.
			173566. 2	CO-2 To demonstrate the understanding of the defined area of enquiry by organising the data.
			173566. 3	CO-3 To apply the knowledge gained through data collection and identify challenges for further investigation.
			173566. 4	CO-4 To analyze the data collected of focused area to examine and discover gaps.
			173566. 5	CO-5 To compile the data in organised systematic way to create a report of valuable insights.
2	Elements of Form IV	173567	173567. 1	CO-1 Student should able to know how & what Volume, Form, Surfaces, Finishes & Details in a product communicates
			173567. 2	CO-2 Student should be able to understand, interpret, describe & summarize metaphoric design process.
			173567. 3	CO-3 Student should be able to choose & apply understanding of volume, form, surfaces, finishes & details while developing new product.
			173567. 4	CO-4 Student should able to study & analyze product aesthetic language of the selected brand with respect to Volume, Form, Surfaces, Finishes & Details in a Product
			173567. 5	CO-5 Student should able to determine & measure the products aesthetic language of the selected brand.
			173567. 6	CO-6 Student should able to adapt brand design language. Student should be able to design & develop a product maintaing the brand identity.
3	Material & Processes IV	173568	173568. 1	CO-1 The students should be able to recall and choose various materials and manufacturing processes to be used for design and development of product/furniture.
			173568. 2	CO-2 The students should be able to identify and explain various sustainable materials and processes employed in the manufacturing/development of design applications in the field of product/furniture design.
			173568. 3	CO-3 The student should be able to choose and apply the knowledge gained through the study of various material and its manufacturing processes to achieve desired product/furniture function.
			173568. 4	CO-4 The students should be able to select, critically analyze an existing product and compare it with respect to sustainable materials and manufacturing processes used in Industrial Design
			173568. 5	CO-5 To critically reflect and recommend the ecofriendly materials & manufacturing processes used in development of their proposed design solution in design project.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
Third Year Product Design Sem VI					
4	Design Project IV	173570	173570.1	CO-1	The student should be able to understand and relate to the process of system thinking and its importance as a designer for a wholistic problem solving approach.
			173570.2	CO-2	The student should be able to understand and demonstrate system thinking challenges, considerations and deliverables to understand the relationship of the variants - processes, people, products and parts that contribute towards the functioning of a system.
			173570.3	CO-3	The students should be able to identify the interrelationship and interdependency of various components of identified system and analyze it by mapping the strengths and weakness of the system.
			173570.4	CO-4	The student should be able to analyse the loopholes in the system by synthesizing and prioritizing the research observations leading to design brief.
			173570.5	CO-5	The students should be able to explain, evaluate, and justify their design solutions, also they should be able to compare the impact of new system proposal with the existing system.
			173570.6	CO-6	The students should be able to create, develop, design & propose innovative system solutions for their projects with help of models/prototypes.
5	Packaging Design	173571	173571.1	CO-1	Students should be able to define the importance of packaging and brand communication.
			173571.2	CO-2	The students should be able to demonstrated understanding by explaining & illustrating form, structure, materials & graphics used in packaging design.
			173571.3	CO-3	Students should be able to identify & solve problems by applying acquired knowledge & by experimenting with packaging design
			173571.4	CO-4	The students should be able to biuld relationship between product & packaging by discovering & analyzing elements of packaging
			173571.5	CO-5	The students should be able to evaluate, defend or justify their own design solution of packaging design and also form opinion of merits & demerits to help them choose.
			173571.6	CO-6	The students should be able to design, develop, & propose solutions for their projects with help of models/prototypes. Also they should be able to formulate & compile their work.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
Third Year Product Design Sem VI					
6	Seminar	173572	173572. 1	CO-1	The student should be able to choose and study contemporary challenges, technological innovations, brands and designers as per their interest areas.
			173572. 2	CO-2	The student should be able to explain and summarize their research by inculcating ability of reading, researching, interviewing and experiencing design issues and design works in global context.
			173572. 3	CO-3	The student should be able to develop understanding of the thought process and work of their selected topic and utilize the knowledge in learning process.
			173572. 4	CO-4	The student should be able to understand the relationship between designer/brand with their products and analyze its merits and demerits to make constructive conclusions.
			173572. 5	CO-5	The student should be able to draw opinions and conclude by judging the data collected.
7	Departmental Elective	173573		CO-1	The student should be able to select a subject of interest based on allied design professions and emerging technologies.
				CO-2	The student should be able to gather data and demonstrate the ability to compare and interpret the selected topic information.
				CO-3	The student should be able to develop an understanding of knowledge gathered, organise and synthesis the information collected.
				CO-4	The student should be able to draw inferences and discover new possibilities in their selected topic.
				CO-5	The student should be able to formulate an opinion /position on the learning of the subject through self initiated research process.
				CO-6	The student should be able to demonstrate the ability to creatively apply the skills / knowledge acquired during the learning process.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
Third Year Interior Design Sem V					
1	History III	173574	173574.1	CO-1	Student should be able to define the various characteristic features of architectural and design elements which emerged in different historical periods.
			173574.2	CO-2	To make students develop a sense of understanding of the design features pertaining to each design period.
			173574.3	CO-3	The course intends to make the students identify the design elements with respect to different design periods, cultural contexts, and their conversions in <u>Interior spaces</u> .
			173574.4	CO-4	The course intends to make students learn to categorise, co relate and illustrate the development of style characteristics of different periods and their impact on <u>Interior spaces</u> .
			173574.5	CO-5	The course enables the students towards interpretation, and evaluation of design characteristics belonging to different historic periods.
2	Soft Furnishings	173575	173575.1	CO-1	Students should be able to define and identify components and elements of soft furnishings.
			173575.2	CO-2	Students should be able to classify and differentiate the different use of furnishings, fittings and related accessories.
			173575.3	CO-3	Students should be able to choose and apply different soft furnishing based on their fulfillment of function.
			173575.4	CO-4	Students should be able to distinguish the different soft furnishings based on properties of material.
			173575.5	CO-5	Students should be able to judge and decide their understanding of how the décor of interior can be enhanced by using different furnishing based on their <u>advantages and limitations</u> .
			173575.6	CO-6	Students should be able to create design the ambience showing understanding of various soft furnishings i.e. floor coverings, window coverings etc.
3	Materials & Processes III	173576	173576.1	CO-1	Students should be able to choose the relevant materials for different surface finish applications considering their properties.
			173576.2	CO-2	Students should be able to classify various finishing materials based on their physical and chemical properties.
			173576.3	CO-3	Students should be able to apply specific a process to achieve the desired functional and aesthetic finish.
			173576.4	CO-4	Students should be able to analyze the strengths and limitations of different finishing materials.
			173576.5	CO-5	Students should be able to assess the possibilities of application of various surface finishing materials based on their properties.
			173576.6	CO-6	Students should be able to combine various finishing materials and building materials to create a functional and aesthetically pleasing habitable interior spaces.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
Third Year Interior Design Sem V					
4	Construction Technology III	173577	173577.1	CO-1	To define the various construction elements and materials related to construction of interior space design (Partition, Panelling and False Ceiling).
			173577.2	CO-2	To make students differentiate between the different materials and techniques used for construction of interior spaces.
			173577.3	CO-3	The course intends to make the students interpret the acquired knowledge and techniques learnt for designing space dividing elements.
			173577.4	CO-4	The course intends the students to perform market survey to collect information on construction materials and to plan space design proposals.
			173577.5	CO-5	The course enables the students towards analytical thinking, explaining and justifying their design proposals.
			173577.6	CO-6	Apply knowledge of the subject to propose and develop interior design schemes with material and construction details.
5	Building Services II	173578	173578.1	CO-1	The student should know how to illuminate interior spaces
			173578.2	CO-2	The student should be able to comprehend or understand sun as a source of natural lighting, day light, daylight factor and north light, and atmosphere as the components of natural light. Also to understand artificial lighting, and compare systems of lighting in interior spaces.
			173578.3	CO-3	The student should be able to apply the knowledge and by making use of it, develop their own electrical layout, or type of lighting systems and solve simple decision making problems.
			173578.4	CO-4	The students should be able to analyse his or similar proposal, examine the various type of fixtures, luminaires etc for the interior spaces, and conclude.
			173578.5	CO-5	The students should be able to evaluate and justify the purpose of the systems, materials, and illumination techniques he is adopting in the particular project.
			173578.6	CO-6	The student should be able to plan and propose a electrical layout for an interior space.
6	Design & Working Drawing -III	173579	173579.1	CO-1	Students should be able to relate the design solution to the function, anthropometry and ergonomics of a commercial interior space.
			173579.2	CO-2	Students should be able to demonstrate the understanding of the overlap of volume, function and aesthetics of a commercial interior space.
			173579.3	CO-3	Students should be able to develop the brand identity for the stake holders through a concept based approach to the design process and methodology.
			173579.4	CO-4	Students should be able to analyze the interior spaces in terms of volume, function, sustainability, aesthetics, multiple users experience and economic parameters for commercial and retail activities.
			173579.5	CO-5	Students should be able to assess the strengths and weaknesses of a design solution for a retail space based on the analytical study of the volume of the space, activity, function, multiple user interface and aesthetics.
			173579.6	CO-6	Students should be able to create a design for a commercial interior space which fulfills the functional, ergonomic, aesthetic and branding requirements of the stake holders.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
Third Year Interior Design Sem V					
7	Craft & Cultural Documentation	173581	173581.1	CO-1	The students should be able to relate what is rich culture, heritage and how it is defined. They should also be able to list and choose heritage craft for documentation.
			173581.2	CO-2	The students should be able to demonstrate, establish an appreciation and give description by understanding of our rich culture, heritage and explain the vast vocabulary of craft.
			173581.3	CO-3	The students should be able to interview with communities, artisan and skilled craftsman to collect the data document the craft process, architectural element and interior elements.
			173581.4	CO-4	The students should be able to dissect, analyze the collect data and inspect to find the phenomenal base for the drawing inspiration for relevant designs.
			173581.5	CO-5	The students should be able to evaluate and recommend the possibility of extending the traditional material construction techniques and craft techniques to contemporary application
			173581.6	CO-6	The students should be able to formulate, compile and compose the documentation of their project by using information collected and should be able to propose contemporary solutions for their design.
Third Year Interior Design Sem VI					
1	History IV	173582	173582.1	CO-1	To define how the origin and development of modern architecture and design took place in the western world in the 19th century.
			173582.2	CO-2	To make students develop a sense of understanding of the different design periods, their timeline, impact and development of Design during that period.
			173582.3	CO-3	The course intends to make the students identify the design elements with respect to different design periods, cultural contexts, and their conversions in Interior spaces.
			173582.4	CO-4	The course intends to make students learn to categorise, co relate and illustrate the influence and development of style characteristics of different periods.
			173582.5	CO-5	The course enables the students towards analytical thinking, interpretation and analysis of development of Design.
2	Interior Landscape	173584	173584.1	CO-1	Students should be able to select the proper spaces for landscape treatment based on their orientation and ecosystem.
			173584.2	CO-2	Students should be able to classify the various plants based on their growing habits, climatic and environmental requirements and physical properties.
			173584.3	CO-3	Students should be able to apply the knowledge of horticulture to create a balanced ecosystem in the landscaped space.
			173584.4	CO-4	Students should be able to analyze the effect of softscape and hardscape on the user experience and ecosystem of the landscaped area.
			173584.5	CO-5	Students should be able to determine the style and purpose of a landscape design to achieve the desired function and aesthetic.
			173584.6	CO-6	Students should be able to create a landscape design solution for an interior space which fulfills the functional and aesthetic purpose of the space.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
3	Materials & Processes IV	173585	173585.1	CO-1	Students should be able to choose the relevant materials for different hard and soft surface finish applications considering their properties.
			173585.2	CO-2	Students should be able to classify various hard and soft materials based on their physical properties, chemical properties and applications.
			173585.3	CO-3	Students should be able to apply specific materials to achieve the desired function and aesthetic finish.
			173585.4	CO-4	Students should be able to analyze the strengths and limitations of different hard and soft finishing materials.
			173585.5	CO-5	Students should be able to assess the possibilities of application of various hard and soft surface finishing materials based on their properties.
			173585.6	CO-6	Students should be able to combine various hard and soft finishing materials to create functional and aesthetically pleasing habitable interior spaces.
4	Construction Technology IV	173587	173587.1	CO-1	Students should be able to recall the various joinery and properties of various building materials.
			173587.2	CO-2	Students should be able to relate to the structural fundamentals and building materials used for various elements of a building.
			173587.3	CO-3	Students should be able to apply specific materials and construction techniques to build the various elements of a building.
			173587.4	CO-4	Students should be able to analyze the role of various elements of a building, their function, materials and aesthetics.
			173587.5	CO-5	Students should be able to assess the strengths and limitations of the various building materials and construction techniques.
			173587.6	CO-6	Students should be able to formulate the construction techniques and propose the materials to build various building elements.
5	Building Services III	173588	173588.1	CO-1	The students should know what is the theory and concept of mechanical ventilation,airconditioning and firefighting
			173588.2	CO-2	They should be able to understand and explain,firefighting,and be able to compare and illustrate active and passive ways of fighting fire.
			173588.3	CO-3	The student should be able to apply this knowledge to there project. They should be able to develop a layout of ducting ,or choose an appropriate system of air conditioning ,depending upon the location,need and function of the interior snaces
			173588.4	CO-4	The student should be able to analyse the relationship between the interior furniture layout ,proposed or existing and air conditioning system or mechanical ventilation to be used or adopted for the specific need or function.
			173588.5	CO-5	The student should be able to estimate/ calculate the tonnage capacity of the air conditioner to be used. They should be able to evaluate and explain their idea proposed for a particular interior spaces for air conditioning or fire fighting.
			173588.6	CO-6	The student must be able to estimate ,plan and propose an air conditioning and firefighting , layout or system ,for the interior spaces of a building.





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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes
6	Estimation & Costing	173589	173589.1	CO-1 The students should know what are specifications, estimations, contract and tender, their types, classification. why they are to be studied and, related to the design project. They should be able to define various terms, earnest money deposit, security deposit, boq, abstract, etc.
			173589.2	CO-2 The students be able to relate these, topics to their design project. They should be able to classify between various specifications, estimates, contracts and tenders. They should understand the importance of specifications, estimation, contracts and tenders in the profession of design,.
			173589.3	CO-3 The student should be able to develop their design by applying this knowledge. The student should be able to calculate the quantities of the material required and identify the specifications and procedures required to maintain the quality of work.
			173589.4	CO-4 They should be able to establish the relationship between specification writing, estimation and building design. They should be able to analyze their own design and simplify the same and conclude further for execution.
7	Dissertation i	173590	173590.1	CO-1 To define the various techniques of collecting, synthesizing and documenting the data required to undertake a research.
			173590.2	CO-2 To make students develop a sense of understanding of different techniques of collecting and synthesizing and interpreting data.
			173590.3	CO-3 Students to choose topics of their interest and plan systematically a report, based on learning acquired on techniques of data collection and synthesis.
			173590.4	CO-4 To categorise, co relate and compare the data findings.
			173590.5	CO-5 The course enables the students towards analytical thinking, determine and analyse the Data findings.
8	Design & Working Drawing -IV	173591	173591.1	CO-1 To define the Service based design typologies, their needs, importance and requirements
			173591.2	CO-2 To make students develop a sense of understanding multi-functional aspect and functional complexities of different service oriented design typologies, through data collection and case studies.
			173591.3	CO-3 Students will be able to plan and develop functional, technical, and environmental, social and aesthetical, aspects of interior design.
			173591.4	CO-4 Students will be able to categorise, co relate, compare and develop their ideations and work ahead in Design Process.
			173591.5	CO-5 The course enables the students towards analytical thinking, interpretation and analysis of design schemes.
			173591.6	CO-6 The course will prepare the students to develop their own design language of the design typology chosen, based on the skills acquired.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
9	Departmental Elective	173592	173592.1	CO-1	The student should be able to select and name the topic or context of study . They should be able to define the topic ,the synopsis of the topic. They should be able to find the resources of their study and relate the same to their course.
			173592.2	CO-2	The students should be able to explain the domain of their study and demonstrate the same.they should be able to relate and infer from the study undertaken.
			173592.3	CO-3	The students should be able to construct and develop their own research methodologies, by applying the knowledge and skill set they have learnt till now.They should be able to experiment ,and make use of the data relevant to their study.
			173592.4	CO-4	The students should be able to examine their own research data ,findings draw inferences . They should be able to perceive ,interpret ,support,or value and form their own opinion. They should be able to choose,compare,conclude their conclusions.
			173592.5	CO-5	They should be able to evaluate their study ,appraise and assess the same . They should be able to determine,and explain the topic they have studied. .
			173592.6	CO-6	They should be able to build certain hypothesis,or theory or model in their field of study.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
Third Year Set Design Sem V					
1	History III	173593	173593.1	CO-1	To recall and relate the contextual factors which influenced art and design.
			173593.2	CO-2	To make students develop a sense of understanding various characteristic art and design features from the history of Stage design contextually and globally.
			173593.3	CO-3	To develop the relation between Story and its representation in Set design using different elements.
			173593.4	CO-4	The course intends to categorise, co relate and illustrate the influence and development of style characteristics of different periods.
			173593.5	CO-5	The course enables the students towards analytical thinking, interpretation and analysis of different design element from different periods and contexts.
2	Elements of Form III	173594	173594.1	CO-1	Students should be able to choose one abstract artist out of abstract art movement and list down some of his work
			173594.2	CO-2	Students should be able to explain and interpret the selected artist's work which will develop understanding and demonstrate the artist's expression
			173594.3	CO-3	Student should be able to apply the interpretation and understanding of the artist work and develop concepts, plans and model for theatre space
			173594.4	CO-4	Student should be able to inspect the concepts and ideas he has developed and compare the options he has created for theatrical space
			173594.5	CO-5	Student should be able to evaluate, defend, and prove his selected design option
			173594.6	CO-6	Student should be able to maximize original solutions and propose, modify and invent concrete solution to the given problem
3	Materials & Construction III	173595	173595.1	CO-1	Students should be able to select appropriate materials to construct indoor and outdoor environment as a part of construction of set.
			173595.2	CO-2	Students should be able to understand and demonstrate the various construction techniques for temporary structures.
			173595.3	CO-3	Students should be able to make use of bricks, stones and other materials to construct temporary set.
			173595.4	CO-4	Students should be able to survey and analyze appropriate finishes for surfaces, floors, roof to create realistic set.
			173595.5	CO-5	Students should be able to compare and choose appropriate material and finishes to create furniture, trees, water bodies, building elements etc.
			173595.6	CO-6	Students should be able design and construct building elements like staircases, wall etc.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes
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Third Year Set Design Sem V

4	Elements of Medium II	173596	173596.2	CO-2	Students should be able to explain and demonstrate the language of Theatre.
			173596.3	CO-3	Student should be able to choose and make use of various Theatre shows as a case study to develop Theatre techniques and experiment with it.
			173596.4	CO-4	Students should be able to discover the concept of theatrical space and time and its relationship to the audience.
			173596.5	CO-5	Students should be able to perceive and explain the process from script to performance.
			173596.6	CO-6	Students should be able to discuss the old classics, contemporary expressions and predict the new trends in Theatre Industry.

5	Light & Camera I	173597	173597.1	CO-1	Students should be able to know why, what, when and how basic lighting is done for video Production.
			173597.2	CO-2	Students should be able to explain and demonstrate the basic language of moving images created by movie camera.
			173597.3	CO-3	Student should be able to choose and make use of various old classics and contemporary expressions as a case study to develop Cinematic techniques and experiment with it.
			173597.4	CO-4	Students should be able to discover the concept of theatrical space and time and its relationship to the audience.
			173597.5	CO-5	Students should be able to perceive and explain the process from script to performance.
			173597.6	CO-6	Students should be able to discuss the old classics, contemporary expressions and predict the new trends.

6	Design Project III	173598	173598.1	CO-1	Students should be able to learn why, what and how the process of set design for Theatre Production is carried out.
			173598.2	CO-2	Students should be able to demonstrate the application of sightlines, stage divisions and its importance in set design of Theatre Production.
			173598.3	CO-3	Student should be able to utilize and make use various Theatre shows as a case study to develop their own design brief and concepts.
			173598.4	CO-4	Students should be able to analyze the functioning of stage accessories while creating the concepts for their design project.
			173598.5	CO-5	Students should be able to explain and justify the form, material, aesthetics and light effects of their design project.
			173598.6	CO-6	Students should be able to imagine and construct a model to express their design project.





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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
7	Craft Documentation	173600	173600. 1	CO-1	Students should be able to find, recall and list our rich culture, heritage and vast vocabulary of craft technique and choose one of them for case study.
			173600. 2	CO-2	Students should be able to demonstrate and explain craft activity and able to rephrase the role of designer.
			173600. 3	CO-3	Student should be able to experiment with traditional material, craft technique and apply it to contemporary expression.
			173600. 4	CO-4	Students should be able to document and analyze the craft making process by directly interacting with artisans and skilled craftsman.
			173600. 5	CO-5	Students should be able to perceive and explain the process from script to screening of film.
			173600. 6	CO-6	Students should be able to discuss the old classics, contemporary expressions and predict the new trends in Film Industry.
8	Exposure to Liberal Arts III	173601	173601. 1	CO-1	The students should be able to identify and recognise the various aspects of Installation and Multimedia art.
			173601. 2	CO-2	The students should be able to understand various characteristics and features of Installation and Multimedia art.
			173601. 3	CO-3	The students should be able to apply the artistic skills to create art works.
			173601. 4	CO-4	The students should be able to analyze the concept behind the subject, art style, art form, & interpret the study
			173601. 6	CO-6	The students should be able to express their thoughts and concepts through Installation and Multimedia



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes
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Third Year Set Design Sem VI

1	History IV	173602	173602. 1	CO-1	Students should be able to know the development of filming technique from still photograph to motion picture and contribution of the great director for development of film industry.
			173602. 2	CO-2	Students should be able understand the various genre (categories) of cinema like silent, commercial, experimental, sci-fi etc. through the work of various experimental directors.
			173602. 3	CO-3	Students should be able to make use of various isms (realism, feminism etc.) in films. They should be able to identify appropriate authority while carrying out their work professionally.
			173602. 4	CO-4	Students should be able to compare the relationship between the filming techniques and their visual effects. They should be able to analyze the style of film director and technique used to translate the idea in the visual form.
			173602. 5	CO-5	Students should be able to understand importance and influence of filming techniques on final outcome as film through the history of Indian and world cinema.
			173602. 6	CO-6	Students should be able to imagine the style and filming techniques used by the director to shoot film.

2	Elements of Design I	173604	173604. 1	CO-1	Students should be able to understand the importance of Colour as an element of Production Design.
			173604. 2	CO-2	Students should be able to understand the Cinematic Space and articulation of colour, texture, light and finishes.
			173604. 3	CO-3	Students should be able to illustrate their explorations given on different genres, situations.
			173604. 5	CO-5	Students should be able to think analytically, Appreciate and analyse old classics and contemporary expressions of cinema.
			173604. 6	CO-6	To develop and compose hands on explorations and models based on exercises given.

3	Elements of Medium III	173605	173605. 1	CO-1	Students should be able to relate and tell how different elements makes a Cinema.
			173605. 2	CO-2	Students should be able to explain and demonstrate the concept of cinematic time and space.
			173605. 3	CO-3	Student should be able to choose and make use of various Film Productions as a case study to develop understanding of Cinema techniques and different genres.
			173605. 4	CO-4	Students should be able to discover, examine themes, narrative and structure in Cinema.
			173605. 5	CO-5	Students should be able to perceive and explain the process from script to screening of film.
			173605. 6	CO-6	Students should be able to discuss the old classics, contemporary expressions and predict the new trends in Film Industry.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes
Third Year Set Design Sem VI				
4	Materials & Construction IV	173606	163606.1	CO-1 Students should be able know new materials, technology and safety measures for construction of a set.
			163606.2	CO-2 Students should be able to translate knowledge (awareness) of lighting systems, fire fighting systems, materials and safety techniques in the practice.
			163606.3	CO-3 Students should be able to identify appropriate firefighting systems, electrical devices, lighting systems and safety measures to be implemented on the set.
			163606.4	CO-4 Students should be able to survey and analyses appropriate materials, finishes and electrification, lighting and firefighting systems for functioning of the set.
			163606.5	CO-5 Students should be able to understand importance of safety measure in terms of electrification and firefighting precautions in regular working (functioning) on set.
5	Light & Camera II	173608	173608. 4	CO-4 Students should be able to understand the function of light and camera equipment and accessories and take part in using it for shooting.
			173608. 5	CO-5 Students should be able to understand importance of visual design and role of director of photography from set designer's perspective.
			173608. 6	CO-6 Students should be able to design and construct an audio/visual story to taste their film making skills
6	Dissertation I	173609	173609. 1	CO-1 Students should be able to choose field of application as set designer and should know what, why, and how to write dissertation report.
			173609. 2	CO-2 Students should be able to classify information of the chosen field and explain ideas to present field of application as set designer.
			173609. 3	CO-3 Student should be able to build knowledge base and select examples, references, trend setters from the chosen field
			173609. 4	CO-4 Students should be able critically analyze the information, data collected to discover innovations in the chosen field.
7	Design Project IV	173610	173610. 1	CO-1 The Shudent should be able to Understanding the fundamentals of set design set proping and the roles involved in the art department.
			173610. 2	CO-2 The Student should be able to Analyzing cinematic spaces through visual and narrative storytelling.
			173610. 3	CO-3 The Student should be able to Applying conceptual thinking to interpret film scripts and identify design possibilities.
			173610. 4	CO-4 The Student should be able to Developing design solutions through research, ideation, and exploration.
			173610. 5	CO-5 The Student should be able to Generating creative concepts and presenting design ideas visually.
			173610. 6	CO-6 Demonstrating professional-level design presentations with technical and artistic precision. Hand renderings and final finished models of the final design solution.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
Third Year Set Design Sem VI					
8	Seminar	173611	173611.1	CO-1	The student should be able to choose and study contemporary production design and designers as per their interest areas.
			173611.2	CO-2	The student should be able to explain and summarize their research by inculcating ability of reading, researching, interviewing and experiencing design issues and design works in India and world context.
			173611.3	CO-3	The student should be able to develop understanding of the thought process and work of their selected topic and utilise the knowledge in learning process.
			173611.4	CO-4	The student should be able to understand the relationship between designer/director with their productions and analyze its merits and demerits to make constructive conclusions.
			173611.5	CO-5	The student should be able to draw opinions and conclude.
Third Year Furniture Design Sem V					
1	History III	173613	173613.1	CO-1	To recall and define the learnings of Physical and environmental ergonomics
			173613.2	CO-2	To understand and associate with the concept, terminology of Cognitive Science and Human Behavior.
			173613.3	CO-3	To build and relate the knowledge of cognitive ergonomics in understanding user experience.
			173613.4	CO-4	To compare the stereotypes and mental models to draw inferences of usability.
			173613.5	CO-5	To assess and decide on design decisions to ensure customer acceptance.
2	Elements of Form III	173614	173614.1	CO-1	Student should be able to know what, why & how are form evolved & can be articulated. Student should be able to know how form communicates.
			173614.2	CO-2	Student should be able to understand, illustrate & explain form, structure & mechanisms in nature.
			173614.3	CO-3	Student should be able to apply understanding of volume & structure to develop its scale model.
			173614.4	CO-4	Student should be able to study & analyze form, structure & mechanisms in nature.
			173614.5	CO-5	Student should be able to present & value, how an inspiration from nature can prove to be a better design. Student should be able to select & transform the attributes to develop new product.
			173614.6	CO-6	Student should be able to explore, build & create forms or product through sketches & models.





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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
3	Ergonomics III	173615	173615. 1	CO-1	To identify and recognize the ability of humans to think, strategies and execute.
			173615. 2	CO-2	To understand and discuss the influences, exchange of ideas and thought processes during world wars and its implications on science and technology
			173615. 3	CO-3	To relate to the understanding of how the developments during this world changed the way we live or operate in the world we live in.
			173615. 4	CO-4	To analyze how objects, products of its times were designed and changed the markets and consumer behavior.
			173615. 5	CO-5	To critically understand and evaluate the implications and its future possibilities.
4	Material & Processes III	173616	173616. 1	CO-1	The students should be able to recall and choose various materials and manufacturing processes to be used for design and development of product/furniture.
			173616. 2	CO-2	The students should be able to identify and explain various processes employed in the manufacturing/development of design applications in the field of product/furniture design.
			173616. 3	CO-3	The student should be able to choose and apply the knowledge gained through the study of various material and its manufacturing processes to achieve desired product/furniture function.
			173616. 4	CO-4	The students should be able to select, critically analyze an existing product and compare it with respect to materials and manufacturing processes used in Industrial Design
			173616. 5	CO-5	To critically reflect and recommend the materials & manufacturing processes used in development of their proposed design solution in design project.
5	Soft Furnishings	173617	173617. 1	CO-1	The students should be able to define how to select soft furnishing materials to enhance a space/furniture.
			173617. 2	CO-2	The students should be able to compare, classify and explain various types of soft furnishing and their materials.
			173617. 3	CO-3	The students should be able to choose from various types of materials and apply them in their space/furniture design.
			173617. 4	CO-4	The students should be able to analyze the data and undertake market survey of available types, prices, sizes and other accessories of the soft furnishings.
			173617. 5	CO-5	The students should be able to recommend and give opinions for new /future innovations in soft furnishing to evaluate and come up with new ideas in design for spaces/interiors.
			173617. 6	CO-6	The students should be able to create and design new proposals for weaving and stitching techniques of soft furnishings.
6	Design Project III	173618	173618. 1	CO-1	The students should be able to recall the process of design and should be able to define what, how & where the multifunctionality is applied in furniture design.
			173618. 2	CO-2	The students should be able to demonstrate understanding by interpreting and illustrating various needs in multifunctional furniture design.
			173618. 3	CO-3	The students should be able to identify needs and solve design challenges by applying acquired knowledge, facts and tools of critical creative thinking.
			173618. 4	CO-4	The students should be able to examine and categorize information by comparing and analysing
			173618. 5	CO-5	The students should be able to explain and evaluate their design concept.
			173618. 6	CO-6	The students should be able to create, develop, design and propose innovative solution.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
7	Craft Documentation	173620	173620.1	CO-1	The students should be able to relate what is India's rich culture, heritage & how it is defined. Also they should be able to list and choose rich cultural heritage craft for documentation.
			173620.2	CO-2	The students should be able to demonstrate, establish an appreciation & give description and understanding by summarizing the information of our rich culture, heritage & vocabulary of craft techniques.
			173620.3	CO-3	The students should be able to interview with communities, artisans & skilled craftsman to document the craft process.
			173620.4	CO-4	The students should be able to dissect the collected data, analyze it & inspect to find the phenomenal base for drawing inspiration for relevant designs.
			173620.5	CO-5	The students should be able to evaluate & recommend the possibility of extending the traditional material construction technique & craft techniques to contemporary application.
			173620.6	CO-6	The students should be able to formulate, compile and compose the documentation of their projects by using the information collected & also they should be able to propose contemporary solution for their design.
Third Year Furniture Design Sem VI					
1	Elements of Form IV	173621	173621.1	CO-1	Student should be able to know how & what Volume, Form, Surfaces, Finishes & Details in a product communicates
			173621.2	CO-2	Student should be able to understand, interpret, describe & summarize metaphoric design process.
			173621.3	CO-3	Student should be able to choose & apply understanding of volume, form, surfaces, finishes & details while developing new product.
			173621.4	CO-4	Student should be able to study & analyze product aesthetic language of the selected brand with respect to Volume, Form, Surfaces, Finishes & Details in a Product
			173621.5	CO-5	Student should be able to determine & measure the products aesthetic language of the selected brand.
			173621.6	CO-6	Student should be able to adapt brand design language. Student should be able to design & develop a product maintaining the brand identity.
2	Dissertation I	173622	173622.1	CO-1	To choose and define the aim and hypothesis of the dissertation topic.
			173622.2	CO-2	To demonstrate the understanding of the defined area of enquiry by organising the data.
			173622.3	CO-3	To apply the knowledge gained through data collection and identify challenges for further investigation.
			173622.4	CO-4	To analyze the data collected of focused area to examine and discover gaps.
			173622.5	CO-5	To compile the data in organised systematic way to create a report of valuable insights.





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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
3	Material & Processes IV	173623	173623. 1	CO-1	The students should be able to recall and choose various materials and manufacturing processes to be used for design and development of product/furniture.
			173623. 2	CO-2	The students should be able to Identify and explain various sustainable materials and processes employed in the manufacturing/development of design applications in the field of product/furniture design.
			173623. 3	CO-3	The student should be able to choose and apply the knowledge gained through the study of various material and its manufacturing processes to achieve desired product/furniture function.
			173623. 4	CO-4	The students should be able to select, critically analyze an existing product and compare it with respect to sustainable materials and manufacturing processes used in Industrial Design
			173623. 5	CO-5	To critically reflect and recommend the ecofriendly materials & manufacturing processes used in development of their proposed design solution in design project.
4	Material & Processes IV	173624	173624. 1	CO-1	The students should be able to recall and choose various materials and manufacturing processes to be used for design and development of product/furniture.
			173624. 2	CO-2	The students should be able to Identify and explain various sustainable materials and processes employed in the manufacturing/development of design applications in the field of product/furniture design.
			173624. 3	CO-3	The student should be able to choose and apply the knowledge gained through the study of various material and its manufacturing processes to achieve desired product/furniture function.
			173624. 4	CO-4	The students should be able to select, critically analyze an existing product and compare it with respect to sustainable materials and manufacturing processes used in Industrial Design
			173624. 5	CO-5	To critically reflect and recommend the ecofriendly materials & manufacturing processes used in development of their proposed design solution in design project.
5	Design Project IV	173625	173625. 1	CO-1	The students should be able to recall the process of design and should be able to define what, how & where the modularity is applied in furniture design.
			173625. 2	CO-2	The students should be able to demonstrate understanding by interpreting and illustrating various needs in modular furniture design.
			173625. 3	CO-3	The students should be able to identify needs and solve design challenges by applying acquired knowledge, facts and tools of critical creative thinking.
			173625. 4	CO-4	The students should be able to examine and categorize information by comparing and analysing.
			173625. 5	CO-5	The students should be able to explain and evaluate their design concept.
			173625. 6	CO-6	The students should be able to create, develop, design and propose innovative solution.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
6	Exhibition Design	173626	173626.1	CO-1	The students should get the knowledge of what is Exhibition Design and how it plays a crucial role in designing temporary spaces as well as furniture.
			173626.2	CO-2	The students should be able to demonstrate spatial understanding, design considerations and structural possibilities.
			173626.3	CO-3	The students should be able to applying the acquired knowledge in zoning and planning the space and can categorize types of structural possibilities and material used.
			173626.4	CO-4	The students should be able to examine in detail and break the information in parts by identifying the brand strategies and planning to exhibit the products.
			173626.5	CO-5	The students should be able to explain and evaluate their design concept.
			173626.6	CO-6	The students should be able to create, develop, design and propose innovative spaces with interactive elements like displays, installations, multimedia experiences.
7	Seminar	173627	173627.1	CO-1	The student should be able to choose and study contemporary challenges, technological innovations, brands and designers as per their interest areas.
			173627.2	CO-2	The student should be able to explain and summarize their research by inculcating ability of reading, researching, interviewing and experiencing design issues and design works in global context.
			173627.3	CO-3	The student should be able to develop understanding of the thought process and work of their selected topic and utilize the knowledge in learning process.
			173627.4	CO-4	The student should be able to understand the relationship between designer/brand with their products and analyze its merits and demerits to make constructive conclusions.
			173627.5	CO-5	The student should be able to draw opinions and conclude by judging the data collected.
8	Departmentl Elective	173628	173628.1	CO-1	The student should be able to select a subject of interest based on allied design professions and emerging technologies.
			173628.2	CO-2	The student should be able to gather data and demonstrate the ability to compare and interpret the selected topic information.
			173628.3	CO-3	The student should be able to develop an understanding of knowledge gathered, organise and synthesis the information collected.
			173628.4	CO-4	The student should be able to draw inferences and discover new possibilities in their selected topic.
			173628.5	CO-5	The student should be able to formulate an opinion /position on the learning of the subject through self initiated research process.
			173628.6	CO-6	The student should be able to demonstrate the ability to creatively apply the skills / knowledge acquired during the learning process.





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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes
Fourth Year Product Design Sem VII				
1	Dissertaion II	173629	173629. 1	
			173629. 2	CO-2 To demonstrate the understanding of the defined area of enquiry by organizing the data.
			173629. 3	CO-3 To apply the knowledge gained through data collection and identify challenges for further investigation.
			173629. 4	CO-4 To analyze the data collected of focused area to examine and discover gaps.
			173629. 5	CO-5 To be able to compile the data in organised systematic way to create a report of valuable insights.
2	Design Management	173630	173630. 1	CO-1 The student should be able to recall and relate how and why there is a need of design management in future potential of product design and development.
			173630. 2	CO-2 The student should be able to explain the process by categorizing the relationship between professional ethics, its roles and responsibilities in business.
			173630. 3	CO-3 The student should be able to apply the understanding in building and developing new business model canvas for design and development.
			173630. 4	CO-4 The student should be able to analyze and relate tools of professional practice of design management and process of Intellectual Property Rights.
			173630. 5	CO-5 The student should be able to explain and evaluate their business model by using tools of design management.
3	Design Project V	173632	173632. 1	CO-1 To understand, recognize, choose and define the scope and process of designing for people with special needs.
			173632. 2	CO-2 To demonstrate the ability of understanding the medical condition, facts and organizing it for synthesis into meaningful insights.
			173632. 3	CO-3 To explain, identify and classify the different types of disabilities. To identify the opportunity for design intervention.
			173632. 4	CO-4 To distinguish, connect and analyze the needs to prioritize and synthesis it with appropriate objectives of the design brief.
			173632. 5	CO-5 To generate, evaluate and decide on ideas in collaboration with the stakeholders to develop solution to solve the need.
			173632. 6	CO-6 The student should be able to plan, design and make mockups for testing to modify and build prototypes for user validation.





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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
4	Portfolio Making	173633	173633. 1	CO-1	The student should be able to relate how they can do representation of their work in the portfolio.
			173633. 2	CO-2	The student should be able to explain the identification and selection of the projects which shows their strength areas.
			173633. 3	CO-3	The student should be able to develop understanding of what to present and organise the work with knowledge/skills of software and different techniques to make the portfolio.
			173633. 4	CO-4	The student should be able to analyze and simplify how much and what to brief about the project.
			173633. 5	CO-5	The student should be able to formulate an opinion /evaluate their work according to what the firms/company looks for in their portfolio.
			173633. 6	CO-6	The student should be able to design and create their portfolio to communicate the work on bases of gained knowledge and software skills.
5	Industrial Training	173634-A	173634-A. 1	CO-1	To relate & apply the design process knowledge gained through different academic courses previously, for practically designing products.
			173634-A. 2	CO-2	To explain students the importance of practical work experience for successful execution and implementation of Designs.
			173634-A. 3	CO-3	To make students able to organise skills needed for practical execution of any project.
			173634-A. 4	CO-4	To enable students to co relate and analyze the skills of handling a project, building resources and execution challenges, required in industry and office work.
			173634-A. 5	CO-5	To enable students to evaluate the importance of professional ethics & conduct required in professional practices.
			173634-A. 6	CO-6	The student should be able to produce internship training report & documentation of the design process followed for the work done during the training periods in the respective offices, firms, organization.
Fourth Year Product Design Sem VIII					
1	Graduation Project	173635	173635. 1	CO-1	To understand the process of undertaking self initiated design project and define the aim, objectives and scope of design intervention in choosen area of Interest
			173635. 2	CO-2	To understand the process of undertaking self initiated design project and define the aim, objectives and scope of design intervention in choosen area of Interest
			173635. 3	CO-3	To diagnose,investigate and develop an understanding of the gap identified for potential design inversion to solve a problem within the existing system or propose a new system.
			173635. 4	CO-4	To synthesize and analyse the observations,insights in to meaningful objectives and formulate modified design brief.
			173635. 5	CO-5	To generate ideas in collaboration with the stakeholders and develop solution to make a difference.
			173635. 6	CO-6	To be able to make working solution and build prototype to validate the solution with user,sponsor to add value to the system



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
Fourth Year Interior Design Sem VII					
1	Dissertation II	173636	173636.1	CO-1	To explain and make students recall the process of academic report writing learnt in subject of Dissertation I.
			173636.2	CO-2	To make students understand the aim , objective , scope, and limitations of the project in the form of a well-articulated synopsis for the Report.
			173636.3	CO-3	Students to develop and formulate their research based on the process learnt in Dissertation I and to plan a report systematically, based on learning acquired on <u>techniques of data collection and synthesis.</u>
			173636.4	CO-4	To categorise, co relate and compare the data findings .
			173636.5	CO-5	The students should be able to decide the feasibility and design opportunity in the selected Graduation Project topics through the research done.
			173636.6	CO-6	Compile and formulate a report on self-initiated topics on the basis study done.
2	Professional Practice	173637	173637.1	CO-1	The students should be able to define profession and business.
			173637.2	CO-2	Students should be able to imagine and create a concepts and solution express by means of compositions, model etc.
			173637.3	CO-3	responsibilities in profession.
			173637.4	CO-4	The students should be able to establish good relationships with the stake holders of interior design profession.
			173637.5	CO-5	The students should be able to understand the importance of ethical practices in profession.
3	Construction Technology-V	173638	173638.1	CO-1	Students should be able to define the heritage, structural fundamentals and function of the external envelope of a building.
			173638.2	CO-2	Students should be able to classify the various building materials and construction techniques used in building the exteriors of buildings.
			173638.3	CO-3	Students should be able to apply specific materials and corresponding construction techniques to build the external elements of a building.
			173638.4	CO-4	Students should be able to analyze the strengths and weaknesses of various façade treatments of a building, their function, materials and aesthetics.
			173638.5	CO-5	Students should be able to assess the urban design value and the overlap of existing architectural elements of the building on the proposed façade design.
			173638.6	CO-6	Students should be able to formulate the construction techniques and use of building materials to achieve a specific functional and aesthetic outcome.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
Fourth Year Interior Design Sem VII					
4	Building Services-IV	173639	173639.1	CO-1	The students should know what are the basics of accoustics, who are the pioneers.
			173639.2	CO-2	The student should be able to understand acoustics,room accoustics its defects and remedies,sound , its properties,noise and noise control
			173639.3	CO-3	The student should be able to apply the knowledge of accoustics in the interior spaces.They should be able to calculate the reverberation time. They should be able to identify the problems ,defects in an interior spaces.They should be able to choose a , smart system for any interior spaces. They should be able to identify and solve the defect in an enclosed spaces.
			173639.4	CO-4	They should be able to analyse the accoustical problem or defect in an enclosed space. They should be able to draw a inference related to the accoustical properties of the enclosed spaces.They should reach certain conclusion regarding the measures to be taken for sound insulation ,or sound reinforcement.
			173639.5	CO-5	They should be able to evaluate or explain the accoustical remedies for an existing or any propesd interior spaces.they should be able to decide what material , measure should be taken to tackle noise pollution,sound insulation , or sound reinforment in an existing or propesd interior spaces.
				CO-6	They should be able to find a solution , to tackle the accoustical problem. Choose ,plan and propose a appropriate solution to resolve the accoustical defects,problems in an interior space. Adapt a smart system for a building.
5	Design & Working Drawing V	173640	173640.1	CO-1	To describe the complex interior design typologies and their functional requirements.
			173640.2	CO-2	To make students develop a sense of understanding multi-functional aspect, and functional requirements of design typologies, through data collection and case studies.
			173640.3	CO-3	Students will be able to plan and develop functional, technical, and environmental, social and aesthetical, aspects of interior design.
			173640.4	CO-4	To categorise, co relate, compare and develop their ideations and to work ahead in Design Process.
			173640.5	CO-5	The course enables the students towards analytical thinking, interpretation and analysis of design schemes.
			173640.6	CO-6	The course enables the students to design Interiors of a defined typology of space, based on the knowledge gained in the process.





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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes
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Fourth Year Set Design Sem VII

1	Dissertation II	173643	173643.5	CO-5	Students should be able to choose case studies, literature, and content as a response to the genre prioritized in the dissertation I.
			173643.6	CO-6	Students should be able to compile and compose in the form of a well elaborated Graduation Project Proposal

2	Set Design Management	173644	173644.1	CO-1	Students Should Recall and Relate to where, what, when of exiting sets from their exposure of Films, OTT, Television and Events
			173644.2	CO-2	Students should be able to Compare and Explain the Case studies
			173644.3	CO-3	Students should Develop and Apply their own skill set and Knowledge
			173644.4	CO-4	Students should be able to discover their own techniques in Set design Management
			173644.5	CO-5	Students should be able to understand the importance of management in Set Design Management
			173644.6	CO-6	Students should be able to create own solutions to fulfil the requirements of Set Design Management

			173646.1	CO-1	Students should be able to relate and tell what, why and how of visual effects (VFX) at an introductory level.
			173646.2	CO-2	Students should be able to classify, explain and illustrate categories/types of visual effects (VFX).

3	Elements Of Design II	173646	173646.3	CO-3	Student should be able to choose and make use of various Film Productions as a case study to develop their understanding of virtual space design and visual effects (VFX) techniques for different genres.
			173646.4	CO-4	Students should be able to discover role of art director and its function with other departments from the perspective of virtual space design and visual effects (VFX).
			173646.5	CO-5	Students should be able to perceive and explain the process of virtual space design and visual effects (VFX) of film and television production.
			173646.6	CO-6	Students should be able to discuss the old classics, contemporary expressions and predict the new trends in virtual space design and visual effects (VFX).

4	Design Project V	173647	173647.1	CO-1	Students should be able to choose a short story, adapt it to screenplay and define the set design project.
			173647.2	CO-2	Students should be able to interpret story, screenplay and illustrate visual ideas with mood board and story board
			173647.3	CO-3	Student should be able to develop design concept apply it though block models.
			173647.4	CO-4	Students should be able to analyze the functioning of set assuming property, actors' movement, camera movement and lights
			173647.5	CO-5	Students should be able to explain and justify the look and feel of their design and story, screenplay.
			173647.6	CO-6	Students should be able to imagine and construct a final model to elaborate their design project.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
5	Industrial Training	173648- A	173648- A. 1	CO-1	Students should be able to find and choose firms / individuals to undergo Industrial Training.
			173648- A. 2	CO-2	Students should be able to classify the work and compare it and rephrase the classroom activities from the perspective of set design.
			173648- A. 3	CO-3	Student should be able to make use experience of professionals in the field and develop their own understanding.
			173648- A. 4	CO-4	Students should take part in working of art department and discover its relationships with other departments.
			173648- A. 5	CO-5	
			173648- A. 6	CO-6	
Fourth Year Set Design Sem VIII					
1	Graduation Project	173649	173649. 1	CO-1	Students should be able to select the findings from the research carried under the subject dissertation II and define the Graduation Project
			173649. 2	CO-2	Students should be able to explain and illustrate their own interpretation of the project and show out line of self-initiated process demonstrating all the knowledge, skills learned in the previous academic years.
			173649. 3	CO-3	Student should be able to utilize and make use various previous productions as a case study to develop their own design brief, concepts and techniques.
			173649. 4	CO-4	Students should be able to analyze the research done with conclusion
			173649. 5	CO-5	Students should be able to explain and justify the form, material, aesthetics and light effects of their design project.
			173649. 6	CO-6	Students should be able to imagine and construct a model to express their design project.



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S.no.	Subject Name	Subject Code	Co-Code	Course Outcomes	
Fourth Year Furniture Design Sem VII					
1	Dissertation II	173650	173650.1	CO-1	
			173650.2	CO-2	To demonstrate the understanding of the defined area of enquiry by organizing the data.
			173650.3	CO-3	To apply the knowledge gained through data collection and identify challenges for further investigation.
			173650.4	CO-4	To analyze the data collected of focused area to examine and discover gaps.
			173650.5	CO-5	To be able to compile the data in organised systematic way to create a report of valuable insights.
			173650.6	CO-6	
2	Design Management	173651	173651.1	CO-1	The student should be able to recall and relate how and why there is a need of design management in future potential of product design and development.
			173651.2	CO-2	The student should be able to explain the process by categorizing the relationship between professional ethics, its roles and responsibilities in business.
			173651.3	CO-3	The student should be able to apply the understanding in building and developing new business model canvas for design and development.
			173651.4	CO-4	The student should be able to analyze and relate tools of professional practice of design management and process of Intellectual Property Rights.
			173651.5	CO-5	The student should be able to explain and evaluate their business model by using tools of design management.
3	Design Project V	173653	173653.1	CO-1	To be able to recognize about the role of application of furniture design in different context. To understand, recognize, choose and define the scope and process of designing a public furniture
			173653.2	CO-2	To be able to understand contextual need for developing the design solution with empathy.
			173653.3	CO-3	To apply the knowledge gained through the literature study, case study, market research and interviews conducted, to discover the problem statement.
			173653.4	CO-4	To analyse the reflections of studies and observations point out problem discovered.
			173653.5	CO-5	To interpret and justify solution with the help of different explorations
			173653.6	CO-6	To be able to propose their individual solutions for development of design.



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S.no.	Subject Name	Subject Code	Co- Code	Course Outcomes	
4	Portfolio Making	173654	173654. 1	CO-1	The student should be able to relate how they can do representation of their work in the portfolio.
			173654. 2	CO-2	The student should be able to explain the identification and selection of the projects which shows their strength areas.
			173654. 3	CO-3	The student should be able to develop understanding of what to present and organise the work with knowledge/skills of software and different techniques to make the portfolio.
			173654. 4	CO-4	The student should be able to analyze and simplify how much and what to brief about the project.
			173654. 5	CO-5	The student should be able to formulate an opinion /evaluate their work according to what the firms/company looks for in their portfolio.
			173654. 6	CO-6	The student should be able to design and create their portfolio to communicate the work on bases of gained knowledge and software skills.
5	Industrial Training	173655 - A	173655 - A. 1	CO-1	To relate & apply the design process knowledge gained through different academic courses previously, for practically designing products.
			173655 - A. 2	CO-2	To explain students the importance of practical work experience for successful execution and implementation of Designs.
			173655 - A. 3	CO-3	To make students able to organise skills needed for practical execution of any project.
			173655 - A. 4	CO-4	To enable students to co relate and analyze the skills of handling a project, building resources and execution challenges, required in industry and office work.
			173655 - A. 5	CO-5	To enable students to evaluate the importance of professional ethics & conduct required in professional practices.
			173655 - A. 6	CO-6	The student should be able to produce internship training report & documentation of the design process followed for the work done during the training periods in the respective offices, firms, organization.
Fourth Year Furniture Design Sem VIII					
1	Graduation Project	173656	173656. 1	CO-1	To develop a thorough understanding of the process involved in undertaking a self-directed graduation project, defining clear aims, objectives, and the scope of design intervention within the selected area of interest.
			173656. 2	CO-2	To gain a comprehensive grasp of the methodologies for independently managing a design project, clearly articulating its purpose, objectives, and boundaries in alignment with the chosen domain.
			173656. 3	CO-3	To identify, investigate, and critically analyze gaps or inefficiencies in existing systems, or to explore opportunities for creating new systems, forming the foundation for meaningful design interventions.
			173656. 4	CO-4	To synthesize research findings and insights, transforming them into actionable objectives and crafting a well-structured and refined design brief.
			173656. 5	CO-5	To collaboratively ideate and engage with stakeholders in the development of impactful, innovative solutions that address the identified challenges effectively.
			173656. 6	CO-6	To develop functional prototypes and validate proposed solutions through feedback from users ensuring the outcomes deliver value and align with the project's goals.

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B. Des. – Course Structure (2023 pattern)



SAVITRIBAI PHULE PUNE UNIVERSITY

REVISED SYLLABUS FOR BACHELOR OF DESIGN

(To be implemented w.e.f. A.Y. 2023-24)

PROGRAMME STRUCTURE FROM FIRST TO FOURTH YEAR

BOARD OF STUDIES IN DESIGN
FACULTY OF SCIENCE AND TECHNOLOGY



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PREAMBLE

The New Syllabus of the B.Des. course hence forth to be referred as the 2023 Pattern, to be implemented from the year 2023-24, is designed to address the rising expectations of knowledge to be borne in the Design field.

The interdisciplinary nature of the field of Design demands a holistic approach of knowledge, to achieve any design solution. Hence the syllabus has been designed considering 5 verticals, Design & Aesthetics, Skills, Science & Technology, Humanities and Electives. The professional core subjects are supported by science and technology courses, skill oriented courses, and the courses from Humanities & Electives.

The professional ability enhancement courses and the practical training of one semester focuses on connecting the students with the Practice.

The elective courses enables exposure to other domains and nurtures the students' proficiency and skill.

The Audit courses are introduced to acknowledge the knowledge that the student seeks in his/her area of interest but not directly contribute to the CGPA.

At the end of the course the graduating student shall be able to methodically approach a problem of creating design solution employing knowledge from various domains and at the same time making it safe, equitable, feasible and environment friendly.

The course is designed upon the Credit System Based Assessment. The syllabus is structured with the following objectives and expected outcomes



COURSE LEARNING OUTCOMES

1. Knowledge
2. Principles & Theory
3. Creative Thinking
4. Critical Thinking
5. Problem solving skills
6. Communication Skills
7. Collaborative working
8. Multicultural competence
9. Empathy & inclusivity
10. Judgement for decision making

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PROGRAMME LEARNING OUTCOMES

1. To demonstrate capabilities to solve design problems and issues.
2. To demonstrate the capability to design in multidisciplinary environments collaboratively.
3. To demonstrate leadership qualities, professional ethics and work effectively in a team.
4. To continue professional development through self-learning, design practice and higher education, and adapt to changing contexts.
5. To continuously contribute to the growth of design knowledge.
6. To pursue successful design careers nationally and internationally.
7. To pursue the role of design profession as a bonding element in nurturing happiness and harmony within society.



BACHELOR OF DESIGN

PROGRAMME STRUCTURE AND RULES

RULE NO.1: ELIGIBILITY CRITERIA

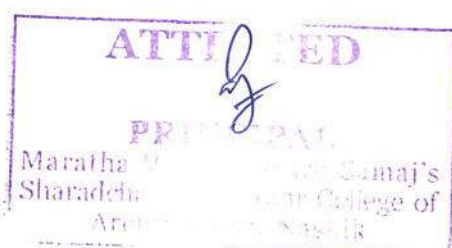
The student seeking admission to B.Des. course must have obtained minimum 50% marks in the Higher Secondary School Certificate Examination or equivalent (Diploma of State Board of Technical Education), or min 50% in B. Voc. Course of any discipline, and must also pass the Aptitude Test conducted by individual Institute/ any other Designated Authority by University of Pune /Government of Maharashtra.

RULE NO.2: SCHEME OF ASSESSMENT

A candidate to be eligible for the degree of Bachelor of Design will be required to appear for and pass examinations as under:

S. No.	SEMESTER	CREDITS
1	SEM I	20
2	SEM-II	20
TOTAL CREDITS FOR FIRST YEAR B. DES.		40
1	SEM III	22
2	SEM IV	22
TOTAL CREDITS FOR SECOND YEAR		44
1	SEM V	22
2	SEM VI	22
TOTAL CREDITS FOR THIRD YEAR		44
1	SEM VII	20
2	SEM VIII	20
TOTAL CREDITS FOR FOURTH YEAR		40
TOTAL CREDITS FOR EACH DISCIPLINE		168

Total Credits of the course =168





MVPS's Sharadchandraji Pawar College of Architecture

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B. Des. – Course Structure (2015 pattern)

B.DESIGN

COURSE STRUCTURE FROM FIRST TO FOURTH YEAR



ATTESTED
[Signature]
PRINCIPAL
Maratha Vidya Prasarak Samaj's
Sharadchandraji Pawar College of
Architecture, Nashik

RULES OF COURSE STRUCTURE FOR FIRST TO FOURTH YEAR B.DES.

RULE NO.1: ELIGIBILITY CRITERIA

The student seeking admission to B.Des. course must have passed Higher Secondary school Certificate Examination or equivalent and also have to pass the Aptitude Test conducted by individual Institute/ any other Designated Authority by University of Pune /Government of Maharashtra.

RULE NO.2: SCHEME OF ASSESSMENT

A candidate to be eligible for the degree of Bachelor of Design will be required to appear for and pass examinations as under:

1. First Year B. Des	SEM I AND SEM II
2. Second Year B. Des	SEM III AND SEM IV
3. Third Year B.Des	SEM V AND SEM VI
4. Final Year B. Des	SEM VII AND SEM VIII

RULE NO 3: GRANTING OF TERM

Academic Year will consist of Two SEMESTERS of 90 teaching days each. The internal teacher throughout the semester shall continuously assess sessional work prepared by the students and assessed at the end of the every semester either by internal teacher / jointly by the internal and external examiners as prescribed in the examination scheme of syllabus. The candidates will be permitted to appear for the examinations at the end of each semester only if he/she keeps term at a college affiliated to the university and produces testimonials from the Principal for

1. 75% attendance in each head of passing of Theory and/or Sessional work as prescribed by the University.
2. Satisfactory completion of the Sessional Work prescribed for each subject and secured at least 45% marks in the internal Assessment for the same.
3. Good conduct

ATTESTED

PRINCIPAL
Maratha Vidya Prasarak Samaj's
Sharadchandraji Pawar College of
Architecture, Nashik



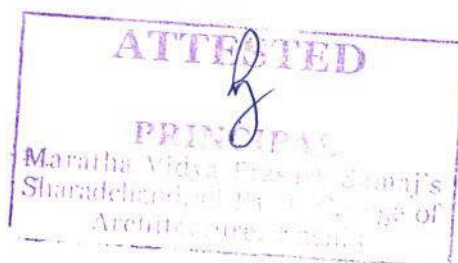
RULE NO 4: EXAMT NATTONS

At each examination

- Theory paper
- Sessional (internal+ External) and
- Sessional and viva- voce based on Sessional Work, as prescribed in the syllabus for the Examination at the end of the Semester, shall constitute separate heads of passing.

RULE NO 5: SESSIONAL WORK ASSESMMENT

- a) In respect of Sessional work at First, Second, Third year and Fourth year; target date shall be fixed for the completion of each assignment. All assignments shall be continuously assessed by the Internal Teacher during each semester and students are required to get minimum 45% marks in internal marking.
- b) At the end of each term sessional work shall be assessed jointly by the Internal and External examiners from amongst the panel approved by the university for the subject.
- c) Performance of sessional/viva voce Examination shall be assessed on the basis of the depth of understanding of the principals involved and not on the basis of mere correctness or results of ornamental or colourful presentation.
- d) Students may use computers for preparing sessional work where nature of work is unique to an individual and stress is on content rather than skill. For common form of work, drawings and reports/notes shall be manually prepared.
- e) For First, second, and Third year, External Sessional and viva Assessment shall be done by an External Examiner who is external to the college, i.e. teacher from college other than one, whose students are being examined or a professional having expertise in the same area.
- f) For Final Year examination external assessment shall be carried out by a professional not teaching in any of the colleges under University of Pune.
- An examiner for any of the subjects of examination from First to Third year, shall have minimum of **THREE YEARS** of teaching professional experience in his / her field of study.
 - To qualify for the External Examiner at Final Year, the professional shall have a minimum of **FIVE YEARS** of professional experience.



RULE NO 6: PRE REQUISITES AND RULES OF A.T.K.T. FOR ADMISSION TO HIGHER CLASSES

1. Student seeking admission to second Year may have A.T.K.T. in THREE subject heads of first year (Sem I & Sem II).

2 student seeking admission to THIRD YEAR must have passed in first year and may have A.T.K.T. in THREE subject heads of Second year. (Sem III + IV)

3 Student seeking admission to Fourth YEAR must have passed in second year and may have A.T.K.T. In THREE subject heads of third year (Sem V+ Sem VI)

If the student obtains minimum passing marks in all the subject heads but fails to get minimum aggregate passing marks of 45% he will be allowed to keep terms for next academic year but he will have to improve his performance and obtain minimum 45% aggregate marks by reappearing in next attempt. The choice of subject will be left to the students but it will not be more than 50% of total subject heads of both the semesters taken together.

RULE NO. 7: CRITERIA FOR PASSING

To pass the first, second, Third, Fourth Year examination a candidate must obtain minimum 40% marks in Theory paper, 45% in sessional /viva voce and 45% in aggregate.

RULE NO.8: GRADING SYSTEM

The class shall be awarded to the student on the aggregate marks obtained by him in both the Semesters taken together. The award of class shall be as follows:-

- | | | |
|--|---|------------------------------|
| a) Aggregate 66% or more | : | First Class with Distinction |
| b) Aggregate 60% or more but Less than 66% marks | : | First Class |
| c) Aggregate 55% or more but Less than 60% marks | : | Higher Second Class |
| d) Aggregate 50% or more but Less than 55% marks | : | Second Class |



RULE No. 9: EXEMPTIONS AND SUPPLEMENTARY EXAMINATION

In case a candidate fails and desires to appear again,

- a) He / she will be exempted from appearing in the subjects in which he, /she has passed.
- b) A candidate will have to appear for the examination of backlog subjects along with the examination of current semester.

RULE NO.10: OTHER RULES

University affiliated colleges may frame additional rules and regulations or modify these regulations if required, and once approved by the University they would be binding on the students.

INTRODUCTION OF THIS CURRICULUM.

The new curriculum for the degree course in B.Des. will, be introduced gradually as under:

- a) First year B.Des course from June 2015.
- b) Second year B.Des course from June 2016.
- c) Third year B.Des course from June 2017.
- d) Fourth year B.Des course from June 2018.

