


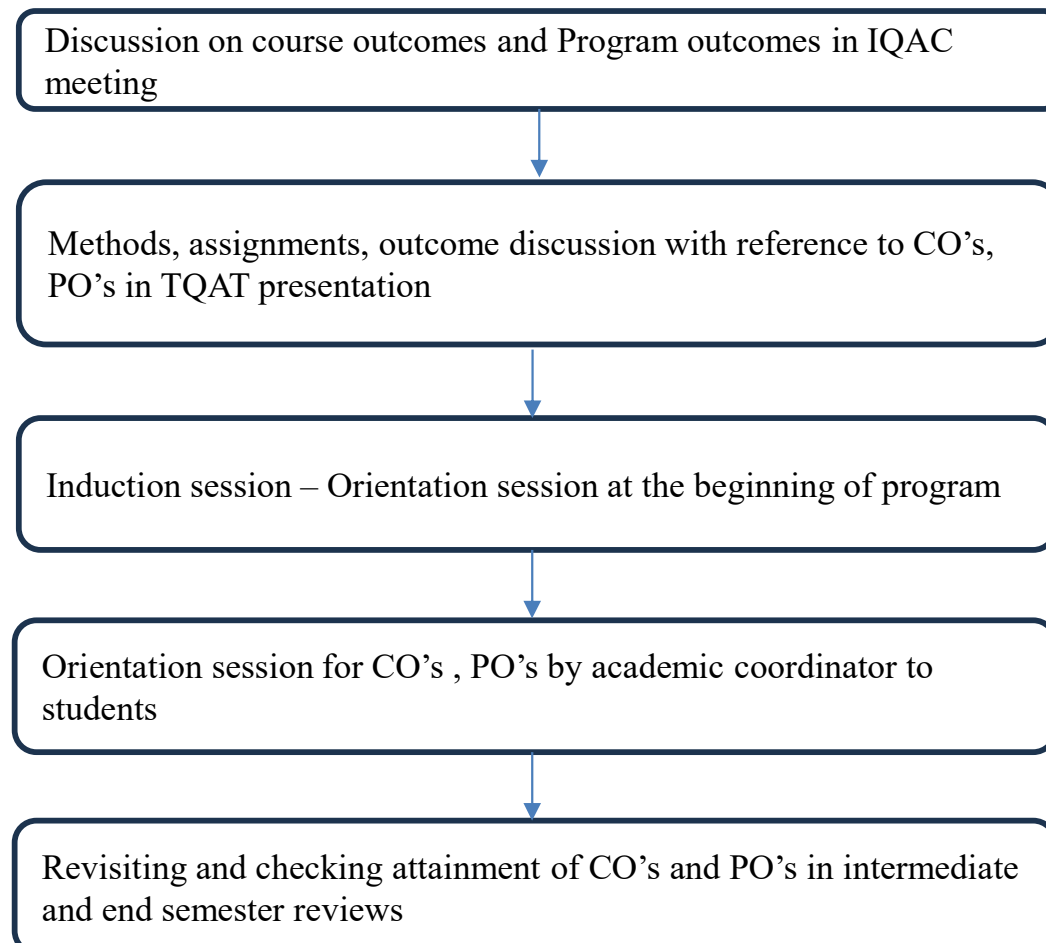
SSR (2019-20 TO 2023-24)	
Criterion 2 – Teaching Learning and Evaluation	
2.6.1: Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website	

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Introduction

The institute adopts Outcome based education and has clearly stated learning outcomes of the Programs and Courses. The faculties and students are aware of outcomes by a robust mechanism designed by IQAC committee. The importance of the learning outcomes has been communicated to the teachers in every IQAC meeting and weekly college staff meeting. The institute describes Program outcomes (PO's), course outcomes (CO's) and program specific outcomes (PSO's) to the first-year students along with parents at the commencement of the degree program in induction activity. Faculties prepare and present Teaching-Learning Quality Assurance Tool (TQAT) plan including intent, methodologies, assignment structure, assessment criteria in consideration with all CO's, PO's and PEOs as per the university's course structure and syllabus in front of the academic and professional expert. After getting valuable comments, Faculty introduces revised TQAT to students. Learning Outcomes of the Programs and Courses are observed and measured periodically. Hard Copy of syllabi, course structure and Learning Outcomes are available in the staff room, admin office and library for ready reference. There are quarterly reviews with faculties are planned to evaluate and revisit the process and the expected Program and course outcomes as defined at the beginning of the semester.



Flow chart of awareness for CO's and PO's



2.6.1: Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

The institute follows Savitribai Phule Pune University syllabus. The program outcomes have been defined at a broader level by the university, whereas the course outcomes are decoded by the course faculty. This process includes interpretation of the syllabus given by the university and aligning it with the philosophy of the institute.

The university has set the Program Educational Objective as below.

“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.1”

The university has defined the program educational objectives in terms of development of **Theoretical Base, Knowledge and Skills**, inculcating the **Values**, venturing into **Research** based approach, practices with **Ethical base** and adapting to the **Changes and Diversification**.

The expected program outcomes as per the university are:

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 the 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 Specialization or Practice**- Able to judge one’s area of interest and accordingly choose the field of practice.

The program outcome is considered as the complete cycle of the teaching and learning process. At the time of admission of students, the new batch of the institute along with their parents are given a detailed induction on the program outcomes and orientation of the courses offered. This induction program aims to communicate the intent of the program, institute’s philosophy, pedagogy, and **expected outcomes**.



B. ARCH. COURSE OUTCOMES (2019 PATTERN)

Website - <https://brick.edu.in/>

COURSE OUTCOMES FOR B.ARCH 2019 PATTERN					
SR. NO.	SUBJECT NAME	COURSE CODE	CO CODE	COURSE OUTCOMES	
FIRST YEAR B. ARCH SEM I					
1	BASIC DESIGN	1201901 (SS)	1201901-1	CO1	To discuss the importance of the sources of inspiration and elements of basic design for creativity in design.
			1201901-2	CO2	To identify instances where sensitivity to surroundings influences design decisions.
			1201901-3	CO3	To estimate the impact of sensory experiences on user perception of space.
			1201901-4	CO4	To combine different design elements to create cohesive compositions.
			1201901-5	CO5	To assess the impact of sensory design on user experiences and well-being.
			1201901-6	CO6	To design various elements to communicate specific messages or evoke certain emotions.
2	BUILDING CONSTRUCTION AND MATERIALS I	1201902 [THEORY] & 1201903 [SV]	1201902 - 1	CO1	To discuss & understand the importance of the subject matter.
			1201902 - 2	CO2	To explain how building elements are organized and integrated.
			1201902 - 3	CO3	To examine the structural requirements based on specific considerations.
			1201902 - 4	CO4	To combine theoretical knowledge with practical application in structures.
			1201902 - 5	CO5	To assess the structural integrity of elements in designs.
			1201902 - 6	CO6	To create detailed drawings and specifications for project components.
3	THEORY OF STRUCTURES I	1201904 [THEORY]	1201904 - 1	CO1	To remember and recall essential concepts and their importance.
			1201904 - 2	CO2	To understand and explain different systems and their conditions.
			1201904 - 3	CO3	To apply techniques for calculating pertinent parameters.
			1201904 - 4	CO4	To analyze relationships and behaviors under various scenarios.
			1201904 - 5	CO5	To evaluate different mechanisms and principles of stability.
			1201904 - 6	CO6	To create diagrams illustrating critical points under diverse conditions.
4	ARCHITECTURAL GRAPHICS AND DRAWING- I	1201905 [SS]	1201905 - 1	CO1	To remember basic architectural graphic symbols and conventions used in technical drawings and use various drawing instruments.
			1201905 - 2	CO2	To understand the purpose of different line types, scales, dimensions and annotations in architectural drawings.
			1201905 - 3	CO3	To apply understanding in basic architectural drawings, such as floor plans and elevations, using manual drawing tools.
			1201905 - 4	CO4	To analyse simple architectural drawings to identify spatial relationships and details.
			1201905 - 5	CO5	To Review and assess basic architectural drawings for accuracy and adherence to standard graphic language.
			1201905 - 6	CO6	To Produce architectural drawings and sketches that clearly convey architectural design ideas and concepts
5	HISTORY OF ARCHITECTURE AND CULTURE I	1201906 V[SS]	1201906 V[SS]- 1	CO1	To introduce and define the inception of architecture developments.
			1201906 V[SS]- 2	CO2	To discuss and compare the developments in ancient civilizations across the globe.
			1201906 V[SS]- 3	CO3	To classify and learn the details of architectural development in respect to various aspects of Indian tribal and nomadic architecture.
			1201906 V[SS]- 4	CO4	To study and analyse the cultural manifestation and evolution in architecture development.
			1201906 V[SS]- 5	CO5	To appraise the understandings about the temples, forts, step-wells, palaces in India.
			1201906 V[SS]- 6	CO6	To organize the analysis and create an integrated understanding for development and evolution of ancient civilizations and architecture developments, that can be useful to design considerations in the present scenario.
6	COMMUNICATION SKILLS	1201907 (SS)	1201907 -1	CO1	To identify, describe, and discuss methods to enhance the skills necessary for effective communication in architectural education and practice.
			1201907 -2	CO2	To reorganize and translate the various modes of communication along with their significance, and identify their importance.
			1201907 -3	CO3	To calculate the effectiveness of written communication while analyzing and building vocabulary related to architecture and design.
			1201907 -4	CO4	To combine verbal communication techniques with the nonverbal aspects.
			1201907 -5	CO5	To appraise the various forms of graphical communication and supporting their integration into the communication process.
			1201907 -6	CO6	To compose a comprehensive understanding of digital tools for communication, developing skills to design and prepare impactful communication materials.
			1201908 - 1	CO1	Recall the significance of model making in architecture and its role in exploring and representing the massing and form of buildings and spaces.
			1201908 - 2	CO2	Understand the importance of model making in the process and communication of architectural design.
			1201908 - 3	CO3	Apply various basic model making techniques and materials, such as paper, boards, foam board, and wood, to construct simple three-dimensional objects and building models.

7	WORKSHOP- I	1201908 [SS]	1201908 - 4	CO4	Analyse the relationship between different model making materials, tools, and techniques in architectural model construction, considering their limitations and advantages.
			1201908 - 5	CO5	Evaluate the advantages and limitations of different materials and techniques used in architectural model making, considering factors such as durability, aesthetics, and ease of manipulation.
			1201908 - 6	CO6	Create architectural models using both traditional and digital methods, demonstrating proficiency in expressing design ideas through physical and digital representations."

SR. NO.	SUBJECT NAME	COURSE CODE	CO CODE	COURSE OUTCOMES
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FIRST YEAR B. ARCH SEM II					
1	ARCHITECTURAL DESIGN I	1201909 [SV]	1201909 - 1	CO1	To discuss how various factors such as anthropometry, climate, form, and function influence design decisions.
			1201909 - 2	CO2	To explain the relationship between decision-making processes and the creation of meaningful architectural spaces.
			1201909 - 3	CO3	To examine different experiential qualities of space and their impact on user experience.
			1201909 - 4	CO4	To combine various decision-making factors to develop holistic design solutions.
			1201909 - 5	CO5	To estimate the impact of design decisions on the functionality and usability of architectural spaces.
			1201909 - 6	CO6	To create design proposals that reflect sensitivity to socio-cultural and geographical contexts.
2	BUILDING CONSTRUCTION AND MATERIALS II	1201910 [THEORY] & 1201911 [SV]	1201910 - 1	CO1	To discuss and understand importance of topic
			1201910 - 2	CO2	To describe the principles governing the components of structures with material specifications
			1201910 - 3	CO3	To examine the structural requirements for various elements based on load and span considerations
			1201910 - 4	CO4	To combine theoretical knowledge with practical application in designing structures.
			1201910 - 5	CO5	To assess the structural integrity of building elements in architectural designs.
			1201910 - 6	CO6	To create detailed drawings and specifications for various components of building.
3	THEORY OF STRUCTURES II	1201912 [THEORY]	1201912 - 1	CO1	To remember and recall key concepts and their significance.
			1201913 - 2	CO2	To understand and describe various terms, systems and their conditions.
			1201914 - 3	CO3	To apply methods for calculating relevant parameters.
			1201915 - 4	CO4	To analyze relationships and behavior under different conditions.
			1201916 - 5	CO5	To evaluate different mechanisms and principles.
			1201917 - 6	CO6	To create diagrams illustrating key points under various conditions.
4	ARCHITECTURAL GRAPHICS AND DRAWING II	1201913 [SS]	1201913 - 1	CO1	To remember basic architectural graphic symbols and conventions used in technical drawings and use various drawing instruments.
			1201913 - 2	CO2	To understand the purpose of different line types, scales, dimensions and annotations in architectural drawings.
			1201913 - 3	CO3	To apply understanding in basic architectural drawings, such as floor plans and elevations, using manual drawing tools.
			1201913 - 4	CO4	To analyse simple architectural drawings to identify spatial relationships and details.
			1201913 - 5	CO5	To Review and assess basic architectural drawings for accuracy and adherence to standard graphic language.
			1201913 - 6	CO6	To Produce architectural drawings and sketches that clearly convey architectural design ideas and concepts
5	HISTORY OF ARCHITECTURE AND CULTURE II	1201914 [SS]	1201914 [SS]-1	CO1	To describe and introduce students to principles of Islamic architecture.
			1201914 [SS]-2	CO2	To discuss and compare the developments in Early Islamic architecture and its evolution.
			1201914 [SS]-3	CO3	To classify and learn the details of architectural development focusing on form, technology, and ornamentation from Islamic, Mughal & urban architecture.
			1201914 [SS]-4	CO4	To study and analyse the cultural manifestation, focusing Post Mughal architecture.
			1201914 [SS]-5	CO5	To appraise the understandings about historical developments since 12th century AD.
			1201914 [SS]-6	CO6	To organize the analysis and create an integrated understanding for cultural manifestation, useful to design considerations in the present scenario.
			1201915 [SS]-1	CO1	To define the profession of architecture, outlining its unique attributes in comparison to other professions, trades, and businesses.
			1201915 [SS]-2	CO2	To explain and develop an understanding of the Fundamentals of architecture.

6	FUNDAMENTALS OF ARCHITECTURE	1201915 [SS]	1201915 [SS]- 3	CO3	To classify and illustrate the fundamentals of architecture into an architectural design and develop a plan to utilize these fundamentals effectively in architectural practice.
			1201915 [SS]- 4	CO4	To combine the factors influencing architectural design into a comprehensive framework and examine and compare how each factor contributes to the overall design process.
			1201915 [SS]- 5	CO5	To appraise the Concept of Shelter and qualify the various building typologies.
			1201915 [SS]- 6	CO6	To assemble learnings and prepare a comprehensive understanding of the importance and breadth of Fundamentals of Architecture, composing a detailed overview for students.
7	WORKSHOP II	1201916 [SS]	1201916 - 1	CO1	Recall the significance of model making in architecture and its role in exploring and representing the massing and form of buildings and spaces.
			1201916 - 2	CO2	Understand the importance of model making in the process and communication of architectural design.
			1201916 - 3	CO3	Apply various basic model making techniques and materials, such as paper, boards, foam board, and wood, to construct simple three-dimensional objects and building models.
			1201916 - 4	CO4	Analyse the relationship between different model making materials, tools, and techniques in architectural model construction, considering their limitations and advantages.
			1201916 - 5	CO5	Evaluate the advantages and limitations of different materials and techniques used in architectural model making, considering factors such as durability, aesthetics, and ease of manipulation.
			1201916 - 6	CO6	Create architectural models using both traditional and digital methods, demonstrating proficiency in expressing design ideas through physical and digital representations."



COURSE OUTCOMES FOR B.ARCH 2019 PATTERN

SR. NO.	SUBJECT NAME	COURSE CODE	CO CODE	COURSE OUTCOMES
SECOND YEAR B. ARCH SEM III				
1	Architectural Design II	2201917	2201917 - 1	CO1 To recall the key steps involved in iterative design, fostering a foundational understanding of the process. (Recall learnings from last year)
			2201917 - 2	CO2 To transform the progression from concept to construction, demonstrating the evolution of initial ideas into physical structures. (Vision board)
			2201917 - 3	CO3 To classify & analyse differences and similarities in architectural styles influenced by different materials & technologies (Case studies)
			2201917 - 4	CO4 To inspect & compare various possible outcomes of conceptual mood boards through digital simulation with specific set of materials & spaces
			2201917 - 5	CO5 To assess spatial characters of spaces for evoking emotions, fostering a deeper understanding of the relationship between design and human experience.
			2201917 - 6	CO6 To design a single family residence with appropriate materials and technology which stimulates innovation and practical application of sustainable and context-sensitive design principles.
2	Building Construction & Materials III[P] Building Construction & Materials III[SV]	2201918 2201919	2201919- 1	CO1 To recall fundamental concepts and terminologies relevant to architectural studies.
			2201919- 2	CO2 To understand and describe the principles and applications related to building and construction materials.
			2201919- 3	CO3 To apply knowledge of RCC construction techniques and materials to practical construction scenarios.
			2201919- 4	CO4 To analyse architectural designs and construction methods critically, considering technical and contextual factors.
			2201919- 5	CO5 To evaluate the effectiveness of different construction materials and methods in achieving structural integrity and quality.
			2201919- 6	CO6 To create innovative RCC construction plans and designs incorporating modern materials and techniques for enhanced performance and sustainability.
3	Theory of Structures III	2201920	2201920-1	CO1 To understand the fundamental concepts and behavior of fixed and continuous beams under various loading conditions
			2201920-2	CO2 To identify and analyze various loads on buildings, applying appropriate design methodologies to ensure structural integrity.
			2201920-3	CO3 To Understand the properties, applications, and design considerations for wood and concrete as structural materials.
			2201920-4	CO4 Apply design principles to effectively create reinforced concrete slabs, beams, and columns to meet structural and safety requirements.
			2201920-5	CO5 To Assess the design details based on solved examples for parameters as above are essential and sufficient for construction.
			2201920-6	CO6 To prepare detailed construction sketches and technical models
4	Computer Aided Drawing and Graphics	2201921	2201921- 1	CO1 To recall various architectural presentation techniques to effectively communicate design ideas
			2201921- 2	CO2 To understand the technique of Computer Aided Drawing to generate simple architectural drawings
			2201921- 3	CO3 To apply Computer Aided Drawing tools to produce architectural drawings, demonstrating technical proficiency
			2201921- 4	CO4 To discover various drafting and rendering styles to figure out their effectiveness in conveying architectural ideas
			2201921- 5	CO5 To evaluate architectural presentations and renderings based on their legibility and effectiveness in communication
			2201921- 6	CO6 To create unique presentation style to communicate design ideas
5	History of Arch & Culture III	2201922	2201922-1	CO1 To recall and comprehend the previous architectural developments in the world
			2201922-2	CO2 To understand the evolution of architecture, focusing on relationship of religion, social & cultural reforms, building materials & technology, and ornamentation
			2201922-3	CO3 To classify knowledge of historical precedents to analyze drivers of change, revival, and evolution of architecture
			2201922-4	CO4 To compare the interplay of cultural, socio- political movements and economic factors in shaping architectural developments
			2201922-5	CO5 To critique the significance of form, technology, and ornamentation in the evolution of architecture
			2201922-6	CO6 To create a studio outcome based on critical analysis of historical architectural trends to propose insights into future architectural directions.
			2201924- 1	CO1 To recall, discuss & define the fundamentals of the topic

			2201933- 6	CO6	To formulate strategic solutions for various building service systems & develop building service layouts of the same
4	Site Survey and Analysis [SS]	2201934 [SS]	2201934- 1	CO1	To recall and identify fundamental concepts and terminologies relevant to site survey and analysis in architecture.
			2201934- 2	CO2	To understand and explain the principles and techniques used in architectural site planning and survey
			2201934- 3	CO3	To apply knowledge of site survey methods and tools to practical architectural site planning scenarios
			2201934- 4	CO4	To analyze site conditions and survey data critically, considering various physical and contextual factors.
			2201934- 5	CO5	To evaluate the effectiveness of different site survey methods and planning strategies in achieving optimal site development.
			2201934- 6	CO6	To create innovative site plans and designs incorporating comprehensive survey data and analysis for enhanced site development and sustainability
5	Environmental Science	2201930 [SS]	2201930 - 1	CO1	To recall and articulate key concepts and principles learned in the Climatology course, through the study of natural resources
			2201930 - 2	CO2	To understand the concept of Eco Systems and Biodiversity with structure and functions, focussing on interrelatability of biogeochemical cycles; and to recognise the importance of Environmental Legislation and Social aspects of environment
			2201930 - 3	CO3	To develop skills in research and analysis to illustrate the issue of environmental pollution through causes, effects and control measures
			2201930 - 4	CO4	To analyze and assess the response of selected architects to environmental concerns through case studies of their buildings.
			2201930 - 5	CO5	To appraise their architectural design projects with respect to green green building rating system criteria
			2201930 - 6	CO6	To construct and encourage critical thinking and creative expression in the representation of architectural concepts and ideas.
6	History of Architecture and Culture IV	2201931 [SS]	2201931-1	CO1	To recall and comprehend the previous architectural developments in the world
			2201931-2	CO2	To understand the evolution of architecture, focusing on various social & cultural reforms, building materials & technology, and ornamentation
			2201931-3	CO3	To classify knowledge of historical precedents to analyze and interpret contemporary architecture worldwide
			2201931-4	CO4	To compare the interplay of cultural, socio- political movements and economic factors in shaping architectural developments
			2201931-5	CO5	To critique the significance of form, technology, and ornamentation in the evolution of architecture
			2201931-6	CO6	To create a studio outcome based on critical analysis of historical and contemporary architectural trends to propose insights into future architectural directions
7	Theory of Structures IV	2201929	2201929-1	CO1	To learn various methods and systems for supporting structural elements, focusing on their applications and implications.
			2201929-2	CO2	To apply theoretical concepts to practical problems, ensuring accurate and effective analysis and design of reinforced concrete beams
			2201929-3	CO3	To develop the ability to evaluate the integrity and safety of load bearing structures through systematic auditing techniques
			2201929-4	CO4	To develop basic understanding of steel structures, including their design principles, materials, and applications in construction.
			2201929-5	CO5	To learn the principles and methods for designing stanchions and girders to ensure structural stability and efficiency.
			2201929-6	CO6	To prepare detailed construction sketches and technical models



COURSE OUTCOMES FOR B.ARCH 2019 PATTERN

SR. NO.	SUBJECT NAME	COURSE CODE	CO CODE	COURSE OUTCOMES	
THIRD YEAR B. ARCH SEM V					
1	WORKING DRAWING I	3201943 (SS)	3201943-1	CO1	To define the meaning of working drawings as a construction document
			3201943-2	CO2	To identify all elements of a load bearing structure that are required in a working drawing
			3201943-3	CO3	To develop drawings for a load bearing structure including all general arrangement plans, sections, elevations and details
			3201943-4	CO4	To further devise a set of working drawings based on all the teachings, with correct graphical presentation of all the building components, along with correct annotations as per internationally accepted norms
			3201943-5	CO5	To critique own set of drawings to iron out any errors and omissions
			3201943-6	CO6	To assemble and create a full and final set of working drawings for the project
2	BUILDING CONSTRUCTION & MATERIALS V	3201936(P) 3201937(SV)	3201937-1	CO1	To identify and discuss Concept of shallow and deep foundations with respect to basement construction, high rise buildings and different soil conditions and also application of retaining wall
			3201937-2	CO2	To discuss and interpret the purpose of basement structures, need of architectural facilitation
			3201937-3	CO3	To examine and analyse the application of RCC flooring systems with reference to RCC drawing
			3201937-4	CO4	To analyse the timber details and to sketch furniture related illustrations
			3201937-5	CO5	To perceive materials and technology of assembling interior elements like partitions, suspended ceiling, furniture units etc.
			3201937-6	CO6	To prepare detailed drawings of interior work and research report including market surveys
3	Building Services III	3201941 [P] & 3201942 [SS]	3201942 - 1	CO1	To recall, discuss & define the key elements of the topic
			3201942 - 2	CO2	To understand and describe components of ventilation systems
			3201942 - 3	CO3	To apply strategies and illustrate schematic designs for systems
			3201942 - 4	CO4	To analyse the effectiveness of various strategies and compare & assess the same
			3201942 - 5	CO5	To evaluate various systems based on efficiency
			3201942 - 6	CO6	To design ventilation systems, create layouts and propose solutions based on schematic calculations
4	Architectural Design IV	3201935 [SV]	13201935-1	CO1	To remember and recollect the knowledge of Architectural design.
			13201935-2	CO2	To discuss and understand importance of topic and context of the project.
			13201935-3	CO3	To develop and explain the logic involved in space planning, volumetric explorations and construction technologies and building materials & services.
			13201935-4	CO4	To analyze the case studies and inspect the parameters for Architectural design which includes interior design, selection of building materials & services, construction technology, landscape design.
			13201935-5	CO5	To evaluate the Architectural details based on analysed parameters through illustrations/sketches, pinups discussions
			13201935-6	CO6	To prepare detailed Architectural drawings and technical models
5	Theory of Structures V		3201938-1	CO1	To recollect and relate the knowledge of the topic, it's relevance and correlation with further topics
			3201938-2	CO2	To describe and understand the importance of the topic
			3201938-3	CO3	To Apprise and explain the logic involved in input data, design parameters and requirements of structures.
			3201938-4	CO4	To solve the examples and inspect the parameters like design input data, design parameters to meet the requirements, calculations and check the results.
			3201938-5	CO5	To Assess the design details based on solved examples for parameters as above are essential and sufficient for construction.
			3201938-6	CO6	To prepare detailed construction sketches and technical models

COURSE OUTCOMES FOR B.ARCH 2019 PATTERN

SR. NO.	SUBJECT NAME	COURSE CODE	CO CODE	COURSE OUTCOMES	
THIRD YEAR B. ARCH SEM VI					
1	WORKING DRAWING II	3201952 (SS)	3201952-1	CO1	To recall the teachings about working drawings as a construction document
			3201952-2	CO2	To identify all elements of an RCC framed structure that are required in a working drawing
			3201952-3	CO3	To develop drawings for an RCC framed structure including all general arrangement plans, sections, elevations and details
			3201952-4	CO4	To further devise a set of working drawings based on all the teachings, with correct graphical presentation of all the building components, along with correct annotations as per internationally accepted norms
			3201952-5	CO5	To critique own set of drawings to iron out any errors and omissions
			3201952-6	CO6	To assemble and create a full and final set of working drawings for the project
2	BUILDING CONSTRUCTION & MATERIALS VI	3201946 (SV)	3201946-1	CO1	To define and identify the concept and strategies of modular coordination, industrialized building construction along with precast technology and issues and construction of earthquake resistant frame structures.
			3201946-2	CO2	To introduce the design potential of steel as a material in building construction and it's inherent structural benefits.
			3201946-3	CO3	To analyse the application of steel structure
			3201946-4	CO4	To examine the innovative details and assembly of steel construction
			3201946-5	CO5	To assess the evaluated details with architectural and structural logic
			3201946-6	CO6	To prepare detailed drawings of steel construction
			3201951- 1	CO1	To recall and identify fundamental concepts and terminologies relevant to architectural building services and safety.

3	BUILDING SERVICES IV [P & SS]	3201950[P] & 3201951 [SS]	3201951- 2	CO2	To understand and explain the principles and applications related to building services, including fire safety and acoustics in architectural design.
			3201951- 3	CO3	To apply knowledge of building services and safety provisions in practical architectural design scenarios.
			3201951- 4	CO4	To analyze architectural designs and construction methods critically, considering technical and contextual factors related to building services and safety.
			3201951- 5	CO5	To evaluate the effectiveness of different building services and safety methods in achieving structural integrity and quality.
			3201951- 6	CO6	To create innovative architectural designs incorporating advanced building services and safety techniques for enhanced performance and sustainability.
			4	ELECTIVE II	3201949 [SS]
3201949 - 2	CO2	To explain how the selected elective relates to current trends and challenges in architecture			
3201949 - 3	CO3	To plan and develop solutions to practical problems informed by elective knowledge.			
3201949 - 4	CO4	To combine theoretical insights learned with practical applications in the selected elective field.			
3201949 - 5	CO5	To estimate the potential impact of elective knowledge on future architectural practice.			
3201949 - 6	CO6	To devise innovative solutions or design proposals informed by elective knowledge.			
5	RESEARCH IN ARCHITECTURE I	3201948 [SS]	3201948 - 1	CO1	To underline the significance of research in architecture and its importance in informing design decisions.
			3201948 - 2	CO2	To understand the process of research methodology in architecture and its application to solve design challenges.
			3201948 - 3	CO3	To develop a research proposal outlining a specific architectural research question, methodology, and ethical considerations.
			3201948 - 4	CO4	To examine the different methods of research used in architecture, such as surveys, observations, experiments, and secondary sources, and critique their strengths and limitations.
			3201948 - 5	CO5	To appraise the effectiveness of various research methodologies in addressing architectural research questions and recommend appropriate methods based on the research objectives.
			3201948 - 6	CO6	To design and organize a comprehensive research plan for investigating a particular architectural problem, preparing to produce original research outputs that contribute to the field.
6	Architectural Design V	3201944[SV]+3201945[P]	3201944 - 1	CO1	To remember and recollect the knowledge of Building services and Architectural design.
			3201944 - 2	CO2	To discuss and understand importance of topic and context of the project.
			3201944 - 3	CO3	To develop and explain the logic involved in space planning, volumetric explorations and construction technologies and building materials & services.
			3201944 - 4	CO4	To analyze the case studies and inspect the parameters for Architectural design which includes interior design, selection of building materials & services, construction technology, landscape design.
			3201944 - 5	CO5	To evaluate the Architectural details based on analysed parameters through illustrations/sketches, pinups discussions
			3201944 - 6	CO6	To prepare detailed Architectural drawings and technical models
7	Theory of Structures VI	3201947	3201947-1	CO1	To recollect and relate the knowledge of the topic, it's relevance and correlation with further topics
			3201947-2	CO2	To develop in students the feel for structural principles and their relates to building design
			3201947-3	CO3	To develop in students the mathematical logic that would enable him to design the structural system of RCC structures.
			3201947-4	CO4	To learn the principles and methods for designing steel structures to ensure structural stability and efficiency.
			3201947-5	CO5	To integrate theoretical knowledge with practical considerations to create efficient and effective designs for complex structural systems.
			3201947-6	CO6	To prepare detailed construction sketches and technical models



COURSE OUTCOMES FOR B.ARCH 2019 PATTERN

SR. NO.	SUBJECT NAME	COURSE CODE	CO CODE	COURSE OUTCOMES	
FOURTH YEAR B. ARCH SEM VII					
1	Architectural Design VI	4201953 (SV)	4201953-1	CO1	To describe challenges in multi-family residential development, recall complex architectural issues, and relate key concepts of urban context and site setting.
			4201953-2	CO2	To interpret socio-cultural aspects, restate economic considerations, and relate precedent studies in housing design.
			4201953-3	CO3	To evaluate site context, calculate suitable housing typologies, and utilize building materials and construction technologies for desired architectural forms and spaces.
			4201953-4	CO4	To survey and compare housing typologies, and assess the spatial implications of building services in housing design.
			4201953-5	CO5	To appraise aesthetics, estimate compliance, and judge the integration of sustainability and landscaping in housing designs.
			4201953-6	CO6	To design complex housing spaces, compose responsive building programs, and construct architectural narratives integrating considerations.
2	Advanced Building Construction & Services I	4201954 [SV]	4201954-1	CO1	To remember and recall the knowledge of the topic, its relevance, and its connections with other topics.
			4201954-2	CO2	To understand and interpret the significance of the topic.
			4201954-3	CO3	To apply and demonstrate the logic involved in planning, assembly, and execution.
			4201954-4	CO4	To analyze case studies and assess parameters such as design, on-site execution, ergonomics, assembly, anthropometry, ambience, and material selection.
			4201954-5	CO5	To evaluate construction details through illustrations and sketches based on analyzed parameters.
			4201954-6	CO6	To create detailed construction drawings and technical models.
3	Quantity Surveying and Specification Writing I	4201958 [THEORY]	4201958-1	CO1	To remember and recollect the knowledge of Building Materials and Technologies, services and working drawings
			4201958-2	CO2	To discuss and understand importance of quantitative and qualitative aspects of construction works in profession
			4201958-3	CO3	To develop understanding about logics of professional and standardized practices of contract documents
			4201958-4	CO4	To give exposure to standard methods of specification writing and quantity survey
			4201958-5	CO5	To perceive and reflect the shared knowledge by means of specification writing and quantity survey
			4201958-6	CO6	To prepare detailed estimate and specifications of a construction project
4	Professional Practice	4201959 [THEORY]	4201959-1	CO1	To remember and recollect the knowledge of the topic, its relevance and its correlation with further topics.
			4201959-2	CO2	to discuss and understand the importance of the topic.
			4201959-3	CO3	To develop sensitivity for civil and social issues, the avenues, ethics, and code of conduct involved in the architecture profession.
			4201959-4	CO4	To appraise the changing nature of architecture practice, by connecting with the firm.
			4201959-5	CO5	To perceive and reflect the learning through project presentations, peer reviews, and assessments covering all units.
			4201959-6	CO6	To develop team, organization, and branding strategies to set up own partnership firm.
5	URBAN STUDIES I	4201955 (SS)	4201955-1	CO1	To recall and summarize the observations regarding urban matters
			4201955-2	CO2	To discuss and understand importance of theories and applications related to urban environment
			4201955-3	CO3	To interpret and analyse the principles involved in case studies of urban developments
			4201955-4	CO4	To criticise the existing development and devise solutions/strategies/design of urban environment
			4201955-5	CO5	To recommend design solutions for urban environments
			4201955-6	CO6	To prepare detailed design drawings/proposals
6	ELECTIVE III	5201970 [SS]	5201970 - 1	CO1	To list the fundamental concepts and terminologies related to the chosen elective in architecture.
			5201971 - 2	CO2	To describe the theoretical and practical aspects of the selected subject, linking them to architectural practices.
			5201972 - 3	CO3	To illustrate key principles and techniques of the elective through hands-on workshops, fieldwork, or practical assignments.
			5201973 - 4	CO4	To examine and compare different approaches and methodologies relevant to the elective, identifying their strengths and weaknesses.
			5201974 - 5	CO5	To assess the outcomes of practical assignments or projects, such as field study reports, mapping, or measured drawings, in terms of their accuracy and relevance.
			5201975 - 6	CO6	To develop comprehensive documentation or presentations, such as video graphic documentation or computer-based assignments, showcasing the integration of theoretical knowledge and practical skills.

SR. NO.	SUBJECT NAME	COURSE CODE	CO CODE	COURSE OUTCOMES	
FOURTH YEAR B. ARCH SEM VIII					
1	Architectural Design VII	4201960 (SV)	4201960-1	CO1	To state and recall key urban elements from the observations and experiences of the urban environments.
			4201960-2	CO2	To describe and discuss the factors that influence urban design decisions and outcomes.
			4201960-3	CO3	To examine and interpret the study area using various layers of site context, traffic patterns, building materials, and regulatory frameworks
			4201960-4	CO4	To analyse site data to identify urban issues and opportunities related to various studied factors.
			4201960-5	CO5	To assess the tangible and intangible aspects of analyzed issues to formulate an appropriate vision statement, and guidelines appropriate for the study area.
			4201960-6	CO6	To assemble insights from the study to design effective and innovative urban interventions addressing complex issues.
2	ADVANCED BUILDING CONSTRUCTION AND SERVICES II	4201961 [SV]	4201961-1	CO1	To remember and recall the knowledge of the topic, its relevance, and its connections with other topics.
			4201961-2	CO2	To understand and interpret the significance of the topic.
			4201961-3	CO3	To apply and demonstrate the logic involved in planning, assembly, and execution.
			4201961-4	CO4	To analyze case studies and assess parameters such as design, on-site execution, ergonomics, assembly, anthropometry, ambience, and material selection.
			4201961-5	CO5	To evaluate construction details through illustrations and sketches based on analyzed parameters.
			4201961-6	CO6	To create detailed construction drawings and technical models.
			4201965-1	CO1	To remember and recollect the knowledge of Building Materials and Technologies, services and working drawings

3	QUANTITY SURVEYING & SPECIFICATION WRITING II	4201965 [THEORY]	4201965-2	CO2	To discuss and understand importance of quantitative and qualitative aspects of construction works in profession
			4201965-3	CO3	To develop understanding about logics of professional and standardized practices of contract documents
			4201965-4	CO4	To give exposure to standard methods of specification writing and quantity survey
			4201965-5	CO5	To percieve and reflect the shared knowledge by means of specification writing and quantity survey
			4201965-6	CO6	To prepare detailed estimate and specifications of a constuction project
			4	PROJECT MANAGEMENT	4201966 [THEORY]
4201966-2	CO2	to discuss and understand the importance of the topic.			
4201966-3	CO3	To develop the understanding for PMBOK.			
4201966-4	CO4	To appraise the various knowlegde areas involved in project management.			
4201966-5	CO5	To perceive and reflect the learning through project presentations, peer reviews, and assessments covering all units.			
4201966-6	CO6	To develop project management strategy through stakeholder identification and project charter.			
6	ELECTIVE IV	4201963 [SS]	4201963 - 1	CO1	To identify the essential concepts and terminology pertinent to the chosen elective in architecture.
			4201964 - 2	CO2	To explain the theoretical principles and practical applications of the selected elective topic and how they relate to architectural practices.
			4201965 - 3	CO3	To demonstrate the techniques and methods of the elective through practical activities such as workshops, fieldwork, or seminars.
			4201966 - 4	CO4	To investigate various methodologies and strategies within the elective, highlighting their advantages and limitations.
			4201967 - 5	CO5	To critique the effectiveness and precision of practical submissions, including field study reports, measured drawings, or digital assignments.
			4201968 - 6	CO6	To produce detailed documentation or presentations, such as photographic or video-based projects, that integrate theoretical insights with practical expertise.
7	ELECTIVE V	4201964 [SS]	4201964 - 1	CO1	To identify the essential concepts and terminology pertinent to the chosen elective in architecture.
			4201965 - 2	CO2	To interpret the theoretical underpinnings and practical uses of the selected elective topic, connecting them to architectural contexts.
			4201966 - 3	CO3	To execute the techniques and procedures of the elective through hands-on activities like workshops, field studies, or tutorials.
			4201967 - 4	CO4	To dissect various approaches and methods within the elective, emphasizing their benefits and drawbacks.
			4201968 - 5	CO5	To appraise the accuracy and effectiveness of practical assignments, including field reports, measured drawings, or computer-generated projects.
			4201969 - 6	CO6	To formulate comprehensive documentation or presentations, such as photographic or video projects, that blend theoretical knowledge with practical skills.



COURSE OUTCOMES FOR B.ARCH 2019 PATTERN

SR. NO.	SUBJECT NAME	COURSE CODE	CO CODE	COURSE OUTCOMES	
FIFTH YEAR B. ARCH SEM IX					
1	PRACTICAL TRAINING	5201967 [SV]	5201967 - 1	CO1	To define the roles and responsibilities within an architect's office and the fundamental principles of office management.
			5201968 - 2	CO2	To describe the processes involved in the design, execution, and management of architectural projects.
			5201969 - 3	CO3	To calculate the time and resources required for different phases of an architectural project under the guidance of a professional.
			5201970 - 4	CO4	To examine the workflow and collaboration dynamics in an architect's office, identifying key factors that influence project success.
			5201971 - 5	CO5	To assess the effectiveness of project management strategies used in architectural practices, based on periodic evaluations and reports.
			5201972 - 6	CO6	To develop a comprehensive report on the practical training experience, including detailed observations and recommendations for best practices in office management and project execution.

SR. NO.	SUBJECT NAME	COURSE CODE	CO CODE	COURSE OUTCOMES	
FIFTH YEAR B. ARCH SEM X					
1	Enterpreneurship Development	5201969		CO1	To discuss the concept of enterpreneurship, examples of enterprenrurs, mindset of an enterpreneur and its role in economic development
				CO2	To illustrate and discuss fundamentals of business management , finance and IPR
				CO3	To examine and analyse the changing face of eh Architectural practice and the scope of diversification into allied activities .
				CO4	To survey and access efficiency and productivity , market anlysis& risk assessment for developing a business plan
				CO5	To formulate and assess a business proposal as an enterpreneur
				CO6	To develop and manage the proposed business based on the financial, Uman resourse,and skill development required for the business

COURSE OUTCOMES FOR B.ARCH 2019 PATTERN

SR. NO.	SUBJECT NAME	COURSE CODE	CO CODE	COURSE OUTCOMES	
FIFTH YEAR B. ARCH SEM IX					
1	Architectural Design Project	5201968 [SV]	5201968 - 1	CO1	To identify, define,and explore differnt fileds for developing ideas for own architectural design project as aculmination of knowledge received for five years of the course.
			5201969 - 2	CO2	To organize research, literature, case study analysis done
			5201970 - 3	CO3	To plan for Architetrcural design project
			5201971 - 4	CO4	To modify design options and organization of spaces and device architectural design model
			5201972 - 5	CO5	To formulate final design option as appropriate design solution for the concerns related to Architectural Design Project
			5201973 - 6	CO6	To create a and developpe a holistic design for Architectural Design Project



COURSE OUTCOMES FOR M.ARCH- DESIGN & PROJECT MANAGEMENT- 2019 PATTERN

SR. NO.	COURSE NAME	COURSE CODE	CO CODE	COURSE OUTCOMES
FIRST YEAR M. ARCH DPM SEM I				
1	Project Budget Planning and Time Scheduling Studio	2019DPM101 (SV)	2019DPM101.1	Explain the concept of Project Management, Project lifecycle, PM Process groups and Knowledge areas as per PMBOK
			2019DPM101.2	Define the scope of work for any real estate project, from the perspective of the Promoter, PMC or Contractor of the project.
			2019DPM101.3	Determine the deliverables of the project, identify the activities involved and estimate their attributes such as duration, resources & cost.
			2019DPM101.4	Develop baseline schedule with resources, duration and cost, using Project Management tools such as MS Project.
			2019DPM101.5	Discuss Earned Value of a Project, based on the progress monitored during execution phase
2	Elective I	2019DPM102 (SS)	2019DPM102.1	Critically appraise the Design/Engineering and Construction details of a building project. .
			2019DPM102.2	Understand and identify the design and construction requirements to meet the functional performance requirement of a project.
3	Project Management I - PMBOK Framework	2019DPM103 (SS)	2019DPM103.1	Discuss the project management framework as applicable to real estate projects
			2019DPM103.2	Discuss project development lifecycle, process groups and knowledge areas for a project as per PMBOK 6th Edition.
			2019DPM103.3	Identify processes where management framework is required and Prepare documents/protocols for managing processes as per given template.
			2019DPM103.4	Understand the role of a project manager and the leadership of the organization in managing a project.
4	Advanced Building Construction Technology & Structure Systems	2019DPM104 (PP)	2019DPM104.1	Understand the Structural aspects and Construction aspects of a real estate project
			2019DPM104.2	Compare alternate structure systems and construction technology and justify their selection considering lifecycle impact.
			2019DPM104.3	Understand the coordination between building services and structure system and Infer its impact on the construction details
			2019DPM104.4	Discuss structural performance of buildings and compare the provisions of codes and standards for achieving it.
5	Functional Performance of Building Services	2019DPM105 (PP)	2019DPM105.1	Discuss the functional requirement of a building for its optimum performance.
			2019DPM105.2	Explain optimization of building services to meet the functional performance of buildings
			2019DPM105.3	Analyse and Compare alternate technologies for efficiency in performance of buildings
			2019DPM105.4	Compare the practices as prescribed in national/international codes & standards and Justify decisions taken to enhance functional performance
6	Softlab - Design Management & ERP	2019DPM106 (SS)	2019DPM106.1	Select a tool for management of design processes
			2019DPM106.2	Understand the concept of Building Information Modelling and its apply it for a project.
			2019DPM106.3	Develop Architectural Model of a Project using BIM tool such as Revit
			2019DPM106.4	Coordinate and review BIM models through use of tools such as Navisworks

SR. NO.	COURSE NAME	COURSE CODE	CO CODE	COURSE OUTCOMES
FIRST YEAR M. ARCH DPM SEM II				
1	Design & Engineering Integration Studio for Complex Projects	2019DPM201 (SV)	2019DPM201.1	Discuss the Pre-construction Processes and their management, for a large scale real estate project
			2019DPM201.2	Appraise the integration of design aspects and engineering aspects of a large scale real estate project
			2019DPM201.3	Realize the importance of stakeholder integration and Develop communication protocols for stakeholders involved in designing and engineering of a large scale real estate project
			2019DPM201.4	Discuss the value of sustainability and energy efficiency in a project, Identify and Support project specific requirements through relevant codes and standards
			2019DPM201.5	Select appropriate techniques for evaluating/assessing scenarios during entire project lifecycle
			2019DPM201.6	Identify risks and evaluate their impact during the Pre-Construction Processes
2	Elective II	2019DPM202 (SS)	2019DPM202.1	Discuss the concepts, technological developments and latest trends in the Building Engineering related elective topic selected by the students.
			2019DPM202.2	Identify and summarize codes and standards relevant to the elected topic
			2019DPM202.3	Express opinion on the elected topic regarding its importance, relevance, applicability and implementation for any real estate project.



3	Project Management II - PMBOK Framework	2019DPM203 (SS)	2019DPM203.1	Discuss the knowledge area related to Procurement Management, Stakeholder Engagement and Project Governance as per PMI's PMBOK
			2019DPM203.2	Compare and Select appropriate project development lifecycle for a real estate project.
			2019DPM203.3	Understand the Ethical and Professional responsibility of a Manager in Governing Projects
4	Project Procurement Management	2019DPM204 (PP)	2019DPM204.1	Understand project procurement routes for different project delivery systems that are applicable to real estate projects
			2019DPM204.2	Understand contracts for procurement of professional services (Consulting, Construction contracting, Manufacturing/supplying etc.) for real estate projects
			2019DPM204.3	Understand material management of a project and propose strategies for purchasing materials and managing inventory.
5	Research-I	2019DPM205 (PP)	2019DPM205.1	Define types of research and develop research proposal to address the gap in existing research in a domain related to AEC sector
			2019DPM205.2	Formulate methodology relevant to a proposed research.
			2019DPM205.3	Identify relevant and reliable secondary data source and Analyse the collected data.
			2019DPM205.4	Design surveys/studies to collect primary data and analyse the collected data
			2019DPM205.5	Compile the research and findings in a format that complies with academic research standards.
6	Softlab II- Building Simulation	2019DPM206 (SS)	2019DPM206.1	Understand the significance of software application/tools in simulating the Evacuation process under fire event, Visual performance and Thermal Performance of a Project.
			2019DPM206.2	Analyze the simulation result and Propose appropriate strategies to enhance the design and engineering of an project
			2019DPM206.3	Identify relevant codes and standards to support the simulation based design alternatives



COURSE OUTCOMES FOR M.ARCH- DESIGN & PROJECT MANAGEMENT- 2019 PATTERN

SR. NO.	COURSE NAME	COURSE CODE	CO CODE	COURSE OUTCOMES
SECOND YEAR M. ARCH DPM SEM III				
1	Project cost & contract Management Studio	2019DPM301 (SV)	2019DPM301.1	Formulate specification and Analyse rate for items of work to be carried out under a contract.
			2019DPM301.2	Select appropriate estimation type for costing of a real estate/infrastructure project given the stage of project lifecycle
			2019DPM301.3	Appraise and enhance cost performance of a project during its preconstruction and construction phase
			2019DPM301.4	Select appropriate contract type, formulate contract clauses considering the strategies of promoting organization and project specific requirements
			2019DPM301.5	Distinguish the laws and regulations to be abided by any organization involved in developing realestate projects
			2019DPM301.6	Analyse the impact of statutory clearances & approvals on project timelines.
2	Research II	2019DPM302 (SS)	2019DPM302.1	Frame research on a topic in the field of Design & Project Management
			2019DPM302.2	Demonstrate the ability to choose methods appropriate to research aims and objectives
			2019DPM302.3	Design research plan and questionnaire for their research work.
			2019DPM302.4	Evaluate the various methods of sampling and data collection
			2019DPM302.5	Develop skills in qualitative and quantitative data analysis and presentation
			2019DPM302.6	Compile the research results in the form of report.
3	Design and Project Management Framework and Practical Training	2019DPM303 (SV)	2019DPM303.1	Understand the complexities involved in developing large scale real estate project
			2019DPM303.2	Demonstrate leadership and teamwork in managing projects
			2019DPM303.3	Identify Project Management Processes and compare them with PMI's PMBOK & RIBA's POW
			2019DPM303.4	Define activities undertaken during each of Design Management Stages
4	Project Financial Management & Risk Management	2019DPM304 (PP)	2019DPM304.1	Understand financial ratios, financial statements and terminologies used for Real estate projects
			2019DPM304.2	Appraise projects based on financial projections within given discounting parameters
			2019DPM304.3	Justify project prioritization based on financial projections
			2019DPM304.4	Compare investment options for availing finance for a project
			2019DPM304.5	Identify risks involved in sourcing finance and Assess mitigation measures
5	Quality Management & Health Safety & Environment (HSE) Management	2019DPM305 (PP)	2019DPM305.1	Understand the concepts of Quality Management for a Real Estate Project
			2019DPM305.2	Relate the theoretical learnings with practical scenarios of quality failures, Analyse their underlying cause applying the QM tools
			2019DPM305.3	Identify and Apply the standard framework such as ISO 9001:2015, suitable for assuring and controlling quality of products and processes
			2019DPM305.4	Understand the concepts of Health, Safety and Environment Management for a Real Estate Project
			2019DPM305.5	Compare the provision of Safety frameworks/standards/guidelines with practical scenarios to provide critique on Safety failures
			2019DPM305.6	Identify and Measure potential issues in attaining safety standards established for the project
6	Softlab III-Project Management & ERP	2019DPM306 (SS)	2019DPM306.1	Identify Software/tools for enhancing management of any organizational processes
			2019DPM306.2	Discuss construction project specific process modules that can be planned and coordinated with Enterprise Resource Planning (ERP) Tools
			2019DPM306.3	Describe the need of data management for a real estate design/dvelopment firm and demonstrate data visualization skills
SECOND YEAR M. ARCH DPM SEM IV				
1	Project	401 (SV)	401.1	Identify gaps in research and/or Identify need for reseaching a domain of interest through assessment of existing research or current practices
			401.2	Develop structure of research and propose methodology
			401.3	Collect Data and Analyse data relevant to the research undertaken
			401.4	Compose research work as per the standards of academic research publications
			401.5	Design proosals for meeting existing gaps or enhancing current practices based on academic research
2	Elective III - Industry Based	402 (SV)	402.1	Understand the processes undertaken by organizations in AEC sector
			402.2	Discuss the Industrial Process that was elected for study.



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**

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.