MVPS's College of Architecture

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Criterion 2 – Teaching Learning & Evaluation

2.6 – Student Performance & Learning Outcome

2.6.1

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Criterion 2 – Teaching- Learning and Evaluation

Key Indicator – 2.6 Student Performance and learning Outcome (60)

2.6.1 Teachers and students are aware of the stated program and Course Outcomes of the programs offered by the institution.

Sr. No.	Contents (Documents)
1	Course Outcomes 2015 Patterns
2	Course Outcomes 2019 Patterns
3	Course Structure B.Arch SPPU (Savitribai Phule Pune University)

MARATHA VIDYA PRASARAK SAMAJ'S College of Architecture Nashik

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2.6.1

Teachers and students are aware of the stated Programs and course outcomes of the Programs offered by the institution. (15)

1) Course Outcomes 2015 Pattern

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COURSE OUTCOMES FOR B. ARCH. 2015 PATTERN

Course Objectives as mentioned in syllabus of 2015 Pattern are referred and combined with Bloom's Taxonomy for learning.

SR. NO.	SUBJECT NAME	COURSE CODE	CO CODE		COURSE OUTCOMES
FIRST YEAR B.ARCH - SEM I					
1	Design I	1201501 (SV)	1201501.1	CO 1	The students should be able to relate the fundamentals and principles of basic design to architectural design.
			1201501.2	CO 2	The students should understand the basic design fundamentals, form, space, context and anthropometry to comprehend Design as a creative process of choice making and statement of intent.
			1201501.3	CO 3	The students should be able to apply the fundamentals and principles of basic design into architectural design by experimenting with the multisensory aspects of space.
			1201501.4	CO 4	The students should be able to analyse the various fundamentals, principles of basic design and spatial relationships.
			1201501.5	CO 5	The students should be able to critically appraise the application of basic design principles and attributes of form that influence human spatial experiences.
			1201501.6	CO 6	The students should be able to create their own explorations, and spatial design demonstrating the application of elements and principles of basic design, form and space, space layout, context and anthropometry
2	Building Technology & Materials I	1201502 (SV), 1201503 (PP)	1201502.1	CO 1	The Student should be able to define various elements of building from foundation to roof in load bearing construction.
			1201502.2	CO 2	Student should be able to explain principles of load bearing construction and to classify various building materials which are commonly used in load bearing construction.
			1201502.3	CO 3	Student should be able to examine and identify various aspects to be considered in formation of sub-structure in load bearing structure.
			1201502.4	CO 4	Students should be able to classify different types of masonry used in load bearing construction.

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			1201502.5	CO 5	Student should be able to explain different types of finishes techniques used in load bearing construction.
			1201502.6	CO 6	Student should be able to assess different measures should be taken care of while constructing load bearing structure in earthquake prone area
3	Theory of Structures I	1201504 (PP)	1201504.1	CO 1	Recalling the Applied Mechanics basics concepts and Theory of Structures and their significance
			1201504.2	CO 2	Understand & summarize the detailed technics and relate them in numerical
			1201504.3	CO 3	Application of the knowledge in numerical so students will experiment on it , which help them at the time planning
			1201504.5	CO 5	Determine the answer by using CO2 or by putting various values
4	Arch Drawing & Graphics I	1201505 (SS)	1201505.1	CO 1	Students will be shown various architectural drawing techniques which can be used to express simple 3D objects and building components.
			1201505.2	CO 2	Various techniques of graphical recording and communication will be demonstrated to help students illustrate using various graphical projection systems
			1201505.3	CO 3	Students will be able to construct simple 3D objects and building components by making use of various drawing techniques
			1201505.4	CO 4	Students will be motivated to use the various drawing techniques to study, record and communicate objects, building and building components.
			1201505.5	CO 5	The course should prepare the students to construct their own set of architectural drawings explaining their design. An important tool to design and execute their projects
			1201505.6	CO 6	Students will combine their knowledge of various graphical techniques and sketching to present their ideas for developing, discussing and building their design.
5	Humanities	1201506 (SS)	1201506.1	CO 1	To know the Significance of Humanities in the field of Architecture and also to understand the development of Literature from Prehistoric period
			1201506.2	CO 2	To understand the fundamentals of Formation of societies from Prehistoric period to modern times
			1201506.3	CO 3	To understand the origin of music - singing, dancing and the development
			1201506.4	CO 4	To understand the fundamentals of Formation of societies from Prehistoric period to modern times

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			1201506.5	CO 5	Elements of Appreciating a building
			1201506.6	CO 6	To compile and work on final presentation of assignments
6	Introduction to Architecture	1201507	1201507.1	CO 1	Students will be able to relate to the various roles an architect has to play simultaneously and define the nature of Architecture.
			1201507.2	CO 2	Students will understand the scope of Architecture as one is interpreting its evolution through time to explain the definition of architecture.
			1201507.3	CO 3	Students will be able to identify various fundamentals of Architecture and develop awareness about their manifestation in Architecture.
			1201507.4	CO 4	Students will be able to decode the Generators of Architectural Design and inspect their relationship with each other and illustrate it graphically.
			1201507.5	CO 5	Students will be able to assess the aesthetic and functional components of Architecture and conduct an appraisal of the same.
			1201507.6	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.
7	Workshop I	1201508	1201508.1	CO 1	The students should be able to understand the use and handling process of tools with safety through experimentation.
			1201508.2	CO 2	The students should be able to identify and recognize the various feature and properties of the Art materials. And experiment on same.
			1201508.3	CO 3	The students should be able to identify the correct material and develop some small 3D models as per their 2D sketches.
			1201508.4	CO 4	The students should be able to identify and recognize the various features of the paper material and develop some designs as per creative ideas.
			1201508.5	CO 5	The students should be able to understand Geometry to Architecture collision where ideas and art meet.
			1201508.6	CO 6	The students should be able to understand and identify correct material as per requirement which are suitable for making different type of elements.

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FIRST YEAR B.ARCH - SEM II					
7	Design II	1201509 (SV)	1201509.1	CO 1	The students should be able to recognize activity, context and spatial relationships, choose from various design alternative processes and various techniques to improve creativity.
			1201509.2	CO 2	The students should comprehend activity, context and spatial relationships, various design alternative processes and various techniques to improve creativity.
			1201509.3	CO 3	The students should be able to apply various design alternative processes and various techniques to improve their creativity to develop architectural design.
			1201509.4	CO 4	The students should be able to examine, correlate and illustrate activity, and context and spatial relationships to develop architectural design and practice various design alternative processes and various techniques to improve creativity.
			1201509.5	CO 5	The students should be able to inculcate an analytical thinking about activity, context and spatial relationships of built spaces, its built elements, open spaces and associated architectural character.
			1201509.6	CO 6	The students are trained to design their own spatial/building design project demonstrating its built elements, open spaces and associated architectural character.
8	Building Technology & Materials II	1201510 (SV)	1201510.1	CO 1	Students should be able to explain Construction of reinforced masonry walls, pillars and lintels.
			1201510.2	CO 2	Students should be able to define building materials like bamboo, timber, timber derivatives, roofing materials for small span sloping roofs including Mangalore tiles with reference to their characteristics, market forms, applications and preservation, etc.
			1201510.3	CO 3	Student should be able to classify various types of timber Doors, Windows and Carpentry tools used for it.
			1201510.4	CO 4	Students should be able to examine Single and double floor construction.
			1201510.5	CO 5	Student should be able to identify Timber stairs and construction of any one type of stairs.
			1201510.6	CO 6	Student should be able to assess various types of roofs, vaults and domes.

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9	Theory of Structures II	1201512 (P)	1201512.1	CO 1	Recalling the S.F.D and B.M.D
			1201512.2	CO 2	Understand & summarize the detailed technics of S.F.D and B.M.D and relate them in numericals
			1201512.3	CO 3	Application of the knowledge in numerical so students will experiment on it , which help them at the time planning
			1201512.5	CO 5	Determine the answer by using CO2 or by putting various values
10	Arch Drawing & Graphics II	1201513 (SS)	1201513.1	CO 1	Students will be shown various architectural drawing techniques which can be used to express simple 3D objects and building components.
			1201513.2	CO 2	Various techniques of graphical recording and communication will be demonstrated to help students illustrate using various graphical projection systems.
			1201513.3	CO 3	Students will be able to construct simple 3D objects and building components by making use of various drawing techniques
			1201513.4	CO 4	Students will be motivated to use the various drawing techniques to study, record and communicate objects, building and building components.
			1201513.5	CO 5	The course should prepare the students to construct their own set of architectural drawings explaining their design. An important tool to design and execute their projects.
			1201513.6	CO 6	Students will combine their knowledge of various graphical techniques and sketching to present their ideas for developing, discussing and building their design.
11	History of Architecture I	1201514 (SS)	1201514.1	CO 1	To understand the Basic Elements of Civilization
			1201514.2	CO 2	To understand the Geographical Setting, the society the beliefs and philosophy of this civilization, the lifestyle of people
			1201514.4	CO 4	To understand the Art forms, and Architecture of the civilization
			1201514.5	CO 5	To write, to analyses, to submit the assignments

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12	Climatology	1201515 (SS)	1201515.1	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.
			1201515.2	CO 2	The students should be able to understand climate as a determinant of architectural design and various climate responsive building design criteria.
			1201515.3	CO 3	The students should be able to apply climate responsive building design for various climates and microclimatic site conditions.
			1201515.4	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.
			1201515.5	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.
			1201515.6	CO 6	The students should be able to propose climate responsive design solutions to integrate with their architectural design projects.
13	Workshop II	1201516 (SS)	1201516.1	CO 1	The students should be able to understand the use and handling process of tools with safety through experimentation.
			1201516.2	CO 2	The students should be able to identify and recognize the various feature and properties of the Art materials and experiment on the same.
			1201516.3	CO 3	The students should be able to identify the correct material and develop some small 3D models as per their 2D sketches.
			1201516.4	CO 4	Understanding & applying software skills and implement their ideas into making 3D models.
			1201516.5	CO 5	The students should be able to understand the various type of material and their feature, limitation and properties. Experiment on same.
			1201516.6	CO 6	The students should be able to understand Geometry to Architecture collision where ideas and art meet.

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SECOND YEAR B.ARCH - SEM III					
14	Design III	2201517 (SV)	2201517.1	CO 1	To identify and recognize the various features of the architectural styles which emerged in the 19th and 20th century.
			2201517.2	CO 2	To understand the architecture and the architectural discourse in the 19th and 20th centuries and the various factors like industrialization, modernity, wars, global local concerns etc. that shaped it.
			2201517.3	CO 3	The course intends to relate the architecture as a product of its times especially with reference to the salient socio –political, cultural, economic and technological markers of the nineteenth century.
			2201517.4	CO 4	The course intends to examine, co relate and illustrate the different stands of architectural practice and works that developed as a result of the plurality of approaches taken by different architects in the 19th and 20th centuries.
			2201517.5	CO 5	The course should inculcate an analytical thinking about architecture and appraise various theoretical positions.
			2201517.6	CO 6	The course should train the students to develop their own thoughts and theories and invent their own architectural paradigms.
14	Building Technology & Materials III	2201518 (SV), 2201519 (PP)	2201518.1	CO 1	Students will be able to relate various Structural RCC Components such as Plinth and Ground Beams, Foundation and materials such as Concrete, Flooring, Roofing etc.
			2201518.2	CO 2	The students will be able to understand the various Prerequisites and Designing of RCC Structural components and types of materials such as concrete, flooring, roofing, door types depending upon various factors such as Soil, loading and materials.
			2201518.3	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, flooring, roofing, doors etc.
			2201518.4	CO 4	Students should be able to examine and compare various building materials used in RCC Construction such as steel, concrete types, Damp proofing materials etc.
			2201518.5	CO 5	Student should be able to interpret and evaluate various construction technologies as per site situations.

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			2201518.6	CO 6	Student will be able to adapt appropriate construction and working details for a RCC building component upto plinth level and finishing components such as flooring, roofing, escalators, fencing, gates etc.
15	Theory of Structures III	2201520(PP)	2201520.1	CO 1	Recalling the Euler's and Rankine's Theory for Buckling and Crushing Failure in Columns
			2201520.2	CO 2	Understand Fixed Beam as a statically in-determinate structure & summarize the detailed techniques 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
16	Building Services I	2201924 (SS), 2201925 (PP)	2201924.1	CO 1	To learn and relate the basics of Building Services- water supply, systems of drainage in building and Garbage disposal for an existing Architectural Project.
			2201924.2	CO 2	The course intends to explain and classify the working of the systems of cold and hot water supply and sanitation.
			2201924.3	CO 3	The course intends to inculcate in students the integration of building services in Architectural Design for low, medium and high rise buildings
			2201924.4	CO 4	The course intends to correlate and compare the different options available for water supply, waste disposal, rainwater harvesting lighting and electrification, alternative energy sources and existing examples of built structures.
			2201924.5	CO 5	The course intends to enable students to determine the appropriate method building services in architectural design.
			2201924.6	CO 6	The course should train the students to design and adapt the building services for efficient architectural design proposal.
17	History of Architecture II	2201523 (SS)	2201523.1	CO 1	The student should be able to relate the linkages between architecture and the socio- cultural, political and economic context of the period.
			2201523.2	CO 2	The students should be able to understand a distinct architectural setup and features of various periods.
			2201523.4	CO 4	The student should be able to understand the relationship of the complex factors that condition the built environment through design analysis, theory and history

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			2201523.5	CO 5	The student should be able to determine and decide the style of structure from the spatial, structural and decorative elements.
18	Arch Drawing & Graphics III	2201524	2201524.1	CO 1	Students learn to develop previous technical drafting skills with simple three dimensional objects and building components through Technical Drawings.
			2201524.2	CO 2	The students shall be able to understand principles of perspective drawings & principles of sciography sketching & CAD by technical methods.
			2201524.3	CO 3	To produce architectural objects by applying method of exterior and interior perspective & sciography drawings, & CAD illustration software programs.
			2201524.4	CO 4	The students will develop their imaginary skills by analyzing different drafting tools & technique.
			2201524.5	CO 5	Student should acquire graphic skills to present a building, analyze its elements and explain the composition.
			2201524.6	CO 6	Students shall able to construct conceptual & presentation drawings in all subjects.
19	Surveying & Levelling	2201525	2201525.1	CO 1	The students should be able to define the basic terminology of Surveying & Levelling; and relate its significance in Architectural Profession.
			2201525.2	CO 2	The students should be able to demonstrate various Surveying & Levelling activities; and interpret & illustrate the collected Data.
			2201525.3	CO 3	The students should be able to identify the correct ways of conducting the Surveying &/or Levelling operation, organizing for the same, and effectively make use of the Tools & Instruments.
			2201525.4	CO 4	The students should be able to inspect the important aspects & physical features of the Survey-Site, and list them down in a simplified Template for Survey purpose.
			2201525.5	CO 5	The students should be able to generate high precision Data to be able to generate acceptable quality illustrations (Drawings); and to be able to estimate correct quantities.
			2201525.6	CO 6	The students should be able to estimate quantum of required work by using the Survey Data & illustrations; and be able to develop & propose alternative solutions. To realize the scope of Surveying & Levelling as a career option.

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SECOND YEAR B.ARCH - SEM IV					
20	Design IV	2201526	2201526.1	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.
			2201526.2	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.
			2201526.3	CO 3	Students will be able to apply zoning, activity distribution, circulation and activity relationships to multiple layering of architectural space
			2201526.4	CO 4	Students will be able to analyze passive solar responses and fenestration design from settlement study to test them in their own designs
			2201526.5	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
			2201526.6	CO 6	The course should prepare the students to develop their own suitable design language for architectural design of multicellular, multiple level spaces by application of principles of functionality, climate, composition, and aesthetics.
21	Building Technology & Materials IV	2201527 (SV) & 2201528 (PP)	2201527.1	CO 1	Students will be able to relate various construction materials to construction systems, techniques and methodology with specific reference to R.C.C. Construction
			2201527.2	CO 2	The students should be able to understand the Concrete and Reinforcement detailing of various types of RCC Components.
			2201527.3	CO 3	Students should be able to choose the appropriate type of RCC Components such as types of slabs or staircases and types of finishes such as types of windows, elevators, escalators etc.
			2201527.4	CO 4	Students should be able to examine and compare various building materials used in RCC Construction such as Ferrocement, RMC, LWC, Waterproofing materials etc.
			2201527.5	CO 5	Student should be able to interpret and evaluate various construction technologies as per site situations such as Precast Concrete, Cast in situ.

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			2201527.6	CO 6	Student will be able to adapt appropriate construction details for a RCC building component above plinth and upto terrace level.
22	Theory of Structures IV	2201529 (PP)	2201529.1	CO 1	Recalling Wood by W.S Method, Introduction to I.S.883 Study of Wood as a Material. Different Grades Available
			2201529.2	CO 2	Understand Design of Wood & summarize the detailed technics and relate them in numerical
			2201529.3	CO 3	Application of the knowledge in numerical so students will experiment on it , which help them at the time planning
			2201529.5	CO 5	Determine the answer by using CO2 or by putting various values
23	Building Services II	2201530 (SS) & 2201531 (PP)	2201530.1	CO 1	To relate and define the basics of building services- waste disposal, rainwater harvesting, lighting and electrification, alternative energy sources
			2201530.2	CO 2	To understand and classify the working of the systems of waste disposal, lighting and electrification
			2201530.3	CO 3	The course intends to identify and integrate the Building Services in low, medium and high rise buildings.
			2201530.4	CO 4	The course intends to co relate and survey the different options available in the market for waste disposal, rainwater harvesting, lighting and electrification, alternative energy sources and existing examples of built structures.
			2201530.5	CO 5	The course should enable to decide the appropriate method for integration of building services in architectural design.
			2201530.6	CO 6	The course should train the students to design and adapt the building services for efficient architectural design proposal.
24	History of Architecture III	2201532 (SS)	2201532.1	CO 1	The student should be able to relate the linkages between architecture and the socio- cultural, political and economic context of the period.
			2201532.2	CO 2	The students should be able to understand a distinct architectural setup and features of various periods
			2201532.4	CO 4	The student should be able to understand the relationship of the complex factors that condition the built environment through design analysis, theory and history.
			2201532.5	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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25	Technical Communication	2201533 (SS)	2201533.1	CO 1	The students should be able to define the basics of Technical Communication; and relate its significance in Architectural Profession.
			2201533.2	CO 2	The students should be able to demonstrate (as required in the professional life) various skills like - Data Organizing, Translating it into different formats, writing technical descriptions, demonstrating Job-Readiness skills.
			2201533.3	CO 3	The students should be able to apply / utilize their acquired knowledge in a more professional manner & format in Technical-Job situations.
			2201533.4	CO 4	To be able to classify, categorize, compare, analyze, simplify, and correctly infer from the given Technical Data / Information.
			2201533.5	CO 5	To be able to present and defend / justify the opinions / conclusions in a professionally widely acceptable manner. To be able to explain / present & influence using the Soft Skills in inter-personal Technical Communication.
			2201533.6	CO 6	To be able to invent methods of compiling the vast information together in a way / format most suitable to the Purpose, by adapting various digital tools / software etc.
26	Working Drawing I	2201534 (SS)	2201534.1	CO 1	To know the basics of working drawing and check list of drawings
			2201534.2	CO 2	To understand various term used in working drawing along with graphical representation and annotations
			2201534.3	CO 3	To develop and apply graphical representation in working drawing.
			2201534.4	CO 4	To classify, analyze and compare various drawings and its co-relation with each other
			2201534.5	CO 5	To acquaint students with the methodology and sequence of various working drawings and its importance in professional practice
			2201534.6	CO 6	To create a working drawing set of an architectural design

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THIRD YEAR B.ARCH - SEM V					
27	Design V	3201535 (SV)	3201535.1	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 to sustain campus by itself.
			3201535.2	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
			3201535.3	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.
			3201535.4	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.
			3201535.5	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
			3201535.6	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.
28	Building Technology & Materials V	3201536 (SV) & 3201537 (PP)	3201536.1	CO 1	The student is able to identify and relate different types of Interior elements, RCC flooring systems and long span structures.
			3201536.2	CO 2	The student is able to understand characteristics and properties of various Interior elements, RCC flooring systems and long span structures.
			3201536.3	CO 3	The student is able to make use of technology to develop different possibilities of assembling interior elements.
			3201536.4	CO 4	The student is able to survey, classify and examine different types of technology and materials suitable

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					for Interior elements, RCC flooring systems and Long span structures.
			3201536.5	CO 5	The student is able to inculcate an analytical thinking about selection and application of appropriate material and technology.
			3201536.6	CO 6	The student is able to propose an appropriate solution for a specific design requirement related to Interior elements, RCC flooring systems or Long span structures.
29	Theory of Structures V	3201538 (P)	3201538.1	CO 1	Recalling theory only on Support Systems and Reinforcement Detailing in the various Cases
			3201538.2	CO 2	Understand Design of Beams & summarize the detailed technics and relate them in numerical
			3201538.3	CO 3	Application of the knowledge in numerical so students will experiment on it , which help them at the time planning
			3201538.5	CO 5	Determine the answer by using CO2 or by putting various values
30	Landscape Architecture I	3201539 (SS)	3201539.1	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.
			3201539.2	CO 2	Students will understand various elements, principles of landscape architecture and relate to the necessity of being sensitized towards appropriate landscape practice on the basis of Historical references.
			3201539.3	CO 3	Students will be able to apply their knowledge in site planning and designing based on various landscape factors for achieving functional, aesthetic, environmental and Cultural goals.
			3201539.4	CO 4	Students will be able to discover, classify, and analyse 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.
			3201539.5	CO 5	Students will be able to build their interest in landscape architecture by appraising various works in the field and its scope.
			3201539.6	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.

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31	Building Services III	3201540 (SS) & 3201541 (PP)	3201540.1	CO 1	Learning about environmental factors which affect human thermal comfort
			3201540.2	CO 2	Understanding the importance of Natural Wind Forces in passive air conditioning of buildings
			3201540.3	CO 3	Understanding the strategies for utilizing wind for ventilation as per the building form & size
			3201540.4	CO 4	Classification & Analytical comparison of various ventilation systems
			3201540.5	CO 5	Selecting the proper type & size of fans as per the ventilation load calculations
			3201540.6	CO 6	Application of the knowledge of Natural ventilation in Design Project
32	History of Architecture IV	3201542 (SS)	3201542.1	CO 1	The students should be able to identify and recognize the various features of the architectural styles which emerged in the 19th and 20th century.
			3201542.2	CO 2	The students should be able to understand the architecture and the architectural discourse in the 19th and 20th centuries and the various factors like industrialization, modernity, wars, global local concerns etc that shaped it.
			3201542.3	CO 3	The students should be able to relate to the architecture as a product of its times especially with reference to the salient socio –political, cultural, economic and technological markers of the nineteenth century.
			3201542.4	CO 4	The students should be able to examine, co-relate and illustrate the different stands of architectural practice and works that developed as a result of the plurality of approaches taken by different architects in the 19th and 20th centuries.
			3201542.5	CO 5	The students should be able to inculcate an analytical thinking about architecture and appraise various theoretical positions.
33	Working Drawing II	3201543 (SS)	3201543.1	CO 1	To know the basics of working drawing and check list of drawings
			3201543.2	CO 2	To understand various term used in working drawing along with graphical representation and annotations
			3201543.3	CO 3	To develop and apply graphical representation in working drawing.
			3201543.4	CO 4	To classify, analyze and compare various drawings and its co-relation with each other
			3201543.5	CO 5	To acquaint students with the methodology and sequence of various working drawings and its importance in professional practice
			3201543.6	CO 6	To create a working drawing set of an architectural design

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THIRD YEAR B.ARCH - SEM VI					
34	Design VI	3201544 (SV) & 3201545 (PP)	3201544.1	CO 1	Students will be able to define the concept of high rise buildings by stacking of different functions vertically./ Students will be able to define the concept of stand-alone building on a site
			3201544.2	CO 2	Students will understand various concerns such as coordinating various building services, vertical circulation, basement parking, and structural grids, disaster management design strategies/techniques, and universal design
			3201544.3	CO 3	Students will be able to apply their knowledge about various services such as water supply, lifts, drainage, garbage disposal, lighting, air conditioning along with technical understanding about structural grids and disaster management strategies etc.in vertically stacked high rise building by keeping function and aesthetic intact/student will be apply their knowledge of art-architecture history, contemporary art-architecture movements
			3201544.4	CO 4	Students will be able to study and analyze buildings in which vertical arrangements are desired with number of services and material and construction techniques. Student will able to analyze art-architecture history, contemporary art-architecture movements
			3201544.5	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
			3201544.6	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 service base, multi-functional, multi-cellular built environments.
35	Building Technology & Materials VI	3201546 (SV) & 3201547 (PP)	3201546.1	CO 1	The student is able to identify and define different type of building materials, earthquake resistant frame structures, retaining walls, modular co-ordination and steel structures.
			3201546.2	CO 2	The student is able to understand characteristics and properties of various building materials, earthquake resistant frame structures, retaining walls, modular co-ordination and steel structures.
			3201546.3	CO 3	The student is able to make use of technology to develop different possibilities for earthquake

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					resistant frame structures, retaining walls, modular co-ordination and steel structures.
			3201546.4	CO 4	The student is able to survey, classify and examine different types of technology and materials suitable for building construction.
			3201546.5	CO 5	The student is able to inculcate an analytical thinking about selection and application of appropriate material and technology.
			3201546.6	CO 6	The student is able to propose an appropriate solution for a specific design requirement related to earthquake resistant frame structures, retaining walls, modular co-ordination and steel structures.
36	Theory of Structures VI	3201548 (PP)	3201548.1	CO 1	Recalling the R.C.C Water Tanks and Portal frames: basics concepts and Theory of Structures and their significance
			3201548.2	CO 2	Understand R.C.C Cantilever Retaining Wall & summarize the detailed technics and relate them in numerical
			3201548.3	CO 3	Application of the knowledge of type Retaining Walls in numerical so students will experiment on it , which help them at the time planning
			3201548.5	CO 5	Determine the answer by using CO2 or by putting various values
37	Landscape Architecture II	3201549 (SS)	3201549.1	CO 1	Students will be able to define the role of Landscape architecture to address the environmental concern on basis of knowledge on various factors which are involved in varied landscape practices done by Master landscape architects all over the world.
			3201549.2	CO 2	Students will understand various elements, principles of landscape architecture and relate to the necessity of being sensitized towards environmental concerns and sustainable site planning.
			3201549.3	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.
			3201549.4	CO 4	Students will understand various elements, principles of landscape architecture and relate to the necessity of being sensitized towards environmental concerns and sustainable site planning.
			3201549.5	CO 5	Students will be able to build their interest in sustainable landscape practice by appraising various works in the field and its scope.

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			3201549.6	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 environmental concern.
38	Building Services IV	3201550 (SS) & 320151 (PP)	3201550.1	CO 1	Recalling the general science of Fire. Defining the causes of Fire generation & spread.
			3201550.2	CO 2	Understand & summarize the Active Design Strategies, NBC Regulations, Safety Codes
			3201550.3	CO 3	Application of the knowledge in Design Project or Indian Case study Report.
			3201550.4	CO 4	Analyzing of materials, products, & assemblies available in local as well as international markets.
			3201550.5	CO 5	Various types of Sound Reinforcing Technologies & their use for large Public Spaces like Stadiums, Assembly Halls etc.
			3201550.6	CO 6	Predict & propose Acoustical design solutions for a given Space by doing R T Calculations using Sabine's Formula
39	Contemporary Arch Seminar	3201552 (SS)	3201552.1	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.
			3201552.2	CO 2	The students should be able to interpret and establish a critical viewpoint about contemporary trends and approaches in architectural production.
			3201552.3	CO 3	The students should be able to identify and construct the relevance of the thought process about contemporary architecture in today's context.
			3201552.4	CO 4	The students should be able to inspect, infer and categorize the contemporary trends and approaches in terms of design.
			3201552.5	CO 5	The students should be able to conduct a critical inquiry into the contemporary thought process and interpret or deduct its relevance / validity in today's context.
40	Elective I	3201553 (SS)	3201553.1	CO 1	Students will work based on their previous knowledge / exposure for further exploration on the topic assigned to them.
			3201553.2	CO 2	Students will understand a particular field of specialization chosen in detail to clarify that field's concepts and application
			3201553.3	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.

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			3201553.4	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.
			3201553.5	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.
			3201553.6	CO 6	The course will train students to formulate and explore hands-on pilot projects in the particular field of specialization chosen to build their interest and understanding in that field

FOURTH YEAR B.ARCH - SEM VII					
41	Design VII	4201554 (SV)	4201554.1	CO 1	To understand Neighborhood planning, urban development & redevelopment, cluster design & community design.
			4201554.2	CO 2	To study Design orientation of advance & specialized buildings- environmental services, climate & acoustic system oriented buildings, their appropriate structural buildings & construction techniques.
			4201554.3	CO 3	Use of Development control rules like, density, zoning, FSI etc. redevelopment and urban conservation techniques.
			4201554.4	CO 4	Study of urban environment, complex building forms, positive and negative space relationship, Parking Provision, Precincts concept and pedestrian movement.
			4201554.5	CO 5	Leading the students to equip themselves, with Professional Competency and Capabilities to incorporate, detail out the plan, design & execute by using this acquired knowledge / know-how in all their future works / designs, of various Buildings as Professional Architects.
			4201554.6	CO 6	To understand various issues and aspects like sustainability, Earthquake proof construction, barrier free environment, Renewable energy, disaster management, redevelopment etc. and the integration of these aspects in architectural design process

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42	Advanced Building Technology and Services I	4201555	4201555.1	CO 1	To find out difference between regular and advanced construction techniques involved by recalling the previous knowledge.
			4201555.2	CO 2	Student should be able to understand and compare various construction techniques and services involved.
			4201555.3	CO 3	Student should be able to apply the acquired knowledge to solve the various issues related to advanced construction technology and services.
			4201555.4	CO 4	Student should be able to analyze data (materials, products) available locally and internationally through survey and market study.
			4201555.5	CO 5	The student should able to justify the method selected to solve the problem.
			4201555.6	CO 6	The student should be able to propose proper construction technique to improve the design.
43	Professional Practice I	4201556 (PP)	4201556.1	CO 1	The course will enable students to know the architectural practice in India and abroad
			4201556.2	CO 2	Students will understand the various factors, which differ in trade, business and types of profession.
			4201556.3	CO 3	Students will be able to apply the knowledge gained from studying different types of trading, businesses, and professions through groups discussing cases in class
			4201556.4	CO 4	Students will be able to analyze various case studies of offices from efficient planning and design perspective.
			4201556.5	CO 5	Students will have overall review of the profession and its office set up.
			4201556.6	CO 6	The course shall prepare the students to understand the profession of Architecture based on type of work, its rules and regulations and implementation of the same in practice.
44	Urban Studies I	4201557 (SS)	4201557.1	CO 1	The course will enable students to know the context of architectural project beyond site.
			4201557.2	CO 2	Students will understand the implications of various factors such as traffic-transportation, socio-economic, urban landscape etc. influencing the development of urban area.
			4201557.3	CO 3	Students will be able to apply the knowledge gained from studying urban planning principles in the form of assignments like sub-division of land.

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			4201557.4	CO 4	Students will be able to analyze various case studies of residential settlements and housing from urban planning and design perspective.
			4201557.5	CO 5	Students will be able to compare and evaluate different aspects of development of city planning process.
			4201557.6	CO 6	The course should prepare the students to design and make proposals for resolving the issues of complexities of the selected urban area.
45	Research in Architecture I	4201558 (SS)	4201558.1	CO 1	To know the Significance of Research in Architecture, To understand the composition of Articles & Literature Elements of Article in a magazine, To choose & Classify the information from the Research Papers, To learn the Methods of Research
			4201558.2	CO 2	To Organize & Compare the information from the Research Papers, To describe from the previous academic experience, the need for Research in Architecture
			4201558.4	CO 4	To compare & Classify the Research Methods, To classify & compare the Research content for the individual Topics, How to do analysis of the Research Findings, Application of Research methods
			4201558.5	CO 5	Examining, Simplifying, Deducting, & Deciding the important & relevant content for the Research topic
			4201558.6	CO 6	To Compile, Compose, & Formulate the Research Paper, To explain, Justify, Recommend, & Propose the findings of the individual Research
46	Quantity Surveying and Estimation I	4201559 (PP)	4201559.1	CO 1	The student should be able to define various terminologies, importance of subject and how it is useful in practice
			4201559.2	CO 2	Student should be able to explain various aspects of topic and relate it with market practice.
			4201559.3	CO 3	Student should be able to apply the acquired knowledge to solve the problem given.
			4201559.4	CO 4	Student should be able to compare various methods.
			4201559.5	CO 5	The student should able to explain the process.
47	Specification Writing I	4201560 (PP)	4201560.1	CO 1	To know the basic definition and concept of Specification writing
			4201560.2	CO 2	To understand various terms used in writing specifications
			4201560.3	CO 3	To develop skill of writing brief and detailed specification of item of work.

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			4201560.4	CO 4	To compare relationship between Specification writing and quantity surveying and estimation and working drawing etc.
			4201560.5	CO 5	To acquaint students with the methodology of writing specifications with reference to building trade, workmanship, performance of different item of work.
48	Elective II	4201561 (SS)	4201561.1	CO 1	Students will choose an area of interest based on their previous knowledge / exposure for further exploration.
			4201561.2	CO 2	Students will understand a particular field of specialization chosen in detail to clarify that field's concepts and application.
			4201561.3	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.
			4201561.4	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.
			4201561.5	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.
			4201561.6	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.

FOURTH YEAR B.ARCH - SEM VIII					
49	Design VIII	4201562 (SV)	4201562.1	CO 1	To know the basics and concept of architectural design in urban context
			4201562.2	CO 2	To understand different layers and Complexity addressing Issues of Character, Identity, Built form, Contextually, Advanced Services etc.
			4201562.3	CO 3	To apply the basic skillset and knowledge in architectural design project by addressing various issues, complexity of functions and aspects in urban context.
			4201562.4	CO 4	To compare and analyze relationship between various design elements and complexities of various function, aspects, issues with respect to design proposal in urban context
			4201562.5	CO 5	To acquaint students method of evaluation by overlapping of various aspects like character, socio-

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					economic context, traffic and transportation, environment etc... in urban context
			4201562.6	CO 6	To create Architectural design of multifunctional complex of buildings in an urban context.
50	Advanced Building Technology and Services II	4201563 (SV)	4201563.1	CO 1	To find out difference between regular and advanced construction techniques involved by recalling the previous knowledge.
			4201563.2	CO 2	Student should be able to understand and compare various construction techniques and services involved.
			4201563.3	CO 3	Student should be able to apply the acquired knowledge to solve the various issues related to advanced construction technology and services.
			4201563.4	CO 4	Student should be able to analyze data (materials, products) available locally and internationally through survey and market study.
			4201563.5	CO 5	The student should able to justify the method selected to solve the problem.
			4201563.6	CO 6	The student should be able to propose proper construction technique to improve the design.
51	Professional Practice II	4201564 (PP)	4201564.1	CO 1	The course will enable students to know the construction management
			4201564.2	CO 2	Students will understand the various factors, which differ in various types of tenders
			4201564.3	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
			4201564.4	CO 4	Students will be able to apply the knowledge gained from studying different types of Articles of Agreement and Conditions of Contract by conducting group discussions in the studio.
			4201564.5	CO 5	Students will know the importance and his role as a Valuer
			4201564.6	CO 6	The course should prepare the students to understand the profession of Architecture based on various services, duties and responsibilities to be played.
52	Urban Studies II	4201565 (SS)	4201565.1	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.
			4201565.2	CO 2	Students will differentiate between urban planning and urban design and understand the process of both disciplines for its wider applicability.

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			4201565.3	CO 3	Students will be able to apply the knowledge of urban design to conduct various surveys to identify urban issues.
			4201565.4	CO 4	The course will make students to analyze various the data collected through surveys for various urban issues.
			4201565.5	CO 5	Students will be able to compare and evaluate the data collected through surveys for resolving the urban issues identified
			4201565.6	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.
53	Research in Architecture II	4201566 (SS)	4201566.1	CO 1	How to conduct a Research focused on an issue related to the built environment
			4201566.2	CO 2	Data Assimilation
			4201566.3	CO 3	Preparation for the Field Survey. Organization of the Survey Questionnaire, Conducting the Survey on Field
			4201566.4	CO 4	To examine, simplify, & organize the information in the form of in the form of Maps, Graphs, & Pie Charts
			4201566.5	CO 5	Technical Report on an Architectural Research, To decide, to deduct, to prioritize the research content
			4201566.6	CO 6	To Explain to Discuss, to Conclude, to Present the final Research and Proposals in a specific format
54	Quantity Surveying and Estimation II	4201567 (PP)	4201567.1	CO 1	The student should be able to define various terminologies, importance of subject and how it is useful in practice
			4201567.2	CO 2	Student should be able to explain various aspects of topic and relate it with market practice.
			4201567.3	CO 3	Student should be able to apply the acquired knowledge to solve the problem given.
			4201567.4	CO 4	Student should be able to compare various methods.
			4201567.5	CO 5	The student should able to explain the process.
55	Specification Writing II	4201568 (PP)	4201568.1	CO 1	To know the basic definition and concept of Specification writing with respect to services.
			4201568.2	CO 2	To understand various term used in writing speciation in services
			4201568.3	CO 3	To develop skill of writing brief and detailed specification of item of work of services.

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			4201568.4	CO 4	To compare relationship between Specification writing and quantity surveying and estimation and working drawing with respect to services
			4201568.5	CO 5	To know the importance of specification of in contract documents and to acquaint students with methodology to write specification of services in building construction.
56	Elective III	4201569 (SS)	4201569.1	CO 1	Students will choose an area of interest based on their previous knowledge / exposure for further exploration.
			4201569.2	CO 2	Students will understand a particular allied field chosen in detail to clarify that field's concepts and application and its links with design as a faculty.
			4201569.3	CO 3	Students will be able to develop special skills in the particular allied field chosen in terms of application by exploring the recent developments in the field of architecture.
			4201569.4	CO 4	Students will be able to analyze various examples / case studies / practices in the particular allied field chosen and to compare the same with larger context of overall sphere of Architecture.
			4201569.5	CO 5	The course will prepare students to determine the importance as well as judge their interest in the particular allied field chosen to decide their further course of career.
			4201569.6	CO 6	The course will train students to explore projects in the particular allied field chosen to build their interest and understanding in that field.

FIFTH YEAR B.ARCH. - SEM IX					
57	Practical Training	5201570 (SV)	5201570.1	CO 1	The student is able to Define and find appropriate professional practice to undertake practical training under the guidance of experts / professionals.
			5201570.2	CO 2	The student is able to understand various aspect of professional practice under the guidance of architect registered under the council of architecture.
			5201570.3	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.
			5201570.4	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.

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			5201570.5	CO 5	The student is able to inculcate an analytical thinking about selection and application of appropriate material and technology.
			5201570.6	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	5201571 (SV)	5201572.1	CO 1	To remember and recollect the research done in 8 th semester and decide the architectural project
			5201572.2	CO 2	To shortlist and select suitable case studies , To prepare a questionnaire for doing the case studies
			5201572.3	CO 3	To define a concept based on any attribute related to the project to discuss the relevance of concepts for the Design
			5201572.4	CO 4	To assimilate in a systematic manner the findings of the case studies. To criticize and evaluate the case studies
			5201572.5	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
			5201572.6	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
59	Elective IV	5201572 (SS)	5201572.1	CO 1	Students will be shown and told the importance and relevance of Remote Sensing (RS) and GIS software in the field of urban and regional planning, town planning
			5201572.2	CO 2	Students will be explained through demonstration of software its use in smart city planning.
			5201572.3	CO 3	Students will experiment with the software and try to apply the commands to the given exercise
			5201572.4	CO 4	Students through exercises, will analyze a given urban pocket, by making use of the software
			5201572.5	CO 5	Students will measure and compare their findings with the ideal requirements of urban planning
			5201572.6	CO 6	An elaborate discussion on the applications of the software in disaster management plans, environmental impact assessment plans, etc.

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2.6.1

Teachers and students are aware of the stated Programs and course outcomes of the Programs offered by the institution. (15)

2) Course Outcomes 2019 Pattern

MVPS's College of Architecture

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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 Constructio n & 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.

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			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.
			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.

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			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.
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.

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 analyse 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	Arch Graphics & Drawing II	1201913 (SS)	1201913.1	CO 1	To learn techniques of expressing Composite three-Dimensional objects and buildings formed by additive 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.

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			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.
			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.

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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.
			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.

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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.
			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.

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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.
			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.

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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 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.

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			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.
			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.

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			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.
			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.

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THIRD YEAR B.ARCH - SEM V					
29	Architectural Design IV	3201935 (SV)	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.
			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
			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.

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			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
			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.

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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.
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

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			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.
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

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					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.
			3201948.6	CO 6	The course will facilitate to compose, write and formulate the synopsis for their pilot project.

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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

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2.6.1

Teachers and students are aware of the stated Programs and course outcomes of the Programs offered by the institution. (15)

3) 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

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

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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.