

PADMASHREE DR. D Y PATIL COLLEGE OF ARCHITECTURE

Sector No. 29, B/h. Akurdi Railway Station, Nigdi Pradhikaran, Akurdi, Puna - 411044

Program Outcome for B. Arch As per Savitribai Phule University of Pune, 2019 Pattern Syllabus AY 2023-24 Term I & II

Program Outcome (PO)

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

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11.00			URSE OUTCOME : FIRST YEAR
	Course	A.	Y. 2023-24 Term I (2019 Pattern)
Subject	Outcome No.	CO Code No.	Statement
	COI	BARCH901.1	Students will understand and craft designs using elements and principles of composition.
ы	CO2	BARCH901.2	Students will be able to relate human senses with different architectural aspects is materials, spaces.
BARCH901	CO3	BARCH901.3	Students will be able to understand various ideas, techniques to improve creativit and demonstrate it into design.
Basic Design 1201901 [SS]	CO4	BARCH901,4	Students will be able to relate and demonstrate elements and principles of design create architectural spaces.
	CO5	BARCH901.5	Students will be able to understand, relate and transform experience, memory, fantasy, reality, imagination in design.
	CO6	BARCH901.6	Students will be able to understand, relate and implement tangible and intangible aspects of surroundings in design.
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	COI	BARCH902.1	To develop a fundamental understanding of various building elements or components.
BARCH902 BCM-I	CO2	BARCH902.2	To develop a fundamental understanding of basic building materials and their properties
1201902 [PP] 1201903 [SV]	CO3	BARCH902.3	To develop a fundamental understanding of strip foundation in load bearing foundation.
	CO4	BARCH902.4	To develop a fundamental understanding of brick and stone masonary
	CO5	BARCH902.5	To develop a fundamental understanding of arch system and lintel
	1001	Two a section was a section	
	CO1	BARCH904.1	Students will learn about the various system of force and transferf of load.
	CO2	BARCH904.2	Students will be understanding various loads acting on a structure.
BARCH904 TOS-I	CO3	BARCH904.3	Students will learn about transfer of forces/load from roof to foundation and soil
1201904 [PP]	CO4	BARCH904.4	Students will learn the concept of CG & MI .
	CO5	BARCH904.5	Students will learn the different support and loading conditions .
	CO6	BARCH904.6	Students will be understanding behaviour of elements like walls subjected to tension, compression, shear and bending
	COI	BARCH905.1	To develop a fundamental understanding of graphic elements and scale.
BARCH905	CO2	BARCH905.2	To develop a fundamental understanding of technical drawing and its componen
AGD-I	CO3	BARCH905.3	To develop a fundamental understanding of plane 2d and 3d solid geometry
1201905 [SS]	CO4	BARCH905.4	To develop a fundamental understanding of projection system in drawing.
	CO5	BARCH905.5	To develop a fundamental understanding of scale drawing
	CO1	BARCH907.1	Students will learn about the various modes of communication and their significance.
BARCH907 Communication Skills 1201907 [SS]	CO2	BARCH907.2	Students will learn about the Written communication: Paraphrasing, Grammar an punctuation. Developing vocabulary pertaining to architecture and design throug reading. Introduction to technical writing and forms of writing in architecture discipline such as site visit report, letters, tour reports, appraisals, email etc
	CO3	BARCH907.3	Expressing ideas and concepts through words. Students will learn about the Verbal communication: Presenting an idea/ thought debate, group discussion. And Nonverbal aspects of communication such as body
	CO4	BARCH907.4	language, posture, stance etc. Students will learn about the Graphical communication: Analytical diagrams, inf graphics, flow charts, mind maps, posters, logo design.
	CO5	BARCH907.5	Students will learn about the Use of Digital tools for communication: Basics of Word based, numerical based software, and visual presentation techniques such a photography, videography etc.

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Ar. Avanti Gole	Ar. Dhananjay Chaudhari
IQAC Coordinator	Principal

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Subject	Course Outcome No.	CO Code No.	Y. 2023-24 Term II (2019 Pattern) Statement
	CO1	BARCH909,1	Students will be introduced to the study and analysis of small scale built spaces considering the aspects like anthropometry, climate, form, function, structure and materials.
	CO2	BARCH909.2	Students will design a single activity space by applying the knowledge of various design aspects through two and three dimensional hand drawings, sketches and models.
BARCH909 AD - I	CO3	BARCH909.3	Students will learn to comprehend and review the architecture, culture, history of various rural settlements.
1201909 [SV]	CO4	BARCH909.4	Students will examine the rural settlement with respect to lifestyle, climate, social structure, infrastructure, amenities and facilities through measurement drawings, models, interpretation, analysis and conclusion.
	CO5	BARCH909.5	Students will give a design proposal based on the issues addressed in the studied settlement.
	CO6	BARCH909.6	Students will develop hand drawn plans, sections, elevations, 3D views and mode of the project sited on the studied settlement.
	CO1	BARCH910.1	Students will understand Earthquake resistant Load bearing Building Techniques along with they gain knowledge about RCMW & domes walls construction.
BARCH910	CO2	BARCH910.2	The main outcome of this unit is to understand all about Timber & its derivatives along with understanding of varied roof streture and materials.
BCM-II 1201910 [PP] 1201911 [SV]	CO3	BARCH910,3	Single and Double Floor wooden construction for G+1 structures are to be learnt a part of this unit along with Timber staircase details.
	CO4	BARCH910.4	Students will gain knowledge about Timber Panelled Door, Flush Door & Caseme windows construction Techniques along with Joinary Details.
	COS	BARCH910.5	To understand Timber King Post and Queen Post Truss for Roof construction Techniques
	CO6	BARCH910.6	Wooden Partition. Wall Paneling for Interior application is to be understood along with joinery details.
	COI	BARCH912.1	Student will study S.E.D. and D.M.D. 450.
		BARCH912.2	Student will study S.F.D and B.M.D of Overhanging Beams Students will be Introduced to Plane Lattice Construction and structural actions in it's member
BARCH912	CO3	BARCH912 3	Student will study Applications of Frames and Trusses - Geometry, Assumptions and Effect of Horizontal and Vertical Forces on Frames.
TOS-II 1201912 [PP]	CO4	BARCH912.4	Student will study Effect of Force on Spanning Members -Theory of Simple Bending to create Moment of Resistance:
S 51	CO5		Student will study Effect of Force on Spanning Members -Shear Stress Distributio across different Section
			Student will study Effect of Force on Spanning Members - Maximum and Minimum Slope and Deflection for different cases
	CO7	BARCH912.7	Student will Understand and study the Failure of Compression Members
	CO1	BARCH913.1	Students will to understand and express composite three-Dimensional objects and buildings formed by additive and interpenetrated solids using various graphical projection systems including sections.
BARCH913	CO2	BARCH913.2	Students will learn one-point and two-point perspective of objects and buildings/ building components using various methods including grid method.
AGD-II 1201913 [SS]	СОЗ		Students will understand use of shades and shadows, and various architectural presentation and rendering techniques
	CO4	BARCH913.4	Students will learn surface Development of various three dimensional objects and orthographic projections of true shapes of sectional planes.
	CO5	BARCH913.5	Students will learn principles of Sciography (shades and shadows) for 3- Dimensional objects and buildings on plans, elevation, isometric and perspective.

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	COI	BARCH914.1	Students will learn about about the various types of Islamic architectural elements through library study.
	CO2	BARCH914.2	Students will understand new developments due to Islamic invasion and their effects on architecture. Understanding the effects of Islamic principles on Arch. Form.
BARCH914	CO3	BARCH914.3	Students will understand new construction techniques were brought through Islamic invasion and depict through sketches.
HOAC-II 1201914 [SS]	CO4	BARCH914.4	Understanding the various Indo-Islamic features and making sketches of them.
	CO5	BARCH914.5	Studying in groups about various monuments of Islamic architecture and presenting in the class.
	CO6	BARCH914.6	Drawing sketches of various types of arches, domes, squinches and minarets- studying in detail about the various elements and it's types.
	CO7	BARCH914.7	Studying about the various methods of dome construction and showing them on the sheets.
	COI	BARCH915.1	Introduction to the profession of Architecture and its distinguishing characteristics with respect to other professions.
	CO2	BARCH915.2	Scope of architecture as a discipline
BARCH915 FOA	CO3	BARCH915.3	Fundamentals of architecture -function, structure, culture and environment and the integration into the architectural form
1201915 [SS]	CO4	BARCH915.4	Factors affecting architectural design- site, context, function, circulation, structural system, materials, sustainability and aesthetics.
	CO5	BARCH915.5	Concept of Shelter and introduction to various building typologies and their design concerns
	CO6	BARCH915.6	Scope and significance of subjects in architectural curriculum.
	CO1	BARCH916.1	To introduce students to the Significance of Model making in Architecture in exploring and representing Massing, form of buildings and spaces. Introduction to various basic model making techniques and materials their relationship.
BARCH916 WS-II	CO2	BARCH916.2	To enable students to make Architectural and construction models using various materials. Introduction to the Model making of settlement study in a group.
1201916 [SS]	CO3	BARCH916.3	To enable students to make Construction models with various materials. Use of various materials in individual design models.
	CO4	BARCH916.4	To understand the 3D modeling and visualizing software "Sketchup".
	CO5	BARCH916.5	To understand the commands and applying them during model making in the software.
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	Ar. Avanti Gole		Ar. Dhananiny Chaudhari
IQAC Coordinator			Principal

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COURSE	OUTCOME:	SECONDY	LAK

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Subject	Outcome No.	CO Code No.	Statement
	CO1	BARCH917.1	Students will study existing bungalow projects for case studies.
	CO2	BARCH917.2	Students will design A dwelling for a single family or clusters of dwellings for multiple families with area 300 sq.m. to 500 sq.m.
BARCH917	CO3	BARCH917.3	Students will develop concepts, zoning, single line plans and block sections with block model wrt bungalow project
AD - 11	CO4	BARCH917.4	
2201917 [SV]	CO5	BARCH917.5	Students will develop design drawings under a time bound assignment Short term project
	CO6	BARCH917.6	Students will evolve their designs into fucntional and sensible plans with appropriately planned approaches, services, etc.
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	CO1	BARCH918.1	Students will gain theoretical knowledge of soil study, its relevance to foundation and different types of shallow foundations.
	CO2	BARCH918.2	Students will gain theoretical knowledge of different building materials related to RCC construction.
BARCH918	CO3	BARCH918.3	Students will learn the R.C.C structural details from footing to plinth level.
BCM-III 2201918 [PP] 2201919 [SV]	CO4	BARCH918.4	Students will learn the R.C.C structural details of one-way, two-way slabs with different end conditions, column beam-slab junction with details for toilet block, also lintel & weather-shed.
	CO5	BARCH918.5	Students will gain market as well as theoretical knowledge of non-timber windows with materials like Steel-framed, aluminum, UPVC and their construction details.
	CO6	BARCH918.6	Students will gain market as well as theoretical knowledge of different flooring & paving materials including the process of providing or laying the same on site.
3- 7-11			
	COI	BARCH920.1	Students will learn Loading on Buildings and Design Methodologies
	CO2	BARCH920.2	Students will study Wooden Structures
BARCH920 TOS-III	CO3	BARCH920.3	Students will study Concrete as a Material and theory of L.S.M:
2201920 [PP]	CO4	BARCH920.4	Students will learn Design of R.C.C Slabs for Small Spans (L.S.M for Flexure only
	CO5	BARCH920.5	Students will learn Design of Beams (L.S.M for Flexure and Shear)
	CO6	BARCH920.6	Students will learn Design of Short R.C.C. Columns
	CO1	BARCH921.1	Students will explore various mediums for architectural presentations in various drawing formats
BARCH921	CO2	BARCH921.2	Students will demonstrate presentation drawings for any Architectural design project - Plans, Elevations, Sections with internal and external perspective views.
CADG 2201921 [SS]	CO3	BARCH921.3	Students will implement basics of Computer Aided Drawing with basic commands for Drawing, sufficient to construct simple geometrical shapes and 3D objects.
2201521 [33]	CO4	BARCH921.4	Students assemble drawings using advance commands in CAD such as Setting Drawing parameters, Layer controls, Hatching, Model and paper space settings
	CO5	BARCH921.5	Students will demonstrate all commands of CAD by drafting single building from Semester II Design
TER DELL			
nacoutoure suppersons	CO1	BARCH923.1	To make students understand principle and technique of water supply.
BARCH923 BS-I	CO2	BARCH923.2	To make students understand of fitting of water appurtances.
2201923 [PP]	CO3	BARCH923.3	To make students understand hot water supply system in building.
2201924 [SS]	CO4	BARCH923.4	To make students understand various sanitary fittings.
	CO5	BARCH923.5	To make students understand rainwater drainage system and bio gas system.

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BARCH925	COI	BARCH925.1	Students will gain theoretical knowledge of Earth-Sun relation and context of what shapes climate, its elements and understanding climate at different scales ie, global, regional, macro and micro.
	CO2	BARCH925.2	Considerate will profession and the control of the
Climatology 2201925 [SS]	CO3	BARCH925.3	Students will learn different passive design strategies at various scales ie urban, building and building component scale
1201323 [33]	CO4	BARCH925.4	Students will learn the concept of Thermal Comfort in buildings
	CO5	BARCH925.5	Students will learn various tools like sun path, bioclimatic chart, site analysis matrix etc that are used to study sun movement, wind and comfort in buildings.
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	Ar. Avanti Gole		Ar. Dhananjay Chaudhari
IQAC Coordinator			Principal

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25(1)(1)	Sect	or No. 29, B/h. A	kurdi Railway Station, Nigdi Pradhikaran, Akurdi, Pune - 411044
		C	OURSE OUTCOME : SECOND YEAR
estate.	Course		A.Y. 2023-24 Term II (2019 Pattern)
Subject	Outcome No.	CO Code No.	Statement
	COI	BARCH926.1	Students will learn to design a project that introduces the concept of site planning with multiple built spaces with an area 1000 sq.m. to 1500 sq.m
	CO2	BARCH926.2	Students will learn to study a settlement considering history, demography, architectural characteristics, social and urban/rural issues and a proposal interms of design solution to address issues in the settlement.
BARCH926 AD - III	CO3	BARCH926.3	Students will design a project or eskee based in the settlement that students have studied.
2201926 [SV]	CO4	BARCH926.4	Students will develop concepts, zoning, single line plans and block sections with block model wrt site
	CO5	BARCH926.5	Students will evolve their designs into fucntional and sensible plans with appropriately planned approaches, services, etc. on site
	CO6	BARCH926.6	Students will buildout sections and elevations with 3d views from the finalsed plans
	COI	BARCH927.1	Students will learn theoretical knowledge of types of special concretes, to include lightweight concrete, ready-mixed concrete, ferrocement etc; study of its ingredients viz. along with storage of materials on site, understanding good quality material and field & lab tests involved.
	CO2	BARCH927.2	Students will learn theoretical knowledge of causes of dampness and reasons for damp- & water-proofing, Different methods or treatments of damp- & water-proofing brick on edge, rough Shahabad stone, bitumen sheets, plastic sheets, epoxy resins and metallic water proofing materials and other proprietary materials application of the above in construction for terraces, chhajja, toilet slabs etc.
BARCH927 BCM-IV 2201927 [PP]	CO3	BARCH927.3	Students will learn to draw R.C.C structural details for balcony slabs, canopies and Construction of various types of precast and in-situ RCC stairs, along with earthquake resistant features, reference of a RCC drawing
2201928 [SV]	CO4	BARCH927.4	Students will undestand elevators, escalators, conveyors – types, size, capacity, speed and Mechanical safety methods, provisions in civil work for installation of elevators and escalators
	CO5	BARCH927.5	Students will learn to draw Various types of sliding and folding doors and Construction of Bay Window
	CO6	BARCH927.6	Students will learn theoretical knowledge of glass as a building material, brief history of its use through examples. Manufacture, properties and uses of glass. Various types of glass and its application in building construction. Plastic as a building material; its properties, types, uses and application of plastics in building industry. Different types of adhesives and sealants used in building construction
	CO1	BARCH929.1	Students will understand different ways of supporting a Balcony - Cantilever Slab
	CO2	BARCH929.2	Students will study design of Cantilever beams and Concept of Under Reinforced, Balanced and Over Reinforced Sections
BARCH929 TOS-IV	CO3	BARCH929.3	Student will Understand Dividing Larger Rooms in Smaller One Way or Two Way Slab Units
2201929 [PP]	CO4	BARCH929.4	Students will understand the design of different Staircases with Beams at Various Positions:
	CO5	BARCH929.5	Students will understand Steel as a Material and Various Steel Sections and their use.
	CO6	BARCH929.6	Students will understand concept of Steel Girders and Stanchions



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CO1	BARCH930.1	Student will understand, analyze the different Natural resources like land, water, forest minerals, food, etc.
CO2	BARCH930.2	Students will understand the types of ecosystems, biogeochemical cycles, and importance of their conservation and preservation.
CO3	BARCH930.3	Students will gain the knowledge of Value of biodiversity like consumptive, productive use, social, ethical and aesthetic and also the threats to biodiversity and conservation of biodiversity(in-situ and ex-situ and there role as an Architect and its conservation and preservation.
CO4	BARCH930.4	Students will understand the Causes, effects and control measures of air pollution, water pollution, soil pollution, marine pollution noise pollution, thermal pollution and nuclear hazards
CO5	BARCH930.5	Students will understand different Environment related acts and green building concepts.
CO1	BARCH931.1	Students will understand social, cultural changes occurred due to industrial revolution. They will sketch and analyze inventions, typologies invented due to this social and cultural change.
CO2	BARCH931.2	Students will sketch, differentiate features of various revival style of architecture. They will study typologies of Revival Period of Europe and America.
CO3	BARCH931.3	Students will learn about the development of Colonial Architecture across India and how different countries contributed to architectural development of the particular region
CO4	BARCH931.4	Students will understand the different phases of Early Modern Movements, master architects, their design philosophy and their notable works
CO5	BARCH931.5	Students will understand the philiosophy of '-isms' and their evolution, defining features and adaptation across the world
CO6	BARCH931.6	Students will understand the Post Independence Architecture in India and the several discourses of Post Liberalisation and its influence on Architecture in India
CO7	BARCH931.7	Students will measure a Building/ Campus from any of the styles taught in this semester and document it in form of drawings and photographs
COI	BARCH932.1	Students should be able to understand basic concepts of solid waste management, beginning from source generation to waste disposal.
CO2	BARCH932.2	Students should be able to understand basic principles of daylight and artificial lighting and should be able to design a lighting plan for a space.
CO3	BARCH932.3	Students should be able to understand different sources of light, their characteristics lighting systems (Direct & Indirect) and their applications in building projects and what is Lumen Method
CO4	BARCH932.4	Students should be able to understand Electrical installations in a building with load calculations.
CO5	BARCH932.5	Students should be able to understand Low Voltage electrical systems and its integration in BMS
2012/04	200 Partonillose Limi	Students will understand Taking out linear measurement and locating the objects in
601	BARCH934.1	horizontal and vertical plane.
CO2	BARCH934.2	Students will be able to take angular & directional measurement by using equipment. Prepare and interpret the survey drawing for same.
CO3	BARCH934.3	Students will Understanding how to use and operate dumpy Level .Taking Level/ elevation of a point.
	BARCH934.4	Students will be explained the Accessories used in plane tabling and calculating area of
	CO2 CO3 CO4 CO5 CO6 CO7 CO1 CO2 CO3 CO4 CO5 CO6 CO7	CO2 BARCH930.2 CO3 BARCH930.3 CO4 BARCH930.5 CO1 BARCH931.1 CO2 BARCH931.2 CO3 BARCH931.3 CO4 BARCH931.4 CO5 BARCH931.6 CO7 BARCH931.7 CO1 BARCH932.1 CO2 BARCH932.1 CO2 BARCH932.2 CO3 BARCH932.3 CO4 BARCH932.3 CO4 BARCH932.4 CO5 BARCH932.5 CO1 BARCH932.5

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IQAC Coordinator		Principal	
Ar. Avanti Gole		Ar. Dhananay Chaudhari	
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CO7	BARCH934,7	Students will understand Natural and Manmade aspects. Site Analysis	
CO6		Students will be Plotting the contours and profiles, Understanding gradient, methods contouring,	
CO5		irregular shape	

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COURSE	OUTCOME .	THIRD YEAR

	A.Y. 2023-24 Term I (2019 Pattern)					
Subject	Course Outcome No.	CO Code No.	Statement			
	COI	BARCH935.1	Students will learn to design a project that introduces the concept of site planning with multiple built spaces			
	CO2	BARCH935,2	Student will learn through case studies identification of campus forms, types of campus and aspects of campus planning with respect to norms			
BARCH935	CO3	BARCH935.3	Students will design a project based on Campus Design with emphasis on site planning & relationship of built and open spaces, circulation and movement pattern, activity pattern, architectural character, image, identity, philosophy etc			
AD - IV 3201935 [SV]	CO4	BARCH935.4	Students will develop concepts, zoning, single line plans and block sections with block model w.r.t. site			
	CO5	BARCH935.5	Students will evolve their designs into fucntional and sensible plans with appropriately planned approaches, services, etc. on site			
	CO6	BARCH935.6	Students will design and design and design at the state of the state o			
V14	CO7	BARCH935.7	Students will get experience of time bound design paper solving by attempting to solve previous question paper.			
	CO1	BARCH936.1	To understand the variations in frame structure with options of different types of slab like flat slab, ribbed and waffle slabs etc. along with pre-stressed RCC technology.			
BARCH936 BCM-V 3201936 [PP]	CO2	BARCH936,2	To understand the construction of single basement along with its waterproofing, provision for access and ventilation details. To understand the construction of different types of retaining walls and the detailing of the same			
3201937 [SV]	CO3	BARCH936.3	To understand the construction of different types of retaining walls and the detailing of the same			
1	CO4	BARCH936.4	To introduce materials and technology of assembling interior elements			
	CO5	BARCH936.5	Understand Interior Designing elements such as partitions, suspended ceiling, furniture units etc			
			Student will develop the and are all to prove the land of the			
	COI	BARCH938.1	Student will develop the understanding for Effects of Lateral Pressure of Soil and Water			
BARCH938	CO2 CO3	BARCH938.2	Student will be able to design basic G+2 RCC structures			
TOS-V	CO4	BARCH938.3	Student will be able to know basics about stanchions & Trusses Student will develop the sense to frame Steel structures			
3201938 [PP]	COS	BARCH938.5	Students will able to understand the effect of wind load			
	CO6	BARCH938.6	Stdents will understand different Structural Systems for Larger Spans and Tall Buildings with an understanding of Wind Load			
	CO1	BARCH939.1	Students will understand Landscape Architecture and its scope ,elements, and their application in achieving functional, aesthetic, environmental and cultural goals.			
BARCH939	CO2		Students will understand principles and approaches in Landscape Design through Contemporary as well as historic landscapes for understanding various approaches of design			
Architecture	CO3	BARCH939.3	Students will gain the knowledge of Hard landscape elements with respect to materials and construction techniques.			
3201939 [SS]	CO4	BARCH939.4	Students will gain the knowledge of Softscape (plant material), their characteristics and contribution in terms of creating and imparting character to outdoor spaces.			
	CO5	BARCH939.5	Students will develop understanding of site analysis and site planning and integrated design of open and built spaces.			
	COI	BARCH940.1	To analyze the contemporary trends/approaches in architecture			
BARCH940		DARGUATA	Application of the knowledge gained through the study of history of architecture to			
Elective-I	CO2	BARCH940.2	analyse contemporary architecture			

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IQAC Coordinator			Principal
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Seles.			Mrs/
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	CO5		methods of repairing a working drawing along with tabulation of schedules of materials, finishes and hardware
			To enable students to understand and apply IS Codes and internationally accepted norms / conventions /
3201943 [SS]	CO4	BARCH943.4	To enable students about the hand drafting process and the details required in the same.
BARCH943 Working Drawing-I	CO3		To enable students to prepare Graphical presentation of all the components of a building along with dimensioning and annotations.
	CO2	BARCH943.2	To imbibe the significance of working drawings from the point of view of execution of the work on site and as important component of tender documents.
	COI	BARCH943.1	To enable the students to prepare working drawings of their own architectural design project
411			To obtain knowledge of technical and design aspects of HVAC system
	CO5	BARCH941.5	
3201941 [FF]	CO4	BARCH941.4	To obtain knowledge of technical and design aspects of refregeration system
BS-III 3201941 [PP]	CO3	BARCH941.3	To obtain knowledge of technical and design aspects of passive heating and cooling
BARCH941	CO2	the state of the s	To obtain knowledge of technical and design aspects of mechanical ventilation
	CO1	BARCH941.1	To obtain knowledge of technical and design aspects of natural ventilation
3201940 [SS]	CO5	BARCH940.5	To critically reflect and comment on contemporary architecture across the world.
Architecture)	CO4	BARCH940.4	Skill of presenting a topic of choice, and generating a discussion.
Contempora ry	CO3	BARCH940.3	Development of individual view point and construction of an argument to put it across.

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PADMASHREE DR. D Y PATIL COLLEGE OF ARCHITECTURE

Sector No. 29, B/h. Akurdi Railway Station, Nigdi Pradhikaran, Akurdi, Pune - 411044

COURSE	OUTCOME :	THIRD	VEAD
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Subject	Course Outcome	CO Code No.	A.Y. 2023-24 Term II (2019 Pattern) Statement
	CO1	BARCH944.1	Students will learn to Identify and examine various types Building services in different typology of buildings like Hotels. Hospitals, Office buildings, malls, etc.
	CO2	BARCH944.2	Students will identify and analyse case studies of Shopping mall concluding in comparative analysis and study of standards
BARCH944	CO3	BARCH944.3	Students will develop a programme for shopping mall based on case studies, identify appropriate site and study of prevalent UDCPR and NBC 2016 byelaws
AD - V 3201944 [SV]	CO4	BARCH944.4	Students will develop concepts, zoning, single line plans and block sections with block model wrt site
3201945 [PP]	CO5	BARCH944.5	Students will evolve their designs into fucntional and sensible plans with appropriately planned approaches, services, etc. on site
	CO6	BARCH944.6	Students will buildout sections and elevations with 3d views from the finalsed plans
	CO7	BARCH944.7	Students will get experience of time bound design paper solving by attempting to solve previous question paper.
	COI	BARCH946.1	Student will classify & differentiate the features, classification, applications Uses and Market forms of newer class materials like Structural Steel, nonstructural Steel, and Sheet Roof
	CO2	BARCH946.2	At the End of the Unit Student will Appraise, Critique and design the fencing using different materials like steel, barbed wire, chain-link, weld-mesh and other available materials in market.
BARCH946 BCM-VI	CO3	BARCH946.3	At the end of the unit Student will understand the concept of trusses along with earthquake resistant features & develope Construction details of trusses for low rise medium span buildings
3201946 [SV]	CO4	BARCH946.4	Student will understand and sketch the methods of construction of various components of steel structures; steel frame construction for multi-storey steel building and also develope the design for assembly of structure with earthquake resistant features.
	CO5	BARCH946.5	Student understand Concept of modular coordination for Industrialized building construction, planning and construction details
	CO6	BARCH946 6	Student understand the Application of Moment resisting frames, crossed braced frames and shear wall for Earthquake resistance structures
	CO1	BARCH947.1	Student will study the effect of Lateral Pressure of Soil and Water for increasing heights.
	CO2	BARCH947 2	Students will develope the Feel for Structural Principles and their Relates to Building Design
BARCH947	CO3	BARCH947.3	Students will understand the fact that Architecture and Structure cannot be conceived independently.
TOS-VI 3201947 [PP]	CO4	BARCH947.4	Students will Design the Structural System for Ground +2 Storey R.C.C Structure
	CO5	BARCH947.5	Students will Design the medium span Factory Building in steel.
	CO6	BARCH947 6	Students will Understand different Structural Systems for Larger Spans and Tall Buildings with an understanding of Wind Load
	CO7	BARCH947 7	Students will develope a Confidence that they could explore a Structural System of their own design and execute the same.
	COI	DO INCOLUTE	Students will understand the meaning and need of research, variables, ethics, Selection of samples ,research methodology and its types.
	CO2		Students will select and define the selected research topic and narrowing it down to further a final topic.
BARCH948 -	CO3	BARCH948.3	Students will carry out the literature review of 5 research papers on their selected topic.
3201948 [SS]	CO4	BARCH9484	Students will review case studies, qualitative and quantitative data collection, various tools need to be used as per their selected topic.

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	CO5	BARCH948.5	Students will create a research proposal including framing of Abstract, Aim and objective Scope of work of their selected topic.
	COI	BARCH949.1	At the End of the Course Student will be analyze and define their selected research area in comparison with other given topic.
BARCH949 Elective-II	CO2	BARCH949.2	At the End of the Course Student will create a Research Proposal including framing of Abstract, Aim and objective Scope of work of their favorable research area
	CO3	BARCH949.3	At the End of the Course Student will review research paper review
3201949 [SS]	CO4	BARCH949.4	At the End of the Course Student will and Co. St. I. I. C. I. I.
	CO5	BARCH949.5	At the End of the Course Student will create a inferences, conclusion and some topic can be in form of proposal
			Students will be a short sound and the Piles
	COI	BARCH950.1	Students will learn about sound properties. Planning and design to control outdoor noise and indoor noise.
	No. of the last	E-040-0477-V-55-0	About different acoustical material & its application
	CO2	BARCH950.2	Students will learn parameters of good acoustical conditions and design techniques to control air and structure born noise
BARCH950 BS-IV	CO3	BARCH950.3	Students will learn to calculate Reverberation time calculation, acoustical treatment
3201950 [PP]	CONTRACTOR OF THE PARTY OF THE		and different sound amplification systems
3201951 [SS]	CO4	BARCH950.4	Students will understand and learn about the passive strategies of fire prevention
			Srudents will learn Exit requirements, egress components
	CO5	BARCH950.5	Compartmentalistion, provision for basements, gas supply, firedetection and alarm in high rise bldg.
	CO6	BARCH950.6	students will learn about active strategies fire prevention
	CO1	BARCH952.1	Students will Learn to represent working drawing using standard practices, conventions, graphic annotations, sequencing and cross reference systems of a good working drawing set.
	CO2	BARCH952.2	Students will show Design development and detailing of own design to resolve the design idea
BARCH952 WD-II	CO3	BARCH952.3	students will execute their design ideas in working drawing considering the construction parameters, limitation and sequencing
3201952 [SS]	CO4	BARCH952.4	students will generate a working drawing set for the chosen design/ building
	CO5	BARCH952.5	ctudents will understand formal/annuals
	CO6	BARCH952.6	Students will Develop and draft details of Civil work & Building Components.
	CO7	BARCH952.7	students will generate interior design drawings including schedule of finishing details
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Ar. Avant	î Gole		Ar. Dhananjay Chaudhari
IQAC Coor	rdinator		Principal

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Sector No. 29, B/h. Akurdi Railway Station, Nigdi Pradhikaran, Akurdi, Pune - 411044

COURSE	OUTCOME	· FOUDTH	VEAD
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	A.Y. 2023-24 Term I (2019 Pattern)					
Subject	Course Outcome No.	CO Code No.	Statement			
۸	CO1	BARCH953.1	To develop Architectural programming of the entire project for housing including the process of generating a design brief, developing design iterations based on involved issues.			
	CO2	BARCH953.2	To Provide design decisions based on understanding and application of of Socio Cultural Aspects and Precedent Studies of the site.			
BARCH953	CO3	BARCH953.3	To Provide design decisions based on understanding and application of Site Context and Analysis.			
AD-VI 4201953 [SV]	CO4	BARCH953.4	To Provide design decisions based on understanding and application of housing typologies.			
	CO5	BARCH953.5	To Provide design decisions based on understanding and application of Buildin Material and Construction Technology and Economic Aspect.			
	CO6	BARCH953.6	To Provide design decisions based on understanding and application of Traffic and vehicular movement and Asthetical Elements.			
	CO7	BARCH953.7	To Provide design decisions based on understanding and application of Building Services and Rules and Regulations.			
	CO1	BARCH954.1	Student will able to comprehend and design multi-basement using the data collected from study of standards and case studies for any building typology.			
	CO2	BARCH954.2	Students will be able to design advanced structural systems and advanced services that help functioning of multi-basement.			
BARCH954 ABCS-I 4201954 [SV]	CO3	BARCH954.3	Student will able to comprehend types of swimming pools based on purpose of use and its advanced services using the data collected from study of standards and case studies.			
20 2	CO4	BARCH954.4	Students will be able to design advanced structural systems and advanced services that help functioning of swimming pool.			
	CO5	BARCH954.5	Student will able to comprehend functioning of various long span structures/ industrial buildings, its advanced structural systems and design using standards and byelaws.			
	COI	BARCH955.1	Students will learn the meaning of town planning, urban planning, urban design and context of architectural project beyond site;			
	CO2	BARCH955.2	Students will learn the principles and theories of Urban Planning and Urban Design and relevance in the context of globalization.			
BARCH955 US-I 4201955 [SS]	CO3	BARCH955.3	Students will learn the Various aspects of urban land. They will understand the implications of various factors such as traffic-transportation, socio- economic, urban landscape etc. influencing the development, rationale of urban regulatory controls.			
EL COSTO DE MINISTRA	CO4	BARCH955.4	Students will study urban residential developments such as neighbourhood planning, high-rise housing, slum rehabilitation, public housing, town planning schemes etc.			
	CO5	BARCH955.5	Students will study affordable housing - introduction and concepts; Contemporary problems of settlements, towns, cities impact of unplanned growth.			
	CO1	BARCH956.1	Student will understand how to collect authentic data for research work as well analysis of data using certain matrix or statics.			
	CO2	BARCH956.2	Student will understand how to write & Present the data using various techniques (verbal, visual, graphical, numerical based on research topic & type.			
BARCH956 RIA-II	CO3	BARCH956.3	Students will understand & analysis the data obtained through literature review as per their topic.			
4201956 [SS]	CO4	BARCH956.4	Students will review the data collection- qualitative & quantitative data collection			

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	CO5	BARCH956.5	Students will reframe a question related to their selected topic and start to write rsearch paper draft
	CO6	BARCH956.6	Students will salart appropriate research moth delay for delay
	COI	BARCH957.1	Student will study different research paper, book to brain storm about the different topics of their interest, to finalize their topic.
	CO2	BARCH957.2	Reviewing different research paper they will get the idea of presenting research paper, methodolgy tools, findings presentations etc.
BARCH957 Elective III 4201957 [SS]	CO3	BARCH957.3	Students will present their work in class which will help students to gain knowledge of different topic all together and willget knowledge about different topics from their peer
4201937 [33]	CO4	BARCH957.4	Student will do in depth study of their selected topic, will do live case study, measurement dwg., literature review etc. as per the need of topic and have to present their own analysis on the same.
	CO5	BARCH957.5	Student will be able to present their work in form of research paper, design proposal, which can be idea based or design based solution.
	CO1	BARCH958.1	Student will introduced to Quantity Surveying and Estimating
	CO2	BARCH958.2	Student will introduced to Specification writing
BARCH958	CO3	BARCH958.3	Student will study mode of measurement as stipulated in IS-1200
QSSW-I 4201958 [PP]	CO4	BARCH958,4	Student will Work out quantities for Load-bearing structure
+	CO5	BARCH958.5	Student will Work out quantities for RCC structure
	CO6	BARCH958.6	Student will learn Specification writing (Workmanship
	CO1	BARCH959.1	Student will understand the nature, scope and avenues of service and professional practice as an Architect, Role of an Architect as a technical professional. Illustrate the changing nature of the Architects.
	CO2	BARCH959.2	Student will understand The Architects Act 1972, The Council of Architecture, its composition, legal status, and mandate for to Registration of Architects and for monitoring the Academics and Profession of Architecture, Rules and Regulations of the Council regarding Professional Liabilities & Code of Conduct. Introduction to Architectural Competitions, its Pros and Cons, Rules and Regulations as per Council of Architecture
BARCH959 PP 4201959 [PP]	CO3	BARCH959.3	Student will understand the Avenues of professional service and mode & nature of professional practice - Types of Organizations, Scope of comprehensive Services, Scale of Fees, and Site supervision, Documentation, Introduction to Office Management, & International practice.
	CO4	BARCH959.4	Students will understand Taxation (Income tax, Goods & Service Tax and Professional tax), Banking, Insurance, and laws applicable to architects.
	CO5	BARCH959.5	Students will understand the Role and Legal duties of Architects in Arbitration and Valuation.
	CO6	BARCH959.6	Students will Introduce to IIA, IIID, IUDI, ITPI, ISOLA and such professional organizations. Understanding the need for Architects to be aware, sensitive and active in Social and Civic issues in Urban context.
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Ar. Avanti	Gole		Ar. Dhananjay Chaudhari
IQAC Coordinator			Principal

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PADMASHREE DR. D Y PATIL COLLEGE OF ARCHITECTURE

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COURSE	OUTCOME :	FOURTH	YEAR
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12000		A.S	(. 2023-24 Term II (2019 Pattern)
Subject	Course Outcome No.	CO Code No.	Statement
	COI	BARCH953.1	This Study will help student to understand Urban Fabric of Design Project. Study of Urban Areas in terms of Urban level issues like Mobility, movement network, builtform disposition, character, identity, activities, open space networks, walkability, inclusiveness, etc.
	CO2	BARCH953.2	This Study will Students to learn rules and regulation and site analysis for the Draft Development Plan.
BARCH960 AD-VII	CO3	BARCH953.3	This Study will help student to understand architectural design of a component/s of the neighborhood study at Cily Level, Community Level, Local Level, Community participation initiatives
4201960 [SV]	CO4	BARCH953.4	Students will undestand the challanges and analysis. Identify issues related to above aspects at Neighbourhood level and offer design solutions for improving the status of the neighbourhood with reference to the above aspects.
	CO5	BARCH953,5	Students are expected to design a Multi Functional Complex of Buildings or Speciality Building in an Urban Context with substantial Complexity addressing Issues of Character, Identity, Builtform, Contextuality, Advanced Services, Green Initiatives, landscape integration, traffic management with impact on immediate surroundings.
	COI	BARCH961.1	Students will identify and analyse case studies of Auditorium concluding in comparative analysis and study of standards
	CO2	BARCH961.2	Students will learn to evolve their Auditorium designs into functional and sensible plans with appropriately planned approaches, services, etc.
BARCH961 ABCS-II	CO3	BARCH961.3	Students will be able to appraise several materials for various architectural features of Auditorium such as Entrance Lobby Flooring, Landscape features, Curtain Wall, Toilets, pergola, and porches through detailed market survey
4201961 [SV]	CO4	BARCH961.4	Students will be able to design detailing for various architectural features of Auditorium such as Entrance Lobby Flooring, Landscape features, Curtain Wall Toilets, pergola, and porches based on market survey
	CO5	BARCH961.5	Students will be able to comprehend advanced structural systems employed in several high rise buildings under different loading conditions, advanced structural systems and advanced services that help functioning of high rise buildings through case studies
	CO1	BARCH962.1	Students will learn the theoretical knowledge of aspects involved in urban study process such as Survey, analysis, proposals and development.
	CO2	BARCH962.2	Students will learn the theoretical knowledge of Urban Planning legislation such as town planning acts, building bylaws, city conservation.
US-II 4201962 [SS]	CO3	BARCH962,3	students will learn theoretical knowledge of urban economics such as demand and supply, housing finance, Government schemes and various bodies etc
	CO4	BARCH962.4	students will be able to study the existing town and town planning proposals for municipal council level town-(group work)
	COS	BARCH962,5	Identification of urban issues related to various aspects such as environment, society, traffic and transportation, hills and hill slopes, riverfront development, urban heritage conservation through primary surveys
	CO1	BARCH963.1	Student will study different research paper, book to brain storm about the different topics of their interest, to finalize their topic.

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	CO6	BARCH966.6	knowledge areas: Project Finance management, Construction Safety management, Facilities management, Design management. Awareness and Introduction to Computer applications for effective Project Management. (not t be included for SPPU examinations)
	CO5	BARCH966.5	Students will understand the Resource management, Communication management, Risk management, Procurement management and Stakeholder management. Awareness and Introduction to Computer applications for effective Project Management. Students will understand the Importance of specialized themes in additional to
	CO4	BARCH966.4	Students will understand the Key concept introduction to various knowledge areas as defined in PMBOK to understand how various knowledge areas work i relationship with each other. Knowledge areas Integration management, Scope management, Schedule management, Cost management, Quality management
BARCH966 PM 4201966 [PP]	CO3	BARCH966.3	Students will understand the Definition and Types of tenders, Systems of Tendering - Open and Invited, Process of tendering. Tenders - Pre-Qualification and Empanelment procedures - Selection of Contractors. Tender documents, Terms of Reference - Specifications - Bill of Quantities - Billing, Introduction to Contracts - Article of Agreement and Conditions of Contract (IIA document)
	CO2	BARCH966.2	Students will understand the Importance of Project Phase: Concept and Feasibility, Planning and Design, Construction and Close-out and within each phase of project role of key processes – Initiating, Planning, Execution, Control & Monitoring and Close- out. Difference between Project Management and Construction Management.
	COI	BARCH966.1	Student will unerstand the Project and Project Environment. Traditional organization structure vs modern project management structure, Importance of Project Manager & role of an Architect as a Project Manager who integrates everyone. Collaborative project environment with multiple stakeholders and need to manage. PMBOK Environment, Concept of Project- Program- Portfolio and Processes / Policies/ Procedures to manage these project environments.
9341	365		service installations
	CO6	BARCH965.6	Students will be able to prepare Broad outline specification for miscellaneous
4201965 [PP]	CO5	BARCH965.5	Students will Work out quantities for Steel Structures Students will prepare Specification for Building Services
QSSW-II	CO3	BARCH965.3 BARCH965.4	Students will able to prepare Indent of materials
BARCH965	CO2	BARCH965.2	Students will study Different Building trades scope & contents, checklist preparation
	CO1	BARCH965.1	Students will learn Analysis of Rate
	CO5	BARCH963.5	proposal, which can be idea based or design based solution.
	CO4	BARCH963.4	Student will do in depth study of their selected topic, will do live case study, measurement dwg., literature review etc. as per the need of topic and have to present their own analysis on the same. Student will be able to present their work in form of research paper, design
4201963 [SS]	CO3	BARCH963.3	knowledge of different topic all together such as planning and architectural theries, research and data collection methodolgy etc.
BARCH963 Elective IV	CO1	DADGUOGO A	Students will present their work in class which will help students to gain
	CO2	BARCH963.2	research in that and to gain therotical and practical knowledge to apply it in

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