

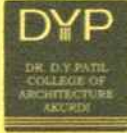


Dr D Y Patil Pratishthan's
PADMASHREE DR. D Y PATIL COLLEGE OF ARCHITECTURE
Sector No. 29, B/h. Akurdi Railway Station, Nigdi Pradhikaran, Akurdi, Pune - 411044

Criteria 2 – Teaching Learning & Evaluation

2.6 – Student Performance and Learning Outcomes

2.6.2



Criterion 2 – Teaching Learning and Evaluation

Key Indicator – 2.6 – Student Performance and Learning Outcomes

2.6.2: Attainment of POs and COs are evaluated.

Sr. No	Contents (B Arch and M Arch)
1	B Arch CO-PO Target Attainment
2	M Arch CO-PO Target Attainment
3	Sample CO-PO Attainment



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2.6.2

Attainment of POs and COs are evaluated

- **B Arch CO-PO Target Attainment**



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PO Target Master Sheet, CO-PO mapping

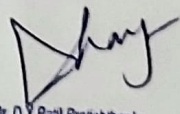
IMPORTANT NOTE:

(a) Mapping Level (ML) against each PO to be given as below. It is not necessary that each CO is mapped to each PO.

- 3 Excellent
- 2 Good
- 1 Average
- 0 Not related

(b) POs have to refered from 2019 Pattern and same to be assumed for 2015 Pattern

A.Y. 2021-22, Term II				Year & Div.: First Year - A, B & C batch									
Subject	Course Outcome No.	CO Code No.	Statement	CO-PO Mapping									
				CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
					ML	ML	ML	ML	ML	ML	ML	ML	ML
BARCH108 AD - I 1201909 [SV]	CO1	BARCH108.1	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.	CO1	3	3	3	3	2	2	2	2	3
	CO2	BARCH108.2	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.	CO2	3	3	3	3	3	3	3	3	3
	CO3	BARCH108.3	Students will learn to comprehend and review the architecture, culture, history of various rural settlements.	CO3	3	2	2	2	3	3	2	3	
	CO4	BARCH108.4	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.	CO4	3	2	2	3	3	3	3	3	
	CO5	BARCH108.5	Students will give a design proposal based on the issues addressed in the studied settlement.	CO5	2	2	3	3	3	3	0	3	
	CO6	BARCH108.6	Students will develop hand drawn plans, sections, elevations, 3D views and models of the project sited on the studied settlement.	CO6	2	3	3	3	0	2	3	3	
AVERAGE BARCH108					2.67	2.50	2.67	2.83	2.33	2.67	2.17	3.00	
BARCH109 BCM-II 1201910 [PP] 1201911 [SV]	CO1	BARCH109.1	Students will understand Earthquake resistant Load bearing Building Techniques along with they gain knowledge about RCMW & domes walls construction.	CO1	3	3	0	2	0	3	3	2	
	CO2	BARCH109.2	The main outcome of this unit is to understand all about Timber & its derivatives along with understanding of varied roof structure and materials.	CO2	3	3	2	3	2	0	3	2	
	CO3	BARCH109.3	Single and Double Floor wooden construction for G+1 structures are to be learnt as a part of this unit along with Timber staircase details.	CO3	3	3	2	1	0	1	3	1	
	CO4	BARCH109.4	Students will gain knowledge about Timber Panelled Door, Flush Door & Casement windows construction Techniques along with Joinery Details.	CO4	3	3	3	3	2	0	3	2	
	CO5	BARCH109.5	To understand Timber King Post and Queen Post Truss for Roof construction Techniques	CO5	3	3	1	2	2	0	3	1	
	CO6	BARCH109.6	Wooden Partition, Wall Paneling for Interior application is to be understood along with joinery details.	CO6	3	3	3	3	3	3	3	3	
AVERAGE BARCH109					3.00	3.00	1.83	2.33	1.50	1.17	3.00	1.83	
BARCH110 TOS-II 1201912 [PP]	CO1	BARCH110.1	Student will study S.F.D and B.M.D of Overhanging Beams	CO1	3	2	2	2	1	1	2	3	
	CO2	BARCH110.2	Students will be introduced to Plane Lattice Construction and structural actions in it's member	CO2	2	3	3	2	2	1	2	2	
	CO3	BARCH110.3	Student will study Applications of Frames and Trusses - Geometry, Assumptions and Effect of Horizontal and Vertical Forces on Frames.	CO3	3	3	2	2	1	1	3	0	
	CO4	BARCH110.4	Student will study Effect of Force on Spanning Members - Theory of Simple Bending to create Moment of Resistance:	CO4	2	3	3	2	2	1	2	0	
	CO5	BARCH110.5	Student will study Effect of Force on Spanning Members - Shear Stress Distribution across different Section	CO5	2	3	3	2	2	1	2	0	
	CO6	BARCH110.6	Student will study Effect of Force on Spanning Members - Maximum and Minimum Slope and Deflection for different cases	CO6	2	3	3	2	2	1	2	2	
	CO7	BARCH110.7	Student will Understand and study the Failure of Compression Members	CO7	3	2	2	2	1	1	2	0	
AVERAGE BARCH110					2.43	2.71	2.57	2.00	1.57	1.00	2.14	0.57	
BARCH111 ACD-II 1201913 [SS]	CO1	BARCH111.1	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.	CO1	3	3	2	3	0	0	3	3	
	CO2	BARCH111.2	Students will understand to communicate an architectural idea / proposal in a legible and effective manner through perspective projections	CO2	3	3	3	3	3	3	3	3	
	CO3	BARCH111.3	Students will understand use of shades and shadows, and various architectural presentation and rendering techniques	CO3	3	3	2	3	0	0	3	2	
	CO4	BARCH111.4	Students will learn surface Development of various three dimensional objects and orthographic projections of true shapes of sectional planes.	CO4	3	3	3	3	0	0	3	0	
	CO5	BARCH111.5	Students will learn one-point and two-point perspective of objects and buildings/ building components using various methods including grid method.	CO5	3	3	3	3	0	0	3	2	
	CO6	BARCH111.6	Students will be introduced to concept of bird's eye view, worm's eye view etc	CO6	3	3	3	3	0	0	2	0	
	CO7	BARCH111.7	Students will learn principles of Sciography (shades and shadows) for 3-Dimensional objects and buildings on plans, elevation, isometric and perspective.	CO7	3	3	3	3	0	0	3	0	
AVERAGE BARCH111					3.00	3.00	2.71	3.00	0.43	0.43	2.80	1.43	


 Dr. D Y Patil Pratishthan's
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 Akurdi Pune

PO Target Master Sheet, CO-PO mapping

IMPORTANT NOTE:

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- 3 Excellent
- 2 Good
- 1 Average
- 0 Not related

(b) POs have to refered from 2019 Pattern and same to be assumed for 2015 Pattern

(c) Minimum 5 COs per subject to be formulated

A.Y. 2021-22, Term II				Year & Div.: First Year - A, B & C batch								
Subject	Course Outcome No.	CO Code No.	Statement	CO No.	CO-PO Mapping							
					PO1 ML	PO2 ML	PO3 ML	PO4 ML	PO5 ML	PO6 ML	PO7 ML	PO8 ML
BARCH112 HOAC-II 1201914 [SS]	CO1	BARCH112.1	Students will learn about about the various types of Islamic architectural elements through library study.	CO1	3	2	0	1	2	3	2	1
	CO2	BARCH112.2	Students will understand new developments due to Islamic invasion and their effects on architecture. Understanding the effects of Islamic principles on Arch. Form.	CO2	3	3	0	1	0	3	1	1
	CO3	BARCH112.3	Students will understand new construction techniques were brought through Islamic invasion and depict through sketches.	CO3	3	2	0	2	0	3	2	1
	CO4	BARCH112.4	Understanding the various Indo-Islamic features and making sketches of them.	CO4	3	3	2	1	0	3	2	1
	CO5	BARCH112.5	Studying in groups about various monuments of Islamic architecture and presenting in the class.	CO5	3	3	1	1	3	3	1	1
	CO6	BARCH112.6	Drawing sketches of various types of arches, domes, squinches and minarets-studying in detail about the various elements and it's types.	CO6	3	2	0	2	0	3	2	1
	CO7	BARCH112.7	Studying about the various methods of dome construction and showing them on the sheets.	CO7	3	2	0	2	0	3	2	1
AVERAGE BARCH112					3.00	2.43	0.43	1.43	0.71	3.00	1.71	1.00
BARCH113 FOA 1201915 [SS]	CO1	BARCH113.1	Introduction to the profession of Architecture and its distinguishing characteristics with respect to other professions.	CO1	3	2	1	3	0	2	2	3
	CO2	BARCH113.2	Scope of architecture as a discipline	CO2	3	3	0	3	3	2	1	3
	CO3	BARCH113.3	Fundamentals of architecture -function, structure, culture and environment and their integration into the architectural form	CO3	3	2	1	1	3	3	2	2
	CO4	BARCH113.4	Factors affecting architectural design- site, context, function, circulation, structural system, materials, sustainability and aesthetics.	CO4	3	3	3	3	3	2	3	3
	CO5	BARCH113.5	Concept of Shelter and introduction to various building typologies and their design concerns	CO5	3	3	2	3	3	1	3	1
	CO6	BARCH113.6	Scope and significance of subjects in architectural curriculum.	CO6	2	0	2	3	3	1	0	2
AVERAGE BARCH113					2.83	2.17	1.50	2.67	2.50	1.83	1.83	2.33
BARCH114 WS-II 1201916 [SS]	CO1	BARCH114.1	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.	CO1	3	3	2	3	2	2	3	0
	CO2	BARCH114.2	To enable students to make Architectural and construction models using various materials. Introduction to the Model making of settlement study in a group.	CO2	3	2	3	3	3	2	2	0
	CO3	BARCH114.3	To enable students to make Construction models with various materials. Use of various materials in individual design models.	CO3	3	2	3	3	3	2	2	0
	CO4	BARCH114.4	To understand the 3D modeling and visualizing software "Sketchup".	CO4	3	2	0	3	3	3	3	0
	CO5	BARCH114.5	To understand the commands and applying them during model making in the software.	CO5	3	2	0	3	3	3	3	0
AVERAGE BARCH114					3.00	2.20	1.60	3.00	2.80	2.40	2.60	0.00

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PO Target Master Sheet, CO-PO mapping

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- 3 Excellent
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A.Y. 2021-22, Term II				Year & Div.: Second Year - A, B & C batch									
Subject	Course Outcome No.	CO Code No.	Statement	CO No.	CO-PO Mapping								
					PO1 ML	PO2 ML	PO3 ML	PO4 ML	PO5 ML	PO6 ML	PO7 ML	PO8 ML	
BARCH208 AD - III 2201926 [SV]	CO1	BARCH208.1	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..	CO1	2	2	3	3	3	3	3	3	3
	CO2	BARCH208.2	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.	CO2	3	3	3	3	3	3	3	3	3
	CO3	BARCH208.3	Students will design a project or eskee based in the settlement that students have studied.	CO3	2	2	3	3	3	3	3	3	3
	CO4	BARCH208.4	Students will develop concepts, zoning, single line plans and block sections with block model wrt site	CO4	2	3	3	3	0	2	3	3	3
	CO5	BARCH208.5	Students will evolve their designs into functional and sensible plans with appropriately planned approaches, services, etc. on site	CO5	2	3	3	3	0	2	3	3	3
	CO6	BARCH208.6	Students will buildout sections and elevations with 3d views from the finalised plans	CO6	2	3	3	3	0	2	3	3	3
AVERAGE BARCH208					2.17	2.67	3.00	3.00	1.50	2.50	3.00	3.00	3.00
BARCH209 BCM-IV 2201927 [PP] 2201928 [SV]	CO1	BARCH209.1	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.	CO1	3	3	1	1	1	1	1	1	1
	CO2	BARCH209.2	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.	CO2	3	3	3	3	3	0	3	1	
	CO3	BARCH209.3	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	CO3	3	3	3	3	3	3	3	3	3
	CO4	BARCH209.4	Students will understand elevators, escalators, conveyors – types, size, capacity, speed and Mechanical safety methods, provisions in civil work for installation of elevators and escalators	CO4	3	3	3	3	3	3	3	3	3
	CO5	BARCH209.5	Students will learn to draw Various types of sliding and folding doors and Construction of Bay Window	CO5	3	3	3	3	3	3	3	3	3
	CO6	BARCH209.6	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	CO6	3	3	3	3	3	0	3	1	
	CO7	BARCH209.7	-	CO7									
AVERAGE BARCH209					3.0	3.0	2.7	2.7	2.7	1.7	2.7	2.0	
BARCH210 TOS-IV 2201929 [PP]	CO1	BARCH210.1	Students will understand different ways of supporting a Balcony - Cantilever Slab	CO1	3	2	2	1	1	1	2	1	
	CO2	BARCH210.2	Students will study design of Cantilever beams and Concept of Under Reinforced, Balanced and Over Reinforced Sections	CO2	3	2	2	1	2	1	2	1	
	CO3	BARCH210.3	Student will Understand Dividing Larger Rooms in Smaller One Way or Two Way Slab Units	CO3	2	3	3	1	1	1	1	1	
	CO4	BARCH210.4	Students will understand the design of different Staircases with Beams at Various Positions:	CO4	3	3	2	1	2	1	2	1	
	CO5	BARCH210.5	Students will understand Steel as a Material and Various Steel Sections and their use.	CO5	3	3	2	1	1	1	2	1	
	CO6	BARCH210.6	Students will understand concept of Steel Girders and Stanchions	CO6	3	2	1	1	2	1	2	1	
AVERAGE BARCH210					2.83	2.50	2.00	1.00	1.50	1.00	1.83	1.00	
BARCH211 ENV. SCIENCE 2201930 [SS]	CO1	BARCH211.1	Student will understand, analyze the different Natural resources like land, water, forest, minerals, food, etc.	CO1	3	2	0	2	1	3	0	0	
	CO2	BARCH211.2	Students will understand the types of ecosystems, biogeochemical cycles, and importance of their conservation and preservation.	CO2	3	2	0	2	1	3	0	0	
	CO3	BARCH211.3	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.	CO3	3	3	0	1	2	3	0	0	
	CO4	BARCH211.4	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	CO4	3	2	0	2	1	1	2	0	
	CO5	BARCH211.5	Students will understand different Environment related acts and green building concepts.	CO5	3	3	0	3	1	0	0	0	
AVERAGE BARCH211					3	2.4	0	2	1.2	2	0.4	0	

PO Target Master Sheet, CO-PO mapping

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- | | |
|---|-------------|
| 3 | Excellent |
| 2 | Good |
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A.Y. 2021-22, Term II				Year & Div.: Second Year - A, B & C batch								
Subject	Course Outcome No.	CO Code No.	Statement	CO-PO Mapping								
				CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
					ML	ML	ML	ML	ML	ML	ML	ML
BARCH212 HOAC-IV 2201931 [SS]	CO1	BARCH212.1	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.	CO1	3	3	2	2	2	0	3	1
	CO2	BARCH212.2	Students will sketch, differentiate features of various revival style of architecture. They will study typologies of Revival Period of Europe and America.	CO2	3	3	2	2	2	0	3	1
	CO3	BARCH212.3	Students will learn about the development of Colonial Architecture across India and how different countries contributed to architectural development of the particular region	CO3	3	3	2	2	2	0	3	1
	CO4	BARCH212.4	Students will understand the different phases of Early Modern Movements, master architects, their design philosophy and their notable works	CO4	3	3	2	2	2	0	3	1
	CO5	BARCH212.5	Students will understand the philosophy of 'isms' and their evolution, defining features and adaptation across the world	CO5	3	3	2	2	2	0	3	1
	CO6	BARCH212.6	Students will understand the Post Independence Architecture in India and the several discourses of Post Liberalisation and its influence on Architecture in India	CO6	3	3	2	2	2	0	3	1
	CO7	BARCH212.7	Students will measure a Building/ Campus from any of the styles taught in this semester and document it in form of drawings and photographs	CO7	3	3	3	3	3	3	3	2
AVERAGE BARCH212					3.00	3.00	2.14	2.14	2.14	0.43	3.00	1.14
BARCH213 BS-II 2201932 [PP] 2201933 [SS]	CO1	BARCH213.1	Students should be able to understand basic concepts of solid waste management, beginning from source generation to waste disposal.	CO1	3	3	2	3	3	2	3	3
	CO2	BARCH213.2	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.	CO2	3	3	1	3	3	1	3	2
	CO3	BARCH213.3	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	CO3	3	3	2	3	3	0	3	1
	CO4	BARCH213.4	Students should be able to understand Electrical installations in a building with load calculations.	CO4	3	3	2	3	1	0	3	2
	CO5	BARCH213.5	Students should be able to understand Low Voltage electrical systems and its integration in BMS	CO5	3	3	0	3	1	0	3	1
AVERAGE BARCH213					3.00	3.00	1.40	3.00	2.20	0.60	3.00	1.80
BARCH214 SSA 2201934 [SS]	CO1	BARCH214.1	Students will understand Taking out linear measurement and locating the objects in horizontal and vertical plane.	CO1	3	3	0	2	2	0	1	2
	CO2	BARCH214.2	Students will be able to take angular & directional measurement by using equipment. Prepare and interpret the survey drawing for same.	CO2	3	3	0	2	2	0	2	0
	CO3	BARCH214.3	Students will Understand how to use and operate dumpy Level .Taking Level/ elevation of a point.	CO3	3	3	0	2	3	0	1	1
	CO4	BARCH214.4	Students will be explained the Accessories used in plane tabling and calculating area of irregular shape.	CO4	3	3	0	2	2	0	2	1
	CO5	BARCH214.5	Students will understand Accessories used in plane tabling and calculating area of irregular shape	CO5	3	3	0	2	3	0	2	0
	CO6	BARCH214.6	Students will be Plotting the contours and profiles, Understanding gradient, methods of contouring,	CO6	3	3	0	2	3	0	2	2
	CO7	BARCH214.7	Students will understand Natural and Manmade aspects, Site Analysis	CO7	3	3	2	2	2	0	2	2
AVERAGE BARCH214					3.00	3.00	0.29	2.00	2.43	0.00	1.71	1.14

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PO Target Master Sheet, CO-PO mapping

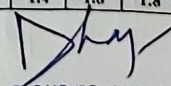
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A.Y. 2021-22, Term II				Year & Div.: Third Year - A, B & C batch									
Subject	Course Outcome No.	CO Code No.	Statement	CO-PO Mapping									
				CO No.	PO1 ML	PO2 ML	PO3 ML	PO4 ML	PO5 ML	PO6 ML	PO7 ML	PO8 ML	
BARCH308 AD - V 3201944 [SV] 3201945 [PP]	CO1	BARC308.1	Students will learn to Identify and examine various types Building services in different typology of buildings like Hotels, Hospitals, Office buildings, malls, etc.	CO1	3	3	2	3	3	3	3	3	3
	CO2	BARC308.2	Students will identify and analyse case studies of Shopping mall concluding in comparative analysis and study of standards	CO2	3	3	1	3	3	3	3	3	3
	CO3	BARC308.3	Students will develop a programme for shopping mall based on case studies, identify appropriate site and study of prevalent UDPCR and NBC 2016 byelaws	CO3	3	3	1	3	3	3	3	3	2
	CO4	BARC308.4	Students will develop concepts, zoning, single line plans and block sections with block model wrt site	CO4	2	3	3	3	0	2	3	3	3
	CO5	BARC308.5	Students will evolve their designs into functional and sensible plans with appropriately planned approaches, services, etc. on site	CO5	2	3	3	3	0	2	3	3	3
	CO6	BARC308.6	Students will buildout sections and elevations with 3d views from the finalised plans	CO6	2	3	3	3	0	2	3	3	3
	CO7	BARC308.7	Students will get experience of time bound design paper solving by attempting to solve previous question paper.	CO7	3	3	3	3	0	2	3	3	1
AVERAGE BARCH308					2.57	3.00	2.29	3.00	1.29	2.43	3.00	2.57	
BARCH309 BCM-VI 3201946 [SV]	CO1	BARC309.1	Student will classify & differentiate the features, classification, applications Uses and Market forms of newer class materials like Structural Steel, nonstructural Steel, and Sheet Roof	CO1	3	3	3	3	3	2	2	2	2
	CO2	BARC309.2	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.	CO2	3	3	3	3	3	3	2	2	2
	CO3	BARC309.3	At the end of the unit Student will understand the concept of trusses along with earthquake resistant features & develop Construction details of trusses for low rise medium span buildings	CO3	2	2	2	3	1	3	3	0	0
	CO4	BARC309.4	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 develop the design for assembly of structure with earthquake resistant features.	CO4	2	2	1	3	3	3	3	0	0
	CO5	BARC309.5	Student understand Concept of modular coordination for Industrialized building construction, planning and construction details	CO5	3	3	3	3	1	3	3	0	0
	CO6	BARC309.6	Student understand the Application of Moment resisting frames, crossed braced frames and shear wall for Earthquake resistance structures	CO6	2	2	1	3	3	3	3	2	2
AVERAGE BARCH309					2.5	2.5	2.2	3.0	2.3	2.8	2.7	1.0	
BARCH310 TOS-VI 3201947 [PP]	CO1	BARC310.1	Student will study the effect of Lateral Pressure of Soil and Water for increasing heights.	CO1	3	2	1	1	1	1	3	1	1
	CO2	BARC310.2	Students will develop the Feel for Structural Principles and their Relates to Building Design	CO2	2	2	3	1	2	1	1	1	1
	CO3	BARC310.3	Students will understand the fact that Architecture and Structure cannot be conceived independently.	CO3	1	2	1	1	3	1	2	2	2
	CO4	BARC310.4	Students will Design the Structural System for Ground +2 Storey R.C.C Structure	CO4	3	3	2	1	1	1	1	1	1
	CO5	BARC310.5	Students will Design the medium span Factory Building in steel.	CO5	3	3	2	1	1	1	1	1	1
	CO6	BARC310.6	Students will Understand different Structural Systems for Larger Spans and Tall Buildings with an understanding of Wind Load	CO6	2	2	2	1	1	1	2	1	1
	CO7	BARC310.7	Students will develop a Confidence that they could explore a Structural System of their own design and execute the same.	CO7	2	2	2	1	1	1	3	2	2
AVERAGE BARCH310					2.29	2.29	1.86	1.00	1.43	1.00	1.86	1.29	
BARCH311 RIA-I 3201948 [SS]	CO1	BARC311.1	Students will understand the meaning and need of research, variables, ethics , Selection of samples ,research methodology and its types.	CO1	3	3	0	2	0	1	3	3	3
	CO2	BARC311.2	Students will select and define the selected research topic and narrowing it down to further a final topic.	CO2	3	3	0	1	0	1	3	3	3
	CO3	BARC311.3	Students will carry out the literature review of 5 research papers on their selected topic.	CO3	3	3	0	2	0	0	3	3	3
	CO4	BARC311.4	Students will review case studies, qualitative and quantitative data collection, various tools need to be used as per their selected topic.	CO4	3	2	1	2	2	1	3	3	3
	CO5	BARC311.5	Students will create a research proposal including framing of Abstract, Aim and objective Scope of work of their selected topic.	CO5	3	1	1	3	0	1	3	3	3
AVERAGE BARCH311					3.0	2.4	0.4	2.0	0.4	0.8	3.0	3.0	
BARCH312 Elective-II 3201949 [SS]	CO1	BARC312.1	At the End of the Course Student will be analyze and define their selected research area in comparison with other given topic.	CO1	3	2	3	2	2	2	1	2	2
	CO2	BARC312.2	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	CO2	3	3	3	2	3	3	2	2	2
	CO3	BARC312.3	At the End of the Course Student will review research paper review	CO3	3	3	3	2	0	2	2	2	2
	CO4	BARC312.4	At the End of the Course Student will review Case Study, qualitative and quantitative data collection	CO4	3	3	3	2	0	0	2	3	3
	CO5	BARC312.5	At the End of the Course Student will create a inferences , conclusion and some topic can be in form of proposal	CO5	3	3	3	2	2	2	2	2	2
AVERAGE BARCH312					3	2.8	3	2	1.4	1.8	1.8	2.2	



PO Target Master Sheet, CO-PO mapping

IMPORTANT NOTE: (a) Mapping Level (ML) against each PO to be given as below: It is not necessary that each CO is mapped to each PO.

- 3 **Excellent**
- 2 **Good**
- 1 **Average**
- 0 **Not related**

(b) POs have to referred from 2019 Pattern and same to be assumed for 2015 Pattern

A.Y. 2021-22, Term II				Year & Div.: Third Year - A, B & C batch								
Subject	Course Outcome No.	CO Code No.	Statement	CO No.	CO-PO Mapping							
					PO1 ML	PO2 ML	PO3 ML	PO4 ML	PO5 ML	PO6 ML	PO7 ML	PO8 ML
BARCH313 BS-IV 3201950 [PP] 3201951 [SS]	CO1	BARCH313.1	Students will learn about sound properties. Planning and design to control outdoor noise and indoor noise. About different acoustical material & its application	CO1	3	3	2	2	1	0	2	2
	CO2	BARCH313.2	Students will learn parameters of good acoustical conditions and design techniques to control air and structure born noise	CO2	3	3	1	2	1	0	2	2
	CO3	BARCH313.3	Students will learn to calculate Reverberation time calculation, acoustical treatment and different sound amplification systems	CO3	3	3	2	2	2	0	2	3
	CO4	BARCH313.4	Students will understand and learn about the passive strategies of fire prevention	CO4	3	3	2	2	3	2	2	3
	CO5	BARCH313.5	Students will learn Exit requirements, egress components Compartmentalisation, provision for basements, gas supply, fire detection and alarm in high rise bldg.	CO5	3	3	2	2	3	2	2	3
	CO6	BARCH313.6	students will learn about active strategies fire prevention	CO6	3	3	2	2	3	2	2	3
AVERAGE BARCH313					3.0	3.0	1.8	2.0	2.2	1.0	2.0	2.7
BARCH314 WD-II 3201952 [SS]	CO1	BARCH314.1	Students will Learn to represent working drawing using standard practices, conventions, graphic annotations, sequencing and cross reference systems of a good working drawing set.	CO1	2	2	0	3	1	1	3	1
	CO2	BARCH314.2	Students will show Design development and detailing of own design to resolve the design idea	CO2	2	1	2	2	0	1	3	0
	CO3	BARCH314.3	students will execute their design ideas in working drawing considering the construction parameters, limitation and sequencing	CO3	2	2	3	3	1	1	3	1
	CO4	BARCH314.4	students will generate a working drawing set for the chosen design/ building	CO4	2	2	3	3	3	3	3	3
	CO5	BARCH314.5	students will understand framed/composite construction including schedules of material, finishes, components and accessories	CO5	3	1	0	3	3	1	3	1
	CO6	BARCH314.6	Students will Develop and draft details of Civil work & Building Components.	CO6	2	2	0	3	3	2	3	0
	CO7	BARCH314.7	students will generate interior design drawings including schedule of finishing details	CO7	2	2	3	3	3	3	3	3
AVERAGE BARCH314					2.14	1.71	1.57	2.86	2.00	1.71	3.00	1.29

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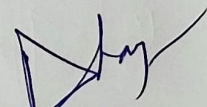
PO Target Master Sheet, CO-PO mapping

IMPORTANT NOTE: (a) Mapping Level (ML) against each PO to be given as below: It is not necessary that each CO is mapped to each PO.

- 3 Excellent
- 2 Good
- 1 Average
- 0 Not related

(b) POs have to refered from 2019 Pattern and same to be assumed for 2015 Pattern

A.Y. 2021-22, Term II				Year & Div.: Fourth Year - A & B batch (2015 Pattern)									
Subject	Course Outcome No.	CO Code No.	Statement	CO No.	CO-PO Mapping								
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
					ML	ML	ML	ML	ML	ML	ML	ML	
BARCH409 Design VIII 4201562 [SV]	CO1	BARCH409.1	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.	CO1	3	3	2	2	2	1	1	1	
	CO2	BARCH409.2	This Study will Students to learn rules and regulation and site analysis for the Draft Development Plan.	CO2	3	3	2	2	3	3	3	3	
	CO3	BARCH409.3	This Study will help student to understand architectural design of a component/s of the neighborhood study at City Level, Community Level, Local Level, Community participation initiatives	CO3	2	2	2	3	3	3	3	3	
	CO4	BARCH409.4	Students will understand the challenges 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.	CO4	2	2	2	3	3	3	3	3	
	CO5	BARCH409.5	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.	CO5	2	2	3	3	3	3	3	3	
AVERAGE BARCH409					2.6	2.4	2.2	2.6	2.8	2.6	2.6	2.6	
BARCH410 ABTS-II 4201563 [SV]	CO1	BARCH410.1	Student will able to design an auditorium using the data collected from study of standards and case studies	CO1	3	3	3	3	3	2	3	2	
	CO2	BARCH410.2	Students will be able to their own construction working details to an appropriate scale for the Proposed Auditorium designed in Unit 1, with the help of market survey. Out of five, one detail shall comprise of provisions for differently abled people.	CO2	3	1	3	3	2	0	2	2	
	CO3	BARCH410.3	Students will be able to comprehend advanced structural systems employed in several high rise buildings under different loading conditions through model making	CO3	3	3	0	1	3	3	3	2	
	CO4	BARCH410.4	Students will be able to comprehend advanced structural systems and advanced services that help functioning of high rise buildings through case studies	CO4	3	3	1	0	3	0	3	2	
	CO5	BARCH410.5	Students will be able to design their own curtain wall system for 1 external facade for the Proposed Auditorium in Unit 1.	CO5	3	3	3	2	0	1	3	2	
	CO6	BARCH410.6	Students will be able to make decisions for material selection as per detailing for Curtain walls from market survey	CO6	3	3	3	3	3	1	3	1	
AVERAGE BARCH410					3.00	2.67	2.17	2.00	2.33	1.17	2.83	1.83	
BARCH411 PP-II 4201564 [PP]	CO1	BARCH411.1	Students will learn the introduction to Construction Management - Types and Systems of Tendering - Open and Invited Tenders - Pre-Qualification and Empanelment procedures - Selection of Contractors.	CO1	3	3	0	3	3	0	3	3	
	CO2	BARCH411.2	Introduction to Contracts - Articles of Agreement and Conditions of Contract (IIA document) Contents of a Tender - Terms of Reference - Specifications - Bill of Quantities - Billing, Measurement of work and Payments - Advances and recovery - Bonus and Penalties, etc	CO2	3	3	0	3	3	0	3	2	
	CO3	BARCH411.3	Introduction to National Building Code - ISI Codes and Standards, Limits and Tolerances.	CO3	3	3	0	0	0	0	3	1	
	CO4	BARCH411.4	Students will learn the role of Architects in Construction / Site management - Supervision and monitoring of Speed, Quality and Economy - Status on project sites - Meetings, Minutes, Instructions & Records.	CO4	3	3	0	2	3	0	3	1	
	CO5	BARCH411.5	General Introduction to the Role and Legal duties of Architects in Arbitration and Valuation.	CO5	3	3	0	3	0	0	2	2	
AVERAGE BARCH411					3.00	3.00	0.00	2.20	1.80	0.00	2.80	1.80	
BARCH412 US-II 4201565 [SS]	CO1	BARCH412.1	Students will learn the theoretical knowledge of aspects involved in urban study process such as Survey, analysis, proposals and development.	CO1	3	3	0	1	0	0	1	0	
	CO2	BARCH412.2	Students will learn the theoretical knowledge of Urban Planning legislation such as town planning acts, building bylaws, city conservation.	CO2	3	3	0	1	0	0	1	0	
	CO3	BARCH412.3	students will learn theoretical knowledge of urban economics such as demand and supply, housing finance, Government schemes and various bodies etc	CO3	3	3	0	1	0	0	1	0	
	CO4	BARCH412.4	students will be able to study the existing town and town planning proposals for municipal council level town-(group work)	CO4	2	2	3	3	3	3	3	3	
	CO5	BARCH412.5	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	CO5	2	2	3	3	3	3	3	3	
AVERAGE BARCH412					2.6	2.6	1.2	1.8	1.2	1.2	1.8	1.2	



PO Target Master Sheet, CO-PO mapping

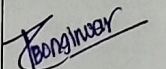
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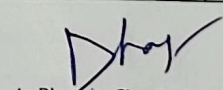
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- 3 Excellent
- 2 Good
- 1 Average
- 0 Not related

(b) POs have to referred from 2019 Pattern and same to be assumed for 2015 Pattern

A.Y. 2021-22, Term II				Year & Div.: Fourth Year - A & B batch (2015 Pattern)								
Subject	Course Outcome No.	CO Code No.	Statement	CO-PO Mapping								
				CO No.	PO1 ML	PO2 ML	PO3 ML	PO4 ML	PO5 ML	PO6 ML	PO7 ML	PO8 ML
BARCH413 RIA-II 4201566	CO1	BARCH413.1	Student will understand how to collect authentic data for research work as well analysis of data using certain matrix or statics.	CO1	2	2	1	3	2	3	2	3
	CO2	BARCH413.2	Student will understand how to write & Present the data using various techniques (verbal, visual, graphical, numerical based on research topic & type.	CO2	2	2	1	2	1	3	2	3
	CO3	BARCH413.3	Students will understand & analysis the data obtained through literature review as per their topic.	CO3	3	2	1	3	1	2	2	2
	CO4	BARCH413.4	Students will review the data collection- qualitative & quantitative data collection	CO4	3	3	2	3	1	2	2	3
	CO5	BARCH413.5	Students will reframe a question related to their selected topic and start to write research paper draft	CO5	3	3	3	3	1	3	3	3
	CO6	BARCH413.6	Students will select appropriate research methodology for their topic to produce a research paper	CO6	3	3	3	3	1	3	3	3
AVERAGE BARCH413					2.6	2.4	1.6	2.8	1.2	2.6	2.2	2.8
BARCH414 QSE-II 4201567 [PP]	CO1	BARCH414.1	Students will be introduced to Rate analysis in detail	CO1	3	2	1	3	0	0	2	0
	CO2	BARCH414.2	Students will be introduced to various costs, different typed of work and indent preparation	CO2	3	2	2	3	0	1	2	0
	CO3	BARCH414.3	Students will be Studying and Working out rate Analysis of standard items of work	CO3	3	3	1	1	1	0	3	1
	CO4	BARCH414.4	Students will be Studying and preparing Indent of Material of standard items of work	CO4	3	3	0	1	0	1	3	0
	CO5	BARCH414.5	Students will be Working out quantities for plumbing and sanitation items of work	CO5	3	3	1	2	1	0	3	1
	CO6	BARCH414.6	Students will be preparing measurement sheet and abstract for all items of work.	CO6	3	3	1	2	0	1	3	0
	CO7	BARCH414.7	Students will be Working out quantities for Industrial structure with steel Truss and sheet roofing	CO7	3	3	1	2	0	1	3	0
AVERAGE BARCH415					3	2.6	1	2	0.4	0.4	2.6	0.4
BARCH415 SW-II 4201568 [PP]	CO1	BARCH415.1	Students will be explained importance of specifications in contract document for any construction project	CO1	3	2	2	3	2	2	3	0
	CO2	BARCH415.2	Students will be preparing Checklist for any construction project	CO2	3	3	3	3	1	0	2	1
	CO3	BARCH415.3	Students will be introduced to Techniques & methods of writing different types of specifications of different items of works in construction.	CO3	2	3	3	2	2	0	2	1
	CO4	BARCH415.4	Students will be introduced to methodology of writing specifications for service installations of different items of work in construction.	CO4	2	2	3	3	2	0	2	0
	CO5	BARCH415.5	Students will be introduced to Different Building trades scope & contents	CO5	3	3	2	2	1	1	2	2
AVERAGE BARCH415					2.6	2.6	2.6	2.6	0.6	0.6	2.2	0.8
BARCH416 Elective-III 4201569 [PP]	CO1	BARCH416.1	Student will study different research paper, book to brain storm about the different topics of their interest, to finalize their topic.	CO1	3	2	2	3	0	1	2	3
	CO2	BARCH416.2	Other than the specified subject in syllabus student will get opportunity to try and learn something new of their choice and it will encourage student to do research in that and to gain theoretical and practical knowledge to apply it in practice.	CO2	3	2	3	3	0	2	3	3
	CO3	BARCH416.3	Students will present their work in class which will help students to gain knowledge of different topic all together such as planning and architectural theories , research and data collection methodology etc.	CO3	2	2	2	2	3	2	2	2
	CO4	BARCH416.4	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.	CO4	3	3	2	1	1	3	3	3
	CO5	BARCH416.5	Student will be able to present their work in form of research paper, design proposal, which can be idea based or design based solution.	CO5	2	2	3	3	0	3	3	3
AVERAGE BARCH416					2.6	2.2	2.4	2.4	2.2	2.2	2.6	2.8


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PO Target Master Sheet, CO-PO mapping

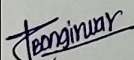
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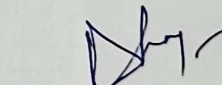
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- 3 **Excellent**
- 2 **Good**
- 1 **Average**
- 0 **Not related**

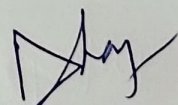
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A.Y. 2021-22, Term II				Year & Div.: Fifth Year - A, B & C batch (2015 Pattern)									
Subject	Course Outcome No.	CO Code No.	Statement	CO No.	CO-PO Mapping								
					PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	
					ML	ML	ML	ML	ML	ML	ML	ML	ML
BARCH502 Elective IV 5201572 [SS]	CO1	BARCH502.1	Student will select and finalise a topic based on their interest areas from the topics prescribed in syllabus	CO1	3	3	0	3	3	3	3	3	3
	CO2	BARCH502.2	Students will be exposed to different aspects of selected management topics.	CO2	3	3	2	2	3	2	3	3	3
	CO3	BARCH502.3	Students will study each aspect of topic in detail and present it in group	CO3	3	3	3	3	3	2	3	3	3
	CO4	BARCH502.4	Students will study research papers to understand and analyze the depth and research problems under their selected topics	CO4	3	3	2	2	3	2	2	3	3
	CO5	BARCH502.5	Students will undergo live case study exercise where they will be exposed to practical aspects of management	CO5	3	3	3	3	3	3	3	3	3
AVERAGE BARCH502					3	3	2	2.6	3	2.4	2.8	3	
BARCH503 ADP 5201573 [SV]	CO1	BARCH503.1	Student will select and finalise a topic based on there interest areas and from the different typologies like resorts, hospitals, residenatial buildings, IT parks, etc	CO1	3	3	0	3	3	3	3	3	3
	CO2	BARCH503.2	Students will identify and analyse case studies of there selected topics concluding in comparative analysis, study of standards and will identify different options of site for there project and fianlise and carry a detailed site investigation.	CO2	3	3	1	3	3	3	3	3	3
	CO3	BARCH503.3	Students will develop a programme for there own project based on case studies and study of prevalent UDCPR and NBC 2016 byelaws	CO3	3	3	1	3	3	3	3	2	2
	CO4	BARCH503.4	Students will develop concepts, zoning, single line plans and block sections with block model wrt site	CO4	3	3	3	3	0	2	3	3	3
	CO5	BARCH503.5	Students will evolve their designs into fucntional and sensible plans with appropriately planned approaches, structural system, services, landscape development,etc. on site	CO5	2	3	3	3	0	2	3	3	3
	CO6	BARCH503.6	Students will build out sections and elevations with 3d views from the finalised plans	CO6	2	3	3	3	0	2	3	3	3
	CO7	BARCH503.7	To present the entire project in the viva-voce exam along with drawings and models in a systematic manner	CO7	3	3	0	2	0	2	3	2	2
AVERAGE BARCH503													


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2.6.2

Attainment of POs and COs are evaluated

- **M Arch CO-PO Target Attainment**



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PO Target Master Sheet, CO-PO mapping

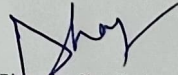
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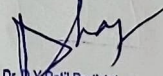
- 3 Excellent
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- 1 Average
- 0 Not related

A.Y. 2021-22, Term II				Year & Div.: First Year M. Arch (2019 Pattern)					
Subject	Course Outcome No.	CO Code No.	Statement	CO-PO Mapping					
				CO No.	PO1	PO2	PO3	PO4	PO5
					ML	ML	ML	ML	ML
MARCH201 Construction Management - Risk, Communication and Resource 2019CM201	CO1	MARCH201.1	Students will study risk management process through live case study	CO1	3	0	0	0	0
	CO2	MARCH201.2	Students will learn resource management and its application in a project	CO2	3	0	0	0	0
	CO3	MARCH201.3	Students will learn complete PIMS relating to a live project	CO3	3	0	0	0	0
AVERAGE MARCH201					3				
MARCH202 Elective II 2019CM202	CO1	MARCH202.1	Student will select and finalise a topic based on their interest areas from the topics prescribed in syllabus	CO1	0	0	0	0	0
	CO2	MARCH202.2	Students will study research papers to understand and analyze the depth and research problems under their selected topics	CO2	0	0	3	2	0
	CO3	MARCH202.3	Students will study book case study exercise where they will be exposed to practical aspects of the selected topic	CO3	0	0	3	2	0
	CO4	MARCH202.4	Students will undergo live case study exercise where they will be exposed to practical aspects of the selected topic	CO4	0	0	3	2	0
AVERAGE MARCH202					0	0	2.25	1.5	0
MARCH203 Real Estate Development & Facilities Management 2019CM203	CO1	MARCH203.1	Students will study Planning norms for various Services & Utilities	CO1	0	0	0	3	0
	CO2	MARCH203.2	Students will study organization structures of services management	CO2	0	0	0	3	0
	CO3	MARCH203.3	Students will study Real estate consultants and their activities,	CO3	0	0	0	3	0
	CO4	MARCH203.4	Students will study principal functions of real estate participant and stakeholders	CO4	0	0	0	3	0
	CO5	MARCH203.5	Students will study Real Estate investment, sources and related issues	CO5	0	0	0	3	0
	CO6	MARCH203.6	Students will study Code of ethics for Real Estate participants.	CO6	0	0	0	3	0
	CO7	MARCH203.7	Students will study Environmental issues related to Real Estate transactions	CO7	0	0	0	3	0
AVERAGE MARCH203					0	0	0	3	0
MARCH204 Advance Building Construction Technology & Services 2019CM204	CO1	MARCH204.1	Students will be exposed to all aspects of precast and pre-stressed concrete	CO1	0	2	2	3	3
	CO2	MARCH204.2	Students will be exposed to all aspects of prefabricated and offsite technologies	CO2	0	2	2	3	3
	CO3	MARCH204.3	Students will be introduced to structural system concepts and design process methodology	CO3	0	3	2	3	3
	CO4	MARCH204.4	Students will be exposed to advanced HVAC system with on site study	CO4	0	2	2	3	3
	CO5	MARCH204.5	Students will be exposed to advanced electrical/LV and BMS with on live site case study and market survey	CO5	0	3	2	3	3
	CO6	MARCH204.6	Students will study in group a live case study for Unit 6 topics	CO6	0	3	2	3	3
AVERAGE MARCH204					0	2.5	2	3	3
MARCH205 Research I 2019CM205	CO1	MARCH205.1	Students will study the theory of research	CO1	0	3	1	3	0
	CO2	MARCH205.2	Students will identify the research area and will develop research proposal	CO2	0	3	1	3	0
	CO3	MARCH205.3	Student will study the literature and literature sourcing	CO3	0	3	1	3	0
	CO4	MARCH205.4	Students will study different methods of data collection and sampling	CO4	0	3	1	3	0
	CO5	MARCH205.5	Students will be exposed to procedure of data analysis and results	CO5	0	3	1	3	0
	CO6	MARCH205.6	Students will be exposed to procedure of derivation of conclusion	CO6	0	3	1	3	0
AVERAGE MARCH205					0	3	1	3	0
MARCH206 Softlab II 2019CM206	CO1	MARCH206.1	Students will explore MSP and Primavera softwares	CO1	0	3	0	0	2
	CO2	MARCH206.2	A project will be executed and completed in the lab for hands on experience	CO2	0	3	0	0	2
	CO3	MARCH206.3	Student will study implement Cost planning in the project	CO3	0	3	0	0	2
	CO4	MARCH206.4	Students will understand and learn to cost control in software	CO4	0	3	0	0	2
	CO5	MARCH206.5	Students will be exposed to site information management through software	CO5	0	3	0	0	2
AVERAGE MARCH206					0	3	0	0	2


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
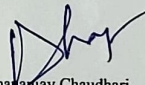
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PO Target Master Sheet, CO-PO mapping

IMPORTANT NOTE:

(a) Mapping Level (ML) against each PO to be given as below: It is not necessary that each CO is mapped to each PO.

3	Excellent
2	Good
1	Average
0	Not related

A.Y. 2021-22, Term II				Year & Div.: Second Year M. Arch (2019 Pattern)					
Subject	Course Outcome No.	CO Code No.	Statement	CO No.	CO-PO Mapping				
					PO1	PO2	PO3	PO4	PO5
					ML	ML	ML	ML	ML
MARCH401 Project 2019CM401	CO1	MARCH401.1	Students will finalize the topic of their interest and submit their synopsis	CO1	3	1	3	3	3
	CO2	MARCH401.2	Students will discuss the preliminary study of their project and develop the methodology for their research	CO2	3	1	3	3	3
	CO3	MARCH401.3	Student will perform the literature study to understand the research problem	CO3	3	1	3	3	3
	CO4	MARCH401.4	Students will perform case studies live, book, internet relevant to the topic	CO4	3	1	3	3	3
	CO5	MARCH401.5	Students will collect data required for their reseach through interviews , surveys, questionnaire, etc	CO5	3	1	3	3	3
	CO6	MARCH401.6	Students will derive their analysis of study	CO6	3	1	3	3	3
	CO7	MARCH401.7	Students will derive conclusion based on their resaerch and give recommendations	CO7	3	1	3	3	3
AVERAGE MARCH401					3	1	3	3	3
MARCH402 Elective III 2019CM402	CO1	MARCH402.1	Student will select and finalise a topic based on their interest areas from the topics prescribed in syllabus	CO1	0	0	3	0	0
	CO2	MARCH402.2	Students will study each aspect of topic in detail and present it in group	CO2	1	0	3	2	2
	CO3	MARCH402.3	Students will study research papers to understand and analyze the depth and research problems under their selected topics	CO3	1	0	3	2	1
	CO4	MARCH402.4	Students will study book case study excercise where they will be exposed to practical aspects of the selected topic	CO4	2	0	3	2	1
	CO5	MARCH402.5	Students will undergo live case study excercise where they will be exposed to practical aspects of the selected topic	CO5	2	1	3	2	2
	CO6	MARCH402.6	Students will conclude their topic with their outcome of overall study	CO6	2	2	3	2	2
AVERAGE MARCH402					1.33	0.50	3.00	1.67	1.33
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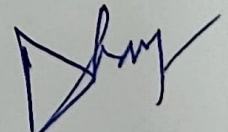


2.6.2

Attainment of POs and COs are evaluated

- **Sample CO-PO Attainment**

COURSE EXIT SURVEY		No. of questions - 07				
Subject- Architectural Design V		SUBJECT CODE - 3201944				
ACADEMIC YEAR -2021-22		No. of students submitted form - 26/38				
We are interested in your assessments of course. This survey will help to identify areas where changes and improvements are needed.						
General Instructions:						
1	Give careful consideration to the survey.					
2	Provide specific comments and suggestions for changes and improvements.					
3	Your identity will remain anonymous in any reports that are produced from this survey.					
	Name (OPTIONAL)					
C01	I was able to identify and examine various types Building services in different typology of buildings like Hotels, Hospitals, Office buildings, malls, etc.	Marginal	Adequate	Proficient/ skilled	Advanced	Average
		1	11	12	2	60.58
C02	I was able to identify and analyse case studies of Shopping mall concluding in comparative analysis and study of standards	Marginal	Adequate	Proficient/ skilled	Advanced	Average
		2	4	19	1	56.73
C03	I was able to develop a programme for shopping mall based on case studies, identify appropriate site and study of prevalent UDCPR and NBC 2016 byelaws	Marginal	Adequate	Proficient/ skilled	Advanced	Average
		2	10	14	0	63.46
C04	I was able to develop concepts, zoning, single line plans and block sections with block model wrt site	Marginal	Adequate	Proficient/ skilled	Advanced	Average
		0	10	13	3	56.73
C05	I was able to evolve their designs into functional and sensible plans with appropriately planned approaches, services, etc. on site	Marginal	Adequate	Proficient/ skilled	Advanced	Average
		1	9	14	2	58.65
C06	I was able to buildout sections and elevations with 3d views from the finalised plans	Marginal	Adequate	Proficient/ skilled	Advanced	Average
		2	8	14	2	59.62
C07	I was able to solve the time bound design paper	Marginal	Adequate	Proficient/ skilled	Advanced	Average
		0	7	13	6	50.96



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CO ATTAINMENT

ACADEMIC YEAR - 2021-22	Architectural Design V				SUBJECT CODE- 3201944		
CO→	CO1	CO2	CO3	CO4	CO5	CO6	CO7
Assessment tools							
Direct Assessment							
Internal Assessment (CIE)							
CIE 1	2.00						
CIE 2		3.00					
In Sem Exam/ Quiz/ Journal / Pedagogy	3.00	3.00					
CIE 3			3.00				
Mid Term Submission	2.00	2.00	0.00	0.00	0.00		
CIE 4				3.00			
CIE 5					3.00		
CIE 6						2.00	
CIE 7							3.00
Final Submission	3.00	3.00	2.00	2.00	3.00	2.00	3.00
Average direct Assessment=	2.50	2.75	1.67	1.67	2.00	2.00	3.00
A = Internal attainment X 0.7 =	1.75	1.93	1.17	1.17	1.40	1.40	2.10
University exams (SEE)							
Semester End Sem Result	3.00	3.00	3.00	3.00	3.00	3.00	3.00
B = University Result X 0.3 =	0.90	0.90	0.90	0.90	0.90	0.90	0.90
CIE + End Sem Exam Avg. Attainment	2.75	2.88	2.33	2.33	2.50	2.50	3.00
Total Attainment -Direct Assessment D= (A+B)*.7	1.86	1.98	1.45	1.45	1.61	1.61	2.10
Indirect Assessment							
C = Course Exit Survey Attainment	3.00	2.00	3.00	2.00	2.00	2.00	2.00
Total Attainment -Indirect Assessment I= (C)*.3	0.90	0.60	0.90	0.60	0.60	0.60	0.60
CO Attainment = D+I	2.76	2.58	2.35	2.05	2.21	2.21	2.70
Average attainment of CO	2.31	2.28	1.90	1.75	1.91	1.91	2.40
OVERALL CO ATTAINMENT	2.06						
	CO1	CO2	CO3	CO4	CO5	CO6	CO7

PO Attainment = (CIA + End Sem Exam Avg. Attainment) x Map Value of CO-PO / 3

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	3	2	3	3	3	3	3
CO2	3	3	1	3	3	3	3	3
CO3	3	3	1	3	3	3	3	2
CO4	2	3	3	3	0	2	3	3
CO5	2	3	3	3	0	2	3	3
CO6	2	3	3	3	0	2	3	3
CO7	3	3	3	3	0	2	3	1
AVERAGE BARCH308 TARGET	2.57	3.00	2.29	3.00	1.29	2.43	3.00	2.57

CO1	2.31	2.31	1.54	2.31	2.31	2.31	2.31	2.31
CO2	2.28	2.28	0.76	2.28	2.28	2.28	2.28	2.28
CO3	1.63	1.90	1.45	1.90	0.81	1.54	1.90	1.63
CO4	1.16	1.75	1.75	1.75	0.00	1.16	1.75	1.75
CO5	1.27	1.91	1.91	1.91	0.00	1.27	1.91	1.91
CO6	1.27	1.91	1.91	1.91	0.00	1.27	1.91	1.91
CO7	2.40	2.40	2.40	2.40	0.00	1.60	2.40	0.80
PO BARCH308 Attainment	1.76	2.06	1.67	2.06	0.77	1.63	2.06	1.80