



Pimpri Chinchwad Education Trust's S.B. Patil college of Architecture & Design



Year & Div.: Third Year - A & B AY: 2020-21

Subject	Course Outcome		
	CO No.	Statement	
ARC301 Design V 3201535	CO 1	ARC301.1	Understand Design of Campus comprising of more than one building and evolving design in response to the site, its characteristics and the context.
	CO 2	ARC301.2	Understand Designing of buildings with different functions, requiring spaces of different scales and employing suitable structural systems.
	CO 3	ARC301.3	Undertake programming research to understand the socio-cultural patterns, geographic context and address the needs of the users and the site and evolve a sustainable design.
	CO 4	ARC301.4	Creation and design of open spaces within the campus with spatial relationship
	CO 5	ARC301.5	Modular planning, grid planning and coordination of various grids in plan and three dimensions.
	CO 6	ARC301.6	Conceptualize services such as storm water management, locations of water tanks, sewage disposal system, etc.
	CO 7	ARC301.7	
ARC302 Building Technology and Materials-V 3201537(SV), 3201536(PP)	CO 1	ARC302.1	Understand the variations in frame structure with options of different types of slab
	CO 2	ARC302.2	Understand the pre-stressed RCC technology.
	CO 3	ARC302.3	Understand various structural system to be employed for long span structures.
	CO 4	ARC302.4	introduce materials and technology of assembling interior elements like partitions
	CO 5	ARC302.5	introduce materials and technology of assembling interior elements like suspended ceiling
	CO 6	ARC302.6	Introduce materials and technology of assembling interior elements like furniture
	CO 7	ARC302.7	
ARC303 THEORY OF STRUCTURE V 3201538(PP)	CO 1	ARC303.1	Analyze and Design of Dog Legged Staircase with Beams at Various Positions using Limit State Method as per guidelines given in Indian Standard Code.
	CO 2	ARC303.2	Analyze and design doubly reinforced beam and Intermediate Beams concrete section subjected to

			flexure using Limit State Method as per guidelines given in Indian Standard Code.
	CO 3	ARC303.3	Analyze and Design of One Way Continuous Slabs - 3 equal spans using I.S.456 Coefficients.
	CO 4	ARC303.4	Analyze and design reinforced concrete Columns section across Vertical Floors subjected to gravity loads using Limit State Method as per guidelines given in Indian Standard Code.
	CO 5	ARC303.5	Understand basic concepts, prestressing systems, applications, prestress losses of prestressed concrete section and calculate the resultant stress in prestressed concrete section subjected to flexure using stress concept at transfer of prestressing force and at service condition.
	CO 6	ARC303.6	Understand the basic concepts in Flat Slab Construction.
	CO 7	ARC303.7	Design reinforced concrete isolated and combined column footing subjected to gravity loads using Limit State Method as per guidelines given in Indian Standard Code.
ARC304 LANDSCAPE ARCHITECTURE I 3201539(SS)	CO 1	ARC304.1	Introduce the students to Landscape Architecture and its scope.
	CO 2	ARC304.2	Understand the elements and principles of landscape design
	CO 3	ARC304.3	Understand the role of landscape elements in design of outdoor environments on the site.
	CO 4	ARC304.4	Introduce the students to various traditions in designed and vernacular landscapes.
	CO 5	ARC304.5	Develop understanding of site analysis and site planning and integrated design of open and built spaces.
	CO 6	ARC304.6	Creating awareness about using Landscape design as a tool to address environmental concerns in Architecture.
	CO 7	ARC304.7	
ARC305 BUILDING SERVICES III 3201540 (SS) 3201541(PP)	CO 1	ARC305.1	To understand technical and design aspects of natural ventilation and HVAC
	CO 2	ARC305.2	To understand environmental aspects as principles of working, components, construction and materials of natural ventilation and HVAC system

	CO 3	ARC305.3	To understand Functional and aesthetical aspects of services layout for comprehensive architectural design.
	CO 4	ARC305.4	To understand practical parameters while designing services
	CO 5	ARC305.5	To understand integration of services with other building components
	CO 6	ARC305.6	To understand the specifications and market values of services
	CO 7	ARC305.7	
ARC306 History of Architecture IV 3201542 (SS)	CO 1	ARC306.1	Students will understand the Industrial revolution and the resulting architecture of eighteenth, and nineteenth century in Europe with the help of various structures
	CO 2	ARC306.2	Students will understand Revival architecture in Europe and America with the help of various Architects & structures
	CO 3	ARC306.3	Students will understand Colonial Architecture in India with the help of various structures
	CO 4	ARC306.4	Students will understand Early Modern movements
	CO 5	ARC306.5	Students will understand Modernism, International style, and influence of Bauhaus with the help of various Architects & structures
	CO 6	ARC306.6	Students will understand Post-independence Architecture in India till 1990 with the help of various Architects & structures
	CO 7	ARC306.7	Students will understand Post liberalization Architecture in India with the help of various Architects & structures
ARC307 WORKING DRAWING II 3201543(SS)	CO 1	ARC307.1	To understand thr idea of Design Development and detailing.
	CO 2	ARC307.2	To understand its relevance in converting 'concept design' to working drawing and hence the realization of design on site.
	CO 3	ARC307.3	To understand the importance of working drawings as an essential tool for effective site execution.
	CO 4	ARC307.4	To understand the execution of a building contract.
	CO 5	ARC307.5	To expose to the standard methods, conventions, drawing annotations including International standards, IS codes
	CO 6	ARC307.6	its application in working drawing set with material and component and schedules.

	CO 7	ARC307.7	
ARC308 Design VI 3201544(SV),32 01545(PP)	CO 1	ARC308.1	To understand various concerns of building design in an urban context on sites with limited areas there by necessitating multi storied buildings.
	CO 2	ARC308.2	To understand Strengths and weaknesses of horizontal vis a vis vertical spatial arrangements in buildings.
	CO 3	ARC308.3	Understand Design and layering of different activity areas with different spatial scales.
	CO 4	ARC308.4	Understand the Coordination of various building services such as water supply, lifts, drainage, garbage disposal, lighting, air conditioning etc.
	CO 5	ARC308.5	To understand natural disaster management or disaster management through design mitigation.
	CO 6	ARC308.6	To understand Universal Design or Accessible Design concept.
	CO 7	ARC308.7	
ARC309 Building Technology and Materials-VI 3201546(PP), 3201547(SV)	CO 1	ARC309.1	Understand the construction of basement along with its waterproofing, provision for access and ventilation details.
	CO 2	ARC309.2	Understand the construction of different types of retaining walls and the detailing of the same.
	CO 3	ARC309.3	Understand issues and construction of earthquake resistant frame structures
	CO 4	ARC309.4	Understand the concept of modular co-ordination
	CO 5	ARC309.5	Understand the concept of precast technology in Industrial building
	CO 6	ARC309.6	Understand introduction to steel structures and detailing of trusses and deck floors.
	CO 7	ARC309.7	
ARC310 THEORY OF STRUCTURE VI 3201548(PP)	CO 1	ARC310.1	Analyze and Design of Retaining Walls.
	CO 2	ARC310.2	Analyze and Design of Water Tank.
	CO 3	ARC310.3	Understand Concept of Portal Frames.
	CO 4	ARC310.4	Design and Demonstrate ground + two storied RCC building.
	CO 5	ARC310.5	Understand Plastic Design and Analyze and Design structural members in steel Structures by using LSM.
	CO 6	ARC310.6	Design and Demonstrate gmedium span factory building in steel.

	CO 7	ARC310.7	Understand Advance structural systems for long span and high rise buildings.
ARC311 LANDSCAPE ARCHITECTURE II 3201549(SS)	CO 1	ARC311.1	Study use of Landscape design as a tool to address environmental concerns in Architecture.
	CO 2	ARC311.2	Application of site planning principles in landscape design
	CO 3	ARC311.3	Understanding integrated design of open and built spaces.
	CO 4	ARC311.4	Study the work of Master Landscape Architects
	CO 5	ARC311.5	Study of landscape architects contribution to built environment
	CO 6	ARC311.6	Study of application on Landscape services
	CO 7	ARC311.7	
ARC312 BUILDING SERVICES IV 3201550 (SS) 3201551(PP)	CO 1	ARC312.1	To understand building services as integral part of comprehensive architectural design
	CO 2	ARC312.2	To understand fire safety measures and aspects of good acoustics and treatment in comprehensive architectural design
	CO 3	ARC312.3	To understand Active and passive criteria as norms, recommendations, components, and specifications of construction and materials used for fire-fighting system in a building
	CO 4	ARC312.4	Understand Properties of sound, Technical aspects of acoustic layout for comprehensive architectural design.
	CO 5	ARC312.5	Understand Comprehensive architectural design for both firefighting and acoustics
	CO 6	ARC312.6	To understand the specifications and market values of services
	CO 7	ARC312.7	
ARC313 CONTEMPORAR Y ARCHITECTURE SEMINAR 3201552 (SS)	CO 1	ARC313.1	To acquaint students with the most important Movements & Philosophies used in contemporary architecture.
	CO 2	ARC313.2	To understand the evolution process of architectural movements
	CO 3	ARC313.3	To equip students with skills in analyzing contemporary works of architecture and used in their planning & design.
	CO 4	ARC313.4	To develop the skills to evaluate the contemporary approaches and sink in with in the design practices.
	CO 5	ARC313.5	To develop critical & analytical thinking with respect to contemporary architecture.
	CO 6	ARC313.6	To enable the students to compete and justify in the current trends of the profession.
	CO 7	ARC312.7	

ARC314 ELECTIVE I – INTERIOR DESIGN 3201553(SS)	CO 1	ARC314.1	To enable students to comprehend relationship between Architecture and Interior
	CO 2	ARC314.2	To evolve understanding about Interior Design as a Space making disciplines
	CO 3	ARC314.3	To evolve understanding about thoughtful design of interior spaces
	CO 4	ARC314.4	Increase efficiency and add depth and meaning to the built environment.
	CO 5	ARC314.5	To enable students to comprehend the connection that the subject of Interior design has with other Design Disciplines Sustainability & Art.
	CO 6	ARC314.6	To enable students to comprehend the connection that the subject of Interior design has with other Design Disciplines Product design and Graphic design.
	CO 7	ARC314.7	

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