



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



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

Subject	Course Outcome		
	CO No.	Statement	
ARC401 DESIGN VII 4201554 (SV)	CO 1	ARC401.1	Students will be able to Design Campus comprising of more than one building and evolving design in response to the site, its characteristics and the context.
	CO 2	ARC401.2	The students will Design buildings with different functions, requiring spaces of different scales and employing suitable structural systems.
	CO 3	ARC401.3	The students shall provide learn to design Individual spaces for each resident. This will be categorized as per their income groups such as cottages, bungalows, row houses, semidetached and apartments including various recreational facilities based on socio economic context
	CO 4	ARC401.4	Students understand and learn to design barrier free spaces universal design
	CO 5	ARC401.5	Students understand and learn to movement and spaces as to achieve optimum efficiency. study traffic flow analyze vehicular and pedestrian movement Design vertical and horizontal circulation
	CO 6	ARC401.6	Students understand learn urban context relates to all nearby built and natural features, as well as social, economic and environmental factors that impact on a site. Relate, respond and contribute to local urban context
	CO 7	ARC401.7	Students understand and learn natural settings , microclimate , site topography and , plan built and un built spaces ,create landscape, considering environmental aspects
ARC402 ADVANCED BUILDING TECHNOLOGY AND SERVICES I 4201555 (SV)	CO 1	ARC402.1	The student will be able to study complex structural system in building construction
	CO 2	ARC402.2	The student will be able to understand the application of advanced technology in building construction.
	CO 3	ARC402.3	The student will be able to integrate the knowledge of advance structural systems and materials in their own design project
	CO 4	ARC402.4	The student will be able to analyze and develop their own architectural details.
	CO 5	ARC402.5	The student will be able to understand the complexity of services in advance building construction.

	CO 6	ARC402.6	The student will be able to apply his knowledge of advanced construction techniques and services.
	CO 7	ARC402.7	
ARC403 PROFESSIONAL PRACTICE I 4201556(PP)	CO 1	ARC403.1	To acquaint the Student with the Role and Stature of an Architect in Society,
	CO 2	ARC403.2	Students will understand the duties, responsibilities, liabilities and ethics as a professional.
	CO 3	ARC403.3	To acquaint the Student with the Scope and Avenues of professional Architectural services, and the demands and Mode of professional practice
	CO 4	ARC403.4	To prepare the Student for the professional field.
	CO 5	ARC403.5	To familiarize and prepare the Student with adequate knowledge of an Architect's office administration, documentation and procedures of office
	CO 6	ARC403.6	To prepare the Student site management to enhance his comprehension and utility during his professional training in the field in Semester IX.
	CO 7	ARC403.7	
ARC404 URBAN STUDIES-I 4201557 (SS)	CO 1	ARC404.1	Students should be able to understand the urban context of an Architectural Project beyond the site.
	CO 2	ARC404.2	Students should be able to understand the implications of various factors influencing the development of an urban area.
	CO 3	ARC404.3	Students should be able to understand urban planning and design theories.
	CO 4	ARC404.4	To educate students regarding concepts and enable them to undertake planning and design of large scale land development.
	CO 5	ARC404.5	Understand Designing of planning with respect to functions, climate , aesthetics ,circulations, services etc.
	CO 6	ARC404.6	To educate students regarding how apply different parameters / various aspects while planning ,
	CO 7	ARC404.7	
ARC405 RESEARCH IN ARCHITECTURE I 4201558 (SS)	CO 1	ARC405.1	Students should be able to understand regarding the importance of research and how it is helpful in planning & design
	CO 2	ARC405.2	To Enhance the learning experience in architecture with the help of learner centric education.
	CO 3	ARC405.3	Enabling students to explore the premises of architecture field and structure of research.

	CO 4	ARC405.4	To educate students, regarding how to conduct a research, its different methods, methodology including different variables.
	CO 5	ARC405.5	To develop critical & analytical thinking among the students.
	CO 6	ARC405.6	To enable students to select the research topic of their own choice & to develop research proposal for it.
	CO 7	ARC405.7	
ARC406 Quantity Surveying And Estimation - I 4201559 (PP)	CO 1	ARC406.1	To Introduce Quantity Surveying and Estimation as an important Subject for architecture.
	CO 2	ARC406.2	To enable students to understand accompaniments of estimate through necessary data
	CO 3	ARC406.3	To enable students to understand different methods of Computing Quantities for items of work in a structure.
	CO 4	ARC406.4	To enable students to understand the systematic process of working out quantities for load bearing structure
	CO 5	ARC406.5	To enable students to understand the systematic process of working out quantities for RCC framed structure
	CO 6	ARC406.6	To understand the various types of estimates used in general construction practices
	CO 7	ARC406.7	To understand concept of mode of measurement as stipulated in IS-1200
ARC407 Specification Writing I 4201560 (PP)	CO 1	ARC407.1	Students will know the importance of writing specifications in building construction
	CO 2	ARC407.2	Students will learn methodology of writing specifications with reference to building trades, materials, workmanship & performance of different types of works
	CO 3	ARC407.3	Students get to know the types of tenders having different specifications ,its advantages and where to use them
	CO 4	ARC407.4	Students learn the techniques & methods of writing specifications of different items in building construction
	CO 5	ARC407.5	Students will learn the importance of specifications in contract document
	CO 6	ARC407.6	Students will know technical & functional role of specifications in any construction project
	CO 7	ARC407.7	
ARC408 ELECTIVE II - DESIGN & TECHNOLOGY	CO 1	ARC408.1	Students study and understand building design considering Universal design ,barrier free design
	CO 2	ARC408.2	Students study and understand services and construction technology in High rise structures.

ELECTIVE 4201561(SS)	CO 3	ARC408.3	Students study and understand analyze different Design theories, Architectural work of that time, history, components.
	CO 4	ARC408.4	Students study and understand learn to design Modular Design, components, in architecture and Interiors.
	CO 5	ARC408.5	Students study and understand learn to design advances Landscapes, components, its significance.
	CO 6	ARC408.6	Students study and understand different Prefabricated & precast construction, components, its significance.
	CO 7	ARC408.7	Students study and understand learn different Architectural conservation, components, its significance.
ARC409 DESIGN VIII 4201562(SV)	CO 1	ARC409.1	Understand Design of Campus comprising of more than one high-rise building and evolving design in response to the site, its characteristics and the context.
	CO 2	ARC409.2	Understand Designing of high-rise towers, with respect to functions, climate, structure, aesthetics ,circulations, services etc.
	CO 3	ARC409.3	Creation and design of open spaces within the campus with spatial relationship
	CO 4	ARC409.4	Students understand and learn to design barrier free spaces universal design
	CO 5	ARC409.5	Students understand and learn to movement and spaces as to achieve optimum efficiency. study traffic flow analyze vehicular and pedestrian movement Design vertical and horizontal circulation
	CO 6	ARC409.6	Students understand learn urban context relates to all nearby built and natural features, as well as social, economic and environmental factors that impact on a site. Relate, respond and contribute to local urban context
	CO 7	ARC409.7	Students understand and learn natural settings , microclimate , site topography and , plan built and unbuilt spaces ,create landscape, considering environmental aspects
ARC410 ADVANCED BUILDING TECHNOLOGY AND SERVICES II 4201563 (SV)	CO 1	ARC410.1	The student will be able to study complex structural system in building construction
	CO 2	ARC410.2	The student will be able to understand the application of advanced materials in building construction.
	CO 3	ARC410.3	The student will be able to evaluate the impact of advancements in construction techniques on socio – economic aspects.
	CO 4	ARC410.4	The student will be able to integrate the knowledge of advance structural systems and materials in their own design

			project
	CO 5	ARC410.5	The student will be able to analyze and develop their own architectural details.
	CO 6	ARC410.6	The student will be able to understand the complexity of services in advance building construction.
	CO 7	ARC410.7	The student will be able to apply his knowledge of advanced construction techniques and services in his architectural career to develop safe and secure built environment.
ARC411 Professional Practice II 4201564 (PP)	CO 1	ARC411.1	To acquaint the Student with the Role and Stature of an Architect in Society
	CO 2	ARC411.2	Students to understand the duties, responsibilities, liabilities and ethics as a professional
	CO 3	ARC411.3	To acquaint the Student with Architectural services, and the demands and Mode of professional practice
	CO 4	ARC411.4	To prepare students for professional field
	CO 5	ARC411.5	To familiarize and prepare the Student with adequate knowledge of an Architect's office administration, documentation
	CO 6	ARC411.6	To be known about the procedures of office and site management to enhance his comprehension and utility during his professional training in the field in Semester IX
	CO 7	ARC411.7	
ARC412 Urban Studies- II 4201565 (SS)	CO 1	ARC412.1	Students should be able to understand the process of planning and its development in detail .
	CO 2	ARC412.2	Students should be able to understand various factors related to urban design controls.
	CO 3	ARC412.3	Students should be able to understand planning and urban design legislation and economics
	CO 4	ARC412.4	Understand Designing of planning with respect to functions, climate , aesthetics ,circulations, services etc.
	CO 5	ARC412.5	Creation and design of open spaces within the campus with spatial relationship
	CO 6	ARC412.6	To educate the students how to apply various rules and regulation at architecture and urban level
	CO 7	ARC412.7	
ARC413 Research in	CO 1	ARC413.1	Student understand and learn to do research on topic related to built environment.

Architecture II 4201566 (SS)	CO 2	ARC413.2	Student study and learn basics of technical writing of Research paper.
	CO 3	ARC413.3	Student understands and learns to participate in Research conference for students.
	CO 4	ARC413.4	To understand Data collection and Analysis methods preferably with use of statistics
	CO 5	ARC413.5	To understand Presentation of data using various techniques (verbal, visual, graphical, numerical)
	CO 6	ARC413.6	students learn Presentation of a research paper in form of a seminar
	CO 7	ARC413.7	
ARC414 Quantity Surveying And Estimation – II 4201567 (PP)	CO 1	ARC414.1	In introduce concept of rate analysis with factor affecting the rate for various building construction items
	CO 2	ARC414.2	To understand various components of project costing in building construction
	CO 3	ARC414.3	To understand systematic procedure of working out overhead charges for building construction project.
	CO 4	ARC414.4	To understand systematic procedure of preparing Rate Analysis to derive unit rate for various construction items.
	CO 5	ARC414.5	To understand method of preparing Indent of Material to derive quantities of materials required for various construction items.
	CO 6	ARC414.6	To enable students to understand process of working out quantities for plumbing and sanitation items of work.
	CO 7	ARC414.7	To enable students to understand process of working out quantities for Industrial structure
ARC415 Specification Writing II 4201568 (PP)	CO 1	ARC415.1	Students will learn the techniques & methods of writing different types of specifications of different items in building industry
	CO 2	ARC415.2	Students will know importance of writing specifications of different items of works in construction.
	CO 3	ARC415.3	Students will know the importance of checklist in specification writing
	CO 4	ARC415.4	Students will understand technical role of specifications in any construction project.
	CO 5	ARC415.5	Students will learn about functional role of specifications in any construction project.
	CO 6	ARC415.6	Students will learn methodology of writing specifications

			with reference to service installations of different items of work in construction.
	CO 7	ARC415.7	
ARC416 ELECTIVE III – ALLIED ELECTIVE 4201569 (SS)	CO 1	ARC416.1	Students will explore the allied fields, which makes impact on architectural work and practice.
	CO 2	ARC416.2	To educate students are regarding how to develop their skills in a Allied elective, its different methods, methodology including different variables.
	CO 3	ARC416.3	To develop critical & analytical thinking among the students.
	CO 4	ARC416.4	Enabling students to explore the premises of architecture field through their interested topic
	CO 5	ARC416.5	Students understand and learn to design barrier free spaces universal design in their interested topic
	CO 6	ARC416.6	To enable students to select the elective topic of their own choice & its application to make their career in future
	CO 7	ARC416.7	
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