



# MOHAMED SATHAK A.J. ACADEMY OF ARCHITECTURE

34, Old Mahabalipuram Road, IT Highway, Egattur, Chennai 603 103  
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<b>B. ARCH - R-2017</b>			
<b>Course Outcomes (CO), Program Outcomes (PO), Program Specific Outcomes (PSO)</b>			
<b>COURSE OUTCOMES (CO)</b>			
<b>FIRST SEMESTER B.ARCH</b>			
<b>S.NO</b>	<b>COURSE CODE AND COURSE NAME</b>	<b>COURSE OUTCOMES</b>	
1	AR8101 HISTORY OF ARCHITECTURE AND CULTURE I	CO1	An understanding about the spatial and stylistic qualities associated with architecture.
		CO2	An Understanding of architecture as an outcome of various social, political and economic upheavals, and as a response to the cultural and context.
2	MA8102 MATHEMATICS	CO1	The aim of the course is to develop the skills of the students in architecture. The students will be trained on the basis of the topics of Mathematics necessary for effective understanding of architecture subjects. At the end of the course, the students would have an understanding of the appropriate role of the mathematical concepts learnt.
3	AR8121 ARCHITECTURAL DRAWING I	CO1	Understanding of the concepts of architectural drawing as well as representation skills is imparted.
		CO2	Understanding on the building representation in 2D and 3D among students in addition to preparation of measured drawing

  
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4	HS8121 COMMUNICATI ON ENGLISH	CO1	Speak convincingly, express their opinions clearly, initiate a discussion, negotiate, and argue using appropriate communicative strategies.
		CO2	Read different genres of texts, infer implied meanings and critically analyze and evaluate them for ideas as well as for method of presentation.
		CO3	Listen/view and comprehend different spoken excerpts critically and infer unspoken and implied meanings.
		CO4	Write effectively and persuasively and produce different types of writing such as narration, description, exposition and argument as well as creative, critical, analytical and evaluative writing
5	AR8111 - ART STUDIO	CO1	The students are exposed to various mediums, techniques and tools.
		CO2	The students gain mastery in sketching, visualizing and expression through manual drawing.
		CO3	Sensitized to culture, craft and context.
		CO4	Skill Development in Handling Materials and in Making Products.
6	AR8112 - BASIC DESIGN	CO1	An understanding of the qualities of different elements as well as their composite fusions.
		CO2	An ability to engage and combine the elements of design in spontaneous as well as intentional ways in order to create desired qualities and effects.
		CO3	Development of required skills – observation / analysis / abstractions / interpretation / representations / expressions through models and drawings.
		CO4	Understanding by making

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## SECOND SEMESTER

1	AR8201 THEORY OF ARCHITECTUR E	CO1	Awareness of the totality and components of form in the creation of design.
		CO2	Ability to explore the visual/ cognitive language and grammar of the universal elements
		CO3	Ability to understand needs as encompassing functional, behavioural, cultural,
		CO4	Ability to engage awareness towards creating a morphology that fulfils stated intents
2	AR 8202-Mechanics of Structures I	CO1	Apply the concepts of action of forces on a body and should be able to apply the equilibrium concepts.
		CO2	Students are taught basic geometric properties and the behavior of materials under effect of forces.
3	AR 8221-Architectur al Drawing II	CO1	Ability to construct the 3d views and perspective drawings of the buildings.
		CO2	Understanding of advanced documentation and measured drawing techniques
5	AR 8222 - Building Materials and Construction I	CO1	Students learn construction details using naturally occurring building materials such as stone, bamboo, mud and lime through drawing as well as doing a literature or live case study. Students are to submit drawing plates consisting of technical plan, elevation and section along with sketches and details showing method of construction.
6	AR8211-MODE L MAKING AND	CO1	Exploration of conventional and less conventional techniques of representation in an attempt creative visualize and to understand drawings as vehicles of thinking.

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	ARCHITECTURAL DELINEATION	CO2	Versatility in making models ranging from study to presentation and in varying scales and materials.
7	AR8212-ARCHITECTURAL DESIGN I	CO1	The students shall understand the basic functional aspect of designing simple building types and its relevant spatial organization.
		CO2	The students shall be learn to reciprocate and sensitize the design/concept to the environment and the design skill of the project.
NOTE: Application of the knowledge gained in all the courses to be implemented in the Architectural Design studio projects of current and coming semesters & carrying it forward in Arch. Professional.			
<b>THIRD SEMESTER</b>			
1	AR8301-HISTORY OF ARCHITECTURE AND CULTURE II	CO1	An understanding of the diversity of architecture in India and sensitivity towards its syncretic aspects.
		CO2	Ability to appreciate particular cultural, symbolic, spatial and material qualities in architecture and cities as givers of meaning and continuity.
		CO3	Ability to appreciate universal qualities of architecture and their effects.
2	AR8302 - MECHANICS OF STRUCTURES II	CO1	Ability to apply the concepts/techniques of finding stresses.
		CO2	Ability to use simple bending theory to find deflection in beams.
		CO3	Ability to analyse and solve different types of columns.
		CO4	Ability to analyse the different types of indeterminate beams.

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3	AR 8321-BUILDING MATERIALS AND CONSTRUCTIO N II	CO1	Knowledge of properties and construction methods of brick, clay products and timber products.
		CO2	Ability to design and detail structural and non structural components of simple buildings using the above materials.
		CO3	Ability to integrate knowledge of properties and construction methods of basic building materials in the design of simple projects.
4	AR-8322 SITE SURVEYING AND PLANNING	CO1	Sensitivity towards aspects of the site in macro and micro contexts.
		CO2	Ability to exploit the potential of a site to design the built environment.
		CO3	Ability to measure, draw, analyse and plan a particular site for a specific purpose.
5	AR -8323 CLIMATE AND BUILT ENVIRONMEN T	CO1	An understanding of heat balance in human beings.
		CO2	An understanding of the effect of sun and wind on buildings.
		CO3	An understanding of material effects in buildings.
		CO4	Ability to design buildings with respect to climate
6	AR 8311-ARCHITE CTURAL DESIGN II	CO1	Ability to collect, assimilate and integrate knowledge in a holistic manner.
		CO2	Sensitivity towards the nature and values of unselfconscious and collective design as well as the interconnectedness of human society and environment.
		CO3	Ability to observe and analyse changes in the above.
		CO4	Ability to project future transformations and give possible/ appropriate ways to address issues, if

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			any.
		CO5	Sensitivity in design approach in community oriented projects with respect to context, collective values and needs
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<p><b>FOURTH SEMESTER</b></p>			
1	AR 8401-DESIGN OF STRUCTURES I	CO1	Ability to design timber beams and columns by applying the code provisions.
		CO2	Ability to design steel joints for maximum efficiency and strength.
		CO3	Ability to design tension and compression members for different conditions by applying the code provision
		CO4	Ability to design different types of laterally unsupported & supported beams for different condition
2	AR 8402-ENVIRON MENTAL SCIENCE FOR THE BUILT	CO1	Sensitivity towards the environment as a totality and knowledge about its importance.
		CO2	An understanding of the role of public awareness and participation with respect to environmental issues apart from law
3	AR-8403 BUILDING MATERIALS AND CONSTRUCTIO N III	CO1	Knowledge of properties of ferrous and non ferrous metals as materials for buildings.
		CO2	An understanding of possibilities of steel as an important building construction material.

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		CO3	Ability to design and detail structural and non structural components of simple buildings using metals
		CO4	Ability to use metal innovatively in building projects.
4	AR 8422-BUILDING SERVICES I	CO1	Understanding of water supply, sewage, drainage and waste systems in buildings.
		CO2	Ability to conceptually plan/ design the above for a given simple context.
		CO3	Awareness of sustainable principles and best practices.
5	AR 8423-COMPUTER-AIDED VISUALIZATION	CO1	Ability to express using digital tools in the realm of visual composition, drafting, 3D visualisation and rendering.
6	AR 8411-ARCHITECTURAL DESIGN III	CO1	Ability to perceive, understand and represent fundamental attributes of form- space with respect to human experience and use.
		CO2	Ability to ideate, innovate and create a meaningful built environment in basic human situations.
<b>FIFTH SEMESTER</b>			
NOTE: Application of the knowledge gained in all the courses to be implemented in the Architectural Design studio projects of current and coming semesters & carrying it forward in Arch. Professional.			
1	AR 8501-DESIGN OF STRUCTURES II	CO1	Ability to understand the different concepts of WSM and LSD methods using the code provisions.
		CO2	Ability to design RCC beams and slabs by applying the above concepts.

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		CO3	Ability to design RCC dog legged staircase design using LSD.
2	AR 8502 HISTORY OF ARCHITECTURE AND CULTURE III	CO1	An understanding of modernity as a fundamental transformation in Western society that spread across the world and the resultant architectural production.
		CO2	An insight into the development of modern architecture.
		CO3	An understanding of architecture in India under influence of colonialism and colonial modernity
3	AR 8521 -BUILDING MATERIALS AND CONSTRUCTION IV	CO1	Ability to use concrete as a versatile material in different contexts.
		CO2	An understanding of the concepts of concrete as a building construction material.
		CO3	Ability to design and detail specific components in concrete where there is scope for architectural design.
		CO4	Ability to use concrete innovatively in simple projects
4	AR 8522- BUILDING SERVICES II	CO1	Knowledge of basics of electrical, lighting and acoustic systems in buildings.
		CO2	Ability to design buildings satisfying electrical, lighting and acoustic principles.
		CO3	Ability to design basic electrical, lighting and acoustic systems for buildings.
5	AR 8511 ARCHITECTURAL DESIGN IV	CO1	Ability to understand the nature, needs and ways of contemporary urban society as well as relate the existing built environment as a reflection of this.
		CO2	Ability to draw from this understanding and identify issues/challenges involving contemporary urban life and the built environment.

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		CO3	Ability to give appropriate/ innovative design solutions in the above context
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<b>SIXTH SEMESTER</b>			
1	AR 8601-DESIGN OF STRUCTURES III	CO1	An understanding of the different concepts in designing footings and columns and masonry walls using LSD methods.
		CO2	An understanding of the concepts and applications of prestressed concrete.
2	AR 8602-HISTORY OF CONTEMPORA RY ARCHITECTUR E	CO1	An awareness of the spread and varied later directions of modern architecture across the world.
		CO2	An understanding of architectural production from the 1960s as driven by large scale changes across the world.
		CO3	Familiarity with contemporary forces and directions in architecture across the world.
		CO4	An understanding of post independence architecture in India contemporaneous with the rest of the world, along with its own particular influences.
3	AR 8621-BUILDING MATERIALS AND CONSTRUCTIO N V	CO1	Knowledge of glass, plastics, paints and finishes in building construction.
		CO2	Familiarity with advanced materials and construction techniques.
		CO3	Ability to use advanced materials and construction techniques in innovative ways.

  
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4	AR 8622-BUILDING SERVICES III	CO1	Familiarity with different air conditioning systems, their context of use and basics of planning involved.
		CO2	An understanding of fire safety, fire fighting, fire prevention and installations in buildings.
		CO3	An understanding of mechanical transportation systems in a building.
		CO4	Ability to integrate services in buildings.
5	AR 8611-ARCHITE CTURAL DESIGN V	CO1	Ability to critically understand and address issues of resources.
		CO2	Ability to balance diverse aspects/concerns of buildings by making informed choices and innovative design in the context of buildings with intense or complex programmes.
		CO3	Ability to apply knowledge intensively in realms such as sustainable built environment, services.
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<b>SEVENTH SEMESTER</b>			
1	AR 8701-LANDSCA PE DESIGN	CO1	Awareness of the role of landscape design with respect to macro scale of sustainability ecology as well as in the micro scale of shaping of outdoor environments.
		CO2	Knowledge about the elements of landscape design and their scope.
		CO3	Sensitivity towards evolution of different garden and landscape design across time and context.
		CO4	An understanding of landscape design with respect to site planning and different functional typologies of spaces

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2	AR 8702-URBAN DESIGN	CO1	Awareness of the evolution and characteristics of urban forms, their components and interdependencies.
		CO2	Understanding of urbanism through theories, aspects, issues and solutions.
		CO3	Knowledge of ways to look at and interpret urbanism today.
3	AR 8703 - SPECIFICATIO N, ESTIMATION AND VALUATION	CO1	An understanding of the art of building construction through specification writing.
		CO2	Ability to work out the approximate estimate and detailed estimate for small scale building projects and low cost housing.
		CO3	An understanding of valuation and budgeting.
4	AR 8721-ARCHITE CTURAL DESIGN DETAILING	CO1	An understanding of all the aspects that go into the making of a building through study of drawings related to construction.
		CO2	Ability to resolve spatial concerns with technical aspects of a building.
		CO3	Ability to design and detail components within a building
5	AR 8711-ARCHITE CTURAL DESIGN VI	CO1	Ability to understand the wider implication of design decisions and their interdependency with larger processes of society.
		CO2	Ability to take creative, critical and informed decisions in the context of significant projects that could shape society in positive ways.
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<b>NINTH SEMESTER</b>			

  
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1	AR 8801-HUMAN SETTLEMENTS PLANNING	CO1	Ability to understand morphology of settlements and their generating forces and characteristics.
		CO2	An understanding of the role of planning processes in making positive changes to settlements.
		CO3	Awareness of planning interventions with respect to the current world.
2	AR 8802- PROFESSIONAL PRACTICE AND ETHICS	CO1	Knowledge of the role of professional and statutory bodies.
		CO2	An understanding of the provisions in Architects Act 1972.
		CO3	An understanding of code of conduct.
		CO4	Familiarity with the process and role of an architect in project execution.
3	AR 8803-URBAN HOUSING	CO1	Knowledge of various issues concerning housing & housing development in Indian & global context covering a cross section of income groups.
		CO2	Ability to appreciate socio-economic aspects in housing.
		CO3	An understanding of housing standards, site planning principles, housing concepts and types.
		CO4	An understanding of key issues in housing today.
4	AR 8811-ARCHITECTURAL DESIGN VII	CO1	Ability to perceive and design buildings as contributing to/transforming the urban fabric.
		CO2	Ability to bring inclusivity into the architectural design process.
5	AR 8911-PRACTICAL TRAINING	CO1	An overall idea of the nuances of architectural practice.
		CO2	An understanding about the total process that goes into the making of a building.

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		CO3	Maturity in using the experience gained from internship in the thesis project.
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<b>TENTH SEMESTER</b>			
1	AR 8081-THESIS	CO1	Skill, knowledge and expertise in the domain of architectural design.
		CO2	Ability to handle a major architectural project independently through all stages.
<b>ELECTIVE SUBJECTS</b>			
<b>FIFTH SEMESTER - PEC - I</b>			
(Prerequisite - Pass in Rural Habitat Design Studio)			
S.NO	COURSE CODE AND COURSE NAME	COURSE OUTCOME	
1	AR 8001-THEORY OF DESIGN	CO1	Ability to think about architecture as one of the many fields under the broader ambit of design as a fundamental human activity.
		CO2	Self awareness with respect to the creative process.
		CO3	Ability to engage different processes to give creative output
2	AR8002-VERNACULAR ARCHITECTURE	CO1	An understanding of Indian vernacular architecture as a process and to also provide an overview of various approaches and concepts towards its study.
		CO2	Knowledge of vernacular architectural forms in different regions.

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		CO3	An understanding of the impact of colonial rule on vernacular architecture in India.
3	AR 8003-ART APPRECIATION	CO1	An understanding and appreciation of art as basic and varied human creation related to cognition and experience.
		CO2	Awareness of important art productions in the West and India.
		CO3	Sensitivity towards collective and individual cultural productions as unique expressions of historical and geographic context.
<b>SIXTH SEMESTER - PEC -II</b>			
S.NO	COURSE CODE AND COURSE NAME	COURSE OUTCOME	
1	AR 8004-INTERIOR DESIGN	CO1	An understanding of interior design as an integral part of architecture and as an interdisciplinary and allied field related to architecture.
		CO2	An overall exposure to the ways in which interior spaces can be enriched through the design of specific interior components
2	AR 8005-STRUCTURE AND ARCHITECTURE	CO1	Familiarity with concepts of structural design and its influence on the functional and aesthetic domains of architectural design relating to historic and contemporary periods.
		CO2	Understanding of architectural expression and its relation to form, structure and changing technology.
3	AR8006-EVOLUTION OF	CO1	Awareness of the nature and characteristics of human settlements.

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	HUMAN SETTLEMENTS	CO2	An understanding of the evolution of human settlements and their shaping forces.
		CO3	Familiarity with current aspects of settlements
<b>SIXTH SEMESTER - PEC -III</b>			
S.NO	COURSE CODE AND COURSE NAME	COURSE OUTCOME	
1	AR 8007-CONTEMPORARY ARCHITECTURE	CO1	Exposure to the need and use of various contemporary materials in creating innovation and ultra-performance in building design.
		CO2	An understanding of characteristics and performance of the newer materials in terms of detailing and application to the context.
2	AR 8008-GLASS ARCHITECTURE AND DESIGN	CO1	An understanding of glass and its potential in contemporary usage
		CO2	An understanding of tools and software currently in practice with respect to the use of glass in architecture
3	AR 8009-STEEL ARCHITECTURE AND DESIGN	CO1	An understanding of steel as a structural, functional and aesthetic material in design and construction practice.
<b>SEVENTH SEMESTER - PEC -IV</b>			
S.NO	COURSE CODE AND COURSE NAME	COURSE OUTCOME	
1	AR 8010-CONTEMPORARY	CO1	An understanding of the effect of contemporary theories of media on contemporary architectural design

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	PROCESS IN ARCHITECTURAL DESIGN	CO2	Insight into contemporary design processes/theories and their relation to computation.
		CO3	Ability to understand specific aspects of contemporary processes appropriate to a design situation
		CO4	Familiarity with architectural works derived from contemporary processes.
2	AR 8011-ENERGY EFFICIENT ARCHITECTURE	CO1	Knowledge of alternative sources of energy and passive design considerations.
		CO2	An understanding of day lighting and natural ventilation in design.
		CO3	Familiarity with future trends in creating a sustainable built environment.
3	AR 8012-ARCHITECTURAL CONSERVATION	CO1	An understanding of the importance of heritage, issues and practices of conservation through case studies.
		CO2	Familiarity with historic materials and their properties, different technologies for investigating masonry, foundation and also traditional and modern repair methods
<b>SEVENTH SEMESTER - PEC -V</b>			
S.NO	COURSE CODE AND COURSE NAME	COURSE OUTCOME	
1	AR 8013-ADVANCED STRUCTURES	CO1	An understanding of concepts and applications of prestressed concrete.
		CO2	An understanding of concepts and application of industrial structures and skyscrapers.

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		CO3	Familiarity with the theory and applications of tensile structures, grids, domes, shells and folded plates
2	AR 8014-SUSTAINABLE ARCHITECTURE AND PLANNING	CO1	An understanding of the concepts of ecosystem, carrying capacity, ecological footprint, sustainability and sustainable development.
		CO2	Awareness of emerging vulnerabilities of global warming and climate change and an understanding of the contribution of building industry towards the same.
		CO3	Familiarity with approaches to achieving sustainable buildings and communities.
		CO4	Knowledge of incentives and evaluation systems for green buildings
3	AR 8015-DISSERTATION	CO1	A dissertation report which is based on accepted norms of technical writing.
		CO2	Ability to research deeply into a subject and develop a coherent line of thought based on point of view, observation, analysis and study.
		CO3	Ability to look at architecture from an informed, analysed and well thought out critical perspective view, observation, analysis and study.
<b>SIXTH SEMESTER - PEC -VI</b>			
S.NO	COURSE CODE AND COURSE NAME	COURSE OUTCOME	
1	AR-8016 - ARCHITECTURAL JOURNALISM AND	CO1	An ability to critically think and analyse about the effects of architecture on society as well as the tools to enable recording of the same.

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	PHOTOGRAPHY		
2	AR 8017-CONSTRUCTION AND PROJECT MANAGEMENT	CO1	Ability to understand a project from concept to commissioning, feasibility study & facility programme, design, construction to commissioning.
		CO2	Ability to apply project management techniques in achieving objectives of a project like client needs , quality, time and cost.
		CO3	An understanding of principles of management, construction scheduling, scope definition and team roles.
3	AR 8018 - EARTHQUAKE RESISTANCE ARCHITECTURE	CO1	Ability to understand the formation and causes of earthquakes
		CO2	An understanding of the factors to be considered in the design of buildings and services to resist earthquakes

*Ranee Vedamuthu*

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