



MOHAMED SATHAK A.J. ACADEMY OF ARCHITECTURE

34, Old Mahabalipuram Road, IT Highway, Egattur, Chennai 603 103
Phone: 044 - 27470391 - 92 - 93 - 94 Email: admin@msjaarch-edu.in



	AND PRACTICE	CO2	The students would be sensitized as well as informed to carry forth this understanding in the realm of practice/research.
3	CO5011 DISASTER MANAGEMENT OF CULTURAL RESOURCES	CO1	Assignment will be in the form of a port, site visit report, class reviews and tutorials covering topics mentioned above with suitable illustrations and supportive material.

M. ARCH - R-2021

Course Outcomes (CO), Program Outcomes (PO), Program Specific Outcomes (PSO)

COURSE OUTCOMES (CO)

FIRST SEMESTER

Ranee Vedamuthu

Dr. Ranee Vedamuthu
Director
Md.Sathak A.J. Academy of Architecture
Egattur, Chennai - 603 103.





MOHAMED SATHAK A.J. ACADEMY OF ARCHITECTURE

34, Old Mahabalipuram Road, IT Highway, Egattur, Chennai 603 103
 Phone: 044 - 27470391 - 92 - 93 - 94 Email: admin@msjaarch-edu.in



S.N O	COURSE CODE AND COURSE NAME	COURSE OUTCOMES	
1	CO4101 INTRODUCTIO N TO ARCHITECTUR AL CONSERVATIO N	CO1	Relate to the heritage conservation movement in India
		CO2	Explain about various governmental agencies and their contributions towards conservation
		CO3	Apply their mind and assess architectural character and importance of documenting heritage
		CO4	Analyze the importance of craft in conservation and importance of craft in community.
		CO5	Build case studies and understand the role of agencies like UNESCO in architectural conservation
2	CO4102 IMPACT OF SOCIETY AND CULTURE ON BUILT HERITAGE	CO1	Relate to the scientific approach to cultural studies and theories related to interpretation of built heritage.
		CO2	Explain various theories about cultural study and their methodologies.
		CO3	Apply their mind and assess the importance of vernacular architecture in today's context.
		CO4	Analyze the importance of holistic understanding of conservation from a grass root level.
		CO5	Build case studies based on culture mapping across various social communities.
3	CO4103 TRADITIONAL KNOWLEDGE SYSTEM	CO1	Relate to the concept of traditional knowledge and differentiate between that and formal education
		CO2	Explain the typologies of architecture, evolution of need-based architecture about cultural study and their methodologies.

Ranee Vedamuthu

Dr. Ranee Vedamuthu
 Director
 Md.Sathak A.J. Academy of Architecture
 Egattur, Chennai - 603 103.





MOHAMED SATHAK A.J. ACADEMY OF ARCHITECTURE

34, Old Mahabalipuram Road, IT Highway, Egattur, Chennai 603 103
 Phone: 044 - 27470391 - 92 - 93 - 94 Email: admin@msjaarch-edu.in



		CO3	Apply their mind and assess the importance of traditional crafts and the importance of craftsmen and materials.
		CO4	Analyze the importance of general planning strategies in ancient cities.
		CO5	Build a knowledge bank on traditional materials and practices that can be applied to current projects as well.
4	CO4104 MATERIALS AND STRUCTURAL SYSTEMS	CO1	Relate to the various properties of historic building materials
		CO2	Explain the various types of structural systems that are common in heritage buildings
		CO3	Apply their mind and assess various causes of decay in heritage buildings.
		CO4	Analyze the importance of assessment and investigations to check on structural stability.
		CO5	Build a knowledge bank on traditional structural systems and relate them to conservation projects
5	CO4121 DOCUMENTATION TECHNIQUES AND INFORMATION DATA MANAGEMENT	CO1	Relate to the various technical skills and competence required for the preparation of inventories of our built heritage.
		CO2	Explain the various types of methods and processes involved in documenting our heritage
		CO3	Apply their mind and assess various methods of documentation on site.
		CO4	Analyze the importance of documenting, organizing, storing and managing information in written, oral or visual form using GIS and other tools.
		CO5	Build a documentation report based on all techniques and methods taught

Ranee Vedamuthu
 Dr. Ranee Vedamuthu
 Director
 Md.Sathak A.J. Academy of Architecture
 Egattur, Chennai - 603 103.





MOHAMED SATHAK A.J. ACADEMY OF ARCHITECTURE

34, Old Mahabalipuram Road, IT Highway, Egattur, Chennai 603 103
 Phone: 044 - 27470391 - 92 - 93 - 94 Email: admin@msjaarch-edu.in



6	CO4111 CONSERVATION STUDIO I	CO1	The students should be able to apply themselves as a conservation architect
		CO2	The students should be able to analyze the importance of the cultural heritage of the site and building
		CO3	The students should be able to build a sustainable heritage proposal for an historic building.
SEMESTER II			
1	RM4251 RESEARCH METHODOLOGIES FOR BUILT ENVIRONMENT	CO1	Relate to the various technical skills and competence required for the research writing
		CO2	The student will develop the skill to identify, decipher and interpret issues relating to architecture based on research enquiry methods.
		CO3	Apply the various methods to collect data
		CO4	The student will gain knowledge of different methods of conducting research and research writing.
		CO5	The student will be able to write and understand the research methodology through various case studies.
2	CO4201 STRENGTHENING AND RETROFITTING HISTORIC STRUCTURES	CO1	Students will understand various interventions and will enable to choose the appropriate
		CO2	The student will develop the skill to identify the issues and recording the damages
		CO3	Students will acquire skills to find appropriate remedial measures and solutions for strengthening and retrofitting of structure
		CO4	Assignments will include on site observation and analysis and formulating proposal for remedial measures and solutions for strengthening and retrofitting of a structure

Ranee Vedamuthu
 Dr. Ranee Vedamuthu
 Director
 Md.Sathak A.J. Academy of Architecture
 Egattur, Chennai - 603 103.





MOHAMED SATHAK A.J. ACADEMY OF ARCHITECTURE

34, Old Mahabalipuram Road, IT Highway, Egattur, Chennai 603 103
 Phone: 044 - 27470391 - 92 - 93 - 94 Email: admin@msjaarch-edu.in



		CO5	Assignment will be in the form of reports, reviews and tutorials with suitable illustrations.
3	CO4202 PROJECT MANAGEMENT IN CONSERVATION	CO1	The assignments shall be based on legal documents and their reviews.
		CO2	Assignment will be in the form of reports, reviews and tutorials with suitable case studies.
		CO3	Students shall learn about law for protection of heritage in India.
		CO4	Students will learn safety related issues and solutions
		CO5	Students will learn to implement project portfolio management
4	MH4221 GEOGRAPHICAL INFORMATION SYSTEMS FOR BUILT ENVIRONMENT	CO1	The student will increase the knowledge on GIS and the various characteristics of Data.
		CO2	The student will learn database concepts and its application
		CO3	The student will learn spatial data management
		CO4	The student will learn to apply the software knowledge
		CO5	The student will accept the potential of GIS and develop integrated practice of using the GIS application with architecture
5	CO4211 CONSERVATION STUDIO II	CO1	Students will understand the cultural significance of the historic core
		CO2	Students shall study and find solutions to problem and issues confronting historic core/urban areas
		CO3	Students will learn to formulate guidelines and policies.
		CO4	The studio shall be progressive work in groups. Deliverables shall include drawings and reports. Progressive presentations shall be made for reviews at various stages.

Ranee Vedamuthu

Dr. Ranee Vedamuthu
 Director
 Md.Sathak A.J. Academy of Architecture
 Egattur, Chennai - 603 103.





MOHAMED SATHAK A.J. ACADEMY OF ARCHITECTURE

34, Old Mahabalipuram Road, IT Highway, Egattur, Chennai 603 103
Phone: 044 - 27470391 - 92 - 93 - 94 Email: admin@msjaarch-edu.in



SEMESTER III			
1	CO4301 SERVICES IN HISTORIC BUILDINGS	CO1	Relate to norms and planning of modern services in historic structures.
		CO2	Explain the appropriate solutions for integrating various services in historic structures.
		CO3	Apply the acquired skills on-site and propose appropriate services.
		CO4	Analyze and formulate proposals for integrating the various modern services in heritage structure.
		CO5	Build case studies in the form of reports, reviews and tutorials with suitable illustrations.
2	CO4302 CONSERVATION LEGISLATION	CO1	Relate law for protection of heritage in India.
		CO2	Explain and understand the role each legislation plays in the society and historic conservation all over the world
		CO3	Apply and assess the importance and need of legislation in our country.
		CO4	Analyze the importance of various laws pertaining to heritage in a national perspective.
		CO5	Build case studies based on legal documents in the form of reports, reviews and presentations.
3	CO4311 DISSERTATION	CO1	Relate to theory and practical aspects of major conservation practices and minor disciplines to undertake independent research.
		CO2	Explain and develop own dissertation topic with research-oriented study
		CO3	Apply and understand the core ideas of Application design through the experimental research

Ranee Vedamuthu
Dr. Ranee Vedamuthu
Director
Md.Sathak A.J. Academy of Architecture
Egattur, Chennai - 603 103.





MOHAMED SATHAK A.J. ACADEMY OF ARCHITECTURE

34, Old Mahabalipuram Road, IT Highway, Egattur, Chennai 603 103
Phone: 044 - 27470391 - 92 - 93 - 94 Email: admin@msjaarch-edu.in



		CO4	Analyze and synthesize a defined context with in-depth study and scientific approach
4	CO4312 CONSERVATION STUDIO III	CO1	The students shall study and find solutions to problem and issues confronting heritage at regional scale
		CO2	The students should be able to analyze the importance of the cultural landscape of the area.
		CO3	The studio shall be progressive working group. Deliverables shall include drawings and reports.
5	CO4313 INTERNSHIP TRAINING	CO1	Ability to translate skills and knowledge of conservation architects acquired at university into a professional setting.
		CO2	Increased skills in performing tasks and ability to communicate in a professional setting
		CO3	Understand the social and ethical role and show skills in using software applications in a professional context.
SEMESTER IV			
1	CO4411 THESIS PROJECT	CO1	Students would be able to integrate various contemporary and advanced issues and techniques into the architectural conservation process.
		CO2	Students would be able to identify and go in depth into specific and appropriate aspects relating to the discipline of conservation and reflect this in the realm of design.
		CO3	The scope and extent in the thesis works shall be substantial and realizable in application or concept as appropriate to the selected area of work.
PROFESSIONAL ELECTIVE COURSES - SEMESTER II- ELECTIVE I			
1	CO4001 CULTURAL ANTHROPOLO	CO1	Students shall be equipped to interact and communicate with people of diverse cultural backgrounds.

Ranee Vedamuthu
Dr. Ranee Vedamuthu
Director
Md.Sathak A.J. Academy of Architecture
Egattur, Chennai - 603 103.





MOHAMED SATHAK A.J. ACADEMY OF ARCHITECTURE

34, Old Mahabalipuram Road, IT Highway, Egattur, Chennai 603 103
 Phone: 044 - 27470391 - 92 - 93 - 94 Email: admin@msjaarch-edu.in



	GY AND SOCIOLOGY	CO2	Students will understand the relationship of anthropology and architecture
		CO3	Students will learn concepts and principles of national and international culture
		CO4	The assignments shall include application of skills in primary survey.
		CO5	Assignment will be in the form of reports, reviews and tutorials with suitable illustrations.
2	CO4002 SHARED BUILT HERITAGE	CO1	Students shall acquire knowledge about Shared Built heritage
		CO2	Students will learn the values and challenges of conserving shared built heritage
		CO3	Assignments would include application of concepts towards identification, understanding and mapping of Shared built heritage.
		CO4	Assignment will be in the form of reports, drawings and presentations.
		CO5	The students shall make progressive presentations for reviews at various stages.
3	CO4003 NATURAL AND DESIGNED LANDSCAPE	CO1	Students shall develop skills to identify, maintain and manage natural and designed landscapes.
		CO2	Students will learn site planning concepts
		CO3	Students will learn landscape management models to handle the issues
		CO4	The assignments shall include case studies and application of principles for conservation
		CO5	Assignment will be in the form of reports, reviews and tutorials with suitable illustrations

Ranee Vedamuthu

Dr. Ranee Vedamuthu
 Director
 Md.Sathak A.J. Academy of Architecture
 Egattur, Chennai - 603 103.





MOHAMED SATHAK A.J. ACADEMY OF ARCHITECTURE

34, Old Mahabalipuram Road, IT Highway, Egattur, Chennai 603 103
 Phone: 044 - 27470391 - 92 - 93 - 94 Email: admin@msjaarch-edu.in



4	CO4004 CULTURAL LANDSCAPES	CO1	Students shall acquire knowledge about cultural landscapes.
		CO2	The assignments would include application of concepts towards identification, demarcation and mapping of cultural landscapes
		CO3	Students will learn to assess the cultural landscape
		CO4	Assignment will be in the form of reports, drawings and presentations
		CO5	Students will learn to apply the strategies to preserve the cultural landscape
5	CO4005 MUSEUM DESIGN AND MANAGEMENT	CO1	Students will learn the basics of museum
		CO2	Students will learn design and planning aspects
		CO3	Students will create inventories
		CO4	Students will acquire knowledge to use digital tools in museum management
		CO5	Assignment will be in the form of a port, site visit report, class reviews and tutorials covering topics mentioned above with suitable illustrations and supportive material.
6	CO4006 HISTORY OF WESTERN ARCHITECTUR AL CONSERVATIO N	CO1	Students shall be introduced to the evolution and principles of conservation in the West.
		CO2	Students will be knowing the theories of Europe
		CO3	Students will be learn architectural conservation from various examples from USA
		CO4	The assignments shall include studies of various characters and roles of various organizations in conservation.
		CO5	Assignment will be in the form report, class reviews and tutorials covering topics mentioned

Ranee Vedamuthu

Dr. Ranee Vedamuthu
 Director
 Md.Sathak A.J. Academy of Architecture
 Egattur, Chennai - 603 103.





MOHAMED SATHAK A.J. ACADEMY OF ARCHITECTURE

34, Old Mahabalipuram Road, IT Highway, Egattur, Chennai 603 103
Phone: 044 - 27470391 - 92 - 93 - 94 Email: admin@msjaarch-edu.in



SEMESTER III- ELECTIVE II & III			
1	CO4007 SACRED LANDSCAPES	CO1	Students shall acquire knowledge about the uniqueness of sacred landscapes and its importance in Indian context.
		CO2	Students will learn the evolution of the sacred towns
		CO3	Students will learn the relationship of pilgrimage routes and architecture
		CO4	Assignments will include exploration to analyze the sacredness in a landscape and its uniqueness and its connection to historic core.
		CO5	Assignment will be in the form of reports, drawings and presentations. The students shall make progressive presentations for reviews at various stages.
2	CO4008 WORLD HERITAGE SITES	CO1	Students will acquire knowledge about nomination process of World Heritage Site
		CO2	Students will understand the role of UNESCO
		CO3	Students will able to understand the management policies and to apply the knowledge
		CO4	Students will able to understand the management policies and to apply the knowledge
		CO5	Assignment shall include preparation of a tentative list document for a given site.
3	CO4009 SUSTAINABI TY AND CONSERVATIO N	CO1	Relate and understand the need and importance of conserving energy and water.
		CO2	Explaining how sustainability will ensure responsible use of our energy and natural resources while protecting our environment for generations to come
		CO3	Applying gained technical knowledge about conservation techniques to conserve water and other forms of energy

Ranee Vedamuthu
Dr. Ranee Vedamuthu
Director
Md.Sathak A.J. Academy of Architecture
Egattur, Chennai - 603 103.





MOHAMED SATHAK A.J. ACADEMY OF ARCHITECTURE

34, Old Mahabalipuram Road, IT Highway, Egattur, Chennai 603 103
 Phone: 044 - 27470391 - 92 - 93 - 94 Email: admin@msjaarch-edu.in



		CO4	Analyze the rapidly changing pattern of life and scale of activities and understand the various principles of energy systems and sustainability.
		CO5	Build an emphasis on minimizing energy consumption, demonstrating energy efficiency, adaptation to future climate change and obtaining materials from sustainable sources and avoiding long transportation.
4	CO4010 LANDSCAPE CONSERVATION	CO1	Relate and understand various historic landscape designs, principles and their development
		CO2	Explain the historic development and growth of various types of landscape planning.
		CO3	Identify various methods of landscape conservation and apply specific methods wherever required.
		CO4	Analyze historic landscapes, their relationship with heritage structures and make informed land management decisions
		CO5	Build strategic and integrated plans which are essential for sustaining indispensable landscapes.
5	CO4011 URBAN CONSERVATION AND PRACTICE	CO1	Relate, be sensitive as well as be informed to carry forth understanding urban conservation in the realm of practice/research
		CO2	Explain and understand the need and benefits of urban conservation
		CO3	Apply the interrelated policies of urban conservation
		CO4	Analyze the various case studies and understand the essence of the urban setting and conservation process
		CO5	Build knowledge in terms of understanding what norms are applied in specific urban areas or heritage districts.

Ranee Vedamuthu

Dr. Ranee Vedamuthu
 Director
 Md.Sathak A.J. Academy of Architecture
 Egattur, Chennai - 603 103.





MOHAMED SATHAK A.J. ACADEMY OF ARCHITECTURE

34, Old Mahabalipuram Road, IT Highway, Egattur, Chennai 603 103
Phone: 044 - 27470391 - 92 - 93 - 94 Email: admin@msjaarch-edu.in



6	CO4012 SUSTAINABLE TOURISM AND VISITOR MANAGEMENT	CO1	Relate and acquire knowledge about visitors and finding management solutions.
		CO2	Explain and understand the need for history tourism management
		CO3	Apply and calculate the carrying capacity for a heritage site.
		CO4	Analyze and contextualize the relationship between sustainability and visitor management
		CO5	Build and work out infrastructural requirements for visitors
SEMESTER IV- ELECTIVE IV			
1	CO4013 HERITAGE IMPACT ASSESSMENT	CO1	Relate to Heritage Impact Assessment and use it as a tool for evaluating impacts from various factors affecting heritage
		CO2	Explain and gain knowledge on the principles and methodology used for the assessment
		CO3	Explain and gain knowledge on the principles and methodology used for the assessment
		CO4	Analyze through case studies and reports of World Heritage Sites
		CO5	Build reports, drawings and presentation
2	CO4014 DISASTER MANAGEMENT OF CULTURAL RESOURCES	CO1	Relate and understand the various types of disasters and risks it poses to cultural heritage
		CO2	Explain the various precautions and measures taken based on the vulnerability of heritage
		CO3	Explain the various precautions and measures taken based on the vulnerability of heritage
		CO4	Analyze what can be done for post disaster mitigation measures


Dr. Raneel Vedamuthu
Director
Md.Sathak A.J. Academy of Architecture
Egattur, Chennai - 603 103.





MOHAMED SATHAK A.J. ACADEMY OF ARCHITECTURE

34, Old Mahabalipuram Road, IT Highway, Egattur, Chennai 603 103
Phone: 044 - 27470391 - 92 - 93 - 94 Email: admin@msjaarch-edu.in



		CO5	Build case studies in the form of reports, site visit report, class reviews and tutorials covering topics mentioned above with suitable illustrations and supportive material
3	CO4015 ECONOMICS OF PRESERVATION AND HERITAGE	CO1	Relate and understand the importance of economics with respect to heritage
		CO2	Explain and gain knowledge of evaluating heritage resources and preservation as an economic tool.
		CO3	Applying economic methods to historic preservation, when there is a mix of cultural and economic values embodied in the preservation activity.
		CO4	Analyze the effects of historic preservation investment on a regional economy.
		CO5	Build case studies in the form of reports, reviews and tutorials with suitable illustrations
AUDIT COURSES			
1	AX4091 ENGLISH FOR RESEARCH PAPER WRITING	CO1	Relate to the various technical writing skills and high level of reading competence.
		CO2	Explain the various types of writings and understand the importance of different sections.
		CO3	Apply their mind and assess skills required in choosing an appropriate title
		CO4	Analyze the importance of writing a document/ report and explaining the inferences.
		CO5	Build a research paper or report from scratch and develop it to something that can be published later
2	AX4092 DISASTER MANAGEMENT	CO1	Ability to summarize basics of disaster
		CO2	Ability to explain a critical understanding of key concepts in disaster risk reduction and humanitarian response.

Ranee Vedamuthu
Dr. Ranee Vedamuthu
Director
Md.Sathak A.J. Academy of Architecture
Egattur, Chennai - 603 103.





MOHAMED SATHAK A.J. ACADEMY OF ARCHITECTURE

34, Old Mahabalipuram Road, IT Highway, Egattur, Chennai 603 103
Phone: 044 - 27470391 - 92 - 93 - 94 Email: admin@msjaarch-edu.in



		CO3	Ability to illustrate disaster risk reduction and humanitarian response policy and practice from multiple perspectives
		CO4	Ability to describe an understanding of standards of humanitarian response and practical relevance in specific types of disasters and conflict situations
		CO5	Ability to develop the strengths and weaknesses of disaster management approaches
3	AX4093 CONSTITUTION OF INDIA	CO1	Discuss the growth of the demand for civil rights in India for the bulk of Indians before the arrival of Gandhi in Indian politics
		CO2	Discuss the intellectual origins of the framework of argument that informed the conceptualization of social reforms leading to revolution in India
		CO3	Discuss the circumstances surrounding the foundation of the Congress Socialist Party [CSP] under the leadership of Jawaharlal Nehru and the eventual failure of the proposal of direct elections through adult suffrage in the Indian Constitution

Ranee Vedamuthu

Dr. Ranee Vedamuthu
Director
Md.Sathak A.J. Academy of Architecture
Egattur, Chennai - 603 103.

