



Crafting Dimensions that Speak the Language of the New Millennium

SINHGAD TECHNICAL EDUCATION SOCIETY'S

SINHGAD COLLEGE OF ARCHITECTURE

(Affiliated to University of Pune & Approved by AICTE & COA) (ID No. PU/PN/Engg./151/2000)

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M. ARCH. ARCHITECTURAL CONSERVATION

Program Outcome (PO) defined by institution

At the end of a program, students should be able to do

- PO 1. **Architectural Knowledge:** Work professionally toward synthetic architectural design solutions that incorporate requirements of users, contextual and environmental connections, technological systems with sensible and responsible approach to environmental, historical, and cultural commitments.
- PO 2. **Professional Competence:** Work with established professional standards and analyze various subjects related to architectural and allied fields
- PO 3. **Technological Knowhow:** Apply appropriate technology required through design research
- PO 4. **Commitment to the society:** Crafting sensible and responsible architects for future
- PO 5. **Sustainable Approach:** Understand the real-life situation in architectural practice and its impact on environment and sustainable factors
- PO 6. **Architectural Ethics:** Work with ethical responsibilities and analyze critically by conducting research
- PO 7. **Collaborative work culture:** Work in collaboration in architectural profession for designing and execution, as well as develop interpersonal and leadership skills
- PO 8. **Communication skills:** Apply effective communication skills using advanced tools in producing professional quality graphic presentations and technical drawings/documents

Program Specific Outcome (PSO) defined by institution

- PSO 1 Multi-disciplinary approach by integrating various streams related to Heritage conservation.
- PSO 2. Address the demands of conservation practices to produce conservation experts capable of taking the emerging challenges in the field.
- PSO 3. Build the regional database of cultural resources through academic exercises.

SINHGAD COLLEGE OF ARCHITECTURE

COURSE OUTCOMES – FIRST YEAR - TERM I

students at the end of the semester will be able to ...

1	FIRST YEAR M.ARCH.(AC) - TERM I – Conservation Studio- I - (2019AC101-SV)
CO1	To search for historical research, Perception of the user society.
CO2	To study inventory formation and detail documentation.
CO3	To understand analysis for materials, techniques, spatial arrangement, art and crafts, significant element.
CO4	To write statement of significance and identification of issues in study area.
CO5	To understand and study conservation interventions in study area.
CO6	To give adaptive reuse proposal for Heritage site in study area.
2	FIRST YEAR M.ARCH. (AC) - TERM I - Elective I - (2019AC102-SS)
CO1	To learn digital tools and techniques required for Heritage Conservation.
CO2	To study building performance under use of Renewable Energy Technology on Heritage Site.
CO3	To study advance documentation methods through Drone Survey and Arial Photography.
3	FIRST YEAR M.ARCH. (AC) - TERM I – Introduction to Conservation - (2019AC103-SS)
CO1	To know the Theories of Conservation and its concepts & Background.
CO2	To get introduced to Conservation Approaches and Organizational setup, various charters- International & National.
CO3	To understand documentation Methods –Modern Trends & Digital Technologies.
CO4	To learn Heritage Legislations- and its reaches in Indian Context.
CO5	To study conservation practices and its challenges, technical requirements of a conservation project.
CO6	To understand research component in a conservation project.
4	FIRST YEAR M.ARCH. (AC) - TERM I – MATERIAL CULTURE STUDIES - (2019AC104-TH)
CO1	To get introduction to Material Culture and its role in interpreting past.
CO2	To understand Methodology of Studying Material Culture & its resources.
CO3	To understand Archaeological and Anthropological Approaches in exploring past.
CO4	To study social history and material culture related to it.
CO5	To understand technology, built habitat and material culture.
CO6	To study museology & preservation of material culture.
5	FIRST YEAR M.ARCH. (AC) - TERM I – PLANNING THEORY - (2019AC105-TH)
CO1	To study the Planning objectives and introduction to planning terminologies, plans development structures.
CO2	To get introduced to planning streams like urban planning, regional planning, traffic and transportation, environmental Planning, and housing.
CO3	To get an overview of planning acts and development controls, byelaws having impact in historic areas. Planning for conservation interventions.
CO4	To understand housing morphology of a traditional habitat, Housing typology, concepts, policies, socio-political aspects of urbanization, urban growth.
CO5	To study methodology of existing housing stock, characteristics, problems & Management of housing stock.
CO6	To understand conservation efforts for historic housing.
6	FIRST YEAR M.ARCH. (AC) - TERM I – STRUCTURAL CONSERVATION- I - (2019AC105-SS)
CO1	To Study of traditional structures.
CO2	To study 1. Traditional materials – properties, behavior with lab experiments and defects 2. Characterization of materials and compatibility of its usage.
CO3	To understand structural behavior of traditional structures.
CO4	To Diagnose and assessment of defects in building materials by atmospheric elements.
CO5	To understand use of new building materials in conservation practices
CO6	To study new conservation techniques and role of software’s in assessing structural conditions, Remedial measures.

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COURSE OUTCOMES – SECOND YEAR - TERM I

students at the end of the semester will be able to ...

1	SECOND YEAR M.ARCH.(AC) - TERM I – CONSERVATION STUDIO -III - (2019AC301-SV)
CO1	To identify the Cultural Region, cultural resources shaping the region and its attributes.
CO2	To Delineate the study area based on theories and concepts rooted in cultural geography.
CO3	To Map & Document various cultural resources shaping the region and conducting primary research and surveys by application of Historical layering method and many other methods from allied fields formulating mapping techniques of cultural resources shaping the geography to check the probability of shaping of a cultural landscape with multiple cultures.
CO4	To Identify heritage potential of cultural resources with a knowledge system approach. Identifying issues pertaining to heritage at multiple levels
CO5	To find out Statement of significance, classification & Conservation interventions within present system of governance & future development.
CO6	To Prepare heritage management strategy at regional level, knowledge system level, cultural resource level and its attribute level.
2	SECOND YEAR M.ARCH.(AC) - TERM I – RESEARCH II - (2019AC302-SS)
CO1	To select an appropriate topic from the field of Architectural Heritage conservation or allied disciplines, for the theoretical exploration related and supportive to the selected dissertation topic.
CO2	To develop an appropriate methodology and research approach related to the Conservation Project to be taken up in Semester-IV.
3	SECOND YEAR M.ARCH.(AC) - TERM I - CONSERVATION PRACTICES AND TRAINING - (2019AC303-SV)
CO1	To understand the Ethics, code of conduct and liabilities as conservation architects, contracts, and tenders. Also, to know the Professional fees, Role of various bodies and organizations like ASI, INTACH & qualified conservation professionals etc., professional procedures, office management, project development.
CO2	To understand the conservation projects & current practices, nature of projects, government agencies involved. Tendering process – introduction, preparation of draft notice, tender drawings, and tender documents and related stages.
CO3	To Deal with the technical aspects of making of DPRs, Preparation of estimates for conservation work items- Specification writings, Preparations of BOQs, formulating Rate analysis, Measurement sheets and Abstract sheets based on field observations during condition mapping and assessments.
CO4	To Contract of conservation projects, agencies and expertise, trends and methodology. Exploring role of a Conservation architect in multi-disciplinary nature of works.
CO5	To apply for conservation approval through sanctioning authorities. Like Heritage cell at local governance, heritage committees for and organizations for protected monuments etc.
CO6	To get an overview of International, National, Regional Heritage cell, INTACH local & central Chapter, ASI Circle, and renowned conservation firms for their trends of conservation works and methodology based on successful examples.
4	SECOND YEAR M.ARCH.(AC) - TERM I – CULTURAL LANDSCAPE (2019AC304-TH)
CO1	To understand the Concept of Cultural Landscapes – from Cultural Geography, Cultural Anthropology, Culture through sociology, Natural ecology and environments with human habitats -formulating current trends of approaches.
CO2	To understand 20th and 21st c. various Theories, philosophies, personalities who have contributed in formulation of techniques in defining a cultural region and interpreting cultural landscapes.eg. Approaches by UNESCO, US, Australia.
CO3	To explore Indian context of interpreting culture and forms and meaning of landscapes formulating a distinct form of Indian Cultural Landscapes.
CO4	To identify cultural region, cultural resources shaping the region, application of Historical layering method and many other methods from allied fields for documentation and mapping techniques of cultural resources shaping the cultural landscapes.
CO5	To explore the Concepts of Historic Gardens, across cultures around the globe – smallest unit of designed landscapes representing cultures and techniques for their safeguarding culture.
CO6	To get Introduced to National and International charters, Approaches and Organizational setup, - World Heritage management of Cultural Landscapes.
5	SECOND YEAR M.ARCH.(AC) - TERM I – CONSERVATION LEGISLATIONS - (2019AC305-TH)
CO1	To know the Origin of Law and its development-Elements of Legislation, Introduction to Indian Constitution, 73rd and 74th amendment.
CO2	To study Land related legislation, MRTP act, Rent Control Act. Land reforms.
CO3	To study heritage related legislation including Antiquities and Art Treasures Act,1972, AMASR, Norms by Local Governing bodies.
CO4	To study relevant Environment related legislation
CO5	To review of legal systems across the globe
CO6	To understand various schemes by Governing authorities, Right to Information, Various statutory bodies working in conservation.
6	SECOND YEAR M.ARCH.(AC) - TERM I – Heritage Risk Assessment and Mitigation (2019AC306-SS)
CO1	To Understand different Types of risks for heritage – Natural and Manmade.
CO2	To explore Different Holistic approaches for Assessing magnitude of risk – International and National.
CO3	To study heritage impact assessment- process, methods, primary field surveys, recommendations based on cases.
CO4	To understand mitigation measures – process, methods, priority aspects, recommendation – based on cases
CO5	To understand digital tools and modern applications for assessment and mitigation.
CO6	To formulate Disaster Management plan – Based on conservation studio.

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COURSE OUTCOMES – FIRST YEAR - TERM II	
students at the end of the semester will be able to	

1	FIRST YEAR M.ARCH. - TERM II – CONSERVATION STUDIO II - (2019AC201- SV)
CO1	To identify urban heritage in historic town and archival research.
CO2	To Map heritage & Identification of issues, through primary research, performing SWOT.
CO3	To Devise a comprehensive conservation policy dealing all levels of interventions.
CO4	To Delineate a heritage precinct in the town with urban attributes.
CO5	To devise area conservation strategy & Preparing Management framework.
2	FIRST YEAR M.ARCH. - TERM II – ELECTIVE II - (2019AC202- SS)
CO1	To study mapping of UD settlement.
CO2	To understand development of town based on satellite image.
CO3	To study imageability of town and analysis of town.
3	FIRST YEAR M.ARCH. - TERM II – HISTORY, THEORY AND CRITICISM - (2019AC203- SS)
CO1	To study Development of history as a terminology.
CO2	To study Famous historians and various approaches towards world history.
CO3	To study movements in art and architecture across the world.
CO4	To study movements in philosophy and literature and its interpretation.
CO5	To Study of architectural history of the region.
CO6	To Identify and study of vernacular styles.
4	FIRST YEAR M.ARCH. - TERM II – CONSERVATION MANAGEMENT - (2019AC204- TH)
CO1	To study Concept of Cultural Resources and Cultural resources management – a Paradigm shift.
CO2	To study Cultural Resource identification, Mapping and their heritage assessment.
CO3	To understand Conservation Management plans (CMPs) and tools of managements with integral fundamental concepts at various levels.
CO4	To study World heritage management and its frameworks of nomination, formulation of inscription & implementation with relevant case studies.
CO5	To get an overview of Indian scenario of heritage management & ASI contribution in world heritage management - Indian case study, heritage tool kits at local governance level.
CO6	To study merging approaches like ITUC- Integrated Territorial Urban Conservation and its relevance to Indian scenario – Integrated planning and heritage management.
5	FIRST YEAR M.ARCH. - TERM II – RESEARCH I - (2019AC205- TH)
CO1	To understand Types of Research, Various terminologies in research.
CO2	To understand research Methods, Research sample and methods of sampling, data types and methods of collection.
CO3	To study aspects of research, literature review, conducting research, writing reviews.
CO4	To understand Ethics in research.
CO5	To understand research Design- Research plan and research questions, tools and techniques of research, reference writing.
CO6	To study historical and qualitative research, quantitative research.
6	FIRST YEAR M.ARCH. - TERM II – STRUCTURAL CONSERVATION II - (2019AC206- SS)
CO1	To understand principles of interventions.
CO2	To identify problems and possible measures and choosing appropriate measures.
CO3	To study structural interventions for different structural elements like arches, dome, vaults, columns, beams.
CO4	To study retrofitting and strengthening for heritage structures.
CO5	To understand preventive measures related to heritage structures.
CO6	To see and understand demonstration of tools in structural conservation.

SINHGAD COLLEGE OF ARCHITECTURE**COURSE OUTCOMES – SECOND YEAR - TERM II****students at the end of the semester will be able to**

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1	SECOND YEAR M.ARCH. - TERM II – CONSERVATION PROJECT (2019AC401- SV)
CO1	To identify the Cultural Region, cultural resources shaping the region and its attributes.
CO2	To Delineate the study area based on theories and concepts rooted in cultural geography.
CO3	To Map & Document various cultural resources shaping the region and conducting primary research and surveys by application of Historical layering method and many other methods from allied fields formulating mapping techniques of cultural resources shaping the geography to check the probability of shaping of a cultural landscape with multiple cultures
CO4	To Identify heritage potential of cultural resources with a knowledge system approach. Identifying issues pertaining to heritage at multiple levels.
CO5	To find out Statement of significance, classification & Conservation interventions within present system of governance & future development.
CO6	To Prepare heritage management strategy. at regional level, knowledge system level, cultural resource level and its attribute level.
2	SECOND YEAR M.ARCH. - TERM II – ELECTIVE III (2019AC402- SS)
CO1	To understand Human resource management.
CO2	To study Human resources planning.
CO3	To study Corporate Social Responsibility & Sustainability.
CO4	To learn company beneficial.