

Master of Architecture (Conservation) & Master of Conservation

The Syllabus

Introduction

India is a country with rich natural and cultural heritage. The variation in heritage is due to geographical locations, time periods, builders, architectural styles, materials, different sizes and scales of cultural heritage; existing traditional knowledge systems, and continuity in traditional practices. Variation is seen in the different categories of built heritage ranging from prehistoric, historic and archaeological sites; and different typologies from a building to large cultural regions. India has two world heritage cities and around 60 recognized historic cores with eight lakh historic structures and vast domain of rural heritage is yet to be surveyed and assessed, as stated in the Working Group Report on Improving Heritage Management in India, NITI Ayog, 2019. There are around 3770 centrally protected monuments, around 5000 state protected monuments, large number of living monuments protected by various religious bodies and large number of built heritage under the ownership of either private organizations or private owners.

The realm of profession is evolved from preservation of historic structures to its conservation, reuse and rehabilitation. More of the locally significant heritage structures are being looked-upon as a resource for sustenance of local intangible skills, which are fast disappearing. The historic structures are increasingly being reused for its maintenance and survival. The vast storehouse of tangible and intangible knowledge can only be protected if the heritage is made self-sustainable. Hence all feel the need of Conservation Professionals.

Very few qualified conservation professionals are practicing in India, making it a profession in demand. The requirement for a qualified conservation professional is more as with technological advancements, drastically changing society, it is important to understand the meaning of heritage in these changing times. The heritage is vulnerable due to threats like rapid urban growth, changing aspirations, industrial and intensive agricultural activities, growing land prices, encroachments etc. To achieve the targets of sustainability and holistic management; conservation has to become an interdisciplinary and multidisciplinary profession.

SPA Bhopal imparts conservation education to meet the increasing demand of Conservation professionals in India. It has an expertise of training Architects in conservation, since 2013. Foreseeing the future needs of the profession, Department of Conservation, SPA Bhopal has taken up the challenge to train allied expertise required for the benefit of heritage including Engineers, Archaeologists, Historians, Anthropologists, Sociologist, and Lawyers etc.



Conservation practice requires a professional with skills towards interpretation of heritage values; maintenance and management of heritage; process and knowledge of historic buildings; and knows how to use technological advancements and expertise for its conservation. Hence the programme is devised to train the students towards theory and philosophies in conservation; process and techniques necessary for maintenance and management of heritage; appropriate use of standards in practice; informed decision-making and application of acquired skills and techniques. With new intakes from allied fields, the students of the department shall foster the interdisciplinary thinking and multidisciplinary interactions. This shall strengthen the profession a long way.

Conservation Programme Objectives

The programme shall fulfill the charter of SPA Bhopal towards imparting quality education inclusive of environmental, social and cultural sustenance. It shall build a comprehensive database of India through research and documentation. The Conservation Programme aims at developing appropriate management and technical skills for conservation practice in multidisciplinary environments. Thus the trained professionals of this programme shall provide leadership in conservation profession.

Applicants to the Programme

Eligibility

Minimum of 60% (or 6.5 CGPA) for General/OBC and 55% (or 6 CPPA) in case of SC/ST/PWD candidates, from any institution recognized by SPA Bhopal, in any of the qualifying examinations mentioned below as the per the degree programme:

Name of the Degree

A. Master of Arch. (Conservation)

They should have a degree of either B.Arch. /B. Plan / B.E./B. Tech (Civil Engineering)

B. Master of Conservation

They should have a degree of either in :

- a. M.A in History/ Cultural studies/ Heritage studies/ Anthropology or equivalent.
- b. M.A/ M. Sc in Museology/ Archaeology or equivalent,
- c. PG Diploma (two years) in Archaeology/Museology/ Conservation/ or equivalent, from national institutes/university.
- d. 5 year integrated Degree in Law with specialization in Heritage Law.

Admission Requirements

Students are required to present to pass written exams, present a portfolio in the interview, which shall demonstrate their aptitude and experience towards conservation and three letters of recommendation.

The procedure shall be as per institute norms and might change from time to time. They shall be clearly published every year along with the application forms.



Master of Architecture Conservation & Master of Conservation

The Programme

The programme is divided into five modules namely:

Module	Contents
Theoretical Framework	Theory and Philosophy Focuses on building the theoretical background necessary for all conservation activities including knowledge systems approach, communicative skills, interpretations and understanding multidisciplinary approach to conservation.
Technical Framework	Scientific (Traditional and Modern) Focuses on the various kinds of techniques required to handle various types, scopes, and scales of conservation including various kinds of knowledge required related to materials, structural systems, physical properties, traditional techniques and intangible aspects required towards protection and conservation of heritage.
Management Framework	Scales and Components Focuses on various levels required for management, for various scales of conservation projects likely to be handled by conservation professional. It deals with various approaches required for management including holistic and integrated approach, participatory approach etc.
Operational Framework	Laws and Jurisdiction, Profession Focuses on the administrative, political and legal aspects under which the conservation works are undertaken. The restrictions and opportunities of jurisdictions towards implementation of various conservation activities are explored.
Application	First Hand Experience on various scales of live project



Structure of the programme

Module	Semester I	Semester II	Semester III	Semester IV
Theoretical Framework	Research Approaches and Social Sciences #	Inter-cultural Competence #	Thesis Programming #	Option 1 World Heritage Studies #
	Traditional Knowledge System #	Authenticity and Integrity #	Common Pool Elective Conservation : Option 1 Museology #	Option 2 Global policies for heritage protection #
			Option 2 Disaster Management of Cultural Resources #	
		Cultural Landscapes#	Option 3 Subjects offered by other PG courses or Centres of the SPA Bhopal #	Option 3 Heritage Economics #
Technical Framework	Option 1 Advanced theory of materials★	Option1 Structural Systems★	Option1 Strengthening and Retrofitting ★	
	Option2 Introduction to theory of materials*	Option2 Heritage-led Regeneration*	Option 2 Intangible Heritage*	
Management Framework	Documentation and Communication Techniques #	Open elective #	Option 1 Built Heritage Management ★	
			Option 2 Cultural Heritage Management*	
Operational Framework	Comparative studies in Art and Architecture of India #	History of Conservation #	Conservation Practice in India and abroad & Professional training #	General Proficiency#
Application	Building Level #	Area Level #	Regional Level #	Thesis #

(#) Compulsory Subjects for all students of Department of Conservation; (★) Compulsory subject for students of M Arch (Conservation) and (*) Compulsory subject for students of Masters in Conservation

It is a two year programme organized in four semesters with practical training in summer vacations for not less than six weeks.



Master of Architecture (Conservation) & Master of Conservation

Scheme of Examination

Assessment and Evaluation Pattern shall be as per the Ordinance of Undergraduate and Postgraduate Programmes (Amended) 2018

Semester I

Subject Code	Subject Name	WCH	ESE format		Credits
MACO 0101	Research Approaches and Social Sciences	2	WR	-	2
MACO 0102	Traditional Knowledge System	2	-	V V	2
MACO 0103	Option 1: Advanced theory of materials	2	WR	-	2
	Option 2: Introduction to theory of materials				
MACO 0104	Documentation and Communication Techniques	4	-	V V	4
MACO 0105	Comparative Studies in Art and Architecture of India	2	-	V V	2
MACO 0106	Conservation Studio I (Building Level)	13	-	V V	13
	TOTAL	25			25

WCH - Weekly Contact Hours, ESE - End Semester Examination, WR - Written Examination, V V - Viva Voce

Semester II

Subject Code	Subject Name	WCH	ESE format		Credits
MACO 0201	Inter-cultural Competence	2	WR	-	2
MACO 0202	Authenticity and Integrity	2	WR		2
MACO 0203	Cultural Landscape	2	-	V V	2
MACO 0204	Option 1: Structural Systems	2	WR	-	2
	Option 2: Heritage – led Regeneration				
MACO 0205	Open Elective	2		VV	2
MACO 0206	History of Conservation	2	WR	-	2
MACO 0207	Conservation Studio II (Area Level)	13	-	V V	13
	TOTAL	25			25

WCH - Weekly Contact Hours, ESE - End Semester Examination, WR - Written Examination, V V - Viva Voce



Semester III

Subject Code	Subject	WCH	ESE format	Credits
MACO 0301	Thesis Programming	2	WR -	2
MACO 0302	Common Pool Elective Option 1: Museology Option 2: Disaster Management of Cultural Resources Option 3: Subjects offered by other PG courses or Centre of SPA Bhopal	2	WR -	2
MACO 0303	Option 1: Strengthening and Retrofitting Option 2: Intangible Heritage	2	WR -	2
MACO 0304	Option 1: Built Heritage Management Option 2: Cultural Heritage Management	2	V V	2
MACO 0305	Conservation Practice in India and abroad & Professional Training*	4	VV	4
MACO 0306	Conservation Studio III (Regional Level)	13	- V V	13
	TOTAL	25		25

WCH - Weekly Contact Hours, ESE - End Semester Examination, WR - Written Examination, V V - Viva Voce

* The professional training shall have a system of contact hours with the expert imparting training to the student

Semester IV

Subject Code	Semester 4	WCH	ESE format	Credits
MACO 0401	Option1: World Heritage Studies Option 2: Global Policies for Heritage Protection Option 3: Heritage Economics	2	WR -	2
MACO 0402	General Proficiency	1	VV	1
MACO 0403	Thesis	22	- V V	22
	TOTAL	25		25

WCH - Weekly Contact Hours, ESE - End Semester Examination, WR - Written Examination, V V - Viva Voce



COURSE DETAILS

Semester I

MACO 0101: Research Approaches and Social Sciences

Eligibility

Compulsory subject for all students of Department of Conservation

Objective

The objective is to understand the scientific approach of cultural studies and cultural theories related to perception and interpretation of heritage.

Contents

- Introduction to various disciplines in Social Sciences including anthropology, sociology, history, art-history, archaeology, museology etc.
- Introduction to various disciplines in applied sciences useful for heritage conservation including architecture, planning, civil engineering, structural engineering, etc.
- Synergies between the social sciences and applied sciences towards understanding heritage.
- Different Approaches and Methodologies to study Culture.
- Importance of social sciences and applied sciences in holistic understanding of conservation.
- Impacts of social sciences and applied sciences on Conservation.
- Understanding various perception and interpretation of heritage.
- Evolving holistic and integrated habits of thought and understanding required for heritage protection.

Deliverables

- Students will explore various scientific approaches of cultural studies and cultural theories.
- The assignments shall deal with the core subject individually and later through case studies shall lead to holistic understanding of conservation.

Suggested Readings

Sr. No	Reading Material	Authors	SPAB Library code/ ISBN
1	Research methods in the Social Sciences	Somekh, Lewin Bridget, Cathy ed.	ISBN: 9788178294933
2	Researches in Archaeology and Conservation	P.K Mishra ed.	930.1028 RES
3	Archaeology, Museology and Conservation	Vibha Upadhyaya	ISBN: 9789381951255
4	Illustrated dictionary of technical terms: Architecture, Archeology, Fine Arts & History	Ratanlal Mishra	ISBN: 9788181820457
5	Critical introduction to Social Research	Matt Henn	300.72 HEN-C
6	History of science, philosophy and culture in Indian civilization: Religious movements and Institutions in medieval India	D P Chattopadhyaya, J S Grewal	ISBN: 9780195677034
7	The Past is a Foreign Country	David Lowenthal	ISBN: 9780521294805



8	History of 20th-century Art	Bernard Blistene	ISBN: 9782080105646
9	Architectural heritage revisited: Holistic engagement of its tangible and intangible cons	Ilan Vit-Suzan	ISBN: 9781472420626
10	Qualitative Research Methods: Collecting evidence, crafting analysis, communicating impact	Sarah J Tracy	300.72 TRA-Q

MACO 0102: Traditional Knowledge System

Eligibility

Compulsory subject for all students of Department of Conservation

Objective

The objective is to edify the difference between the formal education and the traditional knowledge system. This subject shall facilitate the application traditional knowledge system for conservation.

Contents

- Difference between formal education and traditional knowledge.
- Understanding that prevailing knowledge within the society is transferred through generations including those like prediction of rainfall, language, preserving and storage of food materials, construction of vernacular and traditional buildings, etc.
- Traditional Knowledge System and its connection to Indigenous Architecture.
- Traditional Knowledge and its associative crafts.
- Historic City, a product of people, place and time.
- Historicity and development.
- Traditional Knowledge System as a tool for Conservation.

Deliverables

- Students shall apply the knowledge of traditional knowledge system for conservation.
- The assignments shall include the study of a historic city and explore the traditional knowledge system as a tool for conservation.

Suggested Readings

Sr. No	Reading Material	Authors	SPAB Library code/ ISBN
1	The Transformation of Nature in Art	Ananda Coomaraswamy, Kapila Vatsyayan	ISBN: 9788120716438
2	Crafts Atlas of India	Jaya Jaitly	ISBN: 9788189738372
3	Traditional knowledge systems and Archaeology: with special reference to Uttarakhand	D P Agrawal ed.	ISBN: 9788173053344
4	History of Architecture towards writing from an Indigenous Perspective	M N Ashish Ganju	720.9 HIS
5	Arts and Crafts Architecture	P Davey	724.5 DAV-A
6	Traditional Building: A global survey of structural forms and cultural functions	Allen G. Noble	ISBN: 9781890206628



7	Masterpieces of Traditional Indian Architecture	Satish Grover	720.954 GRO-M
8	Vernacular Architecture and Regional Design: Cultural Process and Environmental Response	Kingston Heath	720.103 HEA-V
9	Craft techniques for Traditional Buildings	A Wright	ISBN: 0713464194
10	Encyclopedia of Vernacular Architecture of the world	Paul Oliver	ISBN: 10:0521565220

MACO 0103

Option 1: Advanced Theory of Materials

Eligibility

Compulsory subject for students of M Arch (Conservation)

Objective

The objective is to understand the historic building materials their behavior and conservation process.

Contents

- Understanding Earth as a material in form of clay bricks, sundried bricks, terracotta, ceramic and others; its use in historic structures and conservation process
- Understanding Stone, its types as used in historic structures, causes of decay and its conservation process
- Understanding Wood, its types as used in historic structures, causes of decay and its conservation process
- Understanding Mortars including mud, lime, gypsum, cement and others; its types, its use in historic structures and conservation process
- Understanding Metals (Ferrous and Non Ferrous), its types as used in historic structures, causes of decay and its conservation process
- Understanding Glass, its types as used in historic structures, causes of decay and its conservation process
- Understanding Concrete, its types as used in historic structures, causes of decay and its conservation process
- Study of historic constructions as found in archaeological sites, identification of building materials, its use and conservation process
- Decay mechanism of materials and its remedial measures.
- Strengthening of building materials.
- New building materials.

Deliverables

- Students will acquire knowledge of technical aspects of conservation of historic building materials its process, decay mechanism, methods and site management skills.
- The assignments shall include on site observation and application to develop measures of conservation.



- Assignment will be in the form of site visit report, class reviews and tutorials covering topics mentioned above with suitable illustrations and supportive material

Suggested Readings

Sr No	Reading Material	Authors	SPAB Library code/ ISBN
1	Material and Skills for Historic building	Michael Forsyth	ISBN: 9781405111706
2	Conservation of Building Stones	V. A. Kumar	720.288 KUM-C
3	Practical Building Conservation: Conservation Basics	English Heritage	720.288 (CON) 1
4	Stone Crafts of Rajasthan : A Manual	Stone Craft Foundation	736.509544 STO
5	Timber	English Heritage	720.288 TIM
6	Mortars, Renders and Plasters	A Henry, J. Stewart	720.288 MOR
7	Lime and Lime mortars	A. D. Cowper	ISBN: 9781873394298
8	Roofing	C Wood, A. Henry	720.288 ROF
9	Metals	English Heritage	720.288 MET
10	Glass and Glazing	English Heritage	720.288 GLA

Option 2: Introduction to theory of Materials

Eligibility

Compulsory subject for students of Master of Conservation

Objective

The objective is to understand the historic constructions and traditional materials, their behavior and deterioration problems.

Contents

- Overview to historic construction in prehistoric, historic and archaeological sites in India.
- Introduction to building materials: location, formation, physical and chemical properties and sourcing of building materials.
- Characterization of materials and compatibility of its usage.
- Relationship between various historic building materials and historic buildings.
- Maintenance requirements of building materials.
- Diagnosis and assessment of defects in building materials by atmospheric elements.
- Remedial measures.
- New building materials.

Deliverables

- Students will acquire knowledge of traditional materials and their behaviour and workability.
- The assignments shall include on site observation and application to develop measures of conservation.
- Assignment will be in the form of site visit report, class reviews and tutorials covering topics mentioned above with suitable illustrations and supportive material



Suggested Readings

Sr No	Reading Material	Authors	SPAB Library code/ ISBN
1	Materials, technology, practice in historic heritage structures	Prikyl Richard	720.288 MAT
2	Conservation Science: Historic Material	Eric May and Marrk Jones	069.53 CON
3	Historic Building Construction	Donald Friedman	690.24 FRI-H
4	Heritage Masonry: Material and structures	S Synellakis	721.0441 HER
5	Conservation of Building Stones	V. A. Kumar	720.288 KUM-C
6	Why Use Lime, INTACH Publication	Sangeeta Bais	720.288 BAI-W
7	What are Lime Mortars, INTACH Publication	Gurmeet S. Rai, P. Desarkar	720.288 RAI-W
8	Maintaining and Repairing Old and historic buildings	John Cullinane	720.288 CUL-M
9	Building Construction Illustrated	FDK Ching	690 CHI-B
10	Low-tech, Light-tech and High-tech: Building in the Information Age	Klaus Daniels	721.04672 DAN-L

MACO 0104 Documentation and Communication Techniques

Eligibility

Compulsory subject for all students of Department of Conservation

Objective

The objective is to develop the necessary technical skills and competence required for the comprehensive documentation through the preparation of inventories, mapping and documentation of cultural resource for survey, analysis and recording. The subject will also expose the students to various modes and techniques in organizing data including GIS and other software. The module emphasizes the need for a methodical and systematic process for documentation as an essential basis for management of heritage and preparation of conservation plans. The section on Communication Techniques shall equip the students to competently communicate their thoughts and ideas in written, oral or visual form.

Contents

- Understanding and need for documenting any heritage sites.
- Difference between data and documentation.
- Introduction to various methods of data collection and documentation of heritage.
- Standards of documentation.
- Appropriate documentation techniques of various scales and components of cultural resources.
- Application of documentation techniques.
- Various modes and techniques of organizing data
- Linking, analyzing and interpretation of data assembled in documentation
- GIS and other software used for documenting heritage.



- Communicating documentation including technical skills and competence.

Deliverables

- Students shall acquire necessary skills towards documents and communication techniques.
- The assignments would include preparation of inventories, drawings and collection of data.
- Assignment will be in the form of reports, drawings and presentations. The students shall make progressive presentations for reviews at various stages.

Suggested Readings

Sr. No	Reading Material	Authors	ISBN/ Website
1	Recording, documentation, and information management for the conservation of heritage places: Guiding principles	Rand Eppich, Amel Cabbi, ed.	ISBN: 9781873394946
2	Architectural Heritage: Inventory and Documentation, Methods in Europe	French Ministry for education and culture	ISBN: 9287123411
3	Measurement and Recording of Historic Buildings	Peter Swallow	ISBN: 9781873394083
4	Surveying Historic Buildings	D Watt, P Swallow	ISBN: 9781873394670
5	Guide to recording Historic Buildings	ICOMOS	ISBN: 075061210X
6	Recording, documentation, and information management for the conservation of heritage place	Robin Letellier	ISBN: 9781873394946
7	Manual on Systems of Inventorying Immovable Cultural Property	Meredith H. Sykes	ISBN: 9789231020803
8	Landscape architecture documentation standards: principles, guidelines, and best practices	Design Workshop, Wiley	ISBN: 9780470402177
9	Preservation and Conservation Techniques for Manuscripts	Manoj Sinha	researchgate.net/publication/288955070_Preservation_and_Conservation_Techniques_for_Manuscripts
10	Communication Skills for Conservation Professionals	K Susan Jacobson	ISBN: 10: 1597263907

MACO 0105: Comparative Studies in Art and Architecture of India

Eligibility

Compulsory subject for all students of Department of Conservation

Objective

The objective is to understand the development of art and architecture in India, its diversity, appreciation and criticism. The students shall be exposed to the theory of parallel history, technological advancements of the era of study.

Contents

- Introduction to History and Theory of Art.



- Overview of architecture of India through times.
- Methodological concerns in comparative studies in Art and Architecture of India: Concerns related to the definition, scope, data collection, cultural bias, etc.
- Approaches and Perspectives 01: Aesthetic, formal and stylistic approaches
- Approaches and Perspectives 02: Social, cultural, semiotic and economic frame
- Approaches and Perspectives 03: Ethical, value-based and moral perspectives
- Built Heritage and Arts in India.
- Understanding stakeholders in Indian Art practice – Artisans, Craftsmen, Market, Conservators, Connoisseurs, and Community.

Deliverables

- Students will explore various approaches to comparatively study and understand art in Indian context.
- The assignment will involve identifying buildings of artistic and architectural significance whose history is not known or documented before and compare them to understand various themes discussed in the syllabus. The deliverable includes a detailed report of the study.

Suggested Readings

Sr. No	Reading Material	Authors	SPAB Library code
1	Art of India: Prehistory to the present	F. M. Asher	709.54
2	Design Development of Indian Architecture	C. Batley	722.4 BAT-D
3	Silpa in Indian tradition : Concept and Instrumentalities	R. N. Mishra	754 MIS -S
4	Concepts of space in traditional Indian Architecture	Y. Pandya	727.7 PAN-C
5	Temple Architecture of Eastern India	A. Khare	726.1450954 KHA-T
6	Islam: Art and Architecture	M.Hattstein, P. Delius	709.1767 ISL
7	Interpreting Mughal painting : Essays on art, society and culture	S. P. Verma	759.03 VER-I
8	Elements of Indian Art & Architecture	R. Nath	745.40954 NAT-E
9	Theory & Practice of Temple Architecture in Medieval India	Adam Hardy	720.954 HAR-T
10	Temples in South Asia	Adam Hardy ed.	726.1450954 TEM

MACO 0106: Conservation Studio I

Eligibility

Compulsory subject for all students of Department of Conservation

Objective

The objective is to experience and find solutions to the problems and issues confronting historic buildings/site. The studio incorporates the application of knowledge from the other subjects taught in the semester.



Contents

- Understanding historic building/s/site and its setting.
- Demarcation of historic sites and its relationship to surroundings.
- Understanding the building through contextual studies.
- Identification of function, use and condition of the buildings/site through site studies and oral histories.
- Using memory as a tool for conservation.
- Understanding the value of the building in the contemporary times.
- Maintenance, Management and Conservation of the buildings/site.

Deliverables

- Students shall study and find solutions to problems and issues confronting historic building/site.
- The studio shall be progressive work in-group. Deliverables shall include drawings and report. Progressive presentations shall be made for reviews at various stages.

Semester II

MACO 0201 Inter-cultural Competences

Eligibility

Compulsory subject for all students of Department of Conservation

Objective

The objective of the module is to sensitize students to the significance of cultural influences, to become aware of cultural differences and similarities, and to encourage others to interact and communicate efficiently with people of different disciplines and diverse cultural backgrounds.

Contents

- Inter-cultural and cross-cultural communication.
- Importance of verbal and non-verbal communication.
- Coding and Decoding of verbal and non-verbal communication in its cultural context.
- Developing skills for inter-cultural communication.
- Understanding relationship between culture and globalization.
- Understanding process of globalization to international politics including politics of/for heritage.
- Understanding the relationship between local culture and global citizenship.

Deliverables

- Students shall be equipped to interact and communicate with people of different disciplines and diverse cultural background.
- The assignments shall include application of skills in primary survey.
- Assignment will be in the form of reports, reviews and tutorials with suitable illustrations.



Suggested Readings

Sr. No	Reading Material	Authors	SPAB Library code/ ISBN
1	Intercultural Competence: Interpersonal Communication Across Cultures	Lustig Myron	ISBN: 9780060441296
2	Beginning theory: An introduction to literary and cultural theory, 2011	Peter Barry	801.95 BAR-B
3	Lateral and Parallel Thinking	Edward de Bono	ISBN-10:9781785040856
4	Thinking through Communication	Sarah Trenholm	ISBN: 9781138233904.
5	New thinking for the new millennium	Edward de Bono	153.42 BON-N
6	Cultural Studies: Theory and Practice	Chris Barker, Emma A. Jane	306 BAR-C.
7	Thinking through communication: an introduction to the study of human communication.	Sarah Trenholm	302.2 TRE-T
8	Six thinking hats: run better meetings, make faster decisions	Edward de Bono	153.42 DEB-S
9	Communication age: Connecting & engaging	Autumn Edwards, Chad Edwards, Shawn T. Wahl, Scott A. Myers	302.2 COM
10	Inclusive education across cultures: crossing boundaries, sharing ideas	Mithu Alur	ISBN: 9788178299037

MACO 0202: Authenticity and Integrity

Eligibility

Compulsory subject for all students of Department of Conservation

Objective

The objective is to introduce debates and understand concepts of authenticity and integrity. The subject will elaborate authenticity in terms of functions forms, designs, materials and location and Integrity as the wholeness of the heritage.

Contents

- Defining authenticity and integrity
- The context of Nara document and its importance on defining heritage.
- Role of traditional knowledge system in defining authenticity and integrity.
- Authenticity and integrity in Indian context with emphasis of ASI conservation policy, INTACH Charter for the conservation of unprotected architectural heritage and sites in India.
- Traditional concepts of reconstruction like – *Jeernodhar* in light of authenticity and integrity.
- Authenticity and integrity as a bench mark of heritage.
- Application of authenticity and integrity in conservation.

Deliverables

- Students shall learn the theory and practice of concepts of authenticity and integrity.
- The assignments shall include application of authenticity and integrity in conservation.



- Assignment will be in the form of a report, class reviews and tutorials covering topics mentioned above with suitable illustrations and supportive material

Suggested Readings

Sr. No	Reading Material	Authors	ISBN/ Website
1	NARA conference on authenticity in relation to the world heritage convention: Nara, Japan, 1-6 November 1994: proceedings	Kunt Einar Larsen	ISBN: 8251914167
2	HOI AN Protocols for Best Conservation Practices In Asia	UNESCO	ISBN: 9789292232429
3	Authenticity in architectural heritage conservation: discourses, opinions, experiences in Europe, South and East Asia.	Katharina Weiler, Niels Gutschow	ISBN: 9783319305226
4	Revisiting Authenticity in the Asian Context	Gamini Wijesuriya, Jonathan Sweet	ISBN: 9789290772835
5	Considerations on Authenticity And Integrity in World Heritage Context	Jukka Jokilhto	http://www.cecib.org/novo/revista/docs2006/CT-2006-44.pdf
6	Charter for the Conservation of Unprotected Architectural Heritage and Sites in India	INTACH	http://www.intach.org/about-charter.php
7	Operational Guidelines for the Implementation of the World Heritage Convention	World Heritage Centre	https://whc.unesco.org/en/guidelines
8	Management Guidelines for World Cultural Heritage Sites	Bernard Feilden, Jukka Jokilhto	ISBN: 929077150 X
9	A Definition of Authenticity Concept in Conservation of Cultural Landscape	Nezhad, Fadaei Somayeh, Parastoo Eshrati	Archnet-IJAR, Volume 9 - Issue 1 - March 2015
10	Authentic Reconstruction: Authenticity, Architecture and the Built Heritage	John Bold, Peter Larkham, Robert Pickard	ISBN: 9781474284042

MACO 0203 Cultural Landscapes

Eligibility

Compulsory subject for all students of Department of Conservation

Objective

The objective is to build understanding of cultural landscapes as a product of nature-culture relationship. The subject will elaborate on protection and management of cultural landscape including sacred landscapes in India.

Contents

- Definition and concept of Cultural Landscapes including nature-culture relationship.
- Methodology of defining and recognizing Cultural Landscapes/ Regions by various agencies.
- Techniques for assessing the cultural values of a Cultural Landscapes/ Region.
- Demarcating Cultural Landscapes through various parameters like sacred, political, physical, natural, linguistic boundaries etc. and methods to map them.



- Concept of Indian cultural Landscape including sacred landscapes/ regions and historic religious cities.
- Understanding the variation between the Indian Cultural Landscape and UNESCO defined Cultural Landscape.
- Protection Management and Conservation of Cultural Landscapes /Regions.
- Understanding the difference between visitor and pilgrim management especially in managing the sacred landscapes in India.

Deliverables

- Students shall acquire knowledge about uniqueness of sacred and cultural landscapes and its importance in Indian and Western context.
- The assignments would include application of concepts towards identification, demarcation and mapping of cultural landscapes.

Suggested Readings

Sr. No	Reading Material	Authors	SPAB Library code
1	Cultural Landscape: An introduction to human geography	James M Rubenstein	304.2 RUB-C
2	The Conservation of Cultural Landscapes	M. Agnoletti	304.2 CON
3	Conserving Cultural Landscape: Challenges & new directions	Ken Taylor, Clair, St. Archer, Nora Mitchell	304.2 CON
4	Heritagescapes and Cultural Landscapes	Rana P.B Singh	302.2 HER
5	New cultural landscapes	Roe Maggie	363.69 NEW
6	Hybrid geographies: natures, cultures, space	Sarah Whatmore	304.2 WHA-H
7	Managing Cultural Landscapes	Ken Taylor, Jane Lennon	304.2 CON
8	Managing and Designing Landscapes for Conservation: moving from perspectives to principles	Lindenmayer, B.David, Richard Hobbs.	712 MAN
9	Making of the Indian landscape	Aditi Chatterji	307.76 CHA-M
10	River valley cultures of India	K.K Chakravathy	934.02 RIV

MACO 0204

Option1: Structural Systems

Eligibility

Compulsory subject for students of M. Arch (Conservation)

Objectives

The objective is to induce a better understanding of a structure and its behavior of historic constructions. The focus is on analysis and interventions to historic building structure.

Contents

- Overview of construction techniques and structural components in a historic structure.
- Understanding various types of historic structural systems



- Understanding the behavior of various elements and structure as a whole.
- Understanding the failure and distress in historic structures and development of new forms.
- Understanding various techniques for structural analysis.
- Inspection and diagnosis of structures.
- Past remedial measures and its impact to the structures.

Deliverables

- Students shall acquire knowledge about historic structures.
- The assignments shall include observations of actual structure and interpret the structural systems.
- Assignment will be in the form of reports, reviews and tutorials with suitable illustrations.

Suggested Readings

Sr. No	Reading Material	Authors	SPAB Library code/ ISBN
1	Structures: Why things don't fall down	J. E Gordon	ISBN: 1417544341
2	Developments in Structural form	Rowland Mainstone	ISBN: 9780713903331
3	Structural Appraisal of Historic Buildings	P Robson	ISBN: 9781873394687
4	Structural aspects of building conservation	Paul Beckmann	690.24 BEC-S
5	Structural Conservation of Monuments in South India	K.L Murthy	720.954 MUR-S
6	Structural analysis of Historic buildings	Rabun, J.Stanley	720.288 RAB-S.
7	Structural studies, Repairs & maintenance of Heritage Architecture XII	C.A Brebbia	721.0288 STR.
8	Structures and Construction in Historic Building Conservation	Michael Forsyth	ISBN: 9781405111713
9	The conservation and structural restoration of Architectural Heritage	Giorgio Croci	720.288 CRO-C.
10	Developments in Structural Form	Mainstone Rowland	ISBN: 9780750654517

OPTION 2: Heritage-led Regeneration

Eligibility

Compulsory subject for students of Master in Conservation

Objective

The objective is to explore various options of minimal intervention and choosing the appropriate option balancing the heritage needs and development needs in a given context. It shall build the skills towards analyzing and developing cultural infrastructure through principles of traditional knowledge systems.

Contents

- Principles of intervention and need of minimal intervention.
- Scales, Components and Degree of Intervention.
- Exploring and choosing, appropriate options of Intervention.
- Planning Intervention.
- Cultural vibrancy of the place: People, Quality of life, Intangible heritage etc.
- Regeneration process and its critical consideration like physical and cultural infrastructure.



- Heritage Conservation as a tool for Urban Regeneration.
- Evaluation including evaluating a completed project for its efficacy of interventions; evaluating a project for its adaptive reuse and understanding the impact of proposed interventions on conservation project.

Deliverables

- Students shall explore various options of intervention in the heritage context.
- Students shall be equipped with skill to develop cultural infrastructure.
- Assignments shall include identification of cultural properties, selecting the right option and planning interventions and explore heritage conservation as a tool of Urban Regeneration.

Suggested Readings

Sr. No	Reading Material	Authors	ISBN
1	Architectural Regeneration	Aylin Orbasli, Marcel Vellinga	ISBN: 9781119340331
2	Tourism, Cultural Heritage and Urban Regeneration	Nicholas Wise, Takamitsu Jimura	ISBN: 9783030419059
3	Aga khan historic cities programme: Strategies for urban regeneration	Philip Jodidio	ISBN:9783791344065
4	Heritage and Sustainable Urban Transformations: Deep Cities	Fouseki Kalliopi ed.	ISBN:9781138615274
5	Conservation-led Regeneration: The Work of English Heritage	English Heritage	ISBN: 9780889374300
6	Partnership, Collaborative Planning and Urban Regeneration	John McCarthy	ISBN: 9780754613756
7	The Economics of Uniqueness: Investing in Historic City Cores and Cultural Heritage assets for sustainable Development	Guido Licciardi, Rana Amirtahmasebi	ISBN: 9780821397060
8	Conservation in the Age of Consensus, Routledge	John R. Pendlebury	ISBN: 0415249848
9	Chronicity: The Assessment of Built Heritage for Developable and Creative Change, Alinea, Editrice	Babalis Dimitra	ISBN:8860555523
10	The New Economy of the Inner City: Restructuring, Regeneration and dislocation in the twenty first century Metropolis	Thomas A Hutton	ISBN:203933656

MACO 0205: Open Elective

Eligibility

Compulsory subject for all students of Department of Conservation

Objectives

Students are encouraged to explore a specific type of heritage and develop research skills

Contents

- Skills towards technical writings.
- Research Design and Methodologies includes social research methods.
- Writing Abstract



- Forms of data collection and data presentation.
- Writing Research Analysis and Conclusion.
- Writing Bibliography/References/Sources of information

Deliverables

A research paper of ten thousand words.

Suggested Readings

Sr No	Reading Material	Authors	SPAB Library code/ ISBN
1	Architectural Research Methods, John Wiley and sons, 2002	Linda Groat, David Wang	ISBN:0471333654
2	Writing a Qualitative Research	Harry F. Wolcott	ISBN: 9781412970112
3	A Manual For Writers For Research Paper, Thesis And Dissertation, Chicago, 2007	Kate Turabian	ISBN: 0226823385
4	Qualitative communication research methods	Thomas R Lindlof, Brayan C. Tylor	ISBN: 9781412974738.
5	Heritage Studies: Methods and Approaches	Marie Louise, Stig Sorensen, John Carman	ISBN: 9780415431859
6	How to Write a Historic Structure Report	David Arbogast	ISBN: 9780393733600
7	Research methods in the social sciences	Bridget Somekh ed.	300.72 RES
8	Your research project: a step-by-step guide for the first-time researcher	Nicholas Walliman	001.42 WAL-Y
9	Quantitative Social Research Methods	Kultar Singh	300.72 SIN-Q
10	Conducting Research in Conservation: Social Science Methods and Practice	Newing Helen	ISBN: 9781136934391

MACO 0206: History of Conservation

Eligibility

Compulsory subject for all students of Department of Conservation

Objective

The objective is to introduce personalities, ideologies and various philosophies that helped to formulate the principles of conservation discipline, as it exists today in India and abroad. The students shall be introduced to the various charters and development of UNESCO as the global agency and its role in the field of conservation.

Contents

- Difference between archeology and conservation.
- History of conservation movement and emergence of conservation as a theory and profession.
- Definitions and terminologies in conservation.
- Principles and approaches of conservation.
- Emerging concepts in heritage.
- National policy for conservation of the ancient monuments, archaeological sites and remains (NPC – AMASR)



- UNESCO, World Heritage Centre and World Heritage Sites.
- Application of principles, approaches and concepts of conservation in practice.

Deliverables

- Students shall be acquainted with the philosophies and principles of conservation.
- The assignments shall include studies of various charters and roles of various organisations in conservation.
- Assignment will be in the form report, class reviews and tutorials covering topics mentioned above with suitable illustrations and supportive material

Suggested Readings

Sr. No	Reading Material	Authors	SPAB Library code/ ISBN No/ Website
1	The Conservation Movement: A History of Architectural Preservation	Miles Glendinning	720.288 GLE-C
2	A History of Architectural Conservation	Jukka Jokilehto	https://www.iccrom.org/sites/default/files/ICCROM_05_HistoryofConservation00_en_0.pdf
3	Protecting the cultural heritage: National Legislation and International Conventions	S. S.Biswas	344.094 BIS-P
4	Heritage and development: Recent Perspectives.	INTACH	720.288 HER.
5	Conservation: principles, dilemmas and uncomfortable truths	A. Bracker, A. Richmond ed.	363.69 CON
6	Care and administration of heritage monuments in India	Dhirendra Kumar Pant	725.940954 PAN-C
7	Revealing India's Past (COSMO PUBLICATION)	Sir John Cumming	ISBN: 81-307-0087-5
8	National Policy For Conservation Of The Ancient Monuments, Archaeological Sites And Remains, 2014	Archeological Survey of India	https://asi.nic.in/wp-content/uploads/2018/11/national-conservation-policy-final-April-2014.pdf
9	Approaches to the Archaeological Heritage: A Comparative Study of World	Cleere Henry	ISBN:9780521243056
10	Conservation practices on archaeological excavations: Principles and methods	Corrado Pedeli	930.1028 PED-C

MACO 0207 Conservation Studio II

Eligibility

Compulsory subject for all students of Department of Conservation

Objective

The objective is to introduce the problems and issues confronting historic core and urban areas.

Contents

- Understanding historic core and its linkage to developing city.



SCHOOL OF PLANNING AND ARCHITECTURE, BHOPAL
(An Autonomous Institution of MHRD, Govt. of India)

- Demarcation of historic core and its relationship to surroundings.
- Understanding the historic core in terms of cultural and built environments.
- Identification of heritage of the historic cores both tangible and intangible.
- Value of the historic core and its contributions in the developing city/ region.
- Preparation of Cultural and Built heritage plan.

Deliverables

- Students shall study and find solutions to problem and issues confronting historic core/urban areas.
- The studio shall be progressive work in-group. Deliverables shall include drawings and report. Progressive presentations shall be made for reviews at various stages.

Semester III

MACO 0301 Thesis Programming

Eligibility

Compulsory subject for all students in Department of Conservation

Objective

The objective is to formulate a well-researched thesis proposal.

Contents

- Identification of Research Domain.
- Identification of sources of information.
- Developing theoretical and contextual framework.
- Identification of research gap.
- Finalization of Thesis synopsis.

Deliverables

- Finalization of thesis synopsis
- Completion of literature review for thesis.

Suggested Readings

Sr. No	Reading Material	Authors	SPAB Library code/ISBN
1	How to write a Master's Thesis	Yvonne N.Bui	808.2 BUI-H
2	Student's guide to writing dissertations and theses in tourism studies and related disciplines	David Tim Coles, Timothy Duval, Gareth Shaw	338.4791 COL-S
3	Writing successful reports and dissertations	Lucinda Becker	001.4 BEC-W
4	Doing qualitative research: a practical handbook	Dived Silverman	300.723 SIL-D
5	Writing and doing action research	Jean McNiff	300.72 MCN-W
6	Thesis writing: A manual for researchers	Abdul Rahim	ISBN: 81-224-0542-8



7	The Post-Graduate handbook: Writing and supervising a Master's thesis- Deductive theoretical approach	Charbel Salloum, Jacques Digout	ISBN: 9791094635049
8	Theoretical frameworks in qualitative research	Vincent A. Jr.Anfara, Norma T.Mertz	ISBN: 9781483355283
9	The dissertation journey: A practical and comprehensive guide to planning, writing, and defending your dissertation	Carol M.Roberts,	ISBN: 9780761938873
10	Research Methodology Techniques: Understanding How to Write, Present and Defend Any Research Report	Stephen Sharang	ISBN: 9798605231110

MACO 0302 Common Pool Elective

Subject offered by postgraduate programmes or centers' of SPA Bhopal. All postgraduate students can join any subject offered by any programme.

The subjects offered by Department of Conservation are as under:

Option 1: Museology

Objective

The objective is to train and develop skills for Museum Design.

Contents

- Introduction to Museums.
- Collections and Artifacts.
- Determinants for planning of museums.
- Standards and principles for designing of Museums.
- Vertical and horizontal circulation in Museums.
- Museum environments and designing New Museums.
- Adapting existing structures for Museums.

Deliverables

- Assignment will be in the form of a report, site visit report, class reviews and tutorials covering topics mentioned above with suitable illustrations and supportive material.

Suggested Readings

Sr. No	Reading Material	Authors	SPAB Library code/ ISBN
1	Museum: Design the Future	George Jacob	ISBN: 1439235740
2	Reshaping Museum Space	Suzanne Macleod	ISBN: 0203483227
3	Manual of Museum Planning: Sustainable Space, Facilities, and Operations	Barry Lord, Dexter Gail Lord, Martin Lindsay	ISBN: 0759121478
4	Museum Management	Kevin Moore	ISBN: 1134830653
5	Museums in motion: An introduction to the history and functions of museums	Edward Alexander Porter	ISBN: 075910509X



6	Relevance of museum and museology in modern society	Vibha Upadhyaya	069.53 REL
7	Of muses, museums and museology	Ananda Bose, Manvi Seth	069.0954 OFM
8	Museums and protection of monuments and antiquities in India	H.Sarkar	069.53 SAR-M
9	Museum and gallery: Time and place consideration	U.Lee ed.	727.6 MUS
10	Educational role of the museum	Greenhill Hooper, Eilean ed.	069 EDU

Option 2: Disaster Management of Cultural Resources

Objective

The objective is to train and develop skills for Disaster Management of Cultural resources.

Contents

- Introduction to Disaster Management.
- National Disaster Management System of India.
- Analyze the vulnerability of cultural heritage for physical, socio economic and political risks.
- Risks to Cultural Resources during Disaster.
- Techniques and Strategies for mitigating risks to cultural heritage.
- Protecting Cultural Heritage in times of conflict and other emergencies.
- Planning for post-disaster recovery of cultural heritage.

Deliverables

- Assignment will be in the form of a report, site visit report, class reviews and tutorials covering topics mentioned above with suitable illustrations and supportive material.

Suggested Readings

Sr. No	Reading Material	Authors	SPAB Library code/ ISBN
1	Introduction to natural and man-made disasters and their effects on buildings	Roxanna McDonald	690.24 MCD-I
2	Disaster management handbook	Jack Pinkowski	363.34 DIS
3	National disaster management guidelines: Cultural heritage sites and precincts	National Disaster Management Authority	363.34 NAT
4	Disaster risk management: Conflict and cooperation	Raja Suman Sensarma	363.348 DIS
5	Recent approaches on disaster management	Anish Misra	363.34 MIS-R
6	Disaster management	Harsh K.Gupta	ISBN: 8173714568
7	Disaster management	Vinod K.Sharma	363.34 DIS
8	Disaster preparedness and rehabilitation	Rajesh K.Yadav, Rajbir Singh	658.477 YAD
9	Post-disaster reconstruction of the built environment: Rebuilding for resilience	Dilanthi Amaratunga, Richard Haigh	690.24 POS



10	Dealing with disaster: Public management in crisis situations	Saund Schneider	363.34560973 SCH-D
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Option 3: Subject offered by other postgraduate programmes or centers' of SPA Bhopal.

MACO 0303

Option 1: Strengthening and Retrofitting

Eligibility

Compulsory subject for students of M. Arch (Conservation)

Objective:

The objective is to understand the behavior, repair and strengthening solutions of structural system of historic structures and also upgrading them to cater to the contemporary demands and needs.

Contents

- Understanding repair and strengthening in historic structures.
- Understanding various methods of strengthening of historic structures.
- Understanding the failure and distress in historic structures.
- Understanding degradation and repair of materials.
- Assessment and diagnosis of structural system of the structures.
- Overview of various advance techniques of strengthening and retrofitting.
- Remedial measures and solutions for strengthening and retrofitting of structures.
- Estimation including extracting information from documentation and preparation of estimates; writing specification for various items; rate analysis for special items and sequencing of items.

Deliverables

- Students will acquire skills to find appropriate remedial measures and solutions for strengthening and retrofitting of structure.
- Assignments will include on site observation and analysis and formulating proposal for remedial measures and solutions for strengthening and retrofitting of a structure.
- Assignment will be in the form of reports, reviews and tutorials with suitable illustrations.

Suggested Readings

Sr No	Readings	Authors	SPAB Library code/ ISBN
1	Conservation and structural restoration of architectural heritage	Giorgio Croci	720.288 CRO-C
2	Repair of Ancient Buildings	A. R.Powys	ISBN: 189885601X
3	Guidelines for conservation: A technical manual	Bernard Feilden	363.69 FEI-G
4	Conservation Manual: A handbook for the use of Archaeological Officers and others entrusted with the care of ancient monuments	John Marshall	721.0288 MAR-C
5	Lighting Retrofit and Relighting: A Guide to green lighting solutions	James R.Benya	621.321 BEN-L



6	Sustainable Home Refurbishment : The Earthscan expert guide to retrofitting homes for efficiency	David Thorpe	696 THO-S
7	Heritage buildings and precincts, Mumbai: A conservation manual for owners & occupiers	Nayana Kathpalia ed.	720.288
8	The stone skeleton	J.Heyman	693.1 HEY-S
9	Heritage conservation: Preservation and restoration of monuments	N. L. Batra	720.288 BAT-H
10	Maintaining and repairing old and historic buildings	John J.Cullinane	720.288 CUL-M

Option 2: Intangible Heritage

Eligibility

Compulsory subject for students of Master in Conservation

Objective

The objective is to develop theoretical and professional knowledge towards understanding of intangible heritage.

Contents

- Historical context, concepts and standards of intangible heritage
- Form and development of Intangible Heritage
- Mapping and Documenting Intangible Heritage
- Correlation between the intangible and tangible heritage
- Representing, curating and communicating Intangible Heritage
- Methods for Safeguarding the Intangible Heritage

Deliverables

- Students shall acquire background knowledge and understanding of key concepts and apply the skills and ideas to safeguard the intangible heritage.
- Assignment shall include mapping, documenting and preparation of safeguarding plans for various intangible heritages.

Suggestive Readings

Sr. No	Reading Material	Authors/ Editor	SPAB Library code/ ISBN
1	Intangible cultural heritage and intellectual property: Communities, cultural diversity and sustainable development	T. Kono ed.	346.048 INT
2	Ritual, heritage and identity: The politics of culture and performance in a globalized world	Christiane Brosius	203.8 RIT
3	Anthropological Perspectives on Intangible Cultural Heritage	Lourdes Arizpe, Cristina Amescua	ISBN: 3319008552
4	Intangible Heritage Embodied	Fairchild Ruggles, Helaine Silverman	ISBN: 9781441900722



5	Intangible heritage: Protecting the living heritage of the North East	Rajeshwari Tondon	306.028809541 INT
6	Documenting India's intangible cultural heritage	Nerupama Modwel	306.09540288 MOD-D
7	Intangible Heritage: Key Issues in Cultural Heritage	Laurajane Smith, Natsuko Akagawa	ISBN: 0203884973
8	The 2003 UNESCO Intangible Heritage Convention: A Commentary	Janet Blake, Lucas Lixinski	ISBN: 0192558226
9	Cultural Heritage in Transit: Intangible Rights as Human Rights	Deborah Kapchan	ISBN: 0812245946
10	Safeguarding Intangible Heritage: Practices and Politics	Natsuko Akagawa, Laurajane Smith	ISBN: 0429016409

MACO 0304

Option 1: Built Heritage management

Eligibility

Compulsory subject for students of M. Arch (Conservation)

Objective

The objective is to understand the scientific approach of cultural studies and cultural theories related to perception and interpretation of heritage.

Contents

- Developing conceptual understanding of Heritage management.
- Identifying cultural assets through interpreting built heritage.
- Different Approaches and Methodologies for management of built heritage.
- Understanding and exploring various components of Built Heritage management.
- Preparation of a various Management Plans for built heritage including conservation plan, conservation management plan, maintenance plan etc.
- Introduction to program of action, implementation and monitoring aspects in heritage management.
- Determining the economic dimension of cultural assets.
- Understanding impact of Cultural tourism on Built Heritage Management.
- Studying multidisciplinary aspects of Built heritage management.

Deliverables

- Students will explore various approaches of built heritage management.
- The assignments shall deal with the core subject individually along with case studies shall lead to holistic understanding of Heritage management.
- Assignment will be in the form of a report, site visit report, class reviews and tutorials covering topics mentioned above with suitable illustrations and supportive material



Suggested Readings

Sr. No	Reading Material	Authors	SPAB Library code/ ISBN No./ Websites
1	Management Guidelines for Cultural Heritage Sites	Bernard Feilden, Jukka Jukilehto	https://www.iccom.org/sites/default/files/201802/1998_feilden_management_guidelines_eng_70071_light_0.pdf
2	Guidelines for preparation of a heritage management plan	Benny Kuriakose, Nupur Prothi Khanna, Malvika Bajaj Saini	INTACH publication
3	Aspects of Management Planning for Cultural World Heritage Sites: Principles, Approaches and Practices	Simon Makuvaza ed.	ISBN: 9783319698564
4	Heritage Studies: Methods and Approaches	Marie Louise Stig, John Carman Sorensen	ISBN: 9780203871713
5	Urban Heritage Management: Planning with History	M.A. Colavitti	ISBN: 9783319723389
6	Case for National Policy for heritage conservation and management: INTACH	Rajeshwari Tandon	344.54094 CAS.
7	Conservation and planning : changing values in policy and practice	Edward Hobson	720.47 HOB-C
8	Management of heritage tourism for sustainable development	Arun Gupta ed.	338.4791 MAN
9	Managing world heritage sites	Anna Leask ed.	363.69 MAN
10	Heritage values in site management: four case studies	Marta De la Torre	363.69 HER

Option 2: Cultural Heritage management

Eligibility

Compulsory subject for students of Masters in Conservation

Objective

The objective is to understand the processes associated with preparation of cultural heritage management through perception and interpretation of heritage.

Contents

- Developing conceptual understanding of Heritage management.
- Synergies between the tangible and intangible aspects of cultural heritage towards heritage management.
- Exploring cases of International Practice and Contextual Applications.
- Understanding and exploring various components of Cultural Heritage management.
- Determining the economic dimension of cultural resources.
- Introduction to program of action, implementation and monitoring aspects in heritage management.



- Understanding people centric approaches.
- Understanding impact of Cultural tourism on Built Heritage Management.
- Studying multidisciplinary aspects of Cultural heritage management.

Deliverables

- Students will explore various approaches of built heritage management.
- The assignments shall deal with the core subject individually along with case studies shall lead to holistic understanding of Heritage management.
- Assignment will be in the form of a report, site visit report, class reviews and tutorials covering topics mentioned above with suitable illustrations and supportive material

Suggested Readings

Sr. No	Reading Material	Authors	SPAB Library code/ISBN
1	Cultural Heritage Care and Management: Theory and Practice	C. L. Salvatore, ed.	ISBN 9781442272187
2	Geophysical Methods for Cultural Heritage Management	M. Cozzolino, E. Di Giovanni, P.Mauriello, D.Zamuner	ISBN 9783030090777
3	Managing our cultural heritage	Xavier Greffe	ISBN 9788173052149
4	Managing cultural heritage: An international research perspective	Luca Zan	ISBN 9781472440365
5	Cultural Heritage Management: Building Bridges	Joëlle Clark	ISBN 9781441904652
6	Cultural Heritage Management: Project Management	Jeffrey H.Altschul	ISBN 9781441904652
7	Asian regional cooperation conference 2008: Heritage management, conservation, education & tourism	Rajeshwari Tondon,	INTACH Publication
8	Cultural Heritage Management: International Practice and Regional Applications	Ken Taylor	ISBN 9781441904652
9	Cultural Heritage Management: A Global Perspective	Phyllis Mauch Messenger, George S.Smith	ISBN 9780813034607
10	Cultural heritage care and management: Theory and Practice	Salvatore, Lizama Cecilia	ISBN 9781442272170

MACO 0305 Conservation Practice in India and abroad & Professional Training

Eligibility

Compulsory subject for all students of Department of Conservation

Objective

The objective is to understand relationship between laws with their jurisdiction, its relationship to conservation practice and to introduce all aspects of professional project works and importance of the conservation professional.



Contents

- Protected and unprotected heritage in India.
- Laws and its jurisdiction
- Laws for protection of heritage in India
- Legal protection under Ancient Monuments and Archaeological Sites and Remains Act of 1958 with all its amendments (July 1992 notification and The Ancient Monuments and Archaeological Sites and Remains (Amendment and Validation) Act, 2010) and the corresponding State Acts.
- Role of Archeological Survey of India, National Monument Authority, etc in protection of heritage in India.
- Legal systems of protection of heritage across the globe.
- Various plans for conservation including, management plan, conservation plan, etc and its statutory status.

Training

- Training is an opportunity to test knowledge and implement studies in conservation for practice.
- The training is for hands-on experience towards acquisition of skills.
- The training is expected to take place at a working site with pre approval of institute for a period of minimum six weeks in summer vacation between semester II and semester III.
- The training can take place with a master craftsman, an architect or engineer office with a practice in conservation, and/or any government organization/NGO/private organization/ owner with live conservation project.
- Training shall enhance ability to handle real life situation and dynamics of conservation.

Deliverables

- Students shall learn about laws for protection of heritage in India.
- Assignments shall be based on legal documents and their reviews.
- Assignment will be in the form of reports, reviews and tutorials with suitable case studies.
- Students shall acquire skill to develop and appraise project.
- Assignment to include preparation of tender document for a conservation project.

Suggested Readings

Sr. No	Reading Material	Authors	ISBN / Website
1	CPWD Contract Document	CPWD	cpwd.gov.in/manualvolume2.pdf
2	Construction Contracts, Law and Management	Will Hughes, Ronan Champion, John Murdoch	ISBN: 9780415393690
3	Projects	Prasanna Chandra	ISBN: 9780070077935
4	Contracts and their Management	BS Ramaswamy	ISBN: 9788180381713
5	Analysis of rates for Delhi	CPWD	cpwd.gov.in/deputation/ar1-final.pdf
6	Specifications for Building conservation: Volume 1: External Structure	Rory Cullen, Rick Meier	ISBN: 9781317427698
7	Historic Preservation: Project Planning and Estimating	Hayden Swanke	ISBN: 9780876295731



8	Metric survey specifications for cultural heritage	Paul Bryan,Bill Blake, Jon Bedford, David Barber,Jon Mills	ISBN: 9781848021716
9	Art and cultural heritage: Law, policy and practice	Barbara T. Hoffman	ISBN: 9780521857642
10	Building conservation contracts and grant aid: A practical guide	Ken Davey	ISBN: 0419171401

MACO 306 Conservation Studio III

Eligibility

Compulsory subject for all students of Department of Conservation

Objective

The objective is to introduce the students to the identification of heritage, problems and issues confronting heritage at a regional scale.

Contents

- Understanding heritage at a regional scale including cultural landscapes/ regions/sacred groves with built heritage etc.
- Identification of heritage with a knowledge system approach.
- Demarcation of the heritage area through various jurisdictions and cultural boundaries.
- Identification of interdependency within the region for both tangible and intangible aspects.
- Understanding the needs of heritage management and development towards sustainable future.
- Preparation of heritage management strategy.

Deliverables

- Students shall study and find solutions to problem and issues confronting heritage at regional scale.
- The studio shall be progressive work in-group. Deliverables shall include drawings and report. Progressive presentations shall be made for reviews at various stages.

Semester IV

MACO0401

Option 1: World Heritage Studies

Eligibility

Optional subject for all students of Department of Conservation

Objective

The objective is to develop skills required for protection, management and presentation of World Heritage Sites.

Contents

- UNESCO convention and its structure.



- Organization of World Heritage Committee and its roles
- Operational Guidelines.
- Outstanding Universal Values
- Associated organizations and bodies
- Process of Nomination.
- Nomination Dossiers.
- Requirements of Management of World Heritage Sites.
- Facilitation requirements.
- Impact of nomination of World Heritage Site on socio economic condition of the surroundings.

Deliverables

Students will acquire knowledge about nomination process of World Heritage Site. Assignment shall include preparation of tentative list document for a given site.

Suggested Readings

Sr. No	Reading Material	Authors	SPAB Library code/ ISBN/ Website
1	Convention concerning the protection of the World Cultural and Natural Heritage: adopted by the General Conference at its 17th session, Paris. UNESCO 1972	UNESCO	https://whc.unesco.org/archive/convention-en.pdf
2	Operational Guidelines for the implementation of World Heritage Convention	UNESCO World Heritage Centre	https://whc.unesco.org/document/178167
3	Managing world heritage sites	Anna Leask ed.	363.69 MAN
4	Guide to UNESCO world heritage site in India	A. K. Khanna	ISBN: 8190415808
5	Journal of heritage studies: An Indian journal on conservation	Neena Rajan ed.	ISBN: 9788189988821
6	Historic heritage sites of the world	R.S Khatri	363.69 KHA-H
7	Preparing World Heritage Nominations	UNESCO	ISBN: 9789231041945
8	Uniting differences: Universal design for exploring the world heritage sites in India	Rachna Khare	720.80954 UNI
9	The Politics of World Heritage: Negotiating Tourism and Conservation	Harrison David, Michael Hitchcock	ISBN: 9781845410094
10	World Heritage Sites and Indigenous Peoples' Rights	Stefan Disko, Helen Tugendhat	ISBN: 9788792786548

Option 2: Global Policies for Heritage Protection

Eligibility

Optional subject for all students of Department of Conservation

Objective

The objective is to enhance the understanding of international approaches towards conservation and influence of international politics in heritage conservation.

Contents

- Development of Risk Preparedness measures for heritage protection.
- Digital Built heritage and its relevance in modern times.
- Smart Heritage and its relationship to smart cities
- Sustainability of Conservation projects.
- Importance of Accessibility of Heritage Sites.
- Capacity Building of officers, local communities towards heritage protection.
- Concept of Sustainability relevant to Conservation in terms of climate change.

Deliverables

- Students will acquire knowledge about various international approaches and innovative technologies in conservation.
- The assignments shall include the study of the approaches mentioned and explore the influence in conservation.

Suggested Readings

Sr. No	Reading Material	Authors	ISBN / Website
1	Heritage values in site management: four case studies	De la Torre, Marta De la Torre ed.	ISBN: 0892367970
2	Values in Heritage Management: Emerging Approaches and Research Directions	Avrami ed.	ISBN: 160606620X
3	Handbook on the Economics of Cultural Heritage	Rizzo, I., and A. Mignosa	ISBN: 0857931008
4	Cultural Tourism and Sustainable Local Development	L. F. Girard, P. Nijkamp	ISBN: 075467391X
5	Tourism, Culture and Heritage in a Smart Economy	V. Katsoni ed.	ISBN: 3319477323
6	Universal methods of design: Bruce Hanington and Bella martin100 ways to research complex problems, develop innovative ideas and design effective solutions/	Bella Martin	ISBN: 9781592537563
7	Digital heritage: Applying digital imaging to cultural heritage	Lindsay MacDonald	ISBN: 9780750661836
8	International Law and the Protection of Cultural Heritage	Craig Forrest	ISBN: 0415467810
9	Heritage Conservation of the World's Protected Areas	Mendes Silvio Zancheti	https://www.researchgate.net/publication/307756204_Heritage_Conservation_of_the_World's_Protected_Areas



10	Preservation of Cultural Heritage and Resources Threatened by Climate Change	Bertolin Chiara	ISBN: 9783039211241
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Option 3: Heritage Economics

Eligibility

Optional subject for all students of Department of Conservation

Objective

The objective is to develop understanding of heritage as an economic asset and acquaint with the economic aspects and model for cultural heritage.

Contents

- Valuation of the heritage including assessment of the existing economic value of the heritage.
- Understanding how conservation decisions are shaped by different ways of valuing heritage.
- Understanding Economic value versus Cultural value.
- Understanding budgeting for the heritage projects.
- Financial Arrangements including various funding models and sponsorship for heritage projects.
- Generation of economic opportunities for heritage.
- Economic model of visitor attraction.
- Business model for Heritage Tourism and its impact on heritage protection.
- Partnerships for heritage projects and heritage tourism.

Deliverables

Students shall acquire knowledge and skills to develop economic models applied to cultural heritage. Assignment shall include preparation for business and economic model for visitor attraction/heritage tourism for heritage site.

Suggested Readings

Sr No	Readings	Authors	ISBN
1	The Value of Culture: On the Relationship between Economics and Arts	A. Klammer ed.	ISBN: 90-5356-219-2
2	The Value of Conservation?: A literature review of the economic and social value of the cultural built heritage	G. Allison, S. Ball, P. Cheshire, A. Evans, M. Stabler	ISBN: 9781850746584
3	Culture Incorporated: Museums, Artists and Corporate Sponsorships	Mark Rectanus	ISBN: 13: 978-0816638529
4	The Economics of Uniqueness: Investing in Historic City Cores and Cultural Heritage Assets for Sustainable Development	G. Licciardi, R. Amirtahmasebi eds.	ISBN: 9780821397060
5	The redefinition of property rights as a tool for historic preservation. In Preserving the Built Heritage: Tools for Implementation	J. J. Costonis	ISBN: 13: 978-0874518313



6	Handbook on economics of cultural heritage	Ilde Rizzo, Anna Mignosa	ISBN: 0857931008
7	The Economics and Finance of Cultural Heritage: How to Make Tourist Attractions a Regional Economic Resource	Vincenzo Pacelli, Edgardo Sica	ISBN: 1000095606
8	Economic Perspectives on Cultural Heritage	M. Hutter, I. Rizzo	ISBN: 1349258245
9	Economics and Culture	David Throsby	ISBN: 0521586399
10	Heritage marketing	Shashi Misiura	ISBN: 0750663189

MACO0402 General Proficiency

Eligibility

Compulsory subject for all students of Department of Conservation

Objective

The objective is to encourage students to participate in extracurricular and co-curricular activities.

Contents

The student general proficiency shall be evaluated across the following performances:

- Additional online courses other than prescribed by the institute.
- Participation in training programmes/workshops.
- Paper publication in international and national journals.
- Paper publication in newsletters/others.
- Paper presentation in conference/seminar
- Participation in Inter college Competition
- Engagement with NSS/NCC/others
- Engagement as volunteer in social work or welfare of the institute.
- Administrative/Managerial responsibilities in the Institute
- Excellence in sports and cultural activities
- Scholarships
- Any other that qualifies as all round development of student.

Deliverables

Encouragement for all round development of the students

MACO 0403 Thesis

Eligibility

Compulsory subject for all students of Department of Conservation

Objective

The objective is to develop and acquire more specialized knowledge in the field of conservation through conservation projects or scientific research.



Contents

- Thesis is the main academic effort and culmination of all information and techniques learnt in the preceding semesters.
- Selection of thesis topic shall be from any aspect of Conservation whether theoretical, technical, management, operational or intervention.
- It is expected to undertake original work including data collection and primary surveys
- As part of the studio requirements, it is expected to go through a process of documentation, analyses and synthesis related to the specific topic and related area of work. It is required to work under the guidance of a supervisor allotted by the department and complete the requisite work in the course of the semester, ending in a viva-voce exam by a panel of examiners both external and internal.
- A panel of external and/or internal jurors would do progressive evaluation during reviews held at intervals during the course of the semester.
- Submission and defense of the thesis through drawings, reports, study sheets, models and digital presentations and verbal communications in all the reviews and the final viva-voce.

Deliverables

- Student will produce an original document and highlight an important aspect of heritage.

