Master in Conservation, Preservation and Heritage Management (MCPHM)

Paper Code: 89601

First Semester

Title of the Paper : India and the World : Through the Ages

Unit I : The Beginnings to the First Civilizations
a. Prehistory, protohistory, history and stone age cultures, beginning of agriculture
b. The evolution of civilization-Egypt, Mesopotamia, India and China
c. Minoans and Mycenean Civilizations
d. Vedic Culture

Unit II : Towards organized states (600 B.C to 150 B.C)
a. Greek, Persian, Hellenistic, and Roman empire - Republic to Augustus
b. Evolution of State in India - Janapadas, Mahajanapadas and the Mauryan empire
c. Chinese civilization —Chou Dynasty, Mesoamerican Civilization
d. Evolution of philosophy, religion and science

Unit III : Conflict and Interaction (150 B.C to 700 A.D)
a. Breakdown of Roman empire and the beginning of Feudal Europe
b. Breakup of Mauryan Empire, Sungas, Kushanas, Sakas
c. Byzantine empire and Europe
d. Religion, art, culture, science and literature

Unit IV : The Cultural Efflorescence
a. The golden age of Indian and the Chinese civilizations
b. The Trade, Towns, Manors and Castle.
c. Arab conquest and the Ommayad Caliphate and the Abbasids,
d. Science, religion, literature and arts

Unit V: To the Modern World
a. India 12th - 19th centuries A.D.
b. The Ottoman empire and the making of Europe.
c. The Renaissance and its impact on human civilization
d. Science, religion, art, culture etc.
READING LIST

Paper Code:  89601 : India and the World : Through the Ages

2. Clark Kenneth :  Civilization, Penguin
7. R.C.Majumdar :  Vedic Age, Bombay
18. F. Friedrich Heer :  Volumes Published under Lost Civilization Seves,
   (ii) East Asia, London
21. J. H. Plumb :  Renaissance, Penguins
28. E. Hobsbawn :  The Age of Revolution, New Delhi
29. E. Hobsbawn :  The Age of Empire, New Delhi.
35. Buddha Prakash :  Old World Civilization.
Master in Conservation, Preservation and Heritage Management (MCPHM)

Paper Code: 89603
(Practical Code: 651)*

First Semester

Title of the Paper : Architecture of India

Unit-I :
   a. Origin of physical forms and structures in Indian architecture
   b. Body as a measure, axis of access and symbolism in architecture
   c. Relationship between inner and outer space in Indian architecture
   d. Sacred space, sacred place and the concept of mandala

Unit- II :
   a. Harappan and Post Harappan Architecture
   b. Pre-Mauryan and Mauryan Architecture
   c. Development of Stupa Architecture - Sanchi, Bharhut, Amaravati, Nagarjunakonda, Sarnath,

Unit III :
   a. Rock-cut Architecture – Mamallapuram and Ellora (Kailash Temple)
   b. Rock-cut Architecture of Ajanta, Pitalkhora and Ellora (Buddhist and Jain Caves).
   c. Beginning of Temple Architecture - Sonkh, Deogarh, Bhitargaon, Aihole and Pattadakal
   d. Case study

Unit IV :
   a. Evolution of Nagara Style of Temple - Gwalior, Khajuraho, Bhubaneswar and Konark
   b. Evolution of Dravidian Style of Temple - Aihole, Pattadakal, Badami, Mamallapuram, Thanjavur, Hampi,
   c. Evolution of Vesara style of temple - Mount Abu, Gujarat and others Somanth Halebid
   d. Case Study

Unit V :
   a. Architecture of Sultanate period.
   b. Architecture of Mughal period.
   c. Anglo-Indian Architecture.
   d. Case studies : Vijayanagar, Delhi and Fatehpur Sikri.

* Practicals include Site Visit
READING LIST

Paper Code: 89603: Architecture of India

Title of the Paper : Heritage Tourism and Management - Concepts, Planning and Marketing

Unit I : General
a: Introduction to Tourism and Heritage: meaning and significance
b. Historical development of tourism
c. Tourism framework and types of tourists
d. The tourist industry and component of tourist industry : attractions, transports, accommodations, refreshments, shopping, entertainment’s etc.

Unit II: Management of Tourism:
a: Present state of Indian Tourism – Emerging trends in tourism
b. New thrust areas
c. Concept and function of Management - nature and significance of management, Managerial roles, responsibility, processes in organization.
d. Evolution of Management theory, schools of management, behavioural approach, human relations approach.

Unit III: Organisational Behaviour
a: Communication; process and types; Inter-personal skills, barriers of communications, Decision - making.
b: Concept and features of organisations : Types of organisation, significance of organisation, organisational goals. Concept of organisational behaviour, Hawthorne experiment
d: Theories of leadership - concept of leadership, leadership styles in Indian Organizations, organisation effectiveness, organisational climate

Unit IV: Conference and Convention Management
a: Introduction to conventions, exhibition and meetings. Definition of conference and the components of the conference market. Introduction to convention venues
b: The nature of conference markets, the demand for conference facilities. The growth and development of the industry. The economic and social significance of conventions. The impact of conventions on local and national communities
c: Trade shows and exhibitions, principal purpose, types of shows, major participants, organisation and membership
Unit V: Tourism marketing and management:

a: Tourism products: Why it is different from other types of consumer products? Tourism-oriented products, resident-oriented products, and background tourism elements. Different types of tourism products e.g. natural attractions - beache, hill resorts, wildlife sanctuaries and national parks, waterfalls and islands; cultural attractions, monuments, architecture, arts and handicrafts, music and dance forms, festivals, religious tourism.

b: Marketing tourism - difference between tourism marketing and products and services, uniqueness of tourism marketing. Market surveys, research forecasting etc. and target market selection.

c: Introduction to tourism promotion and method; Advertising, travel brochure, films, sale promotions.

d: Managing the marketing mix in heritage tourism - locating, pricing, role and use of specific intermediaries, selling tours.

* Practicals include Site Visit
READING LIST

Paper Code: 89605 : Heritage Tourism & Management: Concepts, planning and Marketing

1. Tim Edensor : Tourist at Taj : Routledge 1998
2. Stephen Clift : Tourism and Health , Printer 1997
25. Francois Accher : Tourism : Transnational Corporations and Cultural identities Unesco 1985
27. Brian. G. Boniface & C.P. Cooper : Geography of Travel and Tourism, Heinemann 1987
Master in Conservation, Preservation and Heritage Management (MCPHM)

Paper Code: 89607
(Practical Code: 655)*

First Semester

Title of the Paper : Heritage Museum and Management - Concept, Planning and Presentation

Unit I : Definition, Typology and Policies
a. Definitions of Museums, Museology and Museography
b. History of Museums International / National
c. Theories of Museology
d. Laws, Acts and Policies

Unit II : Type and function of museums
a. Type of Museums : India and abroad
b. Functions of a Museum
c. Nature of Museum work i.e. - Professional Museum Organizations, Museum Associations and their work, Professional ethics
d. Concepts of the new museums, modern museums - ECO - museums, neighbourhood museums, living museums etc. - museum development.

Unit III : Collection and Documentation
a. Collections : Theories, policies, ethics of collection
b. Modes of acquisition : field - gathering, purchase, gifts, loans, exchange, treasure, trove etc.
c. Collection problems - forgeries, copies, replicas, export/import control
d. Documentation process

Unit IV : Display and Exhibition
a. Type of exhibitions
b. Organization of exhibitions
c. Planning
d. Elements

Unit V : Preservation
a. Ethics of conservation, preservation, principles of maintenance of collection.
b. Environmental factors, aspects, material–organic/inorganic
c. Emergency conservation - treatment and resources
c. Relation between museums and conservation - awareness of outside facilities

* Practicals include Museum Visit
READING LIST

Paper Code: 89607: Heritage Museum Management Concept, Planning And Presentation

Master in Conservation, Preservation and Heritage Management (MCPHM)

Paper Code: 89602
(Practical Code: 652)*

Second Semester

Title of the Paper : Cultural Heritage of India

Unit I : Concepts of Cultural Heritage

a. Social, Cultural and Religious Heritage
b. Myths and Legends, Traditions
c. Oral and Living
d. Literary sources : Vedic and Archaeological

Unit II : Social Traditions

a. Varna, Jati, Ashrama,
b. Karma, Rina, Purushartha Dana, Pataka, Prayaschitta
c. Vrata, Upavasa, Tirtha, Tirtha –Yatras
d. Samsakara; Position of women

Unit III : Religion and Philosophy

a. Vedic Traditions and six school of philosophy
b. Jainism, Buddhism and Ajivikas
c. Vaishnavism, Saivism, Saktism and Bhakti
d. Islamic, Christian and Tribal belief systems

Unit IV : Evolution of Political Ideas

a. Evolution of Polity : Formative Period
b. Evolution of Polity : Crystallization of Precepts and ideas
c. Laws and Legal Institutions
d. Republic

Unit V : Educational and Scientific Developments

a. Gurukulas, and Agraharas
b. Important centers of learning
c. Sciences : Mathematics, Astronomy and Calendar
d. Medicine, Surgery and Metallurgy

* Practicals include Academic Tour
Title of the Paper : Art of India

Unit - I : Beginning of Art in India
   a. Pre-Historic Rock Paintings
   b. Terracotta art of Harappan and Chalcolithic periods
   c. Terracotta art of Early first millennium B.C.
   d. Paintings and graffiti on proto historic pottery

Unit - II: Plastic Arts in India
   a. Beginnings of plastic art.
   b. Mauryan Sunga and Satavahana art
   c. The terracotta art of Kausambi Ahichchhatra, Mathura etc. upto Gupta period.
   d. Early Indian Bronzes

Unit - III : Evolution of Images
   a. Evolution of Buddhist, Jain and Brahmanical Images
   b. Art and Images on the coins
   c. Gandhara and Mathura art
   d. Sculptural art of Sanchi, Bharhut, Bodh Gaya, Amaravati, Khajuraho, Konark, Ajanta and Ellora-Mahabalipuram, Thanjavur and Halebid

Unit - IV: Iconography
   a. Buddhist Iconography
   b. Jain Iconography
   c. Saiva, Vaishnava and Sakta Iconography
   d. Minor and folk deities and their Iconography

Unit - V : Paintings in India
   a. Ajanta, Ellora Sittanavasal paintings, manuscript painting, techniques, material and media.
   b. Mughal paintings.
   c. Rajasthan and Hill schools of paintings.
   d. Paintings of Medieval Deccan and South India.

* Practicals include Academic Tour
READING LIST

PAPER CODE: 89604 : ART OF INDIA

33. Sivaramamurti, C. 1994 (re.), South Indian Paintings, New Delhi.
35. Smith V.A. History of Fine Art in India & Ceylon.
Master in Conservation, Preservation and Heritage Management (MCPHM)

Second Semester

Paper Code: 89606
(Practical Code: 656)*

Title of the Paper : Heritage Tourism and Management—Agencies Organizations and Impacts

Unit I: Organisation of Tourism

a: International and national tourism organisations WTO/ IATA/PATA and TAAI, IATO, etc. Agencies / organizations and Ministries in India linked with tourism
b: Strategy, missions and objectives for tourism organizations
c: Role of travel agencies, tour operators, tour guides, interpreters guide lecture and their training
d: Planning in Tourism, Approaches and Process for Tourism planning in destination areas, role of public and private sectors, product life cycle

Unit II: Tour Operator Units travel Agencies Tourism Regulation

a: How to setup a travel agency : proprietorship, partnership, private ltd., Government. IATA rules and regulation, cost benefit break even analysis, sources of income-service charges etc.
b: How to setup a tour operation unit : Government. rules and regulation, tourism bill rights : tourism codes, Manila Declaration
c: International convention : The IATA general condition of carriage (passenger and baggage) Consumer protection law, 1986 and MRTP act applicable to tourist as consumer
d: Laws pertaining to a accommodations, Fire Safety, health safety etc. liability laws with respect to guests and their belonging

Unit III: Geography of Tourism :

a: Importance of geography in tourism, natural and climatic regions of the world
b: Major tourist attraction world -wide, recent trends in international tourist movement, (characteristic of Indian out bound travel)
c: Tourist transport system - Airlines, surface (bus coach and car rental), railways, cruise ships and water transport.
d: Aviator geography, IATA areas, sub-areas and basic planning itinerary. IATA 3-letter city and Airport Codes
Unit IV: Basic Fares and Ticketing

a: ICAO, global indicator (EH, WH, AT, PA, AP, TS etc.)
b: ABC familiarization airline schedule, passenger documentation/travel formalities (TIM)
c: Familiarization of Air Tariff, introduction to fare construction, mileage principle, fare construction with extra mileage allowance (EMA) and extra mileage surcharge (EMS)
d: Higher intermediates point (HIP), circle trip minimum (CTM), backhaul check, special fares, passenger ticket and baggage check (with issuance of ticket with itineraries - one way (OW), return (RT), circle trip (CT))

Unit V: Impact of Tourism

a: Economic and environmental impacts
b: Socio-cultural impact
c: Managing impacts
d: Concept of carrying capacity and sustainable/responsible Tourism. Reference to case studies – Goa/Himalayas/Khajuraho/Jaisalmer.

* Practicals include Academic Tour
## Reading List

**Paper Code: 89606 : Heritage Tourism and Management— Agencies Organizations and Impacts**

13. R. Thomas : Hospitality Industry- Tourism and Europe
15. Praveen Seth : Tourism for the next millennium, Rajat Pub. House 1999
19. ABC World Wide Airways guide ( Red and Blue)
20. Air Tariff Book : World wide Rules , IT Fares etc.
21. Air Tariff Book : World wide maximum permitted mileage
23. Lanfant and Bruner : International Tourism
25. Tej Vir Singh : Tourism Environment, Inter Plan India 1991
29. David A Fennell : Ecotourism – Routledge
30. C.M. Hall : Sustainable Tourism, Longman 1998
Title of the Paper : Heritage Museum and Management - Public Relations, Education, Research and Publication

Unit I : Location information
   a. Museum, its surrounding and use of space design
   b. Building and layout according to type and function of the museums
   c. Equipments : environmental control etc.
   d. Display, storage office and security spaces

Unit II : Museum Administration
   a. Administrative framework
   b. Management policy and Museum Marketing
   c. Budget and financing - loans, funds, schemes
   d. Personnel, Security and Maintenance

Unit III : Storage, photography, modeling, packing for transportation
   a. Principles of storage
   b. Museum photography
   c. Museum modeling
   d. Packing for transportations

Unit IV : Education and Public Relations
   a. Educational and cultural responsibility of a museum
   b. Type of programmes and methods of education : for different age groups, extension programmes — in house and outreach activities
   c. Nature of public relations in a museum - membership, publications etc.
   d. Museum as a public facility - functions, types of facilities etc.

Unit V : Research and Publications
   a. Studies of collections
   b. Publications - academics, guidebook, catalogues, brochures, research publications, journals (news letters) etc.
   c. Press releases, mass media, T.V. and Video films, news stories, etc.
   d. Membership organizations for students, other organizations, agencies and friends of museums.

* Practicals include Academic Tour
READING LIST

Paper Code: 89608: Heritage Museum And Management - Public Relations, Educations, Research and Publication

Master in Conservation, Preservation and Heritage Management (MCPHM)

Third Semester

PAPER CODE : 89701

Title of the Paper : Principles Guidelines and Laws : National and International

Unit - I : Introduction

a. Concept of Conservation
b. Conservation as a multidisciplinary science.
c. Theories, modern principles and guidelines.
d. Conservation- approach, attitude, professional ethics and scope of entrepreneurship, consciousness towards authenticity

Unit-II : Concept of Cultural Property

a. Definition of cultural property and types
b. Values, significance, concept of National Heritage.
c. World Heritage Convention
d. World Heritage Site

Unit-III : Principles and Guidelines

a. International recommendations for the conservation of cultural property, the International Charters
b. Principles and guidelines for conservation and preservation of monuments, sites and excavated remains in India
c. International conventions, prevention of illicit import and exports
d. Transfer of ownership of cultural property

Unit-IV : Laws and Regulations

a. History of antiquarian laws in India and abroad
b. The Indian Treasure Trove Act, 1878; land acquisition Act 1894. The Ancient Monuments and Archaeological Sites and remains Act 1904
d. Social responsibility of Management/Organizations

Unit - V : Planning and Action

a. Renovation and restoration of monuments and objects and surroundings,
b. Reuse and Rehabilitation of sites, monuments and building
c. Environment Protection and sustainable developments
d. Strategy, planning and resources.
READING LIST


15. Govt. of NCT : Delhi Ancient and Historical Monuments and Archaeological sites and Remain Bill 2000 NCT.
16. Iser, Y.R : Challenge to our Cultural Heritage: Why Preserve the past, UNESCO.
17. INTACH : Historic Towns and Heritage Zones, New Delhi.
18. INTACH : Historic Towns and Site Development, New Delhi.
29. Singh, Dr. A.P. : Conservation and Museum Technique, New Delhi.
Master in Conservation, Preservation and Heritage Management (MCPHM)

Third Semester

PAPER CODE : 89703
(Practical Code: 751)*

Title of the Paper : Architectural, Engineering Technology, Nature and Use of Material

Unit-I : Architectural Technology
a. Basic principle and concepts of architectural technology
b. Architectural design and functional requirements and factors influencing architecture
c. Architectural design and engineering systems
d. The integration of various building and supports systems

Unit-II : Engineering Technology
a. Basic Principles and concepts of construction engineering technology
b. Interrelated nature of structures, construction and environmental system
c. Structural forms and arches, slabs, plates, beams, curved surface structures
d. Lateral forces and static and dynamic loads and structural technology

Unit-III : Structural Systems and Elements
a. Sub structure : Foundation, walls, piers and columns
b. Super structure I : Beams, arches, vaults, domes
c. Super structure II : Brackets, Chhatris, Door, Windows, Balconies etc.
d. Farmwork : centering, scaffolding (wood and steel ) trusses and frames, joints and joining

Unit-IV: Nature and Properties and specification of building Material
a. Lime— types, manufacturing process, and uses
b. Cement and concrete for external rendering, physical and chemical properties, permeability
c. Stones
d. Other building materials and finishes- wood, mud, clay etc.

Unit V: Usage of Material in Architecture
a. History of use of architectural material
b. Mortars used in architecture
c. Structural material, timber–causes of decay etc.
d. Decorative architectural material

* Practicals include Site Visit
**READING LIST**


3. Sushil Kumar - *Building Construction & Engineering*
5. Council of Architects - *Dicotomy of Architects IIA*
7. CPWD - *Civil Engineering Handbook*
8. Neuferts Data of Building Design
11. Tadgell. C. - *The History of Architecture in India*
12. Ashen. C. - *Architecture of Mughal India*
14. Feildon B. - *Conservation of Historic Building*
15. Cooper I. - *Traditional Buildings of India*
16. Tillotson, G.H.R. - *The Tradition of Indian Architecture*
18. Celand, M. Roth - *Understanding Architecture*
20. Ashurst, J. - *Store Masonary*
   - *Brick, Teracotta, Earth*
   - *Mortar, Plaster, Rerders*
   - *Metal*
Master in Conservation, Preservation and Heritage Management (MCPHM)

Third Semester

PAPER CODE : 89705

Title of the Paper : Heritage Planning, Regulation, Zoning and Management

Unit-I : Civilization and Settlements

a. Urban and rural typology, locations, cultural and historical context
b. Rise and development of urban planning
c. Effects of Planned and unplanned development on historic settlement/areas
d. Utopian concepts, moralistic and traditional planning

Unit-II : Planning parameters and Principles

b. Integrated Development Plan.
c. Planning authorities.
d. Urban design and housing.

Unit-III : Regulations and land use control

a. Planning objectives, techniques and regulations
b. Redevelopment, renewal and urbanism
c. Zoning concept : density and area planning, transportation planning
d. Legislative control (special areas, public land etc.)

Unit-IV : Project Management

a. Project Feasibility
b. Planning Strategy and objective
c. Management systems and cost analysis
d. Plan preparation and phase development

Unit-V : Economic Prospects and Potentials

a. Funding, incentive and trade off
b. Conservation, retrieval and renewal options
c. Construction document
d. Contract, supervision and management
READING LIST


Title of the Paper: Survey, Inspection, Assessing Deterioration and Preparation of Status Reports

Unit - I: Factors effecting the monuments and buildings
   a. Definition of monument/historical buildings /archeological sites /historical remains
   b. Effect of Environment - temperature, humidity, rainfall and air pollution etc.
   c. Bio-deterioration - Micro-organism, insects, rodents etc.
   d. Human encroachments and urban Developments, vandalism, agriculture growth. Humidity, dampness and other problems in historical buildings (natural and man made causes)

Unit II: Inspection and Survey of Ancient Buildings / Monuments
   a. Inspection of Historic buildings and structures / remains
   b. Introduction to structural classification, recordings, and photography and preparation of drawings
   c. Preparation of Assessment Reports
   d. Preparation of Status Reports indicating guidelines for conservation and its methodology

Unit III: Structural Surveys, Recording and Photography
   a. Structural survey, architectural analysis and evaluation of available historical data
   b. Structural examination and assessment including foundation, interiors, structural section, elevation, roof and constructional technique
   c. Photography, photogrammetry, preparation of plans sections and elevations
   d. Aerial photography, landsat-imageries and photo interpretations

Unit IV: Documentation and technical study of material
   a. Tools of examination of works of Art/ Antiquity.
   b. U.V. Infra- Red, radiography, X-rays
   c. Methods of analysis (chemical), carbon 14 dating, I.R. analysis
   d. Dating (history of Art), provenance, authentication, fakes and forgeries.

Unit V: Basics of Financial Management
   a. Costing and Budgeting and annual and special repair estimate
   b. Tendering and contracting
   c. Schedule of planning and Monitoring - Management control System
   d. Infra-structural requirements and final approval of conservation work

* Practicals include Surveying and VRI Training
READING LIST

Paper Code 89707 : Survey, Inspection, Assessing Deterioration and Preparation of Status Reports

   Shashi Dhawan (ed.)
   F.R. Allchin & B. K. Thapar
   Frances G. Dimes Oxford
   F. G. Dimes Oxford.
9. Bahn Paul : *Archaeology Theories & Method and Practice*.

   Garry Thomson and Perry Smith (eds.)
11. Campbell, B. James : *Introducing to remote sensing*.
   London and New York.
17. Hester, R. Thomas, : *Field Methods in Archaeology*, California
   Robert F. Heizer and John A. Graham
   Andrew Middleton (ed.)
29. Singh, Gurcharan & Subash Chander : *Civil Engineering Drawing*.
   UNESCO. 1984.
Master in Conservation, Preservation and Heritage Management  (MCPHM)

Fourth Semester

Paper Code : 89702
(Practical Code: 752)*

Title of the Paper : Conservation, Preservation and Restoration of Heritage components and Conservation technique

Unit - I : Ancient Monuments, Remains and Heritage Buildings
a. Idea of shelter, pit dwelling, rock alignments, memorials, shrines, tanks and fortification
b. Mediums of construction
c. Functional aspects of earthen and timber architecture and its associated technology
d. Deterioration, conservation, preservation and maintenance

Unit - II : Stone and Burnt Brick Structures, including rock cut specimens
a. Rock cut, stone and Burnt Brick Architecture, use of building materials and technology in historical building
b. Significance of stone/ brick architecture and rock cut structure
c. Technology, deterioration, conservation, preservation and maintenance
d. Review of Indian building technology with special reference to important buildings with case studies

Unit III : Historical Gardens, Cultural Landscapes and Archeological Sites
a. Nature of Archaeological sites, landscapes
b. Historical Settlements - Salient features, patterns etc.
c. Heritage Complexes - concept, conservation and preservation
d. Development of site historical landscape and restoration of natural and artificial surrounding

Unit - IV : Conservation Techniques
a. Structural Consolidation and repairs Structural failures, and stresses and their patterns, Under pinning, rock bolting, filleting, jacketing, grouting etc.
b. Temporary support, propping and strutting, reconstruction
c. Foundation strengthening, nature of soil, failures, consolidation etc.
d. Restoration and conservation of Architectural Decorative Elements like Inlay, stucco, tiles, glass and mirror work and field studies in conservation

Unit - V : Archaeological sites/Excavated Remains
a. Nature of Archaeological sites/ excavated remains
b. Documentation and field conservation measures and preservation of excavated sites. Spot preservation and site lab work.
c. History of Archaeological conservation in India
d. Salvage and transplantation of archaeological sites, monuments etc.

* Practicals include Site Visit
REASIGN LIST

Paper Code 89702: Conservation, Preservation and Restoration of Heritage Components and Conservation Technique

Master in Conservation, Preservation and Heritage Management (MCPHM)

Fourth Semester

Paper Code : 89704
(PRACTICAL CODE: 754)*

Title of the Paper : Chemical Treatment and Preservation of Painting, Manuscripts, Organic and Inorganic Materials

Unit-I : Classification of materials and environmental chemistry
a. Organic and Inorganic materials - composition, bonding
b. Chemical and physical properties of material
c. Behaviour of material towards environmental factors
d. Mechanism and reaction in deterioration process.

Unit - II : Materials and General Treatment Techniques
a. Introduction to the chemical treatment, restoration, preservation
b. Pre-requisites of chemical treatment and use of different reagents and chemical solvents
c. Identifying agents of decay, damage etc.
d. Preservation techniques and safe packing.

Unit - III : Organic materials - paper, birch-bark, palm leaves, textile, bone, ivory etc.

a. Nature and chemical composition of material and causes of decay
b. Treatment in the field
c. Analysis and treatment in the laboratory
d. Repairs and consolidation

Unit - IV : Inorganic, metallic and siliceous materials - Metals - copper, bronze, brass, iron, lead, gold, silver, alloys stone clay etc.

a. Chemical composition of metal/alloys and siliceous materials
b. Causes of decay, corrosion and damage
c. Treatment in the field and consolidation techniques
d. Treatment in the lab

Unit - V: Rock Paintings, Murals and Illustrated Manuscripts
a. Rock Paintings, Murals and other paintings; characteristics and techniques of ground plan and treatment and restoration of rock surface paintings - Ajanta, Ellora, Bagh caves, Brijeshwara temple etc.
b. Paintings, illustrated manuscripts - detecting the damage and treatment and restoration, consolidation and preservation
c. Environmental setting and air pollutants and their impacts on materials
d. Study of colours, use of pigments, scope of intervention

*Practicals include Site Visit
**READING LIST**

Paper Code 89704: Chemical Treatment and Preservation of Painting Manuscripts, Organic and Inorganic Materials.

Title of the Paper : Public Awareness/Cultural Resource Management

Unit - I : Interpretation

a. Levels of meanings - the functionalist, Structuralist Approaches and Semiotic Analysis
b. Collective interpretation methods
c. The interpretation brief
d. Target audience - identifying user needs

Unit - II : Communication modes and tools

a. Introduction to mass media including popular and traditions
b. Audio/Video print ..... The written word
c. Information technology and the World Wide Web, Multimedia and computer reconstructions
d. Preparation of comprehensive communication strategy, project, management plans and materials

Unit - III : Public Awareness and Agencies

a. Agencies : Govt. and Non-Government Organizations, National and International Agencies
b. Awareness about heritage, non-formal education, exhibitions, publications
c. Local community involvement
d. Role of individuals and professionals

Unit - IV : Cultural Resource Management

a. Site and Surroundings Management and maintenance
c. Information Management
d. Disaster management and World Heritage site management

Unit - V : Monitoring and Evaluation

a. Results based management and project monitoring plans
b. Evaluation – Tools
c. Evaluation – Collective Analysis and Inferences
d. Project Resource Management

READING LIST

Paper Code  89706 : Public Awareness/Cultural Resource Management

33. Sethi Praveen : Tourism for the New Millennium, New Delhi 1999
34. Aylin Orbasli : Tourism in Historic towns (Urban Conservation & Heritage
Management) London 2000

Master in Conservation, Preservation and Heritage Management (MCPHM)

Fourth Semester

Paper Code : 89708

Title of the Paper : Dissertation/Report Writing

Student, research work

Unit – I : Research basis, need justification
Unit - II : Synopsis development, aim, objectives, scope of research etc.
Unit - III : Prefinal presentations/seminars etc.
Unit – IV : Final Presentation