DIPLOMA IN ARCHAEOLOGY AND EPIGRAPHY (DIAE)

Course Code	Course Title	Credits	No.of Sessions
DIAE – I	History of Indian Archaeology	6	30
DIAE – II	Inscription and Manuscript	6	30
DIAE – III	Indian Architecture and Iconography	6	30
DIAE – IV	Museum Studies and Conservation Techniques	4 6	30 30
DIAE – V	Exploration Report		
		40	150

COURSE – I – DIAE – HISTORY OF INDIAN ARCHAEOLOGY

<u>BLOCK – 1</u> – Definition of Archaeology – Kinds of Archaeology – Archaeological Institutions in India – Archaeology and Other Disciplines

BLOCK – 2 –Branches of Archaeology – Epigraphy – Numismatics

<u>BLOCK - 3</u>— Architecture – Iconography

<u>BLOCK – 4</u> – Paintings – Themes – Central Indian Paintings - South Indian Paintings – Malwa and Vijayanagar Paintings – Mughal Paintings

<u>BLOCK – 5</u> – Principles and Methods of Archaeology – Geo-Archaeological Techniques – Dating Methods – Archaeological Sites

<u>BLOCK – 1</u>

<u>Unit – 1</u>

Introduction to Archaeology - Goals of Archaeology - Kinds of Archaeology: Prehistoric Archaeology - Historical Archaeology - Environmental Archaeology - Settlement Archaeology - Cognitive Archaeology - Industrial Archaeology - Underwater Archaeology - Ethnoarchaeology - Linguistic Archaeology - Salvage Archaeology

<u>Unit – 2</u> - Archaeological Survey of India – Department of Epigraphy, ASI, Mysore – State Archaeological Departments - History of Archaeology in India – Robert Bruce Foote - Sir William Jones – James Prinsep – Alexander Cunningham – Sir John Marshall – Mortimer Wheeler – H.D Shankalia

<u>Unit – 3</u> – Archaeology and Disciplines: Archaeology and Physics – Chemistry – Botany – Zoology – Computer – Anthropology – Geology – Statistics

BLOCK - 2

<u>Unit – 4</u> - Pre and Proto History: Palaeolithic: Lower, Middle and Upper – Tools – Technologies Used – Mesolithic: Tools and Technology – Neolithic: Tools and Technology – Distribution of Sites

<u>Unit – 5</u> Chalcolithic Culture: Technology – Society, life style, objects – Distribution of Sites - Burial Practice - Megalithic culture: Society, Life style, objects – Different types of potteries – Types of Burials – Distribution of Sites

<u>Unit - 6</u> – Indus Civilization: Town Planning – Script – Society – Economy – Trade - Religion

<u>Unit – 7</u> - Origin of Writing – Palaeography – Petroglyph – Cunieform writing – Ashokan Brahmi – Ashokan Rock Edicts - Tamil Brahmi – Vatteluttu – Grantha – Distribution of Sites

<u>Unit – 8</u> – Numismatics: Origin and Development in India – Techniques of Coin Making – Punch Marked Coins – Raw Materials - Chronology – Distribution of Symbols

BLOCK - 3

<u>Unit – 9</u> - Origin of Architecture in India – The Concept of Hindu Temples – Develoment of Architecture from Early Historic Period to 13th Century C.E - Architecture – Town Planning at Harappa and Lothal – Grid Pattern – City Walls – Acropolis – Drainage System – Granery – Greath Bath – Lothal Dockyard – Sanitation – Building Materials

<u>Unit – 10</u> – Rock-Cut Architecture – Nagara: Three sub schools of Nagara style - Monuments – Vesara style: Characteristics – Monuments

<u>Unit – 11</u> - Origin and History of Dravidian Architecture - Plan of Construction: Vimana – Gopurams (Gateways) – Mukha mandapa – Ardha Mandapa – Antarala – Garbagriha – Pillars – Pallava, Chola, Chalukya, Vijayanagara styles - Monuments

<u>Unit – 12</u> - Origin of Indo Islamic Architecture – Identification of Islamic Architecture - Salient Features – New Elements added by Muslims to Indian Architecture - Different Kinds of Buildings: Mosques and its elements: Mimbar, Mihrab, Aiwan, Haud, Sahn or Sehan, Riwaq, Minar, Minaret – Tombs: Rauza, Makbara, Cenotaph - Dargahs, Hammams, Gardens, Madarasa and Sarais – Imperial Style, Provincial Style, Mughal Style, Deccan Style

<u>Unit – 13</u> – Origin of Indian Iconography - Concept and symbolism in Image worship – Origin and Antiquity of Image Worship in India – Mudra – Banga – Asana – Attributes and Vehicles – Iconometric Principles – Iconography of Siva, Vishnu, Brahma, Durga – Buddhist and Jaina Iconography

BLOCK – 4

<u>Unit – 14</u> – Rock Art - — Murals - Fresco-buno and Fresco-secco techniques – Tulika – Kurchaka – Mauryan and Gupta Paintings - Buddhist Theology and its Implication in Painting; Ajanta and Bagh Murals - 'Theme and Technique of Ajanta Murals

<u>Unit – 15</u> - Tanjavur Wall Painting - Pala Manuscript Painting - Themes of Western Indian Style - Rajasthani style - Pallava Paintings - Features of Chola paintings - Malwa Paintings - Vijayangara Paintings - Nayak Paintings: Thanjavur - Tenkasi, Perur - Mughal Painting: Origin and Development — Main features of Mughal paintings

REFERENCE BOOKS

- 1. Dilip K. Chakrabarti, A History of Indian Archaeology: From the Beginning to 1947, Munshiram Manoharlal, N.Delhi, 1988
- 2. -----, India:An Archaeological History Palaeolithic Beginnings to Early Historic Foundations, Oxford University Press, N.Delhi, 1999
- 3. Childe, V. Gordon, A Short Introduction to Archaeology, Collier, New York, 1960
- 4. Ghosh, A., A Encyclopedia of Indian Archaeology, Vol. I&II, Munshiram Manoharlal Publishers Pvt. Ltd, N.Delhi, 1989
- 5. Raman, K.V., Principles and Methods of Archaeology
- 6. Rajan, K., Archaeology:Principles and Methods
- 7. Fleming, S., Dating in Archaeology
- 8. Sankalia, H.D., Indian Archaeology Today, N.Delhi, 1979

- 9. Gupta, P.L., Coins
- 10. Krishna Murthy, Y.S., Sangam Age Tamil Coins
- 11. Bhandarkar, D.R., Ancient Indian Numismatics
- 12. Vidya Prakash, South Indian Coins
- 13. Nagasami, R., Tamil Coins A Study, Inst. Of Epigraphy, Dept.of Arch, Govt. Of T.Nadu, 1981
- 14. Sivaramamoorthy, C., Indian Painting, N.Delhi, 1970
- 15. -----, South Indian Painting, N.Delhi, 1968
- 16. Mehta, N.C., Studies in Indian Painting, Bombay, 926

COURSE - II - DIAE - - INSCRIPTIONS AND MANUSCRIPTS

<u>BLOCK – 1</u> – Origin and Development of Inscription- History of Writing in India – Ashokan Brahmi, Kharoshti, Ashokan Rock Edicts – Indus Script

BLOCK - 2 - Ancient Tamil Scripts - Distribution of Sites - Herostone Inscriptions

<u>BLOCK – 3</u> – Jaina Inscriptions – Distribution in Tamilnadu – Tamil Inscriptions – Engraving Materials and Dating Methods

<u>BLOCK – 4</u> – Copper Plates – Significance and Distribution – Royal Seals – Origin of Manuscripts and Concept Palm Leaf Manuscripts – Its Importance and Conservation – Paper Manuscritps and its Conservation

<u>BLOCK – 5</u> – Institutes of Inscription studies - Digitization of Epigraphical data

<u>BLOCK – 1</u>

 $\underline{\text{Unit} - 1}$ – Origin of writing – Logogrphy, Phonogram, Cuneiform, Hieroglph - History of writing in India – Writing materials.

<u>Unit – 2</u> – Ashokan Brahmi script – Kharoshti – Ashokan Rock Edicts - Indus script

<u>Unit -3</u> Format of the script – Method of collection of inscriptions

<u>BLOCK – 2</u>

<u>Unit - 4</u> - Inscriptions of Ancient Tamil country - Tamil Brahmi, Vatteluttu, Grantha, Nagari

 $\underline{\text{Unit} - 5}$ - Distribution of sites – Mangulam, Jambai, Poolankurichi, Pulimankombai – Reasons for preservation

<u>Unit – 6</u> - Vatteluttu script – its importance and significance – Herostone inscriptions

BLOCK – 3

<u>Unit – 7</u>– Jain cave inscriptions – Importance – Distribution in Tamilnadu

<u>Unit – 8</u> – Tamil inscriptions – Distribution – Inscriptions of Pallava, Chola, Pandya, Vijayanagar etc <u>Unit – 9</u> - Inscriptions on Potsherds – Graffitti marks – Clay Materials - Dating methods – Eras -Vikrama, Saka, Kollam, Kali

BLOCK-4

 $\underline{\text{Unit} - 10}$ – Copper Plate inscriptions of India – format – significance and distribution – Royal seals, symbols of ruling powers of North and South India

<u>Unit – 11</u> – Origin of Manuscripts in India – Collection of Manuscripts and Cataloguing – Palm Leaf Manuscripts – Method of Writing – Deterioration - Preservation Techniques – Restoration of Palm Leaf Manuscripts

 $\underline{\text{Unit} - 12}$ – Paper Manuscripts: Origin and Development in India – Importance factors of Deterioration of Paper – Conservation of Paper Manuscripts

BLOCK – 5

<u>Unit – 13</u> - Institutions of Epigraphical studies – Institute of Archaeology, New Delhi, Department of Epigraphy, ASI, Mysore,

<u>Unit – 14</u> – Department of Archaeology, Govt. of Tamilnadu – Dept. of Ancient History and Archaeology, University of Madras – Dept. of Epigraphy, Tamil University, Thanjavur – International Institute of Tamil Studies, Chennai

 $\underline{Unit - 15}$ – Digitalization of Inscription

REFERENCE BOOK

- 1. Buhler, G., Indian Palaeography, Indological Book House, N.Delhi, 1968
- 2. Pandey, R.B., Indian Palaeography, Motilal Banarsidas, Benaras, 1952
- 3. Dani, A.H., Indian Palaeography
- 4. Mahalingam, T.V., Early South Indian Palaeography, University of Madras, 1967
- 5. Sivaramamurthy, Indian Epigraphy and South Indian Scripts
- 6. Burnell, A.C., Elements of South Indian Palaeography
- 7. Mahalingam, T.V., Early South Indian Palaeography
- 8. Rajan, K., Kalvettiyal (Tamil), Mano Pathippagam, Thanjavur
- 9. Natana. Kasinathan, Kalleluttukalai, (Tamil)
- 10. Subramanian, T.N., South Indian Temple Inscriptions

COURSE – III – **DIAE** – INDIAN ARCHITECTURE AND ICONOGRAPHY

<u>BLOCK - 1 -</u> Origin and Development of Art and Architecture – Pre Historic Art – Harappan Art – Various Features of Indian Architecture

BLOCK-2 - Buddhist and Jaina Architecture – North Indian Architecture

BLOCK - 3 - South Indian Architecture - Indo-Islamic Architecture

<u>BLOCK – 4</u> - Introduction to Iconography – Terminologies and Principles – Iconography of Three Murthy's – Iconography of Durga

<u>BLOCK – 5</u> – Buddhist and Jaina Iconography

<u>Unit – 1</u>

Origin of Art in India – Pre Historic Art – Harappan Art: Seals, Sculptures – Stone and Metal -Harappan Architecture – Town Planning – Fortification – Public Buildings

<u>Unit – 2</u> - The Concept of Hindu Temples - Evolution of Temple form: meaning, symbolism – ritual – social importance of Temple - Origin of Stupa Architecture and its various styles – Vihara and Chaitya Architecture

<u>Unit – 3</u> - Mauryan monolithic pillars – Finely carved capitols – Four Gateways - Mauryan stupas – Early Shrines of Gupta – Temple Architecture in Gupta Period - Rock – cut art and architecture - Nagara – Vesara – Dravida architecture and their features

<u>BLOCK – 2</u>

<u>Unit – 4</u> - Early Development of Buddhist Architecture in Ashoka rule – Hinayana tradition as rock – cut architecture – Lomas Rishi Doorway and Interior –Mahayana tradition (Ellora caves) - Origin of Stupa in Buddhist Tradition – Development of Stupas – Elements of Stupas – Types of Stupas - Purpose of Erection of Stupas - Development of Stupas under Gandhara School of Art – Pyramidal Stupas – Sarnath Stupas, Sanchi stupa, Amaravathi Stupa – Bharhut Stupa

<u>Unit – 5</u> - Origin of Chaityas – Development in its Construction – Chaityas of Hinayana sect – its General Characteristics – Bhaja, Kondane, Pitalkhora, Ajanta Caves 9, 10, Bedsa, Karle, Kanheri

<u>Unit – 6</u> - Origin of Viharas – Etymology and Nomenclature – Basic Characteristics – Construction Pattern - Viharas as Monasteries – Pleasure Centres – Difference between Viharas and Chaityas – Taxila – Nalanda – Somapura – Nagarjunakonda – Vikramasila – Valabhi – Varanasi – Kanchipuram - Manyakheta

 $\underline{\text{Unit} - 7}$ - Origin – Elements of Jain Architecture – Interior Layout of the Jain Temples – Jain Architecture in Indian History

 $\underline{\text{Unit}} - \underline{8}$ - Introduction to Gupta Architecture – Materials and Features – Evolution of Temple Architecture in India during Gupta Period – Types of Gupta Temples - Dasavathar Temple, Deogarh -

Kankali Devi Temple, Tigawa - Bhumara – Lakshman Temple, Kanpur - Mahabodhi Temple, Bodh Gaya

<u>Unit – 9</u> - Basic Features of Nagara Style of Architecture – Three Sub-types of Nagara Temples – Three Subschools in Nagara style of architecture – Odisha Temple Architecture

<u>Unit – 10</u> - Introduction to Vesara Style of Architecture – Characteristics of Vesara Architecture — Examples of Vesara style of Temples - Basic Features of Ancient Temples of Rajasthan – Surya Temple, Osia - Temples dedicated to Harihara, Osia – Neminatha Temple, Kumbaria – Vimala Vasahi, Mount Abu

BLOCK – 3

<u>Unit – 11</u> - Origin and History of Dravidian Architecture – Composition and Structure – Evolution of Rock Cut architecture – Plan - Temple Architecture Stages: Mahendra Varman Style – Narasimha Varman Style – Rajasiman Style – Nandivarman Style

<u>Unit – 12</u> - Plan of Construction: Vimana – Gopurams (Gateways) – Mukha mandapa – Ardha Mandapa – Antarala – Garbagriha – Pillars - Introduction to Pallava Architecture – Rock cut temples – Monolithic Rathas – Structural Temples: Rajasimha and Nandivarman Style - Five Rathas – Shore Temple – Mandapattu Cave Temple – Kailasanatha Temple, Kanchipuram - Mahendra Visnugriha, Mahendravadi

<u>Unit – 13</u> – Chola Architecture - Characteristic features of Chalukyan Architecture – Plan of Temples - Lad Khan, Aihole - Pattadakal group of temples - Evolution of Western Chalukyan architecture – Elements of Architectural features of Western Chalukyas: Vimana, Mantapa, Sculptures – Monuments - Introduction to Hoysala Architecture – Features of Hoysala Architecture – Chennakesava temple, Belur – Hoysalesvara temple, Halebid – Chennakesava Temple, Somanathapura

<u>Unit – 14</u> - Origin of Indo Islamic Architecture – Identification of Islamic Architecture - Salient Features – New Elements added by Muslims to Indian Architecture - Different Kinds of Buildings: Mosques and its elements: Mimbar, Mihrab, Aiwan, Haud, Sahn or Sehan, Riwaq, Minar, Minaret – Tombs: Rauza, Makbara, Cenotaph - Dargahs, Hammams, Gardens, Madarasa and Sarais

<u>Unit – 15</u> - Imperial Style: Slave Dynasty (Mamluk) Architecture – Khilji Dynasty Architecture – Tuqlaqs Dynasty Architecture - Lodi Dynasty Architecture - Qutub Minar – Arhai Din ka Jhompra – Tomb of Nasir-ud-Din Mohammed (Sultan Ghari) - Provincial Style of Architecture: Punjab School: Multan and Lahore cities – Shah Yusuf Gardizi's, Shah Bahau- I – Haqq, Shadna Shahid's, tombs -Gujarat School of Architecture: Three Phases in this School and their Salient Features – Monuments: Tomb of Shikh Farid, Jami Masjid

<u>Unit – 16</u> - Mughal Style of Architecture: - Characteristic Features – Babur, Sher Shah Sur, Humayun, Akbar, Jahangir, Shah Jahan - Monuments - Introduction to Deccan Style of Architecture – Influence of Various Styles: Delhi and Persian Style – Various Phases: Gulbarga Phase – Bidar Phase – Various Monuments

<u>BLOCK – 4</u>

 $\underline{\text{UNIT} - 17}$ Concept and symbolism in Image worship – Origin and Antiquity of Image Worship in India – Its various stages of developments – Materials used for making idols

<u>UNIT – 18</u> - Mudras: Nomenclature – Forms of Mudras: Hasta, Paatha, Sarira Mudras – Abhaya, Varada, Jnana, Vyakhyana, Katyavalambita, Namaskara, Gajahasta, Dhyana, Harini, Kartari, Kataka, Vitarka, Suci, Tarpana, Ksepana, Uttarabodhi, Buddhasramana, Bhumisparsa, Bhutadamara, Vajrahumkara mudras - Bangas: Samabhanga, Abhanga, Tribhanga, Atibhanga – Visnudharmottara - Asanas: Ardhaparyanka, Paryanka, Bhadra, Dhyana, Kurma, Lalitha, Vama Lalitha, Pralambapada, Simha, Sopasraya, Svastika, Utkutika, Vajra, Vira, Yoga - Attributes: Weapons of War, Chase – House Hold and Agricultural implements – Fruits, Flowers – Musical Instruments - Vahanas: Gaja, Gardabha, Garuda, Hamsa, Kurma, Makara, Mayura, Musaka, Nandi or Vrsabha, Simha, Uluka - Iconometric Principles: Tala Manas

<u>UNIT – 19</u> - Introduction to Iconography of Shiva and his forms: Kala Bairava, Tripurantaka, Ardhanareeswara, Nataraja and their Attributes - Symbolism in Vishnu Iconography – Various forms of Lord Vishnu: Matsya, Kurma, Varaha, Narasimha, Vamana, Parasurama, Balarama, Kalki – Ayudhas - Origin of Brahma worship – Symbolism - Iconography – Vehicle – Consort - Goddess Durga: Etymology and Nomenclature – Nine forms of Durga – Attributes – Vehicles – Mahishasuramardhini's symbolism and features, attributes – Ganesha: Etymology and epithets – Symbolism - iconographic history – consorts – vehicle - Lakshmi: Symbolism and Iconography – Avatars: Dhanyalakshmi, Adi Lakshmi, Dhairya Lakshmi, Gaja Lakshmi, Santana Lakshmi, Vijaya Lakshmi, Dhana Lakshmi, Vidya Lakshmi – Dikpalas - Three forms: Asta Dikpalas, Dasa Dikpalas, Nava Dikpalas – Vehicle, Weapon, Consort – Navagrahas

BLOCK – 5

<u>UNIT – 20</u> - Introduction – Significance of Art and Iconography in Buddhism – Lakshanas and their symbolisms – Other images: Elongated Ears, Lotus Flowers, Wheel of Law - Mudras: Bhumisparsa, Dharmachakra, Abhaya, Varada, Dhyana – Asanas – Dhyani Buddha: Vairocana, Amoghasiddhi, Amitabha, Ratnasambhava, Akshobhya – Bodhisattava: Descriptions of various Boddhisattva images

<u>UNIT – 21</u> - Introduction to Jaina Iconography – Evolution of Jaina Images – Characteristics of Jaina Images – Jaina Iconographic norms - Adinatha – Neminatha – Parsvanatha – Mahavira - Standing Jaina Images – Other Iconographic Elements of Jainism – Yakshas and Yakshinis - Adhinatha: Introduction – Idols and Colossal statues – Neminatha: Nomenclature and features – Parshvanatha: Historicity – Iconography – Colossal Statues – Mahavira: Symbolism and Features

REFERENCE BOOKS

- 1. Edith Tomory, A History of Fine Arts in India and the West, Chennai, 1977
- 2. Vincent Smith, History of Fine Arts in India and Ceylon, Bombay, 1962
- 3. Percy Brown, Indian Architecture
- 4. Roy C. Craven, Indian Art
- 5. Soundara Rajan K.V., Cave Temples of Deccan, ASI, 1981
- 6. Balasubramaiam, S.R., Early Chola Temples, Orient Longman, 1971

- 7. -----, Middle Chola Temples, Thomas Press India Ltd, 1975
- 8. -----, Later Chola Temples, Mudgala Trust, 1979
- 9. Srinivasan, K.R., Temples of South India, Publications Division, N.Delhi, 1998
- 10. -----, Cave Temples of Pallavas, ASI, N.Delhi, 198
- 11. Gopinatha Rao, T.A., Elements of Hindu Iconography, Vols. I & II, Madras, 1914, 916 (reprint 1997)
- 12. Banerjee, J.N., Development of Hindu Iconography, Calcutta, 1985
- 13. Ganguly, O.C., South Indian Bronzes, 1914
- 14. Krishnasastri, H., South Indian Image of Gods and Goddess, Madras

COURSE – IV– DIAE – MUSEUM STUDIES AND CONSERVATION TECHNIQUES

BLOCK – 1 – Introduction to Museology – Scope of Study – Development of Museum Studies – Types of Museum

BLOCK – 2 – History of Museum in India – Role of Museum in Education – Museum Management – Important Museums in India

BLOCK – 3 – Museum Architecture – Requirements – Legal Measures – Techniques and Methods – Policy of Collection of Object – Acquisition Method

BLOCK – 4 – Types of Documentation – Preservation of Objects – Types of Exhibits – Conservation Laboratory

BLOCK – 5 – Preservation of Organic and Inorganic Materials – Preservation of Painting – Field Conservation Technique – Chemical Preservation

<u>BLOCK – 1</u>

 $\underline{\text{Unit} - 1}$ - What is Museology – Museography - Scope of Museum studies - Use of Museums - History of Museum in the World

<u>Unit – 2</u> - Classification of Museums: Subject wise and Administrative wise – National, Provincial, Regional, Government, School, College, Universities, Trustee Museum, Commercial Museum

 $\underline{\text{Unit}} - \underline{3}$ - Educational Museum – Crafts museum, Textile museum, Industrial museum, Rail museum, Agricultural museum, Anthropological museum, Archaeological museum, Folk art museum, Children's museum, Coins museum, Fort museum

BLOCK – 2

<u>Unit – 4 –</u> History of Museum Movement in India – Grace Morley as the First Director of the National Museum, New Delhi – Growing Aspects of Museology

<u>Unit – 5</u> - Educational Programmes and activities – lecturers, seminars, workshops, museum camps, special celebrations – Use of multimedia in museum studies – Museum as a centre of cultural studies

<u>Unit – 6</u> - Museum Management – Administration – Security – Public safety – Insurance – Budgeting and Human Resources - Identifying the forgeries, copies, replicas, reproductions – Museum Marketing – Co-ordinating National and International organisations related to museums

<u>Unit – 7</u> - Selected Museums in India – National Museums: National Museum, New Delhi, Chatrapati Sivaji Museum, Mumbai, Salar Jung Museum, Hyderabad, Indian Museum, Kolkata, Vishveswariya Museum, Bangalore, Government Museum, Chennai

BLOCK – 3

 $\underline{\text{Unit} - 8}$ - Introduction to Museum Architecture – Requirements of a Museum Building - Requirements for being a Curator: Role of a Director/Curator and other Technical and Administrative staff

<u>Unit – 9</u> - Legal Measures – Indian Legislative Measures – The Indian Treasure Trove Act, 1878 – The Ancient Monuments Preservation Act, 1904 - The Antiquities Budget, Financial Management, Collection Management, Storage, Storage Furniture, Export Control Act, 1947 - The Ancient Monuments and Archaeological Sites and Remains Act, 1958 – The Antiquities and Art Treasure Act, 1972 – Legal Measures in recent years

<u>Unit – 10</u> - Different Techniques and Methods – Basic components of Display – Exhibits, Space, Showcase, Lightning, Labels

<u>Unit – 11</u> - Policies of collection – Methods of Acquisition of Objects in Museum – Gift, Loan, Purchase, Scientific Expedition, Mutual Exchange, Treasure Trove - Collection of objects – field exploration, excavation, confiscations etc

BLOCK – 4

 $\underline{\text{Unit} - 12}$ - Importance of Documentation - Documentation types – The Day Book, Inventory, Cataloguing of Objects, Preparation of Registers, Preparing Index cards

<u>Unit – 13</u> - Definition of Preservation – Ethics of Preservation and Restoration – History of Archaeological conservation - Curatorial care – Preventive conservation – Chemical Preservation – Conservation Laboratory – Museum Staff, Necessary Equipments, Instruments, Tools

<u>Unit -14</u> - Conservation Laboratory – Museum Staff, Necessary Equipments, Instruments, Tools and Chemicals

BLOCK – 5

<u>Unit – 15</u> - Cause of Decay: Physical, Chemical and Bio Deterioration - Preservation of Organic Materials: Manuscripts, Palm Leafs, Papers, Leather, Textile, Wood

<u>Unit – 16</u> - Preservation of Inorganic Materials: Stone, Metals (Gold, Silver, Iron, Copper, Bronze, Lead), Clay, Glass - Paintings: Causes for Decay – Treatment for Decay process – Consolidation, Restoration, Repair and General Maintenance

<u>Unit – 17</u> - Field Conservation Techniques: Reconstruction and Restoration of Monuments – Grouting by Pressure Gravity, Gunniting, Under Pinning, Filleting, Edging, Monitoring of Cracks - Conservation of Excavated Site – Consolidation and Strengthening of Foundation - Salvaging and Transplantation of Monuments

 $\underline{\text{Unit} - 18}$ - Basic Chemistry – Organic and Inorganic Materials – Elements and Compounds of Preservation – Conservation of Metals: Silver, Gold, Copper, Iron, Lead and Non Metals - Preventive and Curative methods of control

REFERENCE BOOKS

- 1. Nigam, M.L., Fundamentals of Museology
- 2. Dwivedi, V.P., & Pant, G.N., Museums and Museology
- 3. Jayaraj, V., Museology: Heritage Management
- 4. Jayaraj, V., Care of Archival Materials and Manuscripts
- 5. Banerjee, N.R., Museum and Cultural Heritage of India
- 6. Baxi and Dwivedi, Modern Museum
- 7. Singh, A.P., Conservation and Museum Technique
- 8. Howie, F., (Ed), Safety in Mueums and Galleries
- 9. Lawrence J. Fenny, Museum, Archives and Library Security
- 10. Sarkar, Museums and Protection of Monuments & Antiquites in India
- 11. Nigam, Fundamentals of Museology
- 12. Diwedi, V.P., & Pant, G.N., Museums and Museology
- 13. Biswass, S.S., Protecting the Cultural Heritage
- 14. Jeyaraj, V., Museology Heritage Management
- 15.

COURSE - V - DIAE - EXPLORATION REPORT

While studying the Exploration Report, the Learner can be able to;

- Conduct field surveys in the Pre and Proto Historic Sites
- Surveying the stone age sites namely Palaeolithic, Mesolithic, Megalithic sites
- Documentation of various types of sites
- ✤ Conduct field surveys in Temples to study architecture
- Study the iconographic features
- Visit the sites consisting of Herostones or identifying new sites
- Decipher Inscriptions and to study the estampage of Inscriptions
- Learners have the chance to conduct field surveys and identify the pre and protohistoric sites in their own interest: