

Revised

COURSES OF STUDIES (CBCS)

For

MASTERS OF ARTS

In

ANCIENT INDIAN HISTORY, CULTURE AND ARCHAEOLOGY

Effective from Academic Session 2019-20

UTKAL UNIVERSITY
VANI VIHAR
BHUBANESWAR - 751004

Unit 1.

1. Introduction to Archaeology :
 - i. Definition, Scope and Relevance of Archaeology.
 - ii. Relationship of Archaeology with Social Sciences and Pure Sciences.
 - iii. Terms in Archaeology : Artifacts, Ecofacts, Industry, Assemblages and Culture.

Unit II.

1. Development of Archaeology :
 - i. History of Archaeology in Global Perspective.
 - ii. History of Archaeology in India from 18th C.A.D. to 1947.
 - iii. Development of Archaeology in Independent India.

Unit III.

1. Methods of Data Retrieval :
 - i. Methods of Exploration: Chance Discovery, Map and Satellite Study, Village to Village Survey, Salvage Archaeology, GPS and Survey.
2. Methods of Excavation : Trial Trench, Vertical Method, Horizontal Method, Quadrant Method, Open Strip Method.
3. Stratigraphy : Principles of Stratification, Identification and Recording of Cultural Sequence.

Unit IV.

1. Classification of excavated objects and findings.
2. Recording : 3D Measurement, Drawing of a Site, Pottery and Antiquities, Plan and Elevation.
3. Report Writing and Publication, Preparation of text, Drawing, Archaeological Photography, Preparation of dummy and proof reading.
4. Documentation and Reconstruction of Past life.
Social Archaeology : Settlement Pattern, Site Catchment Analysis and Site formation, Ethno-archaeology.

Recommended Books

1. D.K. Chakrabati ; *A Source Book of Indian Archaeology from the Beginning to 1947*, New Delhi, 1988.
2. K. Rajan ; *Archaeology ; Principles and Methods*, Thanjavur, 2002.
3. B. M. Fagan ; *Archaeology- A brief Introduction*, New York, 1991.
4.; *In the Beginning –An Introduction to Archaeology*, London, 1988.
5. Colin Renfrew ; *Archaeology: Theories, Methods and Practice*, U.S.A, 1991.
6. K.V Raman ; *Principles and Methods of Archaeology*, Madras, 1986.
7. James J. Hester ; *Introduction to Archaeology*, Williamsburg court Fairfax, 1976.
8. A. Ghosh ; *An Encyclopaedia of Indian Archaeology*, New Delhi, 1989.
9. Willam S. Dancey ; *Archaeology Field Methods; An Introduction*, New Delhi, 1985.

Unit 1.

1. Geological Processes :
 - i. Geological Periods and their relevance in Archaeology.
 - ii. Types of Rocks : Their Characteristic Features.
 - iii. Geological Environment : Soil, Gravel, Landscapes and Land Forms, River, Cave Sites, Glacial Deposits and types of Moraines.
 - iv. Reconstruction of Plant and Animal Environment : Micro and Macro Remains.

Unit II.

1. Chronology and Dating Methods :
 - i. Relative Dating : Stratigraphy, Typology, Seriation method of dating, Palynology and Palaeontology.
 - ii. Absolute Dating Methods : Radiocarbon, Thermoluminescence, Potassium-Argon, Fission Track.
 - iii. Other Methods of Dating : Dendrochronology, Fluorine and Nitrogen Analysis.

Unit III.

1. New Archaeology: Experimental Archaeology, Behavioural Archaeology, Processual and Post Processual Archaeology and Under Water Archaeology.
2. Cognitive Archaeology: Archaeological Indications of Rituals and Motifs of Art and Symbols.

Unit IV.

1. Basic Principles of Aerial Photography and Interpretation.
2. Basic Principles of Remote Sensing, Satellite Imagery and its Application in Archaeology.
3. Computer Application in Archaeology.

Recommended Books

1. Savindra Singh ; *Geomorphology*, Allahabad, 1998.
2. Colin Renfrew ; *Archaeology: Theories, Methods and Practice*, U.S.A, 2012.
3. B.M. Fagan ; *In the Beginning –An Introduction to Archaeology*, London, 1988.
4. James j. Hester ; *Introduction to Archaeology*, Williamsburg court Fairfax,1976.
5. K.V Raman ; *Principles and Methods of Archaeology*, Madras, 1986.
6. A. Ghosh ; *An Encyclopaedia of Indian Archaeology*, New Delhi, 1989.
7. K.Rajan ; *Archaeology ; Principles and Methods*, Thanjavur, 2002.

Unit I.

1. Prehistory: Definition and Scope.
2. Periodisation in Prehistory.
3. Stone Tool Technology: Tool typology, material and use.

Unit II.

1. Prehistory in World Perspective.
2. Outline of Prehistory of Africa: East Africa and South Africa.
3. Outline of Prehistory of Europe: Palaeolithic, Mesolithic and Neolithic cultures.

Unit III.

1. Prehistory in Indian perspective (i) Palaeolithic Culture: Lower, Middle and Upper.
2. Palaeolithic traditions in North India and Peninsular India.
3. Mesolithic Culture: Langhanaj, Bagor and Adamgarh.

Unit IV.

1. Neolithic Cultures of India: Early Farming Communities of (N.W.India) Baluchistan and Kashmir.
2. Neolithic Culture of Gangetic Plains, Belan Valley and Eastern India.

Recommended Books

1. D.K. Bhattacharya ; *An Outline of Indian Prehistory*, New Delhi, 1989.
2. Frank Hole and Robrt F. Heizer ; *An Introduction to Prehistoric Archaeology*, 1973.
3. H. D. Sankalia ; *Prehistory of India*, New Delhi,1975.
4. V. Rami Redy ; *Elements of Prehistory*, Book-I, New Delhi, 1989.
- 5.....; *Prehistoric Archaeology*, Book-II, New Delhi, 1989.
6. Jacques De Morgan ; *Outline of Prehistory*, New Delhi, 1990.
7. K.M Srivastava ; *New Horizons of Indian Archaeology*, New Delhi, 1988.
8. Grahame Clark ; *World Prehistory in New Perspective*, Cambridge, 1961.
9. D.P Agrawal and J.S Kharakwal ; *South Asian Prehistory*, New Delhi, 2002.

Unit I.

1. Pre and Early Harappan Cultures of North and North-West India : Mehargarh and Kalibangan.
2. Harappan Culture: Origin, Extent Characteristic features and Chronology.

Unit II.

1. Mature Harappan Culture (Type Sites) : Harappa, Mohenjodaro, Dholavira and Lothal.
2. Devolution of Harappan Culture : Punjab, Haryana, Rajasthan and Uttar Pradesh.
3. Decline of Harappan Culture: Causes and Consequences

Unit III.

1. Chalcolithic Culture in India : Diagnostic features and Chronology.
2. Chalcolithic Culture of Rajasthan and Central India : Ahar, Kayatha and Navdatoli.
3. Chalcolithic Culture of Eastern India : Chirand, Pandurajara-Dhibi and Golbai.

Unit IV.

1. O.C.P. and Copper Hoard Culture of Gangetic Plain.
2. Iron Age Cultures of India ; PGW Cultures : Ahichhatra, Atranjikhera and Hastinapur.
3. Megalithic Culture of South India.

Recommended Books

1. B.B. Lal ; *New light on the Indus Civilization*, New Delhi, 1998.
2. Bridget and Raymond Allchin; *The Rise of Civilization in India and Pakistan*, New Delhi, 1982.
3. M.K. Dhavalikar; *Indian Proto-History*, New Delhi, 1997.
4. D.P Agrawal and J.S Kharakwal ; *Bronze and Iron ages in South Asia*, New Delhi, 2003.
5. Nayanjot Lahiri ; *The Decline and Fall of Indus Civilization*, New Delhi, 2000.
6. S. Settar and Ravi Korisettar; *Prorohistory*, New Delhi, 2002.

SECOND SEMESTER

AIHCA- C - VI.

WORLD CIVILISATIONS

100 Marks 4 Credits

Unit I.

1. Egyptian Civilisation : Political Developments, Art and Architecture, Religion, Society.
2. Harappan Civilisation : Society, Religion, Art and Architecture.

Unit II.

1. Mesopotamian Civilisation : Sumerian, Babylonian and Assyrian: Society, Art and Architecture, Religion, Innovations, Law Codes, Administration, Religion and Education.
2. Chinese Civilisation : Polity, Society, Science-Innovations and Technological Developments.

Unit III.

1. Maya Civilization : Polity, Society, Art, Religion and Decline.
2. Greek Civilisation : Athenian Democracy, Society and Culture.

Unit IV.

1. Roman Civilisation : Establishment of Republic Society and Cultures.
2. Persian Civilisation : Hebrew and Phoenician civilization.

Recommended Books

1. V.G. Childe ; *What Happened in History*, Penguin,1967.
2. H.A. Davies ; *An outline History of the world*, London,1969.
3. T. Dhanakoty and N. Subramanian - *Man and his works, An Introduction to Universal History*, Chennai, The National Publishing Company, 1956,
4. H. R. Hall ; *Ancient History of the Near East*, London, 1913.
5. H. S. Baghela ; *World of Civilization*
6. Hendrick W. V. Loon; *The Story of Mankind*, U. K., 1921.
7. J.E. Swain ; *A History of World Civilization*, Mc Graw Hill Book Co, 1947.
8. Neil. H., Willam. M. C. ; *A World of History*, Oxford, New York, 1907.

Unit I.

1. The Vedic Age : Society and Religion.
2. Evolution of Social Institutions : Varnashrama ; Jati, Marriage, Samskaras.

Unit II.

1. Religious Movements during the 6th Century B.C. : Jainism and Buddhism – Socio-Economic Background of their rise.
Principles and Philosophy ; Impact on the Society.
2. Rise of Mahayanaism.

Unit III.

1. The Sangam Age in South India.
2. The Bhakti Movements : Shaivism and Vaishnavism.

Unit IV.

1. Indian Philosophy : Schools of Vedanta and Mimansa.
2. Position of Women in Ancient Indian Society.

Recommended Books

1. A. L. Basham ; (Ed.) *Cultural History of India*
2. D. D. Kosambi ; *An Introduction to the Study of Indian History*, Popular Prakashan, Mumbai, 1975.
3. H.C. Ray Chaudhury ; *Political History of Ancient India*, New Delhi, 1999.
4. R.C. Majumdar ; *Ancient India*, New Delhi, 1994.
5. Romila Thapar ; *A History of India*, Vol-I, New Delhi, 1999.
6. D.N. Jha ; *Ancient Indian in Historical Outline*, New Delhi, 2006.
7. D.D. Kosambi ; *The Culture and Civilization of Ancient India in Historical Outline*, New Delhi, 2006.

Unit I.

1. Mauryan Architecture: Rock-cut Caves and Monolithic Columns, Stupa Architecture.
2. Sunga Architecture: Stupa, Caityagriha and Vihara.

Unit II.

1. Buddhist Architecture at Bharut and Sanchi.
2. Stupas at Amaravati and Nagarjunakonda.

Unit III.

1. Rock-cut Cave Architecture of Western India, Ajanta and Ellora Caves.
2. Rock-cut Cave Architecture of Eastern India, khandagiri and Udayagiri Caves.

Unit IV.

1. Evolution of Temple architecture of Gupta period.
2. Temple Architecture of Southern India (Chalukya, Pallava and Chola)
3. Temples of Central India: Khajuraho.

Recommended Books

1. P.Brown ; *Indian Architecture* (Buddhist and Hindu Period), Mumbai, 1997.
2. Edith Tomory ; *A History of fine art, In India and the west*, Chennai, 2009.
3. V. Dehejia ; *Indian Art*, London, 1997.
4. R. Craven ; *Indian Art*, London, 1997.
5. S.P.Gupta ; *Elements of Indian Art*, New Delhi, 2002.
6. A.N. Parida ; *Early Temples of Orissa*, New Delhi, 1999.
7. K.S. Behera ; *Temples of Orissa*, Bhubaneswar, 1993.
8. N.S. Ramaswami ; *Indian Monuments*, New Delhi, 1979.

Unit I.

1. Prehistoric Art of India: Bhimbetka, Edkal, Lekhamoda group.
2. Harappan Art, Stone, Bronze, Terracotta, Pottery.
3. Mauryan Sculpture: Capital Figures, Animals, Yaksha, Yakhsinis.

Unit II.

1. Sunga Sculptures: Bharhut, Sanchi and Bodhgaya.
2. Kushana Sculptures: Gandhara and Mathura Schools of Art.

Unit III.

1. Vengi School of Art : Amaravati, Nagarjunakonda.
2. Gupta Art : Saranath School and Ajanta and Bagh Paintings.

Unit IV.

1. Sculptural Art of Pallavas.
2. Sculptural Art of Chalukyas.
3. Sculptural Art of Cholas.

Recommended Books

1. E. Neumayer ; Lines on stone,
2. Edith Tomory ; *A History of Fine Art, In India and the West*, Chennai, 2009.
3. V. Dehejia ; *Indian Art*, London, 1997
4. S.P.Gupta ; *Elements of Indian Art*, New Delhi, 2002.
5. P.Brown; *Indian Architecture* (Buddhist and Hindu Period), Mumbai, 1997.
6. R. Craven ; *Indian Art*, London, 1997.
7. S.Pradhan ; *Rock Art in Orissa*, New Delhi, 2001.

AIHCA- C - X. PRACTICAL TRAINING in the Field on Archaeological (EXPLORATIONS AND EXCAVATIONS for a Duration of One weeks, Submission of PROJECT REPORT)

100 Marks and 4 Credit.

1. Participation and preparation of project Report – **75 Marks.**
2. Viva-Voce – **25 Marks.**

THIRD SEMESTER

AIHCA- CE - XI.

ECONOMIC HISTORY OF INDIA UPTO 1200 A.D.

100 Marks 4 Credits

Unit I.

1. The Vedic Age – Economic aspect.
2. Urbanisation of Ganga Valley (600 B.C.- 500 A.D.)

Unit II.

1. Agriculture and the Emergence of Land Revenue System during Pre-Maurya and Maurya times.
2. Trade and Commerce from 200 B.C. to 300 A.D.

Unit III.

1. The Guild System of Ancient India.
2. Agrarian Relations and Social Changes in the Gupta and Post Gupta Periods (300 A.D. to 700 A.D.)

Unit IV.

1. Trade and Urban Decay 500 A.D. to 1200 A.D.
2. Emerging Pattern of Agrarian Relation from 800 A.D. to 1200 A.D.

Recommended Books

1. A.L. Basham , (ed) ; *Cultural History of India*
2. P.L.Gupta, *Coins*, 4th Edition, Delhi, 1996.
3. D.D.Kosambi ; *An Introduction to the Study of Indian History*, Mumbai, 1975.
4. Romila Thapar ; *A History of India*, Vol-I, New Delhi, 1999.
5. D.N. Jha ; *Ancient Indian in Historical Outline*, New Delhi,2006.

Unit I.**Early Art and Architecture of Odisha.**

1. Rock Art in Odisha – Pictographs & Petroglyphs.
2. Rock -Cut Caves & Sculpture at Dhuli.
3. Rock – Cut Architecture at Khandagiri and Udayagiri.

Unit II.**Buddhist Art and Architecture in Odisha.**

1. Stupas, Viharas and Caityas at Lalitagiri, Udayagiri, Ratnagiri and Langudi.
2. Buddhist Images and Iconography (Mahayana and Vajrayana).

Unit III.**Temple Architecture of Odisha.**

1. Evolution of KalinganTemples and its Classification.
2. Temples of Early Phase (Satruganesvara, Parasuramesvara, Vaital)
3. Temples of Transitional and Mature phase Muktesvara, Brahemesvara, Lingaraj)
4. Efflorescences of OdishanTemples (Jagannatha Temple at Puri and Sun Temple at Konark).

Unit IV.**Forts and Fortifications in Odisha.**

1. Sisupalgarh.
2. Asurgarh.
3. Raibania Fort.
4. Barabati Fort.

Recommended Books

1. S. Pradhan ; *Rock Art in Orissa*, New Delhi, 2001.
2. D. Mitra ; *Bhubaneswar*, New Delhi, 1978.
3. A.N. Parida ; *Early Temples of Orissa*, New Delhi, 1999.
4. K.S. Behera &T.E.Donaldson ; *Sculpture Masterpieces from Orissa*, New Delhi, 1998.
5. T.E.Donaldson ; *Iconography of the Buddhist Sculptures of Orissa*, Delhi, 2001.
6. B.Bandyopadhyay ; *Buddhist centres of Orissa, Lalitagiri, Ratnagiri and Udayagiri*, New Delhi, 2004.
7. D. Mitra ; *Khandagiri and Udayagiri*, New Delhi, 1975.
8. R.P. Mohapatra ; *Archaeology in Orissa*, Vol-II, Delhi, 1986.
9. T.E. Donaldson ; *Hindu Temple Art of Orissa*, Vol.I & II, 1985-86.

AIHCA- CE - XIII. VISIT TO MONUMENTS AND SUBMISSION OF REPORTS **100 Marks 4 Credits**

1. Participation and preparation of project Report – **75 Marks.**
2. Viva-Voce – **25 Marks.**

AIHCA- AE – XIV & XV. CREDIT FROM OTHER DEPARTMENTS **200 Marks 8 Credits**

Allied Electives for other Departments.

AIHCA- AE - XIV. HERITAGE OF ODISHAN ART & ARCHAEOLOGY **100 Marks 4 Credits**

Unit I.

1. Rock Art of Odisha.
2. Early Historic Metropolitan Settlement at Sisupalgarh.
3. Odishan Art during 3rd Century B.C. – 1st Century B.C.

Unit II.

1. Temple Architecture of Odisha : Salient Features.
2. Early Phase: (Satrughnesvara Group of Temples, Parasuramesvara Temple and Vaital Temple.
3. Transitional Phase: Muktesvara Temple and Rajarani Temple.
4. Mature Phase : Lingaraj Temple and Konark Temple.

Unit III.

1. Buddhist Heritage of Odisha; A Historical Background.
2. Ratnagiri, Lalitagiri, Udayagiri, Langudi, Dhauli, Kuruma, Aragarh

Unit IV.

1. Iconography of Visnu, Sakti and Siva.
2. Iconography of Buddha, Boddhisattvas and other Buddhist Divinities.
3. Iconography of Jaina Tirthankaras and their Sasanadevis.

Recommended Books

1. S.Pradhan ; *Rock Art in Orissa*, New Delhi, 2001.
2. K.C. Panigrahi ; *Archaeological remains at Bhubaneswar*, Cuttack, 1961.
3. K.S. Behera & T.E. Donaldson ; *Sculpture Masterpieces from Orissa*, New Delhi, 1998.
4. K.S. Behera ; *Temples of Orissa*, Bhubaneswar, 1993.
5. B.Bandyopadhyay ; *Buddhist Centres of Orissa, Lalitagiri, Ratnagiri and Udayagiri*, New Delhi, 2004.
6. R.P. Mohapatra ; *Jain Monuments of Orissa*, New Delhi, 1984.
7. D. Mitra ; *Bhubaneswar*, Calcutta, 1958.
8. D. Mitra ; *Udayagiri and Khandagiri* (ASI), New Delhi, 1975
9. T.E. Donaldson ; *Iconography of the Buddhist Sculpture of Orissa*, Delhi, 2001.

AIHCA- AE - XV. HERITAGE OF ODISHAN TEMPLE ART & ARCHITECTURE (6th CA.D.-13th C A.D.)

100 Marks 4 Credits

Unit I.

1. Types of Odishan Temple (Rekha, Pidha and Khakhara).
2. Evolution of Odishan temple architecture.

Unit II.

1. Stylistic development of Odishan Temple Sculpture.
2. Odishan Temple Sculpture: Early phase (6th to 9th Century A.D.).
3. Odishan Temple Sculpture: Later phase (10th to 13th Century A.D.).

Unit III.

1. Temple Architecture of Odisha: Salient Features.
2. Early Phase of Odishan Temple : (Satrughnesvara Group of Temple, Parasuramesvara Temple and Vaital Temple).
3. Transitional Phase of Odishan Temple: Muktesvara Temple and Rajarani Temple.

Unit IV.

1. Mature Phase of Odishan Temple: Brahmesvara and Lingaraj Temple.
2. Efflorescence of Odishan Temple: Jagannatha Temple at Puri and Sun Temple at Konark.

Recommended Books

1. N. K. Bose ; *Cannons of Orissan Architecture*, New Delhi, 1982.
2. K.S. Behera ; *Temples of Orissa*, Bhubaneswar, 1993.
3. D. Mitra ; *Bhubaneswar*, New Delhi, 1978.
4. A.N. Parida ; *Early Temples of Orissa*, New Delhi, 1999.
5. K.S. Behera ; *The Heritage of Mankind, Religion, History and Architecture*, Vol.II, New Delhi, 1996.

FOURTH SEMESTER

AIHCA- CE - XVI.

CONSERVATION AND PRESERVATION OF MONUMENTS AND ANTIQUITIES

100 Marks 4 Credits

Unit I.

Conservation:

1. Principles and Ethics of Conservation.
2. Causes of Decay in Cultural Property.
3. Conservation Methodology.

Unit II.

Materials and its Techniques of Conservation :

1. Materials – Problems of Stone, Brick, Mortar, Lime etc.
2. Technique of Structural and Chemical Conservation.
3. History of Antiquarian Law in India: AMASR Acts.

Unit III.

Conservation of Palm Leaf Manuscripts and Paper Documents :

1. History of writing Materials: Palm Leafs, Paper, and others.
2. Deterioration Factors: Biological, Physical and Chemical.
3. Conservation treatment: Examination, Cleaning and Stain removal, Deacidification and Restoration.

Unit IV.

Conservation of Monuments :

1. Ajanta , Ellora and Elephanta.
2. Shore Temple, Brihadesvara Temple and konark Temple.
3. Sikandara, Taj Mahal and Bibi- Ka –Maqabara.

Recommended Books

1. L.N. Batra ; *Heritage Conservation* (Preservation and Restoration of Monuments), New Delhi, 1996.
2. O.P. Agrawal and M. Barkeshli ; *Conservation of Books, Manuscripts and Paper Documents*, INTACH, 1997.
3. O.P.Agrawal ; *Preservation of Art Objects and Library Materials*, NBT, 1993.
4. B.Feilden ; *Guideline for Conservation* (A Technical Manual), INTACH,1989.
5. S.S.Biswas ; *Protecting The Cultural Heritage*, New Delhi.

Unit I.

1. Historical Geography and Early State Formation of Odisha.
2. Chedi Rule in Odisha : Kharavela and his Achievements
3. The Matharas.

Unit II.

1. The Sailodbhavas.
2. The Bhaumakaras : Political history.
3. The Somavamsis : Political history.

Unit III.

1. The Ganga Rule in Odisha ; Anantavarman Chodagangadeva, Narasimhadeva I.
2. The Rule of the Gajapatis.
3. Maritime Activities of Odisha.

Unit IV.

1. Religious Developments : Jainism and Buddhism.
2. Religious Developments : Shaktism, Shaivism, Vaishnavism, Jagannath Cult.

Recommended Books

1. K.C. Panigrahi ; *History of Orissa*, Cuttack, 1958.
2. U. Subuddhi ; *The Bhaumakaras of Orissa*, Calcutta, 1978.
3. N.K. Sahu ; *Utkal University History of Orissa*, Vol-I, 1964
4. N. Sahu, P.K. Mishra, J.K. Sahu; *History of Orissa*, Cuttack, 1979.
5. R.D.Banerjee ; *History of Orissa*, Vol. I, Calcutta, 1930.
6. M.N.Das ; *Sidelights on the History and Culture of Orissa*, Cuttack, 1977.

Unit I.

1. Early Sculptures of Odisha (From 3rd Century B.C. to 2nd Century B.C.)
2. Sculptures of Odisha during 1st Century B.C. : Khandagiri and Udayagiri.

Unit II.

1. Decorative Motifs on Odishan Temples; Religious and Secular images.
2. Female figurines, Chaitya window, lotus medallions, kirttimukha, Vyalas, erotic figures.

Unit III.

1. Cult images: Hindu Iconography.
2. Siva, Visnu, Ganesa, Karttikeya, Surya, Sakti, Saptamatrikas, Digpalas.

Unit IV.

1. Jaina Tirhankaras and Sasana Devis.
2. Illustrated Palm leaves and Patta Paintings.

Recommended Books

1. S.Pradhan ; *Rock art in Orissa*, New Delhi, 2001.
2. K.C. Panigrahi ; *Archaeological remains at Bhubaneswar*, Cuttack, 1961.
3. L.N Senapati (ed) ; *Puri district Gezzetier*, Cuttack, 1972.
4. N.K. Sahu ; *Utkal University history of Orissa*, Vol.I, Bhubaneswar, 1964.
5. K.S. Behera&T.E.Donaldson ; *Sculpture Masterpieces from Orissa*, New Delhi, 1998.
6. D. Pathy ; *Traditional Pantings of Orissa*, New Delhi, 1990.

Unit-I

1. Epigraphy as Sources of History.
2. Origin and antiquity of writing in India. Origin of Brahmi and Kharosthi scripts.
3. Selected Asokan Inscription.

Unit-II

1. Besnagar Garuda Pillar Inscription, Junagarh Inscription, Aihole Pillar Inscription of Pulakesin-II
2. Hatigumpha Inscription of Kharavela, Allahabad Pillar Inscription of Samudragupta.

Unit-III

1. Numismatic as sources of History.
2. Origin and Antiquity of coinage in India, Techniques of Manufacturing coins.
3. Punch-Mark coins, Indo-Greek Coins.

Unit-IV

1. Saka and Kushana coins, Satavahana Coins.
2. Roman coins and Gupta Gold coins.

Recommended Books

1. K.V. Ramesh ; *Indian Epigraphy*, Vol.I, Delhi, 1984.
2. K.S. Murty ; *Text Book of Indian Epigraphy*, Delhi, 1920.
3. D.C. Sircar ; *Inscriptions of Asoka*, New Delhi, 1997.
4. P.L Gupta ; *Coins*, New Delhi, 1997.
5. R.Jain ; *Ancient Indian Coinage*, New Delhi, 1995.
6. B.Agrawal & S.Rai ; *Indian Punch-Marked Coins*, New Delhi, 1994.

AIHCA- CE – XX Dissertation on any Aspect of Art, Archaeology and Monuments of Odisha based on field Study.**100 Marks and 4 Credit.**

1. Participation and preparation of project Report – **75 Marks**.
2. Viva-Voce – **25 Marks**.