

First Semester for 2-year P.G. program

(For non-practical/practical based subjects)

Entry requirement	3-year Bachelor's degree (minimum 120 credits) or 4-Year Bachelor's Degree (In case of B.Tech and B.E Programme-Minimum-160 credits) and candidates who have met the entrance requirements, including specified levels of attainment, in the programme admission regulations.			
Semester	Course category	Course title		Total Credit
I	Discipline Specific Core	DSC-1	Principles and Methods in Archaeology	5
		DSC-2	Paleolithic Culture in Indian sub-continent	5
		DSC-3	Environmental Archaeology	5
		DSC-4	Experimental Archaeology (Based on DSC-1, 2 & 3	Theory-2
	Discipline Specific Elective (Any 1 out of Minimum 2 electives)	DSE-1	Sources of Indian History	4
History of India from earliest time to 1200 CE				
Total				24

If any course (Core or Elective) includes a practical component, the department must ensure appropriate distribution of credits between the theory and practical components, while maintaining the total credit value of the course unchanged.

Second Semester for 2-year P.G. program

(For non-practical/practical based subjects)

Semester	Course category	Course title		Total Credit	
II	Discipline Specific Core	DSC-1	Early Farming Communities -Mesolithic and Neolithic Culture in India	5	
		DSC-2	Copper and Bronze Age in Indian Sub-Continent	5	
		DSC-3	Scientific and Analytical Archaeology	Theory-2	Practical-3
		DSC-4	Computer Application in Archaeology	Theory-2	Practical-3
	Discipline Specific Elective (Any 1 out of Minimum 2 electives)	DSE-1	Ancient Indian Art	4	
Ancient Indian Religion					
Total				24	

If any course (Core or Elective) includes a practical component, the department must ensure appropriate distribution of credits between the theory and practical components, while maintaining the total credit value of the course unchanged.

Third Semester for 2-year P.G. program

(For non-practical/practical based subjects)

Semester	Course category	Course title		Total Credit	
III	Discipline Specific Core	DSC-1	Iron Age in India	5	
		DSC-2	Bio-Archaeology	Theory-2	Practical-3
		DSC-3	Ancient Indian Architecture	5	
		DSC-4	Archaeological Exploration and Excavation – at least 3 weeks of participation in Exploration and excavation	Theory-2	Practical-3
	Discipline Specific Elective (Any 1 out of Minimum 2 electives)	DSE-1	Indian coinage -1	4	
Historical Geography of Ancient India					
Total				24	

If any course (Core or Elective) includes a practical component, the department must ensure appropriate distribution of credits between the theory and practical components, while maintaining the total credit value of the course unchanged.

In the third semester of two-year P.G. program, if a department wishes to offer one more Discipline Specific Elective course, it may do so by replacing one of the Discipline-Specific Core courses. The credit value of the additional elective must be equal to that of the core course it replaces. This provision/flexibility is limited to only one additional elective course.

Fourth Semester for 2-year P.G. program

(For non-practical/practical based subjects)

Semester	Course category	Course title		Total Credit	
IV	Discipline Specific Core	DSC-1	Indian Iconography	5	
		DSC-2	Palaeography and epigraphy of India	5	
		DSC-3	Ethnoarchaeology	5	
		DSC-4	Dissertation and Viva-Voce	5	
	Discipline Specific Elective (Any 1 out of Minimum 2 electives)	DSE-1	Indian coinage -2	4	
World Prehistory					
Total				24	
NHEQF Level 6.5	<i>Student after successfully completing second year of 2-year P.G. programme (i.e., securing minimum 96 credits will be awarded “Postgraduate Degree” of Two years, in related field/discipline/subject</i>				
NHEQF Level 7	<i>In Case of Engineering programmes, Student on exit after successfully completing second year of 2-year P.G. programme (i.e., securing minimum 96 credits will be awarded “Postgraduate Degree” (M.Tech/M.E etc) of Two years, in related field/discipline/subject</i>				

If any course (Core or Elective) includes a practical component, the department must ensure appropriate distribution of credits between the theory and practical components, while maintaining the total credit value of the course unchanged.

In the fourth semester of two-year P.G. programme, if a department wishes to offer one more Discipline Specific Elective course, it may do so by replacing one of the Discipline-Specific Core courses. The credit value of the additional elective must be equal to that of the core course it replaces. This provision/flexibility is limited to only one additional elective course.

Note: Out of the courses offered across the four semesters of 2-year P.G. programme, in each semester, at least two courses should be skill-based. If the department is unable to offer the minimum of two skill-based courses in a given semester, it may compensate by offering additional/extra skill-based courses in the other semester."

Note: Research based courses such as Research methodology, Research writing and ethics, project work, dissertation, field visit, community engagement etc may be offered in the P.G. programme.

(Semester-I)

DSC-1: Principles and Methods in Archaeology

Credit-5 (Theory)

Unit –I: Nature and History of Archaeology

1. Definition and scope of Archaeology
2. History of Indian Archaeology from the 19th Century till to the present
3. Relationship of Archaeology with History, Anthropology and Natural sciences.

Unit –II: Methods of Data Retrieval

1. Field discoveries: Aims, objectives and methods of Exploration of archaeological sites; Chance discoveries; Village to village survey. Field survey of prehistoric and historical sites.
2. Unearthing the sites: Selection of Site for excavations; Layout technique and Excavation methods.
3. Methods of recording the contexts of excavated remains.
4. Retrieval of biological and other degradable material: methods and Floatation technique,

Unit –III: Reconstruction of Chronological sequence:

- 1 Stratigraphy: causes of the formation of layers, their nature, order, identification and recording the strata.
- 2 Relative dating: Typology and Dendrochronology
- 3 Absolute dating: Radiocarbon Dating, Thermo-luminescence Dating, Potassium Argon Dating, Obsidian hydration and Amino Acid Racemization

Unit-IV: Conservation and preservation of Archaeological Remains

1. Chemical treatment of organic and inorganic objects
2. Museum and the storage, display of antiquities.
3. Architectural conservation: Preservation and conservation of excavated structures and monuments.

Recommended Readings:

1. Wheeler, Mortimer-Archaeology from the Earth, Oxford University press, London, 1955.
2. Wheeler, Mortimer- Prithvi Se Puratattva (Hindi Translation).
3. Atkinson, R.J.C.- Field Archaeology, II edition, 1958.
4. Kenyon, K.N. - Beginning in Archaeology, 1961.
5. Delaet, S.J.-Archaeology and its problems, London, 1957.
6. Crowford, O.G.S. - Archaeology in the Field, III impression, London, 1954.
7. Webster, Graham - Practical Archaeology.
8. Puri, Baijnath- Puratattva Vigyan (Hindi)
9. Ojha, R.P.- Kshetriya Prutattva (Hindi)
10. Singh, M.M.- Puratattva ki Ruprekha Patna, 1971 (Hindi)
11. Gairola, T.R.- Hand Book of Chemical Conservation of Museum Objects, National Museum.
12. Mohammad. Sanullah- "Notes on the Preservation of Antiquities in the field", Ancient India, No. 1 pp. 82.
13. Lal, B.B. - "Chemical Preservation of Objects", Ancient India No. 18-19.
14. Plenderlieth H.J. -The conservation of Antiquities and works of Art, London, 1957.
15. Zeuner, F.E. - Dating the Past. 1958.
16. Piggot, S. - Approach to Archaeology.
17. Hemond, P.C.-Archaeological Techniques for Amateurs.
18. Michels. J.W.-Dating Methods in Archaeological Techniques for Amateurs.
19. Hester, J.J.-Introduction to Archaeology.
20. Shirma, Y.D.- Remains of Early Historical Cities (Archaeological Remains Monuments and Museums : Part, I-1964)
21. Sharma. Y.D. -"Exploration of Historical Sites" Ancient India, No. 9, pp. 166-169.
22. Lal, B.B. - "Excavation at Hastinapur and other Exploration, 1950-52 Ancient India, No.-10-11 : pp. 4-151.
23. Sharma, G.R.- Excavations at Kausambhi, 1957-59.
24. Wheeler, M., Gosh,-"Arikamedu-An Indo Roman Trading station on the East

- A and Deva, Krishana coast of India, Ancient India, No. 2, pp. 17- 124.
25. Wheeler, R.E.M. -"Brahmagiri and Chandravali, Megalith and other cultures in Mysore State". Ancient India No. 4, 1948, p. 180-310.
 26. Lal. B.B.-"Sisupalgarh 1948 and Early Historical fort in Eastn India. Ancient India No. 5, 1949, pp. 62-105.
 27. Pande, J.N.-Puratattva Vimarsh, Allahabad.
 28. Plender lieth, H.J. -The conservation of Antiquities and works of art
 29. Gairola, T. D.-Hand Book of Chemical conservation of Museum.
 30. Agrawal, D. P.-An Introduction to the Preservation of Paintings.
 31. Bhowmic, S. K.-Protection and Conservation of Museum collection (Hindi Trans by P. K. Trivedi and Y. S. Rawat)
 32. Singh, A. P.-Conservation and Museum Techniques.
 33. Atkinson, R.J.C. Field Archaeology. London. 1952.
 34. Brill, Robert H. (ed.) : Science and Archaeology. Cambridge 1971.
 35. Brothwell, D. R. & S. E. Higgs (eds.). Science in Archaeology. London. 1969.
 36. Cookson, M. B. Photography Archaeologist. London. 1954.
 37. Crawford, O.G.S. Archaeology in the Field. London. 1953.
 37. Cronyn, J. M. The Elements of Archaeological Conservation. New York. 1990.
 38. Plenderlieth, H. J. Conservation of Antiquities and Works of Art. London. 1957.
 39. Webster, G. Practical Archaeology: An Introduction to Archaeological Excavation. London. 1974.

DSC-2: Paleolithic Culture in Indian sub-continent

Credit-5 (Theory)

Unit-I: Prehistoric Archaeology and scope of prehistory

1. An introduction to prehistory: features and scope.
2. Salient features of world Prehistory- (Human Evolution and Out of Africa-1,2 &3)
3. Methods of Study of Prehistoric stone tools: Micro-wear studies, experimental archaeology.
4. Tool technology: Important methods of making tools.

Unit-II: Paleolithic Culture: Lower, Middle and Upper Paleolithic Cultures

1. Pebble tool culture in India, problems and issues, regional distribution of palaeolithic culture, geological context and Palaeoclimatic stratigraphy.
2. Palaeolithic culture in Himalayas, Himachal Shivaliks and Nepal; central India (Soan valley).1
3. Distribution of lower and middle palaeolithic cultures: Geoarchaeological context and tool types.
4. The Central India and Peninsular Context: Madhya Pradesh, Rajasthan, Gujarat, Maharashtra, Tamil Nadu and other regions.
5. Distribution of upper palaeolithic cultures

Recommended Reading

1. Zeumer, F.E. Pleistocene Period.
2. Rendell D., & Hobin, Pleistocene and Palaeolithic Investigations in Sohan Valley, N. Pakistan.
3. Pant, P.C. Prehistoric Uttar Pradesh. Delhi.
1. Relevant articles of Puratattva and Man & Environment.
2. Allchin B. & Allchin F.R.: The Rise of Civilization in India & Pakistan, New Delhi, 1983.
3. Ghosh, A. (Ed.): An Encyclopedia of Indian Archaeology, Vols. I & II. (Relevant Portions). New Delhi, 1989.
4. Jarrige, Catherine et.al [Ed.]: Mehargarh, Field Reports 1974-1985 from Neolithic Times to the Indus civilization. Karachi, Pakistan. 1995.
5. Jayaswal, V.: "Stone Age Technologies in India": History of Technology in India, Vol. I, New Delhi, 1997.
6. Leakey, L.S.B.: Olduvia Gorge 1959-1961, Volumes I, Cambridge, 1965.
7. Leakey, M.D.: Olduvia Gorge: Excavations in Beds I & II. 1960-1963, Cambridge, 1971.

8. Paddaya, K.: The Acheulian Culture of The Hunsgi Valley (Peninsular India) – A Settlement System Perspective, Poona, 1982.
9. Rendell, Dennell & Halim: Pleistocene & Palaeolithic Investigations in the san valley, North Pakistan.
10. H.D. Sankali: *Stone Age Tools: Their Techniques, Names and Probable Functions*, Deccan College, Pune, 1982.
11. H.D. Sankalia- *Prehistory and Protohistory of India and Pakistan*, Deccan college, Pune, 1974 Poona, 1982.
12. Sharma, G.R. & J.D. Clark (ed.): *Palaeo environments and Prehistory in the Middle Son Valley*, Allahabad, 1983.
13. Sharma, G.R. et.al: *From Hunting and Food Gathering to Domestication of Plants and Animals, Beginnings of Agriculture*, Allahabad, 1980.
14. Singh., Birendra Pratap: *Early Farming Communities of the Kaimur*, Jaipur, 2004.
15. B. Subbarao- *Personality of India*, Baroda, 1958
16. Terra H. De & T.T. Paterson: *The Studies on the Ice-Age in India & Associated Human Cultures*, Washington, 1939.
17. Thapar, B.K.: *Recent Archaeological Discoveries in India*, UNESCO, 1985.
18. Wymer, J.J.: *The Paleolithic Age*, London, 1982.
19. B.K.Thapar- *Recent Archaeological Discoveries in India*, UNESCO Publication, 1985.
20. B.R.Allechin , D.K.Chakrabarti- *A Source Book on Indian Archaeology*, M.M Publishers Pvt. limited, New Delhi , 1979.
21. D.P Agrawal, D.K.Chakrabarti- *Essays in Indian Protohistory*, B.R. Publishing Co, Delhi, 1979
22. D.P.Agrawal- *The Archaeology of India*, Curzon Press, London. 1982.
23. R.E.M.Wheeler- *The Indus Civilization*, University Press, London, 1968.
24. R.E.M Wheeler- *Early India and Pakistan*, Thames and Hudson, London,, 1959.
25. W.A.Fairservis Jr- *The Roots of Ancient India*, The University if Chicago press, Chicago, 1975.
26. B.B.Lal- *The Earliest Civilization of South Asia*, Aryan Books International, New Delhi, 1979.

DSC-3: Environmental Archaeology

Credit-5 (Theory)

Unit-I: Concept of Environmental Archaeology

1. Definition and Elements of Environmental Archaeology. Environment and Ecology.
2. Palaeo-environmental indicators and varieties of evidences

Unit-II: Palaeoclimatic Changes

1. Basic knowledge of quaternary geology.
2. Human Evolution. Quaternary period and geological records associated with Prehistory.
3. Palaeoclimatic indicators and methods of study. Quaternary deposits in India and its relevance in Paleoclimatic reconstruction.
4. Paleoclimatic and Paleoenvironment in Archaeology.

Unit-III: Branches of Environmental archaeology

1. Bio-archaeology: Archaeozoology and Palaeobotany
2. Anthropological Archaeology
3. Marine archaeology.

Unit-IV: Study of Floral and Faunal Remains

1. Types of Faunal and Floral Remains and general methods of their study, sample collection and processing
2. Human Osteology in the reconstruction of palaeohistory and biocultural remains and its archaeological significance
3. Case studies in and India, with special reference to Uttarakhand Himalaya.

Recommended Reading;

1. Dena Ferran Dincauze: Environmental archaeology: Principles and Practice, Cambridge university Press, 2000.
2. Butyer, K.: Environment & Archaeology.
3. De Terra H. & Paterson T.T. Studies in the Ice-Age and Associated Human Cultures. 1939
4. Relevant articles of Puratattva and Man & Environment.
5. Charles L. Redman: Human Impact on Ancient Environment, University of Arizona Press, 1999.
6. Clive Orton: Sampling in Archaeology (Cambridge Manuals in Archaeology), Cambridge University Press, 2000.
7. Shackley, Myra: Environmental Archaeology, 1981.
8. Laporte, Leo, F.: Ancient environment, 1968.
9. Wing and brown: Palaeonutrition,
10. Binford, L. R.: An Archaeological Perspective. London. 1972.
11. Brill, Robert H. (Eds.): Science and Archaeology. Cambridge 1971.
12. Brothwell, D. R. & S. E. Higgs (Eds.). Science in Archaeology. London. 1969.
13. Bintliff, John Devidson, D. A. and Grant E.G.: Conceptual Issues in Environmer Archaeology, Edinbargh University Press, 1988.
14. Sharma, G.R. & J.D. Clark, Encyclopedia of Environmental Science, Mc Crow Hill.
15. Mellars, P and Stringer, C.: The Human Evolution: Behavioural and Biological Perspecti on the Origins of the Modern Humans, Edinbargh University Press, 1989.
16. Mercer, R.: Farming Practice in British Prehistory, Edinbargh University Press, 1981.
17. Krechmer, N. and Robertson, W.V.B.: Human Evolution, Readings from Scientific Ameri San Fracisco, 1978.
18. Price, T.D.: The Prehistoric human Bone, Cambridge University Press, Nrw York, 1989.
19. Studies in Indian Archaeology and Palaeontology, Dharwad, India, 1990.
20. Singh, R. P.: Agriculture in Protohistoric India, Pratibha Prakashan, Delhi, 1990.
21. Evans, J. C.: An Introduction to Environmental Archaeology, Ithaca, New York, Corn University, Press, 1978.
22. Yellen, J.E.: Archaeological approaches to the Present: Models for the Reconstructing the P: Academic Press, New York, 1977a

DSC-4: Experimental Archaeology (Based on DCS-1, 2 & 3

Credit-5 (Theory-2 & Practical-3)

1. Identification of Paleolithic tools techno-typology (Lower, middle, and upper Paleolithic)
2. Studies and methods for micro-wear.
3. Identifying, analyzing, and recording Paleolithic tools.
4. Drawing of Paleolithic tools
5. Demonstration of field survey and exploration and excavation techniques.
6. Demonstration of recording the context of the excavated remains.
7. Demonstration of methods of categorization, cleaning and pretreatment of archaeological artifacts (tools
8. potteries faunal and floral remains and metallic objects).
9. Indoor preservation methods for different types of archaeological artefacts.
10. demonstration of photography and videography of archaeological artefacts along with an application of
11. software photography.
12. Demonstration of identifying the elements of environmental archaeology.
13. Demonstration of paleoenvironmental indicators along with quaternary geology.
14. Identifying the specific features of human evolution.

Discipline Specific Elective (DSE-1) (Any 1 out of Minimum 2 electives)

DSE-1: Sources of Indian History

Credit-4 (Theory)

Unit-I: Vedic and Dharmashastra Literature

1. Nature & classification
2. Historical value of Veda Vedanga and Dharmashastra

Unit-II: Other Ancient Indian Literature

1. Historical value of the Buddhist, Jain, Sanskrit and Tamil literature
2. Historical drama and Biographical literature, and accounts of foreign travelers

Unit-III: Archaeological Remains

1. Methods of obtaining information: explorations and excavations and importance of excavated remains for historical reconstruction

Unit-IV: Epigraphs and Coins

1. Epigraphy: meaning, scope and dating the historical events. Significance of palaeography and limitations of the sources
2. Classification and types of coins and historical reconstruction

Unit-V: Sculptures & Paintings

1. Media based classification: stone, metal, clay sculpture, paintings and their historical relevance.

Unit-VI: Monuments

1. Types of monuments and architectural remains
2. Methods of study and their historical relevance, and limitations of the sources

Recommended Reading

1. Allchin B & F.R. Rise of civilization in India & Pakistan, Delhi. 1983.
2. Agrawala, V.S. Bharatiya Kala (Hindi). Varanasi. 1965.
3. Banerjea, J.N. The Development of Hindu Iconography. New Delhi. 1985.
4. Bhandarkar, D.R. Carmichael Lectures on Ancient Indian Numismatics. Calcutta. 1917.
5. Brown, P. Indian Architecture. Vol. I. Bombay. 1985.
6. The Cultural Heritage of India, Vols. I&II (Relevant portions). Calcutta. 1982.

7. Majumdar, R.C. & Pusalkar, A.D. (ed.). The History and Culture of the Indian People (Bharatiya Vidya Bhawan Series). Vols. I-V (Portions on Art and Architecture). Bombay. 1988, 1980, 1988, 1984 & 1989.
8. Pandey, R.B. Indian Palaeography. Varanasi. 1965.
9. Wheeler, M. Archaeology from Earth. (Hindi) Prithvi se Puratattva.
10. Ghoshal, U.N. Studies in Indian History and Culture. Bombay. 1965.
11. Pargiter, F.E. Ancient Indian Historical Traditions. Delhi. 1972.
12. Pargiter, F.E. The Purana Text of the Dynasties of the Kali Age. Oxford. 1913.
13. Rapson, E.J. The Cambridge History of India. Vol. I Cambridge. 1922.
14. Winternitz, M. : History of Indian Literature. (Also in Hindi) Vols. I & II. Delhi. 1987.

DSE-2: History of India from earliest time to 1200 CE

Credit-4 (Theory)

Unit –I: Janapadas and Mahajanapadas

1. Political formations: monarchical and republican.
2. Rise of Magadha empire

Unit –II: Towards empire: Nandas and Mauryas

1. Alexander's invasion
2. Growth of Nandas and Mauryas
3. Polity; nature and extent of centralization; and foreign relations.
4. Kautilya's Arthashastra and Megasthenes' Indica

Unit-III: Post Mauryan Dynasties and Polity

1. Sungas and Kanvas: Indo-Greeks, Saka-Pahallava, Satavahanas and Western Kshatrapas.
2. The Kushanas: Political consolidation
3. Sangam age: chiefdoms.

Unit-IV: Guptas, Hunas and Vakatakas

1. Dynastic history of the Guptas; Huna invasion; Vakatakas and contemporary dynasties in the peninsular India.
2. Administrative organization: provincial and feudatory states.

Unit-V Vardhanas, Chalukya and Pallavas

1. Harsha-Polity and administration
2. Chalukyas and Pallavas: Extent of kingdoms and administration.

Unit- I: Early Medieval India

1. Early medieval Period, its historical significance.
2. Changing Pattern of society, Polity and Economy

Unit-II: Early Medieval historiography

1. Tradition of History writing
2. Role of royal courts

Unit-III: Sources of Pre-Medieval history

1. Literature : Sanskrit, Prakrit, Apbhransh and Hindi
2. Archaeological Evidences.

Unit IV: Dynastic India

1. North & Eastern India: Pratihar, Pala & Senas
2. Western & Central India: Chauhan, Parmar, Gahadwal & Chandelas.

Recommended Readings :

1. Chattopadhyaya, D.P., Indian Philosophy (New Delhi, Popular Publishing House, 1986).
2. Comprehensive History of India, Vols II (1957), III (Orient longman,1952), IV (Delhi, PPH, 1992).
3. Jha, D.N. and Shrimali K.M., Prachin Bharat Ka Itihas (Delhi, Hindi Directorate, 1990).
4. Kulke, H, and D. Rothermund, History of India (london, Routledge,1998).
5. Majumdar, R.C. et al., History and Culture of the Indian People, Vols II, III,IV (Mumbai, Bhartiya Vidya Bhavan Series, 1970, 1979, 1980).
6. Munshi, V.K.M. and R.R. Diwakar, Bharatiya Vidya Bhavan Series -Indian Inheritance, 3 vols (Bombay, Bhartiya Vidya Bhavan, 1965, 1970).
7. Nilkanta Sastri, K.A., A History of South India from pre-historic times to the fall of Vijaynagar (Chennai, OUP, 1983).
8. Sharma, R.S., Aspects of Political Ideas and Institutions in Ancient India (Delhi, Motilal Banarsidass, 1991) (Revised edition).
9. Sharma, R.S., Ancient Indian History.
10. Thapar, Romila, Early India(from origin to AD.1300)penguin Book-2002.
11. Raychaudhary, H.C., Political History of Ancient India, 1950.
12. Mookerjee, R.K., Ancient India, 1956.
13. Smith, V.A., Early History of India, 1924.
14. Puri, B.N. India as described by early greek writers,1939.
15. Chattopadyay Bhaskar, The Age of the Kushanas, a Numismatic Study,1967.
16. Chattopadyay Sudhakar, The Sakas in India,1955.
17. Narain,A.K. The Indo-Greeks,1957.
18. Mazumdar, R.C. The Vakataka-Gupta.
19. Gupta, P.L. Gupta Samrajya.
20. Upadhyay, Vasudev. Gupta Samrajya Ka Itihas.
21. Rai, U.N., Gupta Samrat aur Unka Kal.
22. Sharma, B.N. Harsha and his Times.
23. Majumdar, R.C. Ancient India.
24. Sen, S.N., Ancient Indian History and Civilization, willey Eastern limited, Delhi.
25. Mookerjee, R.K., The Gupta Empire, 1969.
26. Pannikar, K.M., Shri Harsha of Kannauj, 1922.
27. Tripathi, R.S., History of Kannauj, 1927.
28. Goyal, S.R., A History of Imperial Guptas, 1967.
29. Devahuti, D., Harsha, A political Study,1970.
30. Gopalan, R., History of Pallavas of Kanchi, 1928.
31. Venkataramanayya, N., The eastern Chalukyas of Vengi, 1950.
32. Chattopadhyaya, S. Early History of Northern India. Delhi. 1976.
33. Mukherjee, B.N. The Kushana Geneology, Calcutta. 1957.
34. Narain, A.K. From Alexander to Kanishka. Varanasi. 1967.
35. Pathak, V. Uttar Bharat Ka Rajnitik Itihas (Hindi). Lucknow. 1973.
36. Puri, B.N. India Under the Kushanas. Bombay. 1965.
37. Rapson, E.J. Cambridge History of India, Vol. I. Cambridge. 1922.
38. Sharma, R.S. Material Culture and Social Formations in Ancient India. Delhi, 1985.
39. Thapar, Romila, Early India(from origin to AD.1300)penguin Book-2002.
40. Bose, N.S., History of Chandelas
41. Gangully, D.C., History of Parmar Dynasty
42. Niyogi, Roma, History of Gahadwal Dynasty 1959
43. Pathak, Vishudhanand, Uttar Bharat Ka Rajnitik Itihas, (Hindi) 2006 (Ed)Luknow
44. Puri, B.N., Gurjar – Pratihara
45. Raichaudhury, H.C. Dynastic History of Northern India Vol. I & II
46. Tripathi, R.S., History of Kannauj
47. Vaidya, C.V., History of Medieval Hindu India 3 Vol. 1921-26- Pune
48. Winternitz, M, History of Indian Literature, Vol. I & II 1933, Culcatta

(Semester-II)

DSC-1 : Early Farming communities -Mesolithic and Neolithic Culture in India (Credit-5)

Unit-I: Early Holocene Hunting-Gathering Strategies:

1. Mesolithic stage: Climatic changes and technological adaptation: concepts and archaeological remains
2. Understanding and Identification of Microlithic tools typology and technology
3. Ecological zones and associated Mesolithic sites of India: Alluvial plain adaptation; Baghor; Chopani-Mando, Birbhanpur; Horse-shoe-lake sites; Sarai-nahar-rai; Mahdaha; Rock shelter sites; Langhnaj; Bagor; rock-shelter sites; Adamgarh, Bhimbetka; Lahariadih; Morhana-pahar.
4. Recent Evidence on Microlithic succession in Indian Subcontinent-Jwalapuram, Mehtakheri and Mahadebbera- Kana

Unit-II: Beginnings of food production: A world perspective

1. Interpretative models for the Origins of the food production economy.
2. Origin and expansion of Neolithism: Archaeological remains of Neolithic in West Asia and India.
3. Understanding and Identification of Neolithic tools.
4. Early farming communities of Central India: Neolithic remains of Belan Valley, Vindhyan foot-hills, and Ganga plains.
5. Neolithic remains of eastern India: Neolithic sites of Chhota Nagpur plateau; Orissa and Assam.
6. Pastoral communities of Deccan: Ash mound and village sites of Karnataka and Tamilnadu.

Recommended Readings:

1. Wendrof, Fred & Angela E. Close: *Advances in World archaeology*, 1983.
2. Clarke, Grahame: *World Prehistory*, 1977.
3. Bhattacharya, D.K.: *Emergence of Cultures in Europe*, Delhi, 1978.
4. Bhattacharya, D.K.: *Old Stone Age Tools*, Calcutta, 1979.
5. Bordes, F.: *The Old Stone Age*, London, 1968.
6. Clark, J.D.: *The Prehistory of Africa*, Cambridge History of Africa, Volume-I, London, 1970.
7. Gamble, C.: *Paleolithic Settlement of Europe*, Cambridge, 1986.
8. Jarrige, Catherine et.al [Ed.]: *Mehargarh, Field Reports 1974-1985 from Neolithic Times to the Indus civilization*. Karachi, Pakistan. 1995.
9. Jayaswal, V.: *"Stone Age Technologies in India": History of Technology in India*, Vol. I, New Delhi, 1997.
10. Zeumer, F.E. *Plastocene Period*.
11. Rendell D., & Hobin, *Pleistocene and Palaeolithic Investigations in Sohan Valley*, N. Pakistan.
12. Sharma, G.R. et.al: *From Hunting and Food Gathering to Domestication of Plants and Animals, Beginnings of Agriculture*, Allahabad, 1980.

13. Singh., Birendra Pratap: Early Farming Communities of the Kaimur (Excavations at Seminar 1986-87, 89-90), Jaipur, 2004.
14. Leakey, L.S.B.: Olduvia Gorge 1959-1961, Volumes I, Cambridge, 1965.
15. Leakey, M.D.: Olduvia Gorge: Excavations in Beds I & II. 1960–1963, Cambridge, 1971.

DSC-2: Copper and Bronze age in Indian Sub-Continent

Credit-5 (Theory)

Unit-I: Early Chalcolithic and Preharappan cultures

1. Early Chalcolithic Cultures of Afghanistan and Pakistan
2. Pre and Early Harappan Culture of Afghanistan, Pakistan and India

Unit-II: Indus–Saraswati Civilization

1. Its Origin, Extent, Chronology, main characteristics and Settlement system
2. Decline of Harappan Culture in Gujarat & Saurashtra

Unit-III: Late Survival of Bronze Age Culture

1. Late Harappan Culture in Punjab & Haryana
2. Chalcolithic village communities in Rajasthan and central India.
3. Chalcolithic Cultures of Maharashtra and eastern India

Unit –IV: Copper using communities of Gangetic Plain

1. Copper hoard and OCP Cultures and their co-relationship
2. Copper using Communities in Middle and Lower Ganga Plain, with special reference to Chirand, Senuar and Narhan
3. Growth of Urban settlements in Ganga valley.

Recommended Readings

1. Agrawal, D. P. & Chakrabarti, D. K. (eds.) Essays in Indian Protohistory. Delhi. 1979.
2. Agrawal, D. P. Archaeology of India. New Delhi, 1982.
3. Agrawal, D.P.& J.S. Kharakwal. Bronze Age and Iron Age in South Asia. New Delhi, 2003.
4. Allchin, B. & Allchin F. R.: The Rise of Civilization in India and Pakistan. London. 1982.
5. Allchin, F.R. The Archaeology of Early Historic South Asia : Emergence of City and States. Cambridge. 1995.
6. Also Relevant articles/communications in Puratattva, Man and Environment, Praghadhara, Ancient India and Indian Archaeology-A Review.
7. Asthana, Shashi, Pre-Harappan Cultures of India and the Borderlands, New Delhi, 1985.
8. Chakrabarty, D. K. The Early use of Iron in India, Oxford University Press. 1992.
9. Dhavalikar, M. K. , H. D. Sankalia and Z. D. Ansari, Excavations at Inamgaon, Pune. 1988.
10. Dhavalikar, M.K. Indian Proto-history. New Delhi. 1997.
11. Gaur, R. C. : (ed.) : Painted Grey Ware, Jaipur. 1994.
12. Gaur, R.C. Excavations at Atranjikhhera. Delhi. 1983.
13. Ghosh, A. (ed). An Encyclopedia of Indian Archaeology. Gaur, R. C. : (ed.) : Painted Grey Ware, Publication Scheme, Jaipur, 1994. Vols. I & 2. ICHR. New Delhi. 1989.
14. Ghosh, A. The City in Early Historical India. Shimla. 1973.
15. Jarrige, Catherine et.al [ed.]. Mehrgarh, Field Reports 1974-1985. From Neolithic Times to the Indus civilization. Karachi. 1995.
16. Lal, B. B. : Excavation at Shringverapura, 1977-86; Archaeological Survey of India. New Delhi. 1993.
17. Lal, B. B. and S. P. Gupta (eds.) : Frontiers of Indus Civilisation, New Delhi. 1984.
18. Lal, B.B. : The Earliest Civilization of South Asia. New Delhi, 1997.
19. Marshall, J. : Mohenjo-daro and the Indus Civilisation, Delhi-Varanasi. 1983.
20. Narain, A. K. et al. Excavations at Rajghat, B. H. U. , 1976 & 1977.
21. Possehl, Gregory (ed.) Ancient Cities of the Indus. Delhi. 1979.
22. Possehl, Gregory (ed.) Harappan Civilization. Delhi. 1982.
23. Rao, S. R. : Lothal: A Harappan Port Town-1955-62, A. S. I., New Delhi. 1985.
24. Sali, S. R.: Daimabad, 1976-79, A.S.I., New Delhi, 1986.

25. Sankalia, H.D., et.al. Chalcolithic Navdatoli, Pune, 1971.
26. Sharma, G.R. The Excavations at Kausamli (1949-50). Delhi. 1969.
27. Singh, B.P. Early Forming Communities of the Kaimur (Excavations at Senuwar 1986-87, 89-90). Jaipur. 2004.
28. Sinha, B.P. & S.R. Roy. Vaisali Excavations 1958-62. Patna 1969.
29. Sinha, K.K. Excavations at Sravasti 1959. Varanasi.

DSC-3 : Scientific and Analytical Archaeology

Credit- 5 (Theory-2 & Practical-3)

Unit-I: History of Science and its application in archaeology

1. Brief history of scientific Techniques. Development and application of Scientific Techniques in Archaeology.
2. Importance, relevance, utility and scope of analytical techniques in archaeological study.
3. Preservation and conservation of Archaeological artifacts and archaeological sites.

Unit-II: Scientific methods and instruments used in archaeological study

1. Dendrochronology
2. X-ray diffraction (XRD) and X-ray fluorescence (XRF)
3. Metallography, microscopy and Scanning electron microscopy
4. Radiocarbon dating and Thermo luminescence dating
5. Spectroscopy, mass spectroscopy (MS), Atomic absorption spectroscopy (AAS) and inductively couple plasma emission spectroscopy (ICPES).

UNIT-III: Analytical techniques

1. Phosphate and trace element analysis in archaeological soils and reconstruction of intensity of occupation in ancient settlements.
2. Estimation of isotopic ratios of carbon, nitrogen, oxygen and strontium in archaeological faunal remains to infer the palaeodiet, palaeoenvironment and residential mobility of ancient settlement.
3. Study of trace element analysis in archaeological faunal remains for reconstructing the palaeodiet and palaeo-environmental conditions of ancient settlement.

Recommended Readings:

1. Ingersoll, D., Yellen, J.E. and MacDonald, W.: Experimental archaeology, New York, 1977.
2. Binford, L. R. : An Archaeological Perspective. London. 1972.
3. Atkinson, R.J.C. Field Archaeology. London. 1952.
4. Brill, Robert H. (ed.) : Science and Archaeology. Cambridge, 1971.
5. Brothwell, D. R. & S. E. Higgs (eds.): Science in Archaeology, London, 1969.
6. Chang, K. C.: Settlement Archaeology, Palo Alto, Caligo, 1968.
7. Clark, D. L.: Models in Archaeology, London, 1972.
8. Clark, David : Analytical Archaeology, London, 1968.
9. Daniel, G. A.: Hundred Years of Archaeology, London. 1950.
10. Daniel, G.: The Origin and Growth of Archaeology, London 1967.
11. Piggott, S.: Approach to Archaeology, New York. 1965.
12. Sankalia, H. D.: New Archaeology Its Scope and application in India, Lucknow. 1977.
13. Srivastava, K. M.: New Era of Indian Archaeology, New Delhi, 1982.
14. Wheeler, M.: Archaeology from Earth,
15. Yellen, John: Archaeological Approaches to the present, New York, 1977.
16. Whitehead, A. N.: Science and the Modern world, New York, 1957.
17. Limbrey, Susa: Soil science and Archaeology, Academic Press, New York, 1975.
18. Smith, Keith A.: Soil Analysis Modern Instrumental techniques), new York, 1990.
19. Council on Soil Testing and Plant analysis, Georgia University, Athens, USA: Hand Book of Reference Methods fro soil Analysis, 1992.
20. Bag, A.K. (ed.) History of Technology in India, Vol. I. New Delhi. 1997.
21. Bose, D.M. et. al. Concise History of Science in India . INSA. New Delhi. 1971.

22. Forbes, R. J. Studies in Ancient Technology, Vol. I to IX. Leiden. 1976.
23. Hodges, H. Technology in the Ancient World . London. Pelican. 1970.
24. Jaggi, O. P. Dawn of Indian Technology. Delhi. 1969.
25. Sankalia, H. D. Some aspects of Prehistoric Technology in India. New Delhi. 1970.
26. Singer, C. et. al. A History of technology .Vol. I & II. (relevant chapters).
27. Singh, R.N. : Ancient Indian Glass. Delhi. 1989.

DSC-4: Computer Application in Archaeology

Credit-5 (Theory-2 & Practical-3)

Unit-I: Application of GIS, Remote Sensing in Archaeology

1. Principles of remote sensing in Archaeology and historical development in the Remote sensing technology.
2. Principle of GIS and application of GIS in Archaeology

Unit-II: Computers and Archaeology

1. Application and scope of computer in Archaeological study.

Unit-III: Development and Role of Computer-aided Techniques in Exploration

1. Techniques used in Archaeological exploration i.e. Total Station, GPS, Magnetometer and Electrical Resistivity techniques.

Unit-IV: Various types of computerized techniques used in the laboratory

1. Use of 3D Graphics in Archaeological studies, Laser Scanner and 3d recording of Archaeological artifacts and sculptures
2. Utility of Auto-CAD in Archaeological Pottery drawings
3. Resources of Archaeology on Internet and Google Earth
4. Development of software in archaeology

Recommended Readings:

- 1 Using Computers in Archaeology: Towards Virtual Pasts, Gary Lock.
- 2 Contemporary themes in archaeological computing, David Wheatley, Graeme Earl, Sarah Poppy, 2002.
- 3 Computer applications and quantitative methods in archaeology 1993, John Wilcock, Kris Lockyear, Alexandra Bayliss, 1995.
- 4 Oxbow Books (Oxbow Monograph 27), Oxford. English Heritage, 1992.
- 5 Managing the urban archaeological resource, London. Handy, C. 1985.
- 6 U.K. Chapter of Computer Applications and Quantitative Methods in, Caitlin E. Buck, 2000.
- 7 The reconstruction of archaeological landscapes through digital, Maurizio Forte, Patrick Ryan Williams – 2003.
- 8 Contemporary themes in archaeological computing, Archaeology Monograph no.3, Oxford, Oxbow.
- 9 On the Theory and Practice of Archaeological Computing, Oxford, Oxbow Books.
- 10 Digital archaeology: bridging method and theory.
- 11 Thomas Laurence Evans, Patrick T. Daly, 2006.
- 12 Computer archaeology .Gary Lock, John Wilcock, 1987.
- 13 Contemporary themes in Archaeological Computing, Oxbow Books, Oxford. Fisher, PF (1991).
- 14 Journal of field archaeology, Association for Field Archaeology, Boston, 2003
- 15 Archaeology and the information age: a global perspective - Paul Reilly, S. P. Q. Rahtz – 1992.
- 16 [Beyond the Map: Archaeology and Spatial Technologies](#), Lock, G. (ed), 2000.
- 17 [Geographic Information Analysis](#), O'Sullivan, D. and D.J. Unwin, 2003.

- 18 [GIS and Archaeological Site Location Modeling](#), Mehrer, M., 2005.
- 19 [Historical GIS: Technologies, Methodologies and Scholarship](#). Gregory, I. and P.S. Ell, 2007.
- 20 [Interpreting Space: GIS and Archaeology](#), Allen, K.M., et al. (eds.), 1990.
- 21 [Landscape Archaeology and GIS](#), Chapman, H., 2006.
- 22 [Practical Applications of GIS for Archaeologists: A Predictive Modeling Toolkit](#), Wescott, K.L. and R.J. Brandon (eds.), 2000.
- 23 [Spatial Technology and Archaeology](#), Wheatley, D. and M. Gillings. 2002.
- 24 Virtual Reality in Archaeology, 2000, Juan A. Barceló, Maurizio Forte and Donald H. Sanders Archeo Press, Oxford.
- 25 FORTE, M (ed), 1997 Virtual Archaeology: Great Discoveries Brought to Life Through Virtual Reality, Thames and Hudson, London.
- 26 REILLY, P., 1990, 'Towards a virtual archaeology.' *Computer Applications in Archaeology* 1990.
- 27 REILLY, P., 1992, 'Three-Dimensional modelling and primary archaeological data.' In *Archaeology and the Information Age*.
- 28 WOOLEY, B., 1992, *Virtual Worlds*. Oxford: Blackwell.

Discipline Specific Elective (Any 1 out of Minimum 2 electives)

DSE-1: Ancient Indian Art

Credit-4 (Theory)

Unit-I: Harppan Art: Stone, Terracotta and Metal Figurines.

Unit-II: Mauryan Art: Pillars and Capitals; Early Yaksha Figures.

Unit-III: Sunga and Satvahana Art: Bharhut, Sanchi and Amravati.

Unit-IV: Art of Kushana: Mathura and Gandhara School.

Unit-V: Art of Gupta Period.

Unit-VI: Paintings: 1. Ajanta 2. Bagh

Recommended Readings:

1. Agarwal, V. S.- Indian Art
2. --do-- - Studies in Indian Art
3. --do-- - Bhartiya, Kala (Hindi)
4. Bhattacharya, B. C. -Indian Images (Part 1)
5. Bachhofer, L. -Early Indian Sculpture
6. Ray, Niharranjan -Maurya and Post Mauryan Art
7. Coomaraswamy A. K.-Introduction to Indian Art
8. Coomaraswamy, A. K.-History of Indian and Indonesian Art
9. --do-- - Yakshas
10. Rowson, P. - Indian Art
11. Havell, E. B. - Hand book of Indian Art.
12. Saraswati, S. K. -A Survey of Indian Sculpture
13. Kramrisch, Stella -Indian Sculpture
14. Harle, J. C. - Gupta Sculpture
15. Swarup, S. - 5000 years of Art and Crafts in India and Pakistan
18. Chandra, Moti -Studies in Early Indian Paintings
19. Khandelvala, K. J. -The Development of Style in Indian Paintings.
20. Khandelvala, K. J. -Indian Sculptures and Paintings
21. Gairola, V. - Bhartiya Chitrakala
22. Sivaramamurti, C. -South Indian Paintings.
28. Sivaramamurti, C. Art of India.

32. Agarwal, V. S. -Gupta Art
33. Harle, J. C. - Art and Architecture of Indian Subcontinent
34. Mishra, R. N. - Bhartiya Murtikala
36. Yajdani, G. - Ajanta
37. Marshall, J. - The Buddhist Art of Gandhar.

DSE-2: Ancient Indian Religion

Credit-4 (Theory)

Unit-I: Vedic Religion

1. Pre Vedic & Early Vedic Religion.
2. Later Vedic Developments

Unit-II: Buddhism

1. Life and Teachings of Gautama Buddha and origins and development of Buddhism.
2. Buddhist Councils
3. Mahayana Buddhism: Evolution and composition of Mahayana; and Decline of Buddhism

Unit-III: Jainism

1. Life and teachings of Parsvanatha and Mahavira.
2. Jain Doctrines and Jain church after Mahavira

Unit -IV: Vaishnavism and Shaivism

1. Vaishnavism: Evolution of Vaisnava sects; their general history and characteristic doctrines; Bhagvat Geeta
2. Shaivism: Evolution of the cult of Siva and its characteristics.

Unit-V: Minor Religious Systems: Shaakta and Trantric

Recommended Reading:

1. Allchin, B. and Allchin, F.R., Rise of Civilization in India and Pakistan (Delhi, Select Book Service Syndicate, 1983).
2. ----- Origins of a Civilization (Delhi, Viking, 1997).
3. Basham, A.L, The Wonder That Was India. (Mumbai, Rupa, 1971).
5. Chakrabarti, D.K. India: An Archaeological History, Paleolithic Beginnings to Early Historical Foundation (Delhi, OUP, 1999). Now available in paperback.
6. Chattopadhyaya, D.P., Indian Philosophy (New Delhi, Popular Publishing House, 1986).
7. Comprehensive History of India, Vols II (1957), III (Orient longman,1952), IV (Delhi, PPH, 1992).
10. Hiriyan, M., Essentials of Indian Philosophy (Delhi, Motilal Banarsidass, 1995).
11. Jha, D.N. and Shrimali K.M., Prachin Bharat Ka Ithihas (Delhi, Hindi Directorate, 1990).
13. Kulke, H, and D. Rothermund, History of India (london, Routledge,1998).
14. Majumdar, R.C. et al., History and Culture of the Indian People, Vols 11, III, IV and V (Mumbai, Bhartiya Vidya Bhavan Series, 1970, 1979, 1980).
15. Munshi, V.K.M. and R.R. Diwakar, Bharatiya Vidya Bhavan Series -Indian Inheritance, 3 vols (Bombay, Bhartiya Vidya Bhavan, 1965, 1970).
16. Nilkanta Sastri, K.A., A History of South India from pre-historic times to the fall of Vijaynagar (Chennai, OUP, 1983).
20. Thapar, Romila, A History of India, Vol. 1 (Pelican, 1966, Penguin, Harmondsworth).
21. Pathak, V. S. Smarta Religious Tradition. Meerut. 1987.
22. Tripathi, G. C. Vedic Devmandal. (Hindi) Allahabad. 1992.
23. Zaehner, R.C. Hinduism. Oxford. 1962.
24. Thapar, Romila, Cultural Past, oxford press, 2005

(Semester-III)

DSC-1 : Iron Age in India

Credit-5 (Theory)

Unit-I:

1. Beginning of Iron Age in India and its role in second urbanization in India
2. Painted Grey ware (PGW) culture: Authorship, Extent, Chronology, Settlement and pattern.
3. Northern Black Polished ware Culture: Authorship, Extent, Chronology and Settlement Pattern.

Unit-II: Painted Grey Ware and Northern Black Polished Ware with special reference to Ganga valley and Uttarakhand

Unit-III: Megalithic Cultures

1. Megalithic Cultures of Vidharva region & Kashmir Valley
2. Megalithic Cultures of South India
3. Megalithic cave burial Culture of Nepal, Tibet and adjoining region.

Recommended Reading:

1. Agrawal, D.P & J.S. Kharkwal, Bronze Age and Iron Age In South Asia, N. Delhi, 2003.
2. Banarji, N.R, Iron Age in India.
3. Lal, B.B, The Earliest Civilization of South Asia, 1997.
4. Allchin, F.R, Archaeology of Early Historic South Asia Emergence of City and States.
5. Sinha, K.K. Excavation at Sravasti, 1959 Varansi
6. Tripathi, Vibha, Painted Grey Ware- An Iron age culture of North India, 1976 Delhi.
7. Wheeler, REM, Bhrahmagiri & Chandravally, 1947, Also relevant articles /communications in Man & Environment , Puratattva, Pragdhara, Indian Archaeology : A Review and Ancient India.

DSC-2: Bio-Archaeology

Credit-5 (Theory-2 & Practical -3)

Unit-I: Concept and Scope of Bioarchaeology

1. Meaning and scope of Bioarchaeology, methods of Collection of Faunal and Floral remains from archaeological sites.
2. Processing and methods for morphological analysis of faunal and floral remains.
3. Study of plant and animal fossils from archaeological sites of India and their relationship with past occupation.

Unit-II: Archaeozoology

1. Definition and application of Archaeozoology in reconstructing the history of past occupation.
2. Study of Faunal and Human Remains and their Significance in Archaeological Context.
3. Case Study of Faunal Analysis in Some of the Important Archaeological Sites of India

Unit-III: Palaeobotany

1. Definition and application of Floral Remains in reconstructing the history of past occupation.
2. Study of Floral Remains, Micro-Organisms, Ferns & Mosses, Pollen Grains, Wood Remains and their Significance in Archaeological Context.
3. Case Study of Floral Analysis in Some of the Important Archaeological Sites of India

Recommended Readings

1. Angela Von den Driesch: A Guide to the Measurement of animal bones from archaeological Sites, Peabody Museum Bulletin No.1, 1976.
2. Angela Von den Driesch: Approaches to the faunal analysis in the Middle East, Peabody Museum Bulletin No.2, 1978.
3. Krechmer, N. and Robertson, W.V.B.: Human Evolution, Readings from Scientific America, San Francisco, 1978.
4. Price, T.D.: The Prehistoric human Bone, Cambridge University Press, New York, 1989.
5. Studies in Indian Archaeology and Palaeontology, Dharwad, India, 1990.
6. Binford, L. R.: An Archaeological Perspective. London. 1972.
7. Brill, Robert H. (Eds.): Science and Archaeology. Cambridge 1971.
8. Brothwell, D. R. & S. E. Higgs (Eds.). Science in Archaeology. London. 1969.
9. Kennedy, K.A.R. Lukacs, J.R. and Misra, V.N.: The Biological anthropology of Human Skeletal remains from Bhimbetka, Central India, ISPQS, Monograph series-2, 2002.
10. Corwall, I.W.: Bones for the archaeologist, London, 1994.
11. Binford, L.R.: Bones: ancient Men and Modern myths (Studies in archaeology), Academic Press, New York, 1981.
12. Kurten, B.: Pleistocene Mammals of Europe, Chicago, Aldine, 1968.
13. Kurten, B.: The Cave Bear story: Life and death of a Vanished Animal, New York, 1976.
14. Schiffer, M.B. Behavioural Archaeology, Academic Press, New York, 1976.
15. Price, T.D.: The Prehistoric human Bone, Cambridge University Press, New York, 1989.
16. Alur, K.R.: Studies in Indian Archaeology and Palaeontology, Dharwad, India, 1990.
17. Relevant Articles from Journal of archaeological science, Archaeometry, Man and Environment and American Anthropology

DSC-3 : Ancient Indian Architecture

Credit-5 (Theory)

Unit-I: Stupa Architecture

1. Origin and Development of stupa architecture: Bharhut, Sanchi and Amravati

Unit-II: Rock-Cut Architecture

1. Origin and Development of Rock cut architecture.
2. Chaityas and Viharas with special reference to Bhaja, Karle and Ajanta.

Unit-III: Temple Architecture

1. Evolution of the Temples
2. Gupta Temples: Dasavata Temple, Deogarh and Bhitargaon Temple
3. Orissan Temples
4. Central Indian Style: Khajuraho
5. Pallava Architecture: Rock-Cut and Structural Temples
6. Chola Temples and Temples of Uttarakhand

Recommended Readings

1. Brown, Percy- Indian Architecture (Buddhist and Hindu Period)
2. Ferguson, J.-History of Indian and Eastern Architecture, (2 Vols)
3. Kramrisch, Stella -The Hindu Temple
4. Chandra, Pramod -Studies in Indian Temples
5. Sundaram, K.-Monumental Art and Architecture of India
6. Krishna, Deva-Temple of North India
7. Srinivas, K. R.- Temple of South India
8. Saundarajan K. V. -Indian Temple Styles
9. Jauhari, M.-South India and its Architecture
10. Shukla, L. K.-Study of Hindu Art & Architecture
11. Mitra, Debla-Buddhist Monuments
12. Rowland, B.-The Art and Architecture of India
13. Bajpai, K. D.-Bhartiya Vastu-Kala Ka Itihas
14. Agarwal, P. K.-Gupta Temple Architecture
15. Gupta, R. S.-The Art and Architecture of Aihole.
16. Ganguly, O. C.- Indian Architecture
17. Nautiyal, K. P.- The Archaeology of Kumaon
18. Gupta, S. P.-The Roots of Indian Art.
19. Deva, Krishna- Khajuraho
20. Longhurst-Pallava Architecture
21. Khanduri, B. M. - Archaeology of Alaknanda Valley
22. Dahejia-Early Buddhist Rock Temples
23. Meister, Michael-Encyclopedia of Temple Architecture
24. Barret, D.-Guide to the Karle Caves
25. Cunningham, A.- Stupa of Bharhut
26. Chandra, P.- Guide to the Elephanta Caves
27. Fergusson, J. & - Cave Temples of India
28. Misra, R. N.-Bharhut
29. Mitra, Debla-Ajanta
30. --do-- - Bhuvaneswar
31. Mitra Debla-Konark
32. --do-- - Sanchi
33. Sarkar, H.-Studies in Early Buddhist Architecture
34. --do-- - Amravati
35. Sivaramamurti, C.-Mahabalipuram
36. Gupta, R. S.-Ajanta, Ellora and Aurangabad Cave
37. Ghosh, A.-Jaina Art and Architecture (3 Vols.)
38. Kail, O. C.-Buddhist Cave Temples of India
39. Srinivasan, K. P.-Cave temples of the Pallavas

DSC-4: Archaeological exploration and excavation: Credits-5 (Theory-2 & Practical-3)

(At least 3 weeks of participation in exploration and excavation)

Discipline Specific Elective (Any 1 out of Minimum 2 electives)

Credit-4 (Theory)

DSE-1: Indian Coinage -1

Unit-I: Introduction

1. Antiquity of coinage in India: Origin and evolution, literary evidence, archaeological and epigraphical evidences
2. Techniques and methods of manufacturing of Indian coins

Unit-II: Early Indian Coins

1. Punch marked coins
2. Cast coins

Unit – III: Local and Tribal Coins

1. Local Coins – Taxila, Kaushambi
2. Tribal Coins – Yaudheyas, Kunindas, Audumbaras, Arjunayanas

Recommended Reading

1. "A Comparative Study of the Patraha (Purnea) Hoard of Silver Punch-marked Coins". JNSI - IV.
2. "Punch-marked Coins from Taxila". MASI. 59.
3. A.M. Shastri; Catalogue of the coins of the Maghas.
4. Allan, J. Catalogue of the Indian Coins in the British Museum. London. 1936.
5. Altekar, A. S. "Origin and Early History of Coinage in Ancient India" JNSI, XV. pp. 1-26.
6. Bela Lahiri, Indigenous States of Northern India.
7. Bhandarkar, D. R. Carmichael Lectures on Ancient Indian Numismatics. Calcutta. 1921.
8. Bhattacharya, P. N. "A Hoard of Silver Punch-marked coins from Purnea". MASI-62. Delhi. 1940.
9. Chakraborty, S. K. A Study of Ancient Indian Numismatics. Calcutta. 1973.
10. Cunningham, A. Coins of Ancient India. Varanasi. 1974.
11. Dasgupta, K. K. A Tribal History of Ancient India, A Numismatic Approach. Calcutta. 1974.
12. Goel, S.R. Ancient Indian Coinage.
13. Gupta, P. L. and Hardaker, T.R. Ancient Indian Silver Punch-marked Coins of the Magadh – Maurya Karshapana Series. Nasik. 1985.
14. Gupta, P. L. The Amaravati Hoard of Silver Punch-marked coins. Hyderabad. 1963.
15. Gupta, P.L. Coins – The Source of Indian History. Delhi. 1969.
16. Gupta, P.L. Pracheena Bharteeya Mudrayen. Varanasi.
17. Kosambi, D. D. Indian Numismatics, Delhi. Orient Longman. 1981.
18. Narain A. K. & Gopal, L. (eds.) Seminar papers on the Chronology of Punch-marked Coins. Varanasi. 1966.
19. Narain, A. K. Seminar Papers on the Local Coins of Northern India, Varanasi. 1968.
20. Prasad, D. "Classification and Significance of the symbols on the silver Punch-marked coins of Ancient India". JNSI. XIV and XLVII.
21. Shastri, A.M. The Catalogue of Coins of Nagas.
22. Singh, J. P. and N. Ahmad. Seminar Papers on the Tribal Coins of Ancient India. Varanasi. 1977.
23. Trivedi, H.V., Catalogue of the Coins of the Naga Kings of Padmavati.
24. Walsh, E. H. C. "Punch-marked Silver Coins, Their Standard of Weight. Age and Minting". JRAS, 1937.
25. Walsh, E. H. C. "Paila Hoard of Punch-marked coins". JNSI - II.

DSE-2: Historical Geography of Ancient India

(Credits- 4)

- Unit-I:** 1. The Country, its mountains and rivers
1. Janapadas, peoples, land and sea-routes.

Unit-II: Literary Geographical data

1. Mahabharata, Ramayana and Panini's Ashtadhyayi
2. The Mahabhashya, Pali literature, Jain Agama literature, Arthashastra and the Puranic Bhuvanakosha.

Unit-III: Historical Geography of Uttarakhand Himalaya

1. Ancient and medieval sources of geography of Uttarakhand Himalaya.

Recommended Reading:

1. Cunningham: Geography of Ancient India.
2. Sircar, D.C.: Studies in Ancient and Medieval Geography of India.
3. Motichandra: Geographical and Economic Data in the Upayana Parva.
4. Pargiter, F.F : Geography of Rama's Exile.
5. Agrawala, V.S.: Geographical data in the Ashtadhyayi, (Chapter from India as Known to Panini.).
6. Vidyalkara, J.C. : Bharat Bhumi aur uske Nivasi.
7. Law, B.C.: Historical Geography of Ancient India.
8. Law, B.C.: Some Kashatriya Tribes of Ancient India.
9. Law B.C.: Ancient Mid-Indian Kshatriya Tribes.
10. Jain, J.C.: India as described in the Early Jain Canonical Literature (Geographical chapters

(Semester-IV)

DSC-1: Indian Iconography

Credit-5 (Theory)

Unit-I: Sources of iconographic studies and antiquity of image worship

Unit-II: Form of Vishnu Image – Incarnatory forms, Vaikunthchatumurti, Anantashayai

Unit-III: Siva-An iconic form and mukhlinga, Anugraha murti (Ravananugraha, Arjunanugraha, Chandeshnugraha), Saumyamurti (Uma-Maheshwar, Kalyansundar), Samharmurti (Tripurantaka, Yamantaka, Kamantak, Andhakari), Natraj

Unit-IV: Surya images and Navagrahas, Shakti (matrikas, Mahismardini), Brahma, Ganesh, Kartikeya. Syncretic images- Harihara and Ardhnarishwara

Unit-V: Origin of Buddhas Image – Buddhas and Bodhisattvas (Manjushri, Avlokiteshwar)

Unit-VI: Evolution and features of Tirthankara images (Rishabhath, Parshwanath and Mahavir)

Suggested Readings:

1. Avasthi, R.-Khajuraho Ki Dev Pratimayen
2. Joshi, N. P.-Kushan Kalin Vishnu Pratimayen
3. Banerjee, J. N.-The Development of Hindu Iconography
4. Rao, T. A. G.-Elements of Hindu Iconography (2 Vols.).
5. Gupta, R. S.-Indian Iconography
6. Bhattacharya, B. C.-Indian Buddhist Iconography
7. Bhattacharya, B. C.-Jain Iconography
8. Sivaramamurti, C. -Art of India.
9. --do-- -"Geographical and Chronological Factors in Indian Iconography", Ancient India No. 6 pp.21-63.
10. Mishra, J.-Bhartiya Pratima Vidya (Hindi)
11. Mishra, Indumati-Pratima Vigyan (Hindi)
12. Singh, S. B.-Brahmanical Icons of Northern India
13. Rao, Ramchandra, S.K. Encyclopedia of Indian Iconography ; Hindu, Buddhist and Jain (3vols).
14. Stulley, Margret the illustrated dictionary of Hindu iconography,
15. Bhattacharya, A.K. Indian and East Asian Art and Iconography
16. Sthapati, V, Sampati Indian Sculpture and Iconography: Forms and measurements

DSC-2: Palaeography and Epigraphy of India

Credit-5 (Theory)

Unit-I: Antiquity of writing in India

1. Value of inscriptions for historical reconstruction.
2. Origin of antiquity and art of writing in India.
3. Writing materials.

Unit-II: Origin and development of Script: 1. Brahmi 2. Kharosthi

Unit-III: Indian Eras: Vikram, Saka and Gupta Era

Unit-IV: Antiquity of Writing in India

1. Rock Edict XIII of Ashoka
2. Pillar Edict VII of Ashoka
3. Sarnath minor Pillar Edict of Ashoka
4. Rummandei Pillar inscription of Ashoka
5. Second Rock Edict of Ashoka
6. Basenagar Garuda pillar Inscription of Heliodorus
7. Hathigumpha Inscription of Kanishka-I
8. Nanaghat Inscription of Queen Naganika
9. Junagarh Rock inscription of Rudradaman
10. Allahabad Pillar Inscription of Samudragupta
11. Mathura Pillar Inscription of Chandragupta-II
12. Mehrauli iron pillar Inscription of Chandra
13. Mandsaur iron pillar Inscription Yashodharman Vishnuvardhan
14. Banskhera copper plate Inscription of Harsha
15. Pandukeshwar copper plates of Lalitsurdeva.

Recommended Reading:

1. C.J. Brown, Coins of India, 1973, Indological Book House, Delhi
2. D.C. Sircar, Indian Epigraphy, 1984, Motilal Banarasida, Delhi
3. Rajbali Pandey, Indian Palaeography, 1984, Motilal Banarasidas, Delhi
4. K.V. Ramesh Indian Epigraphy, Vol-1 and 2, 1984, Sandeep Prakashan, Delhi.
5. D.C. Sircar, Selected Inscriptions, Vol.1, 1942, University of Calcutta
6. R.K. Mookerji Ashokan Inscriptions, 1959, Calcutta Progressive Publishers. Calcutta.
7. F. Hultzsch Corpus Incriptionsum Indicarum, Vol. I, 1969.
8. J. Fleet Corpus Inscriptionum Indicarum, Vol. III, 1971.
9. V.V. Mirashi Corpus Incriptionsum Indicarum, Vol. IV, 1955.
10. D.C. Sircar Studies in Indian Coins, 1968, Motilal Banarasidas Delhi.
11. A. Cunningham Inscriptions of Ashoka, 1961, Indological Book House, Delhi.
12. J. Allen Catalogue of the Coins of Ancient India, Munshiram Manoharlal, Delhi.
13. G.H. Oza Bharatiya Prachina Lipimala (Hindi) 1959, Munshiram Manoharlal, Delhi.

DSC-3: Ethnoarchaeology

Credit-5 (Theory)

Unit-I: Nature and interrelationship of archaeological and ethnographic records

1. Role of analogy, definition, scope and methods of ethno archaeology.
2. Review of the history of ethno archaeological research in India and abroad

Unit-II: Ethno archaeology of the South Indian Neolithic culture

1. Present-day shifting cultivation practices and their relevance to the study of Mesolithic, Neolithic and Chalcolithic cultures of India
2. Relevance of ethno archaeological research for reconstructing the life ways of the early agro-pastoral chalcolithic communities of Central and Western India

Unit-III: Ethno archaeology of technology

1. Ethno archaeological Study of Bead manufacturer of Khambhat, India
2. Ethno archaeological View of Indian Terracotta
3. Ethno archaeology of Iron and Copper technology of Uttarakhand Himalaya.

Unit-IV: Living tradition of Uttarakhand tribes

1. Agricultural Practices and Khark-Chhans tradition
2. Fishing-hunting tradition and Medicinal practices
3. Ceramic practices and Pastoralism

Recommended Readings:

1. Charlton, T, H., 1981: Archaeology, Ethnohistory, and Ethnology: Interpretive Interfaces, in *Advances in Archaeological Methods and Theory*, vol. 4 (ed.) M. B. Schiffer, pp. 129-159. Academic Press.
2. Gould, R., (ed.) 1978: *Exploration in Ethnoarchaeology*. Introduction and pp. 241-293 Albuquerque: University of New Mexico.
3. Allchin, B. 1994: South Asia's Living Past, in *Living Tradition: Studies in Ethnoarchaeology of South Asia*, pp. 1-11. Oxford and IHB, New Delhi
4. Kramer, C., 1982: *Village Ethnoarchaeology: Rural Iran in Archaeological Perspective*. Introduction, pp. 1-5. Academic Press: New York.
5. Coles, J., 1979: *Experimental Archaeology, Introduction*, pp. 1-48. Academic Press: New York.
6. Helms, M. W., 1993: *Craft and the Kingly Idea: Art, Trade and Power*. Chaps. 1-5. University of Texas Press, Austin.
7. Costin, L. C., 1991: Craft Specialization: Issues in Defining, Documenting, and Explaining the Organization of Production, in *Advances in Archaeological Methods and Theory* Vol. 3 (ed.) M. B. Schiffer, pp. 1-56. University of Arizona Press: Tucson.
8. Kenoyer, J. M., M. Vidale and K. K. Bhan 1991: Contemporary Stone Bead making in Khambhat India: patterns of craft specialization and organization of production as reflected in archaeological record. *World Archaeology* 23(1): 44-63.
9. Kenoyer, J. M. M. Vidale and K. K. Bhan 1994: Carnelian Bead Production in Khambhat India: An Ethnoarchaeological Study, in *Living Tradition: Studies in Ethnoarchaeology of South Asia*, (ed.) B. Allchin, pp. 281-306. Oxford and IBH, New Delhi.
10. Hodges H., 1971: *Artifacts*. Chapter Sixteen, pp. 175-187. Academic Press: John Baker.
11. Hodges. H., 1971: *Artifacts*. Chapters seven and seventeen pp. 98-111 and 188-193 Academic Press. John Baker.
12. Inizan M. -L. H. Roche and J, Tixier 1992: *Technology of Knapped Stone*. Meudon: CREP.

13. Kenoyer, J. M and M. Vidale 1993: A New Look at Stone Drills of the Indus Valley Tradition, in *Material and Issues in Art and Archaeology III* (eds. P. Vandiver, J. R. Druzick, G. S. Wheeler and I Freestone) pp. 495-518. Pittsburgh: Material Research Society.
14. Kenoyer, J. M., M. Vidale and K. K. Bhan 1991: Contemporary Stone Bead making in Khambhat India: patterns of craft specialization and organization of production as reflected in archaeological record. *World Archaeology* 23(1): 44-63.
15. Kenoyer, J. M. M. Vidale and K. K. Bhan 1994: Carnelian Bead Production in Khambhat India: An Ethnoarchaeological Study, in *Living Tradition: Studies in Ethnoarchaeology of South Asia*, (ed.) B. Allchin, pp. 281-306. Oxford and IBH, New Delhi.
16. Purdy, Barbara 1979: Pyrotechnology: Prehistoric application to Chert Material and in North America, in *Early Pyrotechnology: The Evolution of the first fire-using technologies* (ed.) T. A. Wertime and S. F. Wertime, pp. 31-44. Washington D.C.: Smithsonian.
17. Harrison. H. S., 1954: Fire – Making, Fuel and Lighting, in *History of Technology*. (eds.) Charles J. Singer, E. J. Holmyard and A. R. Hall 1(215 - 237). Oxford: Clarendon Press. Detail account of fire in ancient times.
18. Hodges. H., 1971: *Artifacts*. Chapters one and eighteen. pp. 19-41 and 194-202 Academic Press. John Baker.
19. Shepard, A. D., 1956: *Ceramic for Archeologist*, Washington. This is good book on pottery technology written especially for archaeologists.
20. Kingery W. D., H. K. Bowen and D. R. Uhlmann 1976: Grain Growth, Sintering and Vitrification in *Introduction to Ceramics*, pp. 488-511. A Wiley-Interscience Publication.
21. Rice, Prudence M. 1984: The Archaeology Study of Specialized Pottery Production: Some aspects of Methods and Theory, in *Pots and Potters* (ed.) P. Rice Monograph XXIV, PP. 45-54. Los Angeles: Institute of Archaeology, U.C.L.A.
22. Krishnan, K., and K. T. M. Hegde 1987: Chemical and Petrographic Studies in Pottery of Harappan Culture in Gujarat. *Journal of M. S. University of Baroda (Humanities)* 35-36, 1 (1986-87) 27-56.
23. Krishnan, K 1992: An Analysis of Decorative Pigments on Harappan Pottery of Gujarat, in *South Asian Archaeology*. 8: 125 - 312.
24. Krishnan, K. 1997: Scientific Analysis of Pottery and their Culture Implications, in *Ancient Ceramics: Historical and Scientific Approaches*. (eds.) P. C. Pant and Vidula Jayaswal, pp. 177-196. Discusses methods used in ceramic studies and summarizes studies carried out in India.
25. Hegde, K. T. M. 1975: Analysis of Ancient Deluxe Wares, in *Archaeophysiko*, 10 (141-55). Bonn. This Paper discusses the manufacture of PGW and NBPW
26. Rice, M. P., 1989: Pottery Analysis: A Source Book. Part 3 (Pottery Manufacture and use, pp. 113-166); (Special Topics in Archaeology, Ethnoarchaeology, and Ethnographic Pottery Study, pp. 274-306). University of Chicago Press, Chicago.
27. Hodges. H., 1971: *Artifacts*. Chapters two, three and eighteen. pp. 202 - 204 Academic Press. John Baker.
28. M. Halim and M. Vidale 1983: Kilns, Bangles and Coated vessels: Ceramic Production in closed Containers at Mohenjodaro, in *Interim Reports* (eds.) M. Jansen and G. Urban, Vol. 2 pp. 63-97. Aachen: IsMEO/ RWTH.
29. Vidale, M., 1987: More Information on a Protohistoric Ceramic Puzzle, in *Interim Report*. (ed.s) M. Jansen and G. Urban, vol. 2, pp. 105-111. Aachen: IsMEO/RWTH.
30. Bhan K. K., M. Vidale and J. M. Kenoyer 1994: Harappan Technology: Theoretical and Methodological Issues, in *Man and Environment XIX* (1-2): 141-157.
31. Mehta Nikita 1997 Preliminary Ethnoarchaeological Studies of Traditional Copper \ Brass Casting in Western India. *M. A. Dissertation* submitted to Department of Archaeology, M. S. University, Baroda. Pp. 79 – 81. (Crucible and Mould making).

32. Kenoyer, J. M., 1994: Faience from the Indus Valley Civilization, *Ornament* 17(1-2): 39-54.
33. Hodges. H., 1971: *Artifacts*. Chapters four, five, six and nineteen Academic Press. John Baker.
34. Hegde, K. T. M., 1991: *An Introduction to Ancient Indian Metallurgy*. Geological Survey of India: Bangalore Mehta Nikita 1997 Preliminary Ethnoarchaeological Studies of Traditional Copper \ Brass Casting in Western India. *M. A. Dissertation* submitted to Department of Archaeology, M. S. University, Baroda.

DSC-4: Dissertation and Viva-Voce

Credits-5

Discipline Specific Elective (Any 1 out of Minimum 2 electives)

Credit-4 (Theory)

DSE-1: Indian coinage -2

Unit – I: Coinage of Foreign Rulers; Greek, Bactrian-Greek and Indo-Greek Coins

Unit – II: Kushana coins

Unit – III: Early coins of South and Western India: Satvahanas and western Kshatrappas

Unit – IV: Gupta Coins; Chandragupta I, Samudragupta, Ramgupta, Chandragupta II, Kumargupta I, Skandagupta

Unit-V: Coins of Central India

- | | |
|------------------------------------|-------------------------------------|
| 1. Coins of Kalachuries of Tripuri | 2. Coins of Kalachuries of Ratanpur |
| 1. Coins of Chandellas | 4. Coins of Gahadavals |
| 5. Coins of Chalukyas | 6. Coins of Paramaras. |

Recommended Readings:

1. Boppearachchi, O. Indo-Greek, Indo-Scythian and Indo-Parthian Coins in the Smithsonian Institution, Delhi.
2. Dani, A. H. Bactrians and Indo Greeks- A Romantic Story from their coins. Lahore.
3. Elliot, Coins of Southern India.
4. Gupta, P. L. The Roman Coins from Andhra Pradesh Govt. Museum. Hyderabad. 1965.
5. Gupta, P.L. Bharat Ke Purva Kalik Sikke, Varanasi, 1996.
6. IMC, I, Smith
7. Kosambi, D. D. Indian Numismatics, Delhi. Orient Longman. 1981.
8. Lahiri, A. N. Indo-Greek Coins (Section on Metrology only). Calcutta. 1995
9. Lahiri, A. N. The Corpus of Indo-Greek Coins. Calcutta. 1956.
10. Narain, A. K. Greek-Bharteeya athava yavana. Varanasi. 1996.
11. Narain, A. K. Indo-Greeks. Oxford. 1957.
12. PMC, Whitehead
13. Rapson, E. J. A Catalogue of The Indian Coins in The British Museum - Coins of the Andhra Western Kshatrapas Dynasty. London 1968.
14. Sharma, I. K. Coinage of the Satavahana Empire. Delhi. 1980.
15. Shastri, A. M. (ed.) Coinage of the Satavahanas and coins from Excavation, Nagpur. 1972.
16. 1. A. Cunningham, Coins of Medieval India
17. 4. Burn, R. : Some coins of the Maukharis and of the Thanavar line, JRAS, 1906.
18. 5. D.J. Paruck, Sassanian Coins.
19. 6. Devahuti, D. : The Coins of Harsha Siladitya, A Reappraisal, JNSI, XXVI.

20. 7. Gopal, L. : Weight standards of the coins of Early Medieval India, JNSI., XXV, II, pp. 145-53.
21. 8. Gopal, L. Early Medieval Coin Types of North India.
22. 9. J.P. Singh, Monetary Development in Early Assam, 1989.
23. 10. John Deyell, Living without silver
24. 11. N.G. Rhodes & S.K. Bose, The Coinage of Assam, Vol. I, Calcutta, 2003.
25. 12. Roy, P.C. The Coinage of Northern India.
26. 13. Singh O.N. : Gupta kalin Uttar Bhartiya Mudrayane. Varanasi. 1977.
27. 14. Smith, IMC T. Desikachari, Thakur, U. : The Huna Coinage, JNSI, XXIX, Part I
A.Vidya Prakash

DSE-2: World Prehistory:

(Credits -4)

Unit-I: Lower Palaeolithic Cultures in Africa, Europe and South East Asia.

Unit-II: The Middle and Upper Palaeolithic cultures of Europe; development of Post Acheulian Culture, Stratigraphy and chronology

Unit-III: Mesolithic culture of Europe and Africa.

Unit-IV: Development of Neolithic culture and the beginning of domestication of plants and animals: a global perspective.

Recommended Readings:

1. Bordes, Francois 1968. *The Old Stone Age*.
2. Braidwood. R. J. (ed) 1968. *Courses towards Urban Life*
3. Butzer, K. W and G.L. Isaac 1975. *After the Australopithecene*, The Hague
4. Clark, J. G. D 1977. *World Prehistory in: New Perspective*, Cambridge
5. Clark, J. G. D 1935. *The Mesolithic Settlement of Northern Europe*, Cambridge
6. Daniel, G. J. *Hundred years of Archaeology*
7. Isaac, G. L 1971. The Diet of Early Man. *World Archaeology* 2:278 -229
8. Klein, R. G 1999. *The Human Career, Human Biological and Cultural Origins*, The University of Chicago press Chicago.
9. Lee, R. B. and DeVore, I (Ed) 1968 : *Man the Hunter* Chicago: Aldine.
10. Leori-Gourhan, A. 1982. *The Dawn Of European Art: An Introduction to Palaeolithic Cave Painting*, Cambridge , Cambridge University Press.
11. Paddayya, K. 1990. *New Archaeology and Aftermath*. Ravish publishers, Pune
12. Paddayya, K. 1994. C. J. Thomsen and the Three Age System, *Man and Environment* XVIII (2): 129-140.
13. Petrecia Philip. *Prehistoric Europ*.
14. Philipson , D.W. 1988. *African Archaeology* Cambridge University Press, Cambridge.
15. Prucel, R. W. 1991. Processual and Post-Processual Archaeologies Multiple Ways of Knowing the Past CAI, Southern Illinois University at Carbondale, Occasional Paper No.10
16. Roe, Derek The Palaeolithic. In Peter Hammond (Ed.) *Physical Anthropology and Archaeology*.
17. Trigger, B.G 1989. *History of Archaeological Thought*.
18. Wenke, R. J 1987. *terns in Prehistor*.
19. West,F.H. (Ed.) 1996 *American Beginnings: The Prehistory and Palaeo-ecology o*