

UNIVERSITY OF MUMBAI



Revised Syllabus

Sem. V & Sem. VI

Program: B.A.

Course: Ancient India Culture

(As per Credit Based Semester and Grading System

with effect from the academic year 2013–2014)

To make student aware with the Ethno-archaeology.

To make student aware of the importance of tribal studies

To make students aware with the Sociological Ethnographic and Anthropologically methods of study.

PAPER IV (SEM V)ETHNOARCHAEOLOGY(PART I)

- 1) Archaeology-Anthropology-Ethnology: How did their synthesis result in the creation of Ethno- archaeology, Definition, Scope and Methodology in Ethno- archaeology.
- 2) Brief review of the history and development (Historiography) ofEthno- archaeology.
- 3) Caste, Class and Tribe: The Tribal and non-tribal origin and evolution of the castesystem in India with reference to Archaeology.
- 4) Important theoretical models and their application in Ethno- archaeology, e.g.Adaptability of the forager/collector models to Palaeolithic and Mesolithic societies andtheir help in the reconstruction of past material culture; e.g., Settlement pattern,technology, ceramics, food processing, etc.

PAPER IV (SEM VI)ETHNOARCHAEOLOGY(PART II)

- 1) Ethnoarchaeological studies of important living hunter-gatherer societies of India (e.g. Katkaris, Andaman Islanders, Van Vaghri): With special reference to thereconstruction of Prehistoric life.
- 2)Ethnoarchaeological studies of living nomadic and sedentary (tribal) pastoral societies of India (e.g. Dhangars, Warlis) and present day shifting cultivation practices(e.g. Jhoom) with special reference to the reconstruction of Neolithic, Chalcolithic andEarly Iron Age nomadic agro-pastoralism.Living Megalithic traditions in NE India
- 3) Relevance of Ethnoarchaeological research for reconstructing the life of earlypastoral Chalcolithic communities of Central and Western India (e.g. MahadeoKolis,Bhils): Merits and Demerits.
- 4) Ethnoarchaeological sub-disciplines: Bio-anthropology, Ethnobotany (food andmedicine) and Ethnozoology

Recommended Readings

Ajay Pratap. 2000. *The Hoe and the Axe: Ethnohistory of Shifting Cultivation in Eastern India*. New Delhi: Oxford University Press.

Allchin, B. (ed.) 1994. *Living Traditions: South Asian Ethnoarchaeology*. New Delhi: Oxford & IBH Publishing Co. Pvt. Ltd.

Axel Steensberg. 1980. *New Guinea Gardens: Study of Husbandry with Parellel in Prehistoric Europe*, Cambridge University Press, Cambridge.

Axel Steensberg. 1986. *Man the Manipulator. An Ethnoarchaeological Basis for Reconstructing the Past*, National Museum, Copenhagen.

- Axel Steensberg. 1993. *Fire Clearance Husbandry: Traditional Techniques Throughout the World*, Poul Kristensen, Hernig.
- Barkataki, S. 1969. *Tribes of Assam*. New Delhi: National Book Trust, India.
- Bettinger, R. L. 1987 Archaeological Approaches to Hunter- gatherers, *Annual Review of Anthropology* 16:121-142.
- Bichieri, M. G. (ed.) 1972. *Hunters and Gatherers Today*. New York: Holt, Rinehart and Winston.
- Binford, L. R. 1988. *In Pursuit of the Past*. New York: Thames and Hudson.
- Cooper, Z. 1992 "The Relevance of the Forager/Collector Model to Island Communities in the Bay of Bengal." *Man and Environment* XVII (2) : 111-122.
- Cooper, Z. 2002. *Archaeology and History: Early Settlement in the Andaman Islands*. New Delhi: Oxford University Press.
- David N. and C. Kramer. 2001. *Ethnoarchaeology in Action*. Cambridge University Press.
- Fuchs, S. 1973. *The Aboriginal Tribes of India*. Delhi: Macmillan India.
- Gould R.A. 1980. *Living Archaeology*. Cambridge: Cambridge University Press.
- Griffin, P. B. and W. G. Solheim II. 1990. "Ethnoarchaeological Research In Asia." *Asian Perspectives* 28 (2): 145-161.
- Grigg, D.B. 1980. *The Agricultural Systems of the World*, Cambridge University Press, Cambridge, (chapter on Shifting Agriculture, pp.37-75).
- J.K. Maheshwari. 1996. *Ethnobotany in South Asia*, Scientific Publishers, Jodhpur.
- Jain, S.K. 1991. *Contributions to Indian Ethnobotany*, Scientific Publishers, Jodhpur.
- Kramer C. (ed.) 1980 *Ethnoarchaeology*. Guildford Survey: Columbia University Press.
- Lee, R. B. and I. Devore (Ed.) 1975. *Man the Hunter*. Chicago: Aldine Publishing Co. Second Edition.
- Leshnik, L. S. and G. Sontheimer (eds.) 1975. *Pastoralists and Nomads*. Wiesbaden: Otto Harrassowitz.
- Meehan, B. and R. Jones (eds.) 1988. *Archaeology with Ethnography: An Australian Perspective*. Department of Prehistory, Research School of Pacific Studies, the Australian National University, Canberra.
- Michael, J. Balick and Paul Alan Cox. 1996. *Plant, People and the Science of Ethnobotany*, Museum of Anthropology, University of Michigan, Ann Arbor.
- Misra, V.N. 1990. "The Van Vagris - 'Lost' Hunters of the Thar Desert, Rajasthan." *Man and Environment* XV(2):89-108.
- Morris, B. 1982. *Forest Traders : A Socio-Economic Study of the Hill Pandaram*. London School of Economics Monograph, Social Anthropology 55. London: Athlone Press.
- Murty, M.L.K 1981. "Hunter-Gatherer Ecosystems and Archaeological Patterns of Subsistence Behaviour on the South-East Coast of India: An Ethnographic Model." *World Archaeology* 12: 47-58.
- Murty, M.L.K. 1985. "Ethnoarchaeology of the Kurnool Cave Area." *World Archaeology* 17 (2): 192-205.
- Nagar, M. 1975. "Role of Ethnographic Evidence in the Reconstruction of Archaeological Data." *Eastern Anthropologist* 28 (1): 13-22.
- Nagar, M. 1983. "Ethnoarchaeology of the Bhimbetka Region." *Man and Environment* VII: 61-69.
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1. To make student aware with the Indian Art& Architecture.
2. To make student aware of the importance of Art& Architecture in India.
3. To make students aware with the methods of study in Art History.

PAPER V (SEM V)ART & ARCHITECTURE IN ANCIENT INDIA (PART I)

- 1) Salient features of Indian art
- 2) Prehistoric &Protohistoric art
 - (a) Rock art- Paintings & Carvings.
 - (b) Architecture, Sculptures & Pottery of Protohistoric period.
- 3) Art of the early historic period c. 324 B.C upto 1stC.B.C
 - (a) Monuments

- (b) Sculptures
- (c) Terracottas
- 4) Origin & development of Stupa Architecture in India. Sanchi, Bharhut, Amravati & Sarnath & stupas of later period.

V (SEM VI) ART & ARCHITECTURE IN ANCIENT INDIA (PART II)

1) Origin and Development of Temple Architecture

Development of Structural temples & styles- Nagara, Dravida, Vessara, Bhumija, Phamsana.

2) Development of sculptures and Paintings in India-

- Development of sculptural art - Satavahana, Kushana schools of Indian art, Gupta-Vakataka, Rastrakuta, Pallava sculptures, Chola & Pala iconography.
- Development of Sculptures Paintings in India.

(a) Ajanta

(b) Bagh

(c) Ellora

(d) Tanjore

3) Development of Secular Architecture

- Step wells
- Fort
- Palace

4) Study of foreign influence on Indian Art

Recommended Readings

Acharya, P. K. 1927. *Indian Architecture According to Manasara-Shilapshastra*. Bombay: Oxford University Press.

Agrawal, V.S. 1948. *Gupta Art*. Lucknow: U.P. Historical Society.

Agrawal, V.S. 1965. *Masterpieces of Mathura Sculptures*. Varanasi: Prithvi Prakashan.

Asher, Catherine B. and Thomas R. Metcalf (Eds.). 1994. *Perceptions of South Asia's Visual Past*. New Delhi/ Madras: American Institute of India Studies/ Swadharma Surajya.

Banerji, Arundhati 1994. *Early Indian Terracotta Art*. New Delhi: Harman Publishing House.

Berkson, Carmel 1982. An Approach Towards Examining Style in the Cave Temple, in *Rupa Pratirupa (Alice Boner Commemoration Volume)* [Bettina Baumer ed.], pp. 57-86, New Delhi, Biblia Implex.

Berkson, Carmel 1992. *Ellora: Concept and Style*. New Delhi: Abhinava Publications and Indira Gandhi National Centre for Art.

Bhattacharyya, T. 1947. *A Study of Vastuvidya or Canon of Indian Architecture*. Patna: Dariapore

Bose, N. K. 2001. *Orissan temple Temple Architecture (Vastushastra)* [With Sanskrit text and English translation]. Delhi: Bharatiya Kala Prakashana.

Brown, Percy 1959. (4th edition) *Indian Architecture (Buddhist and Hindu Period)*. Bombay: D. B. Taraporewala.

Chakrabarti, Jayant 1980. *Techniques in Indian Mural Painting*. Calcutta: K. P. Bagchi and Company.

Coomarswami, Ananda 1972. *History of Indian and Indonesian Art*. New Delhi: Mushiram Manoharlal. (Indian edition.)

Deglurkar, G. B. 1974. *Temple Architecture and Sculpture of Maharashtra*. Nagpur: Nagpur University.

Dehejia, Vidya 1990. *Art of Imperial Cholas*. New York: Columbia University Press.

Dehejia, Vidya 1997. *Discourse in Early Buddhist Art: Visual Narrative of India*. New Delhi: Munshiram Manoharlal.

Dehejia, Vidya 1997. *Indian Art*. London: Phaidan Press.

Dhavalikar, M. K. 1978. *Masterpieces of Indian Terracottas*. Bombay: Taraporewala and Sons.

Dhavalikar, M.K. 1983. *Master Pieces of Rashtrakuta Art: The Kailas*. Mumbai: Taraporewala.

Dwivedi, V. K. 1976. *Indian Ivories*. Delhi: Agam Kala Prakashan.

Dehejia, Vidya 1972. *Early Buddhist Rock Temples: A Chronological Study*. London: Thames and Hudson.

Dehejia, Vidya 1979. *Early Stone Temples of Orissa*. Delhi: Vikas Publishing House.

Dehejia, Vidya 1997. *Discourse in Early Buddhist Art: Visual Narrative of India* New Delhi: Munshiram Manoharlal.

Dhaky, M.A. 1977. *The Indian Temple Forms: In Karnataka Inscriptions and Architecture*. New Delhi: Abhinava Publications.

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Donaldson, Thomas E. 1985. *Hindu Temple Art of Orissa*. (volume I). (Studies in South Asian Culture 12). Leiden: E. J. Brill.

Encyclopaedia of Indian Temple Architecture. (Volume 2, part 1) Varanasi/ Gurgaon: American Institute of Indian Studies.

Encyclopaedia of Indian Temple Architecture. (volume I, part 1,2,3, and Volume 2, part 1, 2, 3) Varanasi/Gurgaon: American Institute of Indian Studies.

Gangoli, O. C. 1957. *Art of Chandela*. Calcutta: Rupa and Company.

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Gupta, S.P. (Ed.) 1985. *Kushan Sculptures from Sanghol: A Recent Discovery*. New Delhi: National Museum

Hallade, M. 1968. *Gandhara Style and the Evolution of Buddhist Art*. London: Thames and Hudson.

Huntington, Susan. 1985. *The Art of Ancient India (Buddhist, Hindu and Jaina)*. New York: Weatherhill.

Hardy, Adam. 1995. *Indian Temple Architecture: Forms and Transformations*. New Delhi: Indira Gandhi National Centre for the Art and Abhinava Publications.

Joshi, N.P. 1966. *Mathura Sculptures*. Mathura: Archaeological Museum. Joshi, N.P. 1966. *Mathura Sculptures*. Mathura: Archaeological Museum.

Kramrisch, Stella 1986. *The Hindu Temple*. (2 volumes). Reprint. Delhi: Motilal Banarasidas.

Krishna Deva. 1990. *Khajuraho Temples*. (two volumes) (Series: Architectural Survey of Temples 5). New Delhi: Archaeological Survey of India.

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Kramrisch, Stella 1933. *Indian Sculpture*. Calcutta: Y.M.C.A. Publication House.

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Mate, M. S. 1998. *Prachin Kala Bharati*. Pune: Continental Prakashan.

Mitra, Debala 1992. *Konark*. New Delhi: Archaeological Survey of India.

Mate, M. S. 1998. *Prachin Kala Bharati*. Pune: Continental Prakashan.

Mathur, Asha Rani. 1988. *The Great Traditions: Indian Bronze Master Pieces*. New Delhi: Festival of India.

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Nagaraju, S. 1981. *Buddhist Architecture of Western India*. Delhi: Agam Kala Prakashan.

Nehru, Lolita 1989. *Origins of Gandhara Style: A Study of Contributory Influences*. Delhi: Oxford University Press.

Parimoo, Ratan *et al.* (ed.) 1991. *The Art of Ajanta: New Perspective*. New Delhi: Books and Books. (two volumes)

Parimoo, Ratan, Deepak Kannal and Shiavaji Panikkar (Eds.). 1988. *Ellora Caves: Sculptures and Architecture* (Collected Papers of the UGC's National Seminar). New Delhi: Books and Books. u

Parimoo, Ratan, Deepak Kannal and Shiavaji Panikkar (Eds.). 1988. *Ellora Caves: Sculptures and Architecture* (Collected Papers of the UGC's National Seminar). New Delhi: Books and Books.

Pichard, Pierre. 1995. *Tanjavur Brihadishvar: An Architectural Study* (The Monument and The Living Presence Series). New Delhi: Indira Gandhi National Centre for Arts.

Pramod Chandra (Ed.) 1975. *Studies in Indian Temple Architecture* (Papers presented at a Seminar held at Varanasi, 1967). New Delhi: American Institute of Indian Studies.

Rajendra Prasad. 1983. *Chalukya Temples of Andhradesh*. New Delhi: Abhinav Publications.

Rama, K. 1995. *Buddhist Art of Nagarjunkonda*. Delhi: Sandeep Prakashan.

Rath Sharma, and Alice Boner (Tr.). 1966. *Shilpa Prakash*. Leiden: E. J. Brill.

Ray, Nihararanjan. 1965. *Maurya and Shanga Art*. Calcutta: Indian Studies.

Rath Sharma, and Alice Boner (Tr.). 1966. *Shilpa Prakash*. Leiden: E. J. Brill.

Sarkar, H. 1966. *Studies in Early Buddhist Architecture of India*. New Delhi: Munshiram Manoharlal

Schlingloff, Dieter 1988. *Studies in the Ajanta Paintings: Identifications and Interpretations*. Delhi: Ajanta Publications.

Settar, S. 1992. *Hoyasala Temples*. Dharwad: Karnataka University.

Sharma, R.C. 1986. *Mathura as School of Sculpture*

Saraswati, S. K. 1975. *A Survey of Indian Sculpture*. New Delhi: Munshiram Manoharlal.

Schlingloff, Dieter 1988. *Studies in the Ajanta Paintings: Identifications*

1. To make student aware with the Tangible Heritage
2. To make student aware with the importance of Protection, Conservation and Preservations of Tangible Heritage
3. To make students aware with the practical aspects of culture.

PAPER VI (SEM V) THE STUDY OF PROTECTION, CONSERVATION AND PRESERVATION OF INDIAN MONUMENTS AND ANTIQUITIES (PART I)

- 1) Introduction
 - (a) Aims & Objectives of conservation.
 - (b) Methods of Preservation of sites & monuments in India through literary & archaeological evidences in ancient India- Secular & religious.
- 2) Structural conservation.
 - (a) Definition of archaeological conservation.
 - (b) Retaining of the original characteristics of monuments.
 - (c) Archaeological conservation work before independence.
- 3) Process of conservation of excavated sites & structures.
 - (a) Precautions & Transplantation
 - (b) Documentation
 - (c) Dismantling and Stack yard
 - (d) Restoration
- 4) Causes of destruction of sites & environmental development. Natural/ other causes.

PAPER VI (SEM VI) THE STUDY OF PROTECTION, CONSERVATION AND PRESERVATION OF INDIAN MONUMENTS AND ANTIQUITIES (PART II)

- 5) Conservation of various materials used during ancient times.
 - (a) (1)Wood
 - (2)Bricks
 - (3)Pottery & terracotta artefacts
 - (4)Stone masonry
 - (5)Lime Mortar/ plaster
 - (b) Conservation of Paintings & murals
 - (c) Conservation of Manuscripts.
- 1) Chemical Conservation- Organic- Chemical treatment of antiquities & monuments.
Chemical Conservation- Inorganic material.
- 2) Economic aspects of monuments.
 - (a) Cost/Benefit/Ratio.
 - (b) Employment generations.
 - (c) Cultural Tourism- Cultural/Historical/Religious

- 3) Historical monuments or sites study for the history & conservation- Pre/Protohistoric sites.
 - (a) Pre/Protohistoric sites-Lothal,
 - (b) Historical sites- Sanchi,
 - (c) Cave architecture- Ajanta
 - (d) Temples- Lingaraja,
 - (e) Forts- Raigad, Devagiri.
 - (a) Step wells & tanks- Rani-ki-Wav, or any other step wells in Maharashtra.

Bibliography

- 1) Agarwal Rajesh K & Nangia Sudesh, Economic & Employment potential of archaeological monuments in India. Birla Institute of Scientific research, New Delhi 1974.
- 2) Biswas Sachindra Sekhar, Protecting the cultural heritage. National legislations & international conventions. Aryan books international, New Delhi 1999.
- 3) Nagar S.L, Protection, Conservation & preservation of India's monuments. Aryan books international, New Delhi 1998.
- 4) Ghosh A, 50 years of archaeological survey of India, Ancient India 1953.
- 5) UNESCO & its programmes, protection of mankind's cultural heritage sites & monuments, UNESCO 1970.

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- 1. To make student aware with the Tangible Heritage**
- 2. To make student aware with the importance of Protection, Conservation and Preservations of Tangible Heritage**
- 3. To make students aware with the practical aspects of culture.**

PAPER VII (SEM V)HERITAGE

- 1) Heritage
 - (a) Definition & Scope.
 - (b) Heritage in Regional & International Context.
- 2) Role of UNESCO in Heritage Protection.
- 3) (a) World Heritage Monuments in India.
 - b) Monuments of National importance in India.
- 4) Tangible and intangible Heritage
- 5) Legislative Provisions for Heritage Conservation in India.

PAPER VII (SEM VI)HERITAGE TOURISM

- 1) Tourism
 - (a) Definition & Scope.
 - (b) Types of Tourism
- 2) Tourist resources of India: religion, craftsmanship, festivals etc.
- 3) (a) Functioning of I.T.D.C &M.T.D.C
 - b) Legal perspective.
- 4) a) State & National Economy.
 - b) Sustainable model of Cultural Tourism.

[Practical Session – Tour-operating]

Bibliography

- 1) Robert Pockyard, Policy of law in Heritage Conservation, E & FN Spoon.
- 2) Kernal Balsar, The concept of the common heritage of Mankind, Vol. 30 Martinus Nijhoff.
- 3) Nicholas Stanley Price (ed), Historical & Philosophical issues in Conservation of cultural heritage, getty education in the arts.
- 4) Richard Harrison (ed), Manual of Heritage Management, Butterworth Heineman.
- 5) Giorge Croci, Conservation & structural restoration of architectural Heritage, Computational Mechanics.
- 6) Richard Prentice, Tourism & Heritage attractions, Queen Margaret College.
- 7) Wittlin Alma, The Museum, London, 1949.
- 8) Nego JMS, Tourism & Travel, Gitanjali Publication house, 1998.
- 9) Bhatia A, Tourism in Indian history & development, Delhi, 1978.
- 10) Davide T Herbert (ed), Heritage Tourism & society, Mausell.

- 1. To make student aware with the Religion-philosophy.**
- 2. To make student aware of the importance of religious beliefs and philosophical studies**
- 3. To make students aware with the Sociological, ritualistic and philosophical methods of study.**

PAPER VIII (SEM V) RELIGIOUS & PHILOSOPHICAL THOUGHTS IN ANCIENT INDIA (PART I)

- 1) Religious beliefs & practices during Protohistoric period.
- 2) Religion & Philosophy of the Vedas & Upanishads.
 - (a) Main teachings of the Vedas & Upanishads.
 - (b) Law of Karma
 - (c) Cosmogony
 - (d) The Atman Doctrine
 - (e) The concept of Brahmana
 - (f) The theory of Causation
 - (g) Doctrine of Transmigration
 - (h) The theory of Emancipation
- 3) Religion & Philosophy of the Epics.
- 4) Philosophy & teachings of Buddhism & Fundamental teachings of Jainism
 - (a) Origin , growth & decline of Buddhism
 - (b) Main wisdom
 - (c) Doctrine of Causal connection
 - (d) Ideas of Soul, Re-birth, Nirvana
 - (e) Growth & spread of Buddhism
 - (a) Shvetambara & Digambara Sects and their teachings
 - (b) Spread of Jainism

PAPER VIII (SEM VI) RELIGIOUS & PHILOSOPHICAL THOUGHTS IN ANCIENT INDIA (PART II)

- 1) Materialism in Ancient India
 - (a) Various heresies propounding materialism, Purana Kashyapa, Ajita Keshava Kambali & Sanjaya Belatthiputra
 - (b) The Charvaka System
- 2) Vaishnavism – a historical review
 - (a) Devolvement of Vaishnavism
 - (b) Doctrine of Incarnation
 - (c) The concept of Narayana
 - (d) Doctrine of Vyuhus
 - (e) Bhakti cult
 - (f) Spread of Vaishnavism in South India.
- 3) Shaivism-a historical sketch
 - (a) Origin & development of Shaivism
 - (b) Virashaiva & Pashupata sects
 - (c) Kashmiri Shaivism
 - (d) Tamil Shaivism
 - (e) Shakti worship

- (f) Kapala&Kalamukh sect
- (g) Worship of Ganesha&Subramanya

- 3) Introduction to six systems of Indian Philosophy
 - (a) Principal traditions
 - (b) Classification of the schools
 - (c) Chronology of the systems
 - (d) Main teachings of Nyaya, Vaisheshika, Samkhya, Yoga, Mimasa, Vedanta

Bibliography

1. Indian Philosophy Vol. I & II- S. Radhakrishnan
2. Essentials of Indian Philosophy- M. Hiriyana.
3. Early Indian Religions- P. Banerjee
4. History of Indian Philosophy- Vol. 1-5- Dasagupta S.N
5. Hinduism- Sen S.K
6. 2500 years of Buddhism- Bapat P.V
7. Jain Religion & literature Vol. Part I- Kapadia UP
8. Jainism in Northern India- Shah C.P
9. Early History of Vaishnavism in South India- Aiyankar S.K (London 1920)
10. Origin & Early History of Vaishnavism in South India- Aiyar C.V Narayana (Madras 1936)
11. Vaishnavism, Saivism & minor religious sects- Bhandarkar R. G (Poona 1928)

1. **To make student aware with of Literature as well as Science and Technology in Ancient India.**
2. **To make student aware of the importance of Literature as well as Science and Technology in Ancient India.**
3. **To make students aware with the literary methods of study for the cultural History of India.**

PAPER IX (SEM V) AN INTRODUCTION & SURVEY OF LITERATURE IN ANCIENT INDIA

- 1) a) The Vedic literature- Samhitas,Brahmanas,Aranyakas& Upanishads.
 - b) The popular Epics- Ramayana, Mahabharata
 - c) Brief survey of the Purana literature.
- 2) Survey of Canonical & Non-Canonical literature of Jainism & Buddhism.
- 3) A brief Survey of Sanskrit Classical Kavya literature-
 - (a) Mahakavyas- Ashvaghosha ,Kalidasa, Bharavi
 - (b) Lyrical poetry –Kalidasa, Jayadeva

4) Sanskrit Prose literaturredramas-

- a) Dramas origin- characteristics & types –Bhasa,Kalidasa, Bhavabhuti, Vishakhadatta
- b) Narrative , Historical, Narrative literature & ornate fictions - Panchatantra&Jatakas, Kalhana's Rajtarangini, Bana's Harshacharita , Dandin's Dashakumaracharita

PAPER IX (SEM VI) AN INTRODUCTION & SURVEY OF SCIENCE & TECHNOLOGY IN ANCIENT INDIA

- 1) Sources for the study of science & technology in ancient India.
 - (a) Literature
 - (b) Archaeology
- 2) Specific science & technology in ancient India.
 - (a) Health care & medicine based on Yoga, Ayurveda
 - (b) Astronomy, Mathematics
 - (c) Water management
 - (d) Fine Arts
 - (e) Ashvashastra&Gajashastra
 - (f) Vastushastra
 - (g) Rasashastra
 - (h) Metallurgy
- 3) Urbanization & development of crafts & industries
- 4) Recent studies & modern investigation of ancient sciences & technology.

Bibliography

- 1) Concise history of science in India- D.M. Bose, S.N Sen, B.V. subbarayappa.
- 2) Positive sciences of the Ancient hindus- Brajendranatha seal, Motilal Banrasidas, Delhi 1958.
- 3) History of Chemistry in Ancient India & Medieval India, P.Ray- Indian chemicals society, Calcutta 1956.
- 4) Charaka Samhita- a scientific synopsis, P.Ray & H.N Gupta National Institute of sciences of India, New Delhi 1965.
- 5) Macdonnel A.A- History of Sanskrit literature.
- 6) Winternitz M- History of Indian literature Vol. I,II & III.
- 7) Dasgupta S.N & De S.K- History of Sanskrit literature Vol. I.
- 8) Ramkrishna Mission- cultural heritage of India Vol. I,II & III.
- 9) Majumdar R. C & Pushalkar A.D- History & culture of the Indian people, Vol. I,II & III.
- 10) Keith A.B- History of Sanskrit literature.

11) Varadachari V- History of Sanskrit literature.

12) Chaitanya Krishna- A new History of Sanskrit

Ancient Indian History Culture and Archaeology

1. Syllabus as per Credit Based and Grading System.
 - i. Name of the Programme: T.Y.B.A Sem VI & VI (46 Credits)
 - ii. Course Code: --
 - iii. Course Title: Ancient Indian History Culture and Archeology
 - iv. Semester wise Course Contents: -Submitted
 - v. References and additional references: -Submitted
 - vi. Credit structure: V Sem / VI Sem - 22 / 24
 - vii. No. of lectures per Unit :-Submitted
 - viii. No. of lectures per week / semester/paper :-4/3 lectures/ week
60 classroom hours + 60 Self-study Hours/ Semester
2. Scheme of Examination: -Submitted
3. Special notes, if any: - Nil
4. Eligibility, if any: - As per University Rules
5. Fee Structure: - As per University Rules
6. Special Ordinances / Resolutions, if any: - As per Academic Council

This T.Y.B.A syllabus has been prepared as per the guidelines given to the Ad hoc Board of Studies in Ancient Indian History Culture and Archaeology. This can be applicable for the academic year 2013-14. The structure of the Course will be as follows:

SEMESTER V

Course IV ETHNOARCHAEOLOGY(PART I)

Course V ART & ARCHITECTURE IN ANCIENT INDIA (PART I)

Course VI THE STUDY OF PROTECTION, CONSERVATION AND PRESERVATION OF INDIAN MONUMENTS AND ANTIQUITIES (PART I)

Course VII HERITAGE Management

Course VIII RELIGIOUS & PHILOSOPHICAL THOUGHTS IN ANCIENT INDIA (PART I)

Course IX- AN INTRODUCTION & SURVEY OF LITERATURE IN ANCIENT INDIA

SEMESTER VI

Course IV ETHNOARCHAEOLOGY(PART II)

Course V ART & ARCHITECTURE IN ANCIENT INDIA (PART II)

Course VI THE STUDY OF PROTECTION, CONSERVATION AND PRESERVATION OF INDIAN MONUMENTS AND ANTIQUITIES (PART II)

Course VII HERITAGE TOURISM

Course VIII RELIGIOUS & PHILOSOPHICAL THOUGHTS IN ANCIENT INDIA (PART II)

Course IX- AN INTRODUCTION & SURVEY OF SCIENCE & TECHNOLOGY IN ANCIENT INDIA

