

New COURSE

CENTRE OF ADVANCED STUDY  
Department of AIHC & Archaeology  
Faculty of Arts  
Banaras Hindu University

**SYLLABUS OF M.A. SEMESTER COURSE**

General Guidelines

1. M.A. in Ancient Indian History, Culture & Archaeology is a 4 Semester Course.
2. A student is required to earn at least 80 credits to complete the course.
3. A Student is required to earn about 20 credits in each semester.
4. There shall be two following categories of Courses:
  - A. The Departmental Core Course (DCC); and
  - B. Specialization Courses (Sp C)
5. All the courses of the first category, The Departmental Core Course (DCC), shall be compulsory.
6. A student may select any one of the groups consisting of Three of the Specializations to be notified at the time of admission.
7. Each course shall be covered in accordance with the respective credit value of the course. 1 credit shall be of one hour of formal meeting. Approximately 2:3 parts of the course shall be covered in the form of class lectures, and 1:3 as student performance in the form of tutorials, seminars, group discussions etc.
8. Each course shall be of 100 marks.
9. 30 % marks shall be allotted to internal assessments — over all performance of the student in tutorials, seminars etc.
10. 70 % marks shall be allotted for the semester end examinations.
11. The two categories of the courses proposed by the department are the following:

Departmental Core Courses

Credits

<input checked="" type="checkbox"/>	Historical Geography & Geographical Background of Ancient Indian Culture.	04
<input checked="" type="checkbox"/>	Literature: As source of Ancient Indian History and Culture	04
<input checked="" type="checkbox"/>	Material Remains: As source of Ancient Indian History and Culture	04
<input checked="" type="checkbox"/>	History and Culture of Indian People (upto the Mauryan Period)	04
<input checked="" type="checkbox"/>	Historiography, Concepts & Methods	04
<input checked="" type="checkbox"/>	Political History of North India (From 2 <sup>nd</sup> century B.C. to 12 <sup>th</sup> century A.D.)	04
<input checked="" type="checkbox"/>	Historical Writings & Contribution of Individual scholars	04
<input checked="" type="checkbox"/>	Political History of Deccan and South India upto 13 <sup>th</sup> century A.D.	04
	Total	32

All the Departmental Core Courses shall be compulsory and will be covered in Semesters I to IV.

**Credits**

**Specialization Course**

16

**A. Archaeology (4 courses)**

- I. World Prehistory
- II. Protohistoric and Early Historic Archaeology of the Indian subcontinent
- III. Principles & Methods of Archaeology
- IV. Environmental Archaeology & West Asian Archaeology

16

**B. Art & Architecture (4 courses)**

- I. Historical Account of Early Indian Architecture
- II. Historical Account of Indian Sculpture and Painting upto Gupta period
- III. Sculptural Styles & Iconography of Early Medieval India
- IV. Origin & Development of Ancient Indian Temples

16

**C. Epigraphy & Palaeography (4 courses)**

- I. Beginnings of Indian Scripts and Epigraphs
- II. Scripts and Epigraphs from Maurya to Kuśāṇa period
- III. Scripts and Epigraphs of Guptas and Vākāṭakas
- IV. Scripts and Epigraphs of Post Gupta and Early medieval Period

16

**D. Numismatics (4 courses)**

- I. Numismatography and Beginning of Coinage
- II. Coinage of Rulers of Foreign Origin
- III. Sātavāhana and Gupta Coins
- IV. Post Gupta and Early Medieval Coinage

16

**E. Religions of Ancient India (4 courses)**

- I. Vaidika Religion
- II. Vaishnavism, Saivism & Minor Religious Systems
- III. Buddhism
- IV. Jainism

16

**F. State & Society in Ancient India (4 courses)**

- I. Social Life in Ancient India
- II. Ancient Indian Economy
- III. Ancient Indian Political Ideas and Administrative Systems
- IV. Law and Legal Institutions in Ancient India

16

**G. Indian Cultural Contacts in Asia (4 courses)**

- I. India's Cultural Contacts with Sri Lanka, Myanmar and Thailand
- II. India's Cultural contacts with Vietnam, Kampuchia, Indonesia and Malaysia
- III. India's Cultural Contacts with Central Asia and Afghanistan
- IV. India's Cultural Contacts with China, Tibet and Nepal

16

**H. History of Science and Technology in India (4 courses)**

- I. Science & Technology in Pre & Protohistoric Period
- II. Science & Technology in Chalcolithic Cultures and Vaidika Period
- III. A Survey of Science & Technology from 6<sup>th</sup> Century B.C. to 1<sup>st</sup> Century B.C.
- IV. Science & Technology from 1<sup>st</sup> Century A.D. to 7<sup>th</sup> Century A.D.

Total 48

- Any three of the Specialization Courses is to be offered, each consisting of a package of 4 Courses of 16 credits
- The Department by notification at the time of admission may run Specialization Courses in proposed bunches, each consisting of 3 courses

- The Department by notification at the time of admission may run different number of Specialization Courses — keeping in abeyance one or more courses — or adding others, as per the expertise available from time to time.

#### **System of Evaluation**

- 30 marks shall be for the internal assessment in each of the courses, which shall be evaluated over all performance of the student in the formal meeting with the teacher, who is offering the course. These marks will be assigned on the tutorials, seminars, class tests etc.
- In case of courses prescribing practical examination the marks for evaluation will be 20 and the marks for tutorials seminars, class tests etc. will be 30.
- The total marks for semester end examination of the course involving practicals shall be 50 and in case of other courses shall be 70 as usual. Students shall be required to write in examination for each of the courses under study as under :

#### **Courses without Practical:**

		03 hour	Total Marks
1.	Duration of semester end examination		
2.	Pattern of questions:		
	i. Long essay type question	03 X 15 =	45 mark
	ii. Short answers	02 X 10 =	20 mark
	iii. Objective type questions (briefest form)	05 X 01 =	5 mark
		<b>Total</b>	<b>70 mar</b>

#### **Courses with Practical:**

		03 hour	Total Marks
1.	Duration of semester end examination		
2.	Pattern of questions:		
	i. Long essay type question	03 X 12 =	36 mar
	ii. Short answers (250 words)	02 X 05 =	10 mar
	iii. Objective type questions (briefest form)	04 X 01 =	04 mar
		<b>Total</b>	<b>50 mar</b>

## CORE COURSE

### Course I

#### Historical Geography & Geographical Background of Ancient Indian Culture

##### Unit-I. Introduction

Nature and Scope

Sources : Ancient and modern

3. Relevance to Indian history and culture

##### Unit-II. Geological Composition of Indian Sub-Continent

4. A brief survey of major physical divisions: Himalayas, Indo-Gangetic plains & Peninsula

5. A brief survey of major morphological divisions : Deserts- Rajasthan & Kutch; Hill ranges- Aravali, Vindhya, Kaimur and Sahyadri; Plateau - Malwa and Chhotanagpur; Laterite formation - Kerala

6. Passes: North and North-East

##### Unit-III. Geographical Background

A brief survey of major river systems-Indus, Ganga, Krishna, Narmada, Brahmaputra and Cauvery

A brief survey of climatic zones & their flora and fauna

Indian population- racial features and main classifications

##### Unit-IV. Indian Concepts (Brahminical, Jaina & Buddhist)

10. Universe : Origin, solar system and place of earth

11. Jambūdvīpa & Bharat Varsh

12. Trade routes & ports : Silk route, Uttrapath, Dakshinapathā, Sea route & pottans

13. Capitals & Cities : Concept, location and identification of important sites

##### Unit-V. Impact of Geography on Ancient Indian Culture

14. Geomorphology : Settlements and migrations

15. Climate : Shelter, Subsistence & Dress

16. Material Resources : Technology, Art and Architecture

\* The Students are expected to practice Map reading and plotting of important regions and sites.

#### Recommended Reading

Ali, Srinivas, *Geography of the Puranas*, New Delhi, 1966.

Ali, Srinivas, *Studies in the Historical and Cultural Geography and Ethnography of Sankalia, H.D., Studies in the Historical and Cultural Geography and Ethnography of Gujarat*, Poona, 1919.

Dubey, Bechan, *Geographical concepts in Ancient India*, Varanasi, 1967.

Panikkar, K.M., *Geographical Factors In Indian History*, Bharatiya Vidya Bhavan, Bombay, 1955.

Tripathi, M.P., *Development of Geographical knowledge in Ancient India*, Bharatiya Vidya Prakashan, Varanasi.

Kaniska, *Bhārata kā Prāchīn Bhugola (Ancient Geography of India)*, Indological Book House, Varanasi, 1989.

Upadhyay, Bharat Singh, *Buddha kālina Bhāratiya Bhugola*, Hindi Sahitya Sammelan Prakashan, 1961, Allahabad.

Wadia, D.N., *Geology of India*, Tata McGraw Hill, New Delhi, 1975.

Singh, R.L., *India. A regional Geography*, Varanasi; The History & Culture of India People - Vedic Age, Vol 1., Bharatiya Vidya Bhavan series, Bombay, Chapter, III, IV, V and VI, 1971.

- Subbarao, B. *Personlity of India*, Baroda, 1958.
- Law, B.C., *Historical Geography of Ancient India*, reprinted, New Delhi, 1984.
- Bharadwaj, O.P.. *Studies in the Historical Geography of Ancient India*, Delhi, 1986.
- C.C., davies, *Historical Atlas of the Indian Peninsula*, London, 1956.
- O.H.K. Spate and A.T.H. Learmonth., *India and Pakistan : A General and Regional Geography*, London, 1967.
- Bhattacharya, N.N.. *The Geographical Dictionary : Ancient and Early Medieval India*, Delhi, 1991.
- Chattopadhyay, B.D., *A Survey of Historical Geography of Ancient India*, Delhi, 1984.
- Cunningham, A., *The Ancient Geography of India*, London, 1871.
- Schwartzberg, J.E., *A Historical Atlas of South Asia*, Chicago, 1971.
- Chakrabarti, D.K.. *The Geopolitical Orbits of Ancient India*, OUP, New Delhi, 2010.

## Course II

### Literature As Source of Ancient Indian History and Culture

#### **Unit-I. Introduction**

1. Problem of historical reconstruction, Classification of sources and Problem of dating of literary sources
2. Comparison with medieval and modern literary sources

#### **Unit-II. Vaidika literature and Epics**

3. Nature and Classification of Vaidika literature
4. Politico-Cultural importance of Vaidika literature
5. Nature and Historical importance of Epic literature

#### **Unit-III. Dharmāśāstra and Purāṇas**

6. Nature & Classification of Dharmāśāstra Literature and their Historical significance
7. Nature and Classification of Purāṇa literature
8. Historical Evaluation of Purāṇas

#### **Unit-IV. Buddhist, Jaina and Sangama literature**

9. Nature and Classification of Buddhist literature
10. Pāli Tripitaka and Sanskrit literature with special reference to Divyāvadāna and Mañjuśrīmūlakalpa
11. Nature and Classification of Jaina literature: Jaina Āgamas and Paurāṇic Literature with special reference to Harivarṁśapurāṇa
12. Historical Value of Sangam literature

#### **Unit-V. Dramas, Biographies and others**

13. Nature of Historical Drama literature, Historical values of Mudrārākshasa and Mālavikāgnimitram
14. Nature and Historical importance of Charitkāvya with special reference to Navasāḥasāṅkacharita and Kumārpālacharita
15. Historical values of the accounts of foreign travellers

#### **Recommended Reading**

Ghoshal, U.N., *Studies in Indian History and Culture*, Bombay, 1965.

Majumdar, R.C. & Pusalkar, A.D. (eds.), *The History and Culture of the Indian People*, Bharatiya Vidya Bhawan Series. *The Vedic Age*. Vol. I (Portions on Language and Literature), Bombay, 1988.

- Pargiter, F.E., *Ancient Indian Historical Traditions*, Delhi, 1972.  
 Pargiter, F.E., *The Purāṇa Text of the Dynasties of the Kali Age*, Oxford, 1913.  
 Rapson, E.J., *The Cambridge History of India*, Vol. I, Cambridge, 1922.  
 Winternitz, M., *History of Indian Literature* (Also in Hindi), Vols. I & II, Delhi, 1987.

### Course III

#### Material Remains as Source of Ancient Indian History and Culture

##### **Unit-I.(A) Introduction**

Nature, Retrieval and Classification of data.

##### **(B) Prehistoric to Early Historic Excavated remains**

Reconstruction of Socio-Economic and religious life on the basis of followings:

1. Tools
2. Pottery
3. Beads, seals-sealings and metal objects
4. Non-artifactual remains: Botanical and Zoological

##### **Unit-II. Coins, Seals and Sealings of the Historical period**

5. Nature and Classifications
6. Historical importance of coins, seals and sealings

##### **Unit-III. Epigraphs**

7. Nature and classification of Inscriptions
8. Reconstruction of Political and Cultural History from Inscriptions
9. Significance of Palaeography in dating

##### **Unit-IV. Sculptures and Paintings**

10. Reconstruction of history on the basis of followings: Stone, Terracotta and Metal sculptures
11. Pre-historic Rock paintings and Murals of Ajanta

##### **Unit-V. Structure and Monuments**

Historical importance of

###### **A. Non-religious structure**

12. Forts, Palaces, Tanks and wells

###### **B. Religious Structures & Monuments**

13. Stūpa : with special reference to Sanchi and Amaravati

14. Temples : with special Reference to Pallava Rathas and Kandariyā Mahādeva temple of Khajurāho

##### **Recommended Reading**

Allchin B & F.R., *Rise of Civilization in India & Pakistan*, Delhi, 1983.

Agrawala, V.S., *Bhāratīya Kalā* (Hindi), Varanasi, 1965.

Agrawala, V.S., *Bhāratīya Kalā* (Hindi), Varanasi, 1965.

Bhattacharya, D.K., *Old Stone Age tools*, Calcutta, 1979.

Bhandarkar, D.R., *Carmichael Lectures on Ancient Indian Numismatics*, Calcutta, 1917.

Bhandarkar, D.R., *Carmichael Lectures on Ancient Indian Numismatics*, Calcutta, 1917.

Brown, P., *Indian Architecture*, Vol. I, Bombay, 1985.

*The Cultural Heritage of India*, Vols. I & II (Relevant portions), Calcutta, 1982.

Majuindar, R.C. & Pusalkar, A.D. (eds.), *The History and Culture of the Indian People*.

Majuindar, R.C. & Pusalkar, A.D. (eds.), *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.

Pandey, R.B., *Indian Palaeography*, Varanasi, 1965.

Sankalia, H.D., *Stone Tools, their Techniques & Functions*, Poona, 1972.

Sinh, B. P., *Potteries in Ancient India*, Patna, 1968.

Sinha, B. P., *Potteries in Ancient India*, Patna, 1968.

Pant, P.C. & V. Jayaswal, *Ancient Ceramics : Historic Enquiries and scientific Approaches*.

Delhi, 1997.

## Course IV

### History & Culture of Indian People (upto the Maurya Period)

#### Unit-I. Introduction

1. Sources: Literary and Archaeological
2. Survey of Literature
3. Objective

#### Unit-II. Nomadism to Sedentism

4. Nomadic Communities and Hunting -Gathering economy
5. Early farming communities and beginning of settled life
6. Village communities and early use of metals
7. Emergence of first cities: Indus -Saraswati basin : Agrarian base, Trade & Commerce and Decline

#### Unit-III. Aryans : Archaeological & Literary Correlations

8. Early Vaidika Culture: Homeland, Material remains, Economy, Political Structure
9. Later Vaidika Culture: Movements and Migrations, Settlements and rise of Political System, Material remains, Technology and Economy
10. A brief survey of Paurāṇika Geneology

#### Unit-IV. The Age of Janapadas

11. Emergence of States: Monarchical and Gaṇarājyas
12. Urbanization : Process. Factors Settlement and hierarchy
13. Religious movements

#### Unit-V. The Age of Imperialism up to the Mauryas

14. Nanda dynasty
15. A brief survey of foreign invasions & impact
16. Mauryan dynasty
17. Material culture during Mauryan Period

#### Recommended Reading

- Agrawal, D.P. & J.S. Kharkwal., *Bronze and Iron Ages in South Asia*, New Delhi, 2003.
- Allechin, B. & F.R., *The Rise of Civilization in India and Pakistan*, Delhi, 1983.
- Allechin, B & R., *Archaeology of South Asia*, New Delhi, 1997.
- Allechin, F.R., *The Archaeology of Early Historic South Asia: Emergence of City and States*, Cambridge, 1985.
- Chakrabarti, D.K., *India – An Archaeological History: Palaeolithic Beginnings to Early Historical Foundation*, Oxford, 2000.
- Ghosh, A., *The City in Early Historical India*, Shimla, 1973.
- Kuiper, F.B.J., *Aryans in the Rig Veda*, Atlanta, 1991.
- Lal, B.B. & S.P. Gupta (eds.), *Frontiers of the Indus Civilization*, Delhi, 1994.
- Majumdar, R.C. & Pusalkar, A.D. (eds.), *The History and Culture of the Indian People* Bharatiya Vidya Bhawan Series. Vol. I, *The Vedic Age*; Vol. II, *The Age of Imperial Unity*, Bombay, 1988.
- Mishra, V.D. and Pal J.N. (eds.), *Mesolithic India*, Allahabad, 2002.
- Pandey, G. C., *Foundation of Indian Culture*, 1984.
- Rapson, E.J., *Cambridge History of India*, Vol. I, Cambridge, 1922.
- Ratnagar, Shereen., *The End of the Great-Harappan Tradition*, New Delhi, 2000.
- Raychaudhary, H.C., *Political History of Ancient India*, Calcutta, 1953; Raychaudhary, H.C.. *Prāchīn Bhārat*. (Hindi Trans.).
- Sharma, R.S., *Material Culture and Social Formations in Ancient India*, Delhi, 1983.
- Sharma, R.S., *Looking for the Aryans*, Madras, 1995.
- Sharma, R.S., *Advent of the Aryans in India*, New Delhi 1999.

- Thapar, Romila. *From Lineage to State: Social Formations in the Mid-first Millennium B.C. in the Ganga Valley*. Delhi, 1990.
- Thapar, Romila., *Early India from the Origins to A.D. 1300*, New Delhi, 2000.
- Thapar, B.K., *Recent Archaeological discoveries in India*. UNESCO, 1985.
- Chakrabarti, Dilip K., *The Oxford Companion to Indian Archaeology (The Archaeological Foundations of Ancient India)*, Oxford, 2006.
- Tripathi, Vibha., *The Age of Iron in South Asia Legacy & Tradition*, New Delhi, 2001.
- Mookerjee, R.K., *Chandragupta Maurya and His times*, Banaras, 1960.

## Course V

### Historiography, Concepts & Methods

#### Unit-I. Meaning & Scope of History

1. Definition of History and its scope
2. Objectivity: Subject matter; Historical Explanation
3. Causation in History

#### Unit-II. Tradition of History Writings -A

4. Greco-Roman
5. Jewish
6. Christian

#### Unit-III. Tradition of Historical Writings -B

7. Islamic
8. Chinese

#### Unit-IV. Ancient Indian Historical Writings

9. Vaidika, Epic & Paurāṇika Traditions
10. Buddhist Tradition
11. Jaina Tradition

#### Unit-V. Historical Biographies and Chronicles

12. Charit-Kāvya : Harśacharita and Vikramāñikadevacharita
13. Historical Chronicle : Rājataranginī

#### Recommended Reading

- Buddha Prakash, *Itihāsa Darśana* (Hindi), Hindi Samiti Granthmala 56, Lucknow, 1962.
- Carr, E.H., *What is History*, London, 1962, (Also in Hindi).
- Chaubey, Jharkhand, *Itihāsa Darśana*, (Hindi), Varanasi, 1999.
- Collingwood, R.G, *The Idea of History*, Oxford, 1961.
- Ghoshal, U.N., *Studies in Indian History and Culture*, Bombay, 1965.
- Habib, Irfan, *Essays in Indian History, Towards a Marxist Perception*, Delhi, 1995.
- Pande, G.C. (ed.), *Itihās : Svarūpa evam Siddhānta*, Jaipur, 1913.
- Pande, G.C. (ed.), *Itihasa. Darśana*, Jaipur, 1991.
- Pargiter, F.E., *Ancient Indian Historical Tradition*, Delhi, 1972.
- Shaikh Ali, B., *History : Theory and Method*, Macmillan, Madras, 1978.
- Singh, Shivaji, *Models, Paradigm and the New Archaeology*, Varanasi, 1985.
- Thapar, Romila, *The Past and Prejudice*, Delhi, 1975.
- Walsh, W.H., *An Introduction to the Philosophy of History*.
- Warder, A.K., *An Introduction to Indian Historiography*, Bombay, 1972.

## Course VI

### Political History of North India (From 2<sup>nd</sup> Century B.C. to 12<sup>th</sup> Century A.D)

#### Unit-I. Political History : From Indo-Greeks to Kuṣāṇas

1. Indo-Greeks
2. Sakas with special Reference to Mathurā & Ujjayini; Pahlavas
3. The Kuṣāṇas : Kaniṣka I and Huviṣka

#### Unit-II. Imperial Dynasties : from Gupta to Puṣyabhūti

4. Dynastic History of the Guptas : Chandragupta I, Samudragupta & Chandra gupta II
5. Successors of Guptas – Aualikar, Maukharī and Later Gupta with special reference Yaśodharman, Isānavarman & Kumāragupta respectively
6. Hūṇa Invasion
7. Formation of Empire Under Harṣa

#### Unit-III. Dynasties of the Central & Eastern India

8. Historical Background
9. Pratīhāras : Vatsarāja, Nāgabhaṭṭa II & Mihirabhoja
10. Pālas : Dharmapāla & Devpāla
11. Chandellas : Dhaṅga & Vidyādhara
12. Kalachuris : Gāngeyadeva & Lakṣmīkarṇa

#### Unit-IV. Dynasties of Western India

13. Chālukyas : Kumārapāla I
14. Paramāras : Muñja & Bhoja
15. Gāhaḍvālas : Govindachandra & Jaichandra
16. Chāhamānas : Prithvīrāja III

#### Unit-V. Dynasties of North West

17. History of Sind and Punjab
18. Sāhīs of Kabul
19. Karkoṭa and Utpal dynasty of Kashmir
20. India on the eve of Muslim Invasion

#### Recommended Reading

- Aitekar, A.S., *The Rashtrakutas and Their Times*, Poona, 1934.
- Bhatia, P., *The Paramāras*, New Delhi, 1970.
- Bose, N.S., *History of the Chandellas*, Calcutta, 1956.
- Devahuti,A., *Harsha a Political Study*, Delhi, 1970.
- Dwivedi, H.N., *Dilli Ke Tomar* (Hindi), Gwalior, 1973.
- Goyal, S., *Harsha, A multidisciplinary Political Study*, Jodhpur, 2005.
- Majumdar, A.K., *Chaulukyas of Gujarat*, Bombay, 1956.
- Gopal, L., *Economic life in Northern India (700-1200 A.D.)* Varanasi, 1965.
- Niyogi, R., *History of the Gāhadawala Dynasty*, Calcutta, 1959.
- Pathak, V., *Uttara Bharata Kā Rājanitika Itihāsa*, (Hindi), Lucknow, 1973.
- Puri, B.N., *The History of the Gurjara Pratiharas*, Bombay, 1957.
- Ray, H.C., *Dynastic History of Northern India*, Vols.I & II, Calcutta, 1931 & 1936.
- Singh, P.N., *Harṣakālinā Samāja*, Varanasi,
- Singh, P.N., *Prithvīrāja Chauhāna aur Unakā Kāla*, (Hindi), Varanasi.
- Tripathi, R.S., *History of Kanauj*, Delhi, 1959.
- Sastri, K.A.N (ed), *A Comprehensive History of India*, Vol. II : *The Mauryas and Satavahanas*, Calcutta, Orient Longman, 1957.
- Narain, A.K., *From Alexander to Kanishka*, Varanasi, 1967.
- Mukherjee, B.N., *The Rise and Fall of the Kushan Empire*, Calcutta, 1988.

## Course VII

### Historical Writings & Contribution of Individual Scholars

#### Unit-I. Modern Historical Writings -A

1. Positivist: with special reference to August Comte and Ranke
2. Idealist: with special reference to Hegel and Collingwood

#### Unit-II. Modern Historical Writings -B

3. Marxist : Nature and stages of History
4. Post Marxist Historiography: with special reference to Spengler and Toynbee

#### Unit-III. Modern Historical Writings in Indian Context

5. Imperialist : with special reference to James Mill and V.A. Smith
6. Nationalist : with special reference to K.P. Jayaswal and R.C. Majumdar
7. Marxist tradition: Ideas and notions of D.D. Kosambi and R.S. Sharma

#### Unit-IV. A Survey of Post Modern Historiography

8. The idea of Post modernism and its impact upon history writing: A brief survey
9. Subaltern Historiography : Its nature and significance

#### Unit-V. Select Modern Historians

10. A.K. Warder
11. U. N. Ghoshal
12. A.L. Basham
13. V.S. Pathak

#### Recommended Reading

Buddha Prakash . *Itihāsa Darśana*, 1962, Hindi Samiti Granthmala 56, Lucknow, 1962

Choubey . Jharkhande. *Itihāsa Darśana*. (Hindi), Varanasi, 1999

Collingwood, R.G. *The idea of History*, Oxford, 1961.

Dubey, S.R.(ed.) , *Contemporary Historiography : Methodology & Trends* (English & Hindi). Ujjain, 2001.

Pandey G.C. *Itihāsa Svarūpa Evam Siddhānta*, Jaipur, 1993.

Pathak, V.S. *Ancient Historians of India*, Gorakhpur, 1984.

Philips, C.H. (ed.) , *Historians of India, Pakistan and Ceylon*, London, 1961.

Shaikh Ali. B., *History, Its theory and Method*. Macmillan, Madras, 1978.

Walsh, W.H. *An Introduction to the Philosophy of History*, London, 1951.

Gardiner, P., *Theories of History*, Illinois, 1959.

Gooch. G.P., *History and Historians in the Nineteenth Century*, London, 1951

Warder. A.K., *An introduction to Indian historiography*, Bombay, 1972

## Course VIII

### Political History of Deccan and South India upto 13<sup>th</sup> Century A:D.

#### Unit-I. Early kingdoms

1. A brief survey of Chola ,Chera & Pāṇḍya dynasty
2. A brief introduction to Sātavāhanas (Gautamīputra Sātakarī and Vāsiṣṭhīputra Pulumāvi) and their successors

#### Unit-II. Vākāṭaka, Pallava and Early Chālukyas

3. The dynastic history of Vākāṭaka: Pravarasena I, Rudrasena II and Prabhāvatī Gupta
4. The Pallavas of Kāñchipuram : Mahendravarman I & Narasimhavarman I
5. The Chālukyas of Bādāmī : upto Pulakesin II and Vikramāditya II

### **Unit-III: Rāṣṭrakūṭas and later Chālukyas**

6. History of Rāṣṭrakūṭas upto Kṛiṣṇa III
7. Chālukyas of Vengi : Viṣṇuvardhan IV and Vijayāditya III
8. Chālukyas of Kalyāṇī –Someśvara I and Vikramāditya VI

### **Unit-IV. Chola and Pāṇḍya Dynasty**

9. History of Chola : Rājarāja I, Rajendra I and Kulotunga I
10. A brief history of Pāṇḍya dynasty : Jatil Parāntaka Māravarman, Rājśiṁha II, Sundar Pāṇḍya & Māravarman

### **Unit-V. A brief history of other political powers**

11. Yādavas of Devagiri upto Rāmachandra
12. A brief History of Hoyśala dynasty
13. A Brief History of Kākatīya

### **Recommended Reading**

Altekar, A.S., *The Rashtrakutas and their Times*, 1934.

Yopalau, R., *The History of the Pallavas of Kanchi*, 1928.

Majumdar R.C. and Pusalkar, A.D. (eds.) *History and culture of Indian people*, relevant Volumes, 1988.

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## **ELECTIVE COURSES : SPECIALIZATION**

### **Group- A ARCHAEOLOGY**

#### **Course I : World Prehistory**

##### **Unit-I. Prehistory : Scope & Methods of Study**

1. Methods of Study of Prehistoric Remains: Typology; Micro-wear study; Geo-Chronological Principles
2. Stone Age technologies: Important methods of flaking
3. Main tool types of the Palaeolithic, Mesolithic and Neolithic periods

##### **Unit-II. Hunting-gathering Stage of the Pleistocene Period**

4. Origin and evolution of man : archaeological, biological and geological evidence
5. Development and expansion of Lower Palaeolithic technologies: Pebble tools and Acheulian cultures of Africa, Europe and South-east Asia
6. Mousterian Cultures : Middle Palaeolithic remains of Europe and Africa.
7. Culmination of Palaeolithic technology: the Upper Palaeolithic cultures of Europe
8. Palaeolithic cultures of India : Pebble tools and Acheulian traditions; Middle Palaeolithic cultures; Upper Palaeolithic cultures
9. Habitation tendencies of the Acheulians and the late Palaeolithic communities; rock-shelter and open air sites: Bhimbetka, Hunsgi and Paisra

- Unit-III. Early Holocene hunting-gathering Stage**
10. Mesolithic : Climatic changes and technological adaptation concepts; Mesolithic cultures of Europe and West Asia
  11. Microlithic succession: Geo-chronology and cultural sequence of microliths in India
  12. Ecological zones & Patterns of Mesolithic cultures of India : Alluvial plain-Baghor, Chopani-mando, Birbhanpur, Horse-shoe-lake sites, Sarāi-nāhar-rāi, Damdama, Mahdaha and Plateau occupation-Paisra.
  13. Continuity & late survival: Sand-dune landscape adaptation-Langhnaj, Baghor; Rock-shelter sites : Adamgarh, Bhimbetka and Lahariadih
- Unit-IV. Beginnings of food production: A world perspective**
14. Interpretative models for the origin of food production economy
  15. Origin and expansion of Neolithism: Archaeological remains of Neolithic in West Asia and Baluchistan
- Unit-V. Early Farming communities of India**
16. Kashmir, Gaṅgā plain, Vindhya, Kaimur foot-hills, Orissa and Assam
  17. Pastoral communities of Deccan : Ash mound and village sites of Karnataka and Tamil Nadu

#### Recommended Reading

- Agrawal, D.P. and J. Kharakwal, *South Asian Prehistory*, Delhi, 2002.
- Allchin B. & Allchin F.R, *The Rise of Civilization in India & Pakistan*, New Delhi, 1983.
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- Jarrige, Catherine et al. [ed.]. *Mehargarh : Field Reports 1974-1985 From Neolithic Times to the Indus civilization*, Karachi, Pakistan, 1995.
- Jayaswal, V., "Stone Age Technologies in India". *History of Technology in India*, Vol. I, New Delhi, 1997.
- Leakey, L.S.B., *Olduvai Gorge 1959 – 1961*, Volumes I, Cambridge, 1965.
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- Pant, P.C., *Prehistoric Uttar Pradesh*, Delhi, 1982.
- Pappu, Shanti, *Prehistoric Antiquities and personal Lives : the untold story of Robert Bruce Foote*, *Man and Environment*, 33 (1) : 30-50, 2008.
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- Relevant articles of Purattatva, Pragdhara, *Man & Environment*, *Ancient India*.
- Rendell, Dennell & Halim, *Pleistocene & Palaeolithic Investigations in the Soan Valley*, North Pakistan. Oxford.
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- Sharma, G.R. & J.D. Clark (eds.), *Palaeo-environments and Prehistory in the Middle Son Valley*, Allahabad, 1983.
- Sharma, G.R. et al., *From Hunting and Food Gathering to Domestication of Plants and Animals. Beginnings of Agriculture*, Allahabad, 1980.
- Singh, Birendra Pratap, *Early Farming Communities of the Kaimur* (Excavations at Senuwar 1986-87, 89-90), Jaipur, 2004.

- Terra H. De & T.T. Peterson. *The Studies on the Ice-Age in India & Associated Human Cultures*. Washington, 1939.
- Thapar, B.K.. *Recent Archaeological Discoveries in India*, Unesco, 1985.
- Wymer, J.J., *The Palaeolithic Age*, London, 1982, UNESCO, 1985.
- Petraglia, M.. C. Shippon and K. Paddayya., *Life and mind in the Acheulian: a case study from India*, London.
- Pappu, R.S. and S.G. Deo., *Man-Land Relationship during Palaeolithic times in the Kaladgi Basin*, Karnatak, Pune., 1994

## Course II

### Protoshistoric and Early Historic Archaeology of the Indian Subcontinent

- Unit-I. Beginning & Early phase of Copper-Bronze Age**
1. Village communities of North, North-West : Pre- and Early Harappan Cultures of Baluchistan, Afghanistan and Sindh
  2. Pre-early Harappan Cultures of Haryana-Punjab and Rajasthan
- Unit-II. Urban trends in Bronze Age**
3. Bronze Age Urbanization: Concept and theories
  4. Indus-Saraswati Valley Civilization: Origin, extent, chronology, main characteristics, Settlement and town planning, Technologies, Trade & commerce, Script, Religion and State
  5. Decline: Theories of urban decline, Harappan culture in Gujarat and Saurashtra, Late Harappan Cultures in Punjab and Haryana
- Unit-III. Non-Urban Copper using Cultures**
6. Chalcolithic Cultures of Rajasthan
  7. Chalcolithic Cultures of Madhya Pradesh
  8. Chalcolithic Cultures of Maharashtra
  9. Chalcolithic Cultures of U.P., Bihar and Bengal
  10. The Copper using itinerant communities of the Gangetic Plains: Copper hoards and Ochre Colour Pottery
- Unit-IV. Early Iron Age Culture**
11. Early Iron Age Cultures of North India: Painted Grey Ware Cultures, Extent, Chronology, settlement pattern and authorship
  12. Megalithic Culture : Types and Material remains
- Unit-V. Concept and Theories of Iron Age Urbanization**
13. Northern Black Polished Ware Culture, extent, chronology and characteristic traits
  14. Rise of cities in the Gangetic plain

#### Recommended Reading

- Agrawal, D. P. & Chakrabarti, D. K. (eds.), *Essays in Indian Protohistory*, Delhi, 1979.
- Agrawal, D. P., *Archaeology of India*, New Delhi, 1982.
- Agrawal, D.P.& J.S. Kharakwal., *Bronze Age and Iron Age in South Asia*, New Delhi, 2003.
- Allchin, B. & Allchin F. R., *The Rise of Civilisation in India and Pakistan*, London, 1982.
- Allchin, F.R., *The Archaeology of Early Historic South Asia : Emergence of City and States*, Cambridge, 1995.
- Also Relevant articles/communications in *Purātattva, Man and Environment, Pragadhara, Ancient India and Indian Archaeology-A Review*.
- Asthana, Shashi, *Pre-Harappan Cultures of India and the Borderlands*, New Delhi, 1985.
- Chakrabarti, D. K., *The Early use of Iron in India*, Oxford University Press, 1992.
- Dhavalikar, M. K. , H. D. Sankalia and Z. D. Ansari, *Excavations at Inamgaon*, Pune, 1988.

- Dhavalikar, M.K., *Indian Proto-history*, New Delhi, 1997.
- Gaur, R. C., (ed.), *Painted Grey Ware*, Jaipur, 1994.
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- Jarrige, Catherine et al. (eds.), *Mehrgarh, Field Reports 1974-1985. From Neolithic Times to the Indus civilization*, Karachi, 1995.
- Joshi, Jagat Pati. *Harappan Architecture and Civil Engineering*, Rupa and Co. New Delhi, 2008.
- Lal, B.B., *Excavation at Sringverapura*, 1977-86. Archaeological Survey of India. New Delhi, 1993.
- Chakrabarti, D.K., *Oxford Companion to Indian Archaeology*, OUP, New Delhi, 2007
- Lal, B. B. and S. P. Gupta (eds.), *Frontiers of Indus Civilisation*, New Delhi, 1984.
- Lal, B.B., *The Earliest Civilization of South Asia*, New Delhi, 1997.
- Lal, B.B., *How Deep are the Roots of Indian Civilization ? Archaeology Answers*, Aryan Books International, New Delhi, 2009.
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- Narain, A. K. et al., *Excavations at Rajghat*, B. H. U., 1976 & 1977.
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- Rao, S. R., *Lothal. A Harappan Port Town-1955-62*, A. S. I., New Delhi, 1985.
- Sali, S. R., *Daimabad*, 1976-79, A.S.I., New Delhi, 1986.
- Sankalia, H.D. et al., *Chalcolithic Navdatoli*, Pune, 1971.
- Sharma, G.R., *The Excavations at Kausambi (1949-50)*, Delhi, 1969.
- Singh, B.P., *Early Forming Communities of the Kaimur (Excavations at Senuwar 1986-87, 89-90)*, Jaipur, 2004.
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- Sinha, B.P. & S.R. Roy, *Vaisali Excavations 1958-62*, Patna, 1969.
- Sinha, K.K., *Excavations at Sravasti, 1959*, Varanasi.
- Tripathi, Vibha., *The Age of Iron in South Asia : Legacy and Tradition*, Delhi, 2001.
- Tripathi, Vibha., *The Painted Grey Ware and Iron Age Culture of Northern India*, Delhi, 1976.
- Chakrabarti, D.K., *India An Archaeological History*, Oxford University Press New Delhi, 2010.
- Mcintosi, Jane R., *The Ancient Indus Valley, New Perspectives* : California, 2008.
- Ratnagar, Shereen, R., *Understanding Harappa, Civilization in the Greater Indus Valley*, Tulika, New Delhi, 2001.
- Kenoyer, Jonathan Mark., *Ancient Cities of the Indus Valley Civilization*, Karachi . Oxford University Press and American Institute of Pakistan Studies, 1998.
- Singh, Upinder, *A History of Ancient and Early Medieval India*, Delhi, 2009.
- Lal, B.B., *The Saraswati Flows on : The continuity of Indian Culture*, Aryan Books International, New Delhi, 2002.
- Agrawal, D.P., *Ancient Metal Technology and Archaeology of South Asia : A pan-Asian Perspective*, Aryan Books International, New Delhi, 2000.
- Tripathi, Vibha and Ajeet K. Srivastava, *The Indus Terracottas*, Sharada Publishing House, New Delhi, 1994.
- Singh, Purushottam, *Archaeology of Middle Ganga Plain*, New Delhi, 2010.

## Course IV

### **Principles & Methods of Archaeology**

#### **Unit-I. History & Growth of Archaeology**

1. History of archaeology from 19th century till the present: Development of field techniques; growth of archaeology as scientific discipline
2. History of Indian archaeology: From A. Cunningham to M. Wheeler
3. Archaeology of Post Independence India: contribution of institutions and individuals

#### **Unit-II. Methods of data retrieval**

4. Field discoveries: Aims and methods of Explorations, Chance discoveries. Map and satellite image studies; Village to village survey
5. Unearthing the sites: Planning excavations, Layout, Techniques of Excavations—Vertical and Horizontal
6. Excavation of sites : rock-shelter, burial, city and others
7. Retrieval of botanical & other non-artifactual remains : Floatation technique. Nitrogen analysis, soil analysis and Phosphate chemical tests
8. Under water archaeology: Indian studies

#### **Unit-III. Chronology & dating methods**

9. Stratigraphy: Principles of stratification; Factors and process of formation of layers; Identification & recording of strata; Reconstruction of culture sequence
10. Methods of Relative chronology: Typology; Statistical studies
11. Absolute methods of dating : Radiocarbon, Potassium-argon. Thermoluminescence. Pollen analysis, Fluorine test, Obsidian hydration and Dendro Chronology

#### **Unit-IV. Documentation & Reconstruction of the past**

12. Recording of the excavated remains : Antiquities, Coding of sites. Marking of findings. Preparation of sections and Three dimensional recording
13. Classification of artifacts and other methods of recording details of studied sites
14. Models and approaches: Site formation process ; Site catchment
15. Analysis; Settlement studies; Ethno-archaeology
16. New Archaeology: Main trends and it's application in India
17. Preparation of the reports of the archaeological discoveries
18. Principles of Conservation and Preservation of archaeological, structures & artifacts

#### **Unit-V. Practical**

19. Methods of recording the contexts of excavated remains
20. Determining the chronology and periods of the excavated remains
21. Drawing and photography of artifacts, architectural remains and other excavated contexts

#### **Recommended Reading**

- Atkinson, R.I.C., *Field Archaeology*, London, 1952.
- Binford, L. R., *An Archaeological Perspective*, London, 1972.
- Brill, Robert H. (ed.), *Science and Archaeology*, Cambridge, 1971.
- Brothwell, D. R. & S. E. Higgs (eds.), *Science in Archaeology*, London, 1969.
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- Clark, David, *Analytical Archaeology*, London, 1968.
- Daniel, G. A., *Hundred Years of Archaeology*, London, 1950.
- Daniel, G., *The Origin and Growth of Archaeology*, London, 1967.

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 Piggott, S., *Approach to Archaeology*, New-York, 1965.  
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 Srivastava, K. M., *New Era of Indian Archaeology*, New Delhi, 1982.  
 Tripathi, Sila, *Maritime Archaeology for Beginners*, Kaveri Books, New Delhi, 2009.  
 Wheeler, M., *Archaeology from Earth*  
 Yellen, John., *Archaeological Approaches to the Present*, New York, 1977.

### Course **III**

#### Environmental Archaeology & West Asian Archaeology

##### **Unit-I. Introduction**

1. A brief account of history of evolution of earth
2. The Human Era-Quaternary : Pliocene – Pleistocene boundary and divisions
3. Main climatic features of Pleistocene and Holocene

##### **Unit-II. Principles of Quaternary Stratigraphy**

4. Formations : Morains, River terraces, Loess, Frost Soil and Sand dune
5. Soils : definition, building process and types
6. Palaeo - Zoology and Pleistocene climate
7. Palaeo - Botany and Pleistocene climate

##### **Unit-III. Climatic reconstruction of Stone Age**

8. Pleistocene climate of Europe : Ice Age cycles
9. Pleistocene & early Holocene climate of Africa : Pluvial cycles
10. Quaternary evidence of India : Belan Valley, Sohan Valley, Son Valley, Narmada Valley and Didwana

##### **Unit-IV. West Asian Archaeology**

11. Earliest Settlements (9<sup>th</sup> -5<sup>th</sup> millennium B.C.) : A brief outline of the Early Village Farming Communities
12. Important sites : Jericho, Jarmo, Çatal Hüyük, Cayonu, Tepe Gurian, Hacilar and Gyan

##### **Unit -V. Chalcolithic Cultures of West Asia**

13. Chalco Cultures of Iraq : Hassuna, Samarra, Halaf, Ubaid & Jamdet Nasr Cultures; Uruk
14. Chalcolithic Cultures of Iran: Type Yahya, Shahar-I-Sokhta, Sialk and Hissar
15. Pre-Dynastic Archaeology of Mesopotamia : Sumerian Origins, Rise of Early-states and Trade contacts with Indus Valley

##### **Recommended Reading**

- Butzer, K.W., *Environment and Archaeology*, Chicago, 1964.  
 Burroughs, William J., *Climate Change in Prehistory*, Cambridge, 2005.  
 Edwards, Gadd and Hammond (eds.), *The Cambridge Ancient History*, Vol. I, Part-I, Chapters VII, VIII and IXB, Cambridge University Press, 1970.  
 Ehrich, R.W. (ed.), *Chronologies in the Old World Archaeology*, Chicago & London, 1965.  
 Mallowan, M.E.L., *Early Mesopotamia and Iran*, London, Thames & Hudson, 1965.  
 Mc Cown, D.F., *The Comparative Stratigraphy of Early Iran*, SAOC No. 23, Chicago University Press, 1968.  
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 Ganjoo, R.K., "The Plio-Pleistocene Boundary in India : A Re-appraisal". *Man and Environment*, 15 : 29-34, 1990.  
 Kajale, M.D., *Some Initial Observations on Palaeobotanical Evidence for Mesolithic plant Economy from excavation at Damdama, Pratapgarh, Uttar Pradesh*, Santiniketan, 1990.

### ✓ Group- B

## ART & ARCHITECTURE

### Course I

#### ↳ Historical Account of Early Indian Architecture

- Unit-I. Terminologies and methods of study
  - 1. Understanding architecture : Plan, Elevation and Section, Arches, Vaults, Domes, Pillars and Capitals
  - 2. Types of Architecture : Secular and Religious
- Unit-II. Proto-historic to Mauryan Period
  - 3. Town-Planning and Architecture of Harappa, Mohenjodaro, Kalibangan and Lothal
  - 4. Glimpses of Architecture as depicted in Vaidika Literature
  - 5. Town-planning as depicted in Sañskrit Literature with special reference to Kauṭilya's *Arthaśāstra*
  - 6. Mauryan town - planning & architecture : Pāṭaliputra & Rājagrha
- Unit-III. Origin and Evolution of Stūpa architecture
  - 7. Characteristic features of North Indian Stūpa architecture
  - 8. Bharhut
  - 9. Sānchi
  - 10. Mathurā and Sarnath
- Unit-IV. Stūpa of Deccan and South India
  - 11. Amarāvati
  - 12. Nāgārjunakonda
  - 13. Sannati
- Unit-V. Origin and Development of Rock-Cut Architecture
  - 14. Barābara - Nāgārjunī Caves

15. Hīnayāna Vihāra and Chaityagṛha
16. Mahāyāna Vihāra and Chaityagṛha
17. Brahmanical Caves—Ellora and Elephanta
18. Jaina Caves—Orisa (Udayagiri and Khandagiri) and Ellora

#### Recommended Reading

- Agrawala, P. K., *Prāchīna Bhāratīya Kalā evam Vāstu*, Varanasi, 2002.
- Agrawala, V. S., *Heritage of Indian Art*, New Delhi, 1964.
- Agrawala, V. S., *Studies in Indian Art*, Varanasi, 1965.
- Brown, P., *Indian Architecture* (Buddhist and Hindu Period), Vol. I. (Relevant portions), Bombay, 1971.
- Fergusson, J., *History of Indian and Eastern Architecture*, Delhi, 1994.
- Hartle, J. C., *Art & Architecture of the Indian Subcontinent*, London, 1986.
- Majumdar, R.C. (ed.), *History and Culture of Indian People*, (Relevant Volumes and Chapters), Bharatiya Vidya Bhavan Series, Bombay, 1984, 1988, 1989.
- Rowland, B., *Art & Architecture of India*, Harmondsworth, 1970.

### Course **III**

#### Historical Account of Indian Sculpture and Painting upto Gupta

##### **Unit-I. Understanding Art**

- ✓ 1. Types, medium, factors contributing to art activities and principles of appreciation
- 2. Introduction to rock-paintings, Symbols & Symbolism in Indian art

##### **Unit-II. Proto-historic to Mauryan Period.**

3. Indus Valley Sculpture : Stone, Terracotta and Metal figures
4. Seals and Sealings
5. Terracotta Art of Early Historic period
6. Mauryan Pillar-Capital Figures
7. Early Yaksha Statues

##### **Unit-III. Suṅga & Sātavāhana Art**

8. Sculptures of Bharhut, Bodhgayā and Sanchi
9. Suṅga Terracotta
10. Sculpture of Amaravati, Jaggayapeta and Nāgārjunkonda

##### **Unit-IV. Art of Kuśāṇa Period**

11. Matūrā school of Kuśāṇa Sculpture
12. Gāndhāra school of Kuśāṇa Sculpture
13. A brief survey of Kuśāṇa Terracottas

##### **Unit-V. Gupta Period**

14. Stone Sculpture : Styles of Mathurā, Sarnath and Udayagiri
15. Terracotta—A brief survey
16. Metal figures
17. Cave Paintings of Ajanta and Bagh

#### Recommended Reading

- Agrawala, P. K., *Prāchīna Bhāratīya Kalā evam Vāstu*, Varanasi, 2002.
- Agrawala, P.K., *Gupta-kālīna Kalā evam Vāstu*, Varanasi, 1994.
- Agrawala, V. S., *Heritage of Indian Art*, New Delhi, 1964.
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- Agrawala, V. S., *Studies in Indian Art*, Varanasi, 1965.
- Coomarswamy, A.K., *History of Indian and Indonesian Art*, London, 1927
- Grunwedel, *Buddhist Art of India*, New Delhi, 1972.

- Harle, J. C., *Art and Architecture of the Indian Subcontinent* (Pelican Art History Series), London, 1986.
- Kramrisch, S., *Indian Sculpture*, Calcutta, 1933 (Reprint edn.)
- Majumdar, R. C. & A.D. Pusalkar (eds.), *History and Culture of Indian People*, Bharatiya Vidya Bhawan Series, Vols.I to IV (Relevant portions), Bonibey, 1980-1989.
- Rowland, Benjamin, *The Art & Architecture of India*, London, 1970.
- Ray, N.R., *Maurya & Sunga Art*, Calcutta, also Hindi version.
- Saraswati, S.K., *A Survey of Indian Sculpture*, Calcutta 1956, (Reprint edn.).
- Sivaramamurti, C., *Indian Painting*, Delhi, 1970, 2nd edn. 1996.
- Sivaramamurti, C., *Indian Sculpture*, Delhi, 1961.

### **Course IV**

#### **Sculptural Styles & Iconography of Early Medieval India**

##### **Unit-I. North Indian Styles**

1. Pāla (including bronzes)
2. Chandella
3. Orissa

##### **Unit-II. South Indian Styles**

4. Chālukya
5. Pallava (including Browzes)
6. Rāṣṭrakūṭa
7. Chola (including bronzes)

##### **Unit-III. Iconography of Major Hindu Deities**

8. Śiva
9. Viṣṇu

##### **Unit-IV. Iconography of Minor Deities**

10. Devī
11. Sūrya
12. Gaṇeśa
13. Kārttikeya

##### **Unit-V. Iconography of Buddhist & Jaina Deities**

14. Dhyānī Buddhas
15. Avalokiteśvara
16. Prajñāpāramitā
17. Tārā
18. Main features of the Tīrthaṅkara Images

#### **Recommended Reading**

- Agrawala, V. S., *Heritage of Indian Art*, New Delhi, 1964.
- Agrawala, V. S., *Studies in Indian Art*, Varanasi, 1965.
- Agrawala, P. K., *Prāchīna Bhāratīya Kalā evam Vāstu* (Hindi), Varanasi, 2002.
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- Bhattacharya, B.C., *Jain Iconography*, Delhi, 1974.
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- Krameisch, S., *Indian Sculpture*, Calcutta, 1933.  
 Majumdar, R. C. & A.D. Pusalkar (eds.), *History and Culture of Indian People*, Bharatiya Vidya Bhavan Series, Vols. I to IV (Relevant portions, 1980-1989).  
 Rowland, Benjamin, *The Art & Architecture of India*, London, 1970.  
 Sivaramamurti, C., *Indian Sculpture*, Delhi, 1961.

## Course **II**

### Origin & Development of Ancient Indian Temples

#### **Unit-I. Origin & Development of early temples**

1. Introduction: Terminologies, architectural components, medium and techniques of construction
2. Main styles of temples : Nāgara, Vesara and Drāviḍa
3. Gupta Temples

#### **Unit-II. Temples of North India**

4. Temples of Khajurāho
5. Temples of Orissa

#### **Unit-III. Temples of Western -India**

6. Temples of Osian
7. Vimalavasahī and Lūṇavasahī of Abu
8. Sun Temple of Modhera
9. Ajitanātha Temple of Taranga ✓

#### **Unit -IV. Temples of South-India**

10. Early Chalukyan Temples of Aihole, Badami and Pattadakal
11. Rāṣṭrakūṭa Temples—Kailāśa Temple of Ellora
12. Pallava Rathas and Structural Temples
13. Chola Temples

#### **Unit-V. Practical-Preparation of Plan and Elevation of Architecture, iconographical and stylistic Identification of the Terracotta and Sculpture**

##### **Recommended Reading**

- Agrawal, P. K., *Gupta Temple Architecture*, Varanasi, 1981.  
 Agrawal, P. K., *Guptakālīna kalā evam Vāstu* (Hindi.), Varanasi, 1994.  
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## Group - C

### EPIGRAPHY & PALAEOGRAPHY

#### Course I

##### Beginnings of Indian Script and Epigraphs

###### **Unit-I. Introduction**

1. Meaning and scope of Palaeography & Epigraphy
2. Epigraphy as a source of History
3. Types of Records
4. A comparative assessment with other sources
5. Historiography

###### **Uni -II. Origin and antiquity of writing**

6. Origin of script and antiquity of writing
7. Literary evidence regarding writing in Ancient India.

###### **Unit-III. Origin of Indian scripts and seals**

8. The Indus script: concept and problems of decipherment and the possible linkage with the Brāhmī script
9. Nature of the Brāhmī script and theories regarding its origin
10. Origin and development of the Kharoṣṭhī script

###### **Unit-IV. Materials, Types and Techniques of making records**

11. Materials of writing : medium and tools of writing
12. Types of Records
13. Techniques and preservation of records

###### **Unit -V. Decipherment of Early Brāhmī Inscription and their significance**

14. Barli inscription
15. Sohagaurā copper plate inscription, Sircar, SI, Book 1, No. 47
16. Mahāsthāna Fragmentary inscription, Sircar, SI, Book 1, No. 45
17. Piprahavā Buddhist Vase inscription, Sircar, SI, Book 1, No. 46

\* Students are required to decipher & transcribe the prescribed inscriptions.

#### Recommended Reading

Bajpai, K.D. et al., *Aitihāsika Bhāratīya Abhilekha* (Hindi), Jaipur, 1992.

Buhler, G., *Indian Palaeography*, Calcutta, 1959.

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Gupta, P.L., *Prāchīna Bhārata Ke Pramukh Abhilekha*, Khand I (Hindi), Varanasi, 1982.

Narain, A.K. and Verma, T.P., *Prāchīna Bharatiya Lipiśāstra aura Abhilekhikī* (Hindi), Varanasi, 1972.

Ojha, G.H., *Bhāratīya Prāchīna Lipimālā* (Hindi), New Delhi, 1971.

Sircar, R.B., *Indian Palaeography*, Varanasi, 1969.

Sircar, D.C., *Select Inscriptions*, Vol. I, Calcutta, 1965.

Sircar, D.C., *Indian Epigraphy*, Varanasi, 1965.

Verma, T.P., *The Palaeography of Brāhmī Script in Northern India*, Varanasi, 1971.

## Course II

### Scripts and Epigraphs from Maurya to Kuśāṇa Period

#### Unit-I. Introduction

1. Geographical background
2. General features of Maurya to Kuśāṇa Epigraphs
3. Development of Scripts : Maurya to Kuśāṇa

#### Unit II. Eras and Dating System

4. Vikram Samvat
5. Śaka Samvat

#### Unit III. Decipherment and Historical significance of Aśokan Epigraphs

6. Bairāt Edict, Sircar, SI, Book 1, No. 37
7. Twelfth Rock edict, Sircar, SI, Book 1, No. 17
8. Thirteenth Rock edict, Sircar, SI, Book 1, No. 18 .
9. First separate Rock edict (Dhauli Version). Sircar, SI, Book 1, No. 20

#### Unit IV. Decipherment and Historical Significance of Chedi, Sātavāhana and Ikṣvāku Epigraphs

10. Hāthigumphā inscription of Khāravela, Sircar, SI, Book II, No. 31
11. Nāsik inscription of Vāsiṣṭhīputra Pulumāvi, Sircar, SI, Book II, No. 86
12. Nāgārajunikonḍa inscription of Vīrapuruṣadatta, Sircar, SI, Book II, No. 100

#### Unit V. Decipherment and Historical Significance of Śaka and Kuśāṇa Inscriptions

13. Taxila Plate of Patika, Sircar, SI, Book II, No. 27
14. Shinkota steatite casket inscription, Sircar, SI, Book II, No. 14
15. Nasik cave inscription of the time of Nahapāna, Sircar, SI, Book II, No. 59
16. Junagarh inscription of Rudradāman, Sircar, SI, Book II, No. 67
17. Rābtaka inscription of Kaniṣka year Ist, Indian Museum Bulletin, Kolkata, 1995
18. Mathura inscription of Hūviṣka -Year 28, Sircar, SI, Book II, No. 49

\* Students are required to decipher & transcribe the prescribed Brāhmī inscriptions only.

#### Recommended Reading

Buhler, G., *Indian Palaeography*, Calcutta, 1959.

Dani, A.H., *Indian Palaeography*, London, 1963.

Dasgupta, C.C., *The Development of Kharosthi Script*, Culcutta, 1958.

Goyal, S.R., *Prāchīna Bhāratīya Abhilekha Sangraha* (Hindi), Jaipur, 1982.

Gupta, P.L., *Prāchīna Bharata Ke Pramukha Abhilekh*, Khand-I (Hindi), Varanasi, 1982.

Ojha, G.H., *Bhāratīya Prāchīna Lipimālā* (Hindi), New Delhi, 1971.

Pandey, R.B., *Indian Palaeography*, Varanasi, 1969,

Sircar, D.C., *Select Inscriptions*, Vol. I, Calcutta, 1965.

Verma, T.P., *The Palaeography of Brahmi Script in Northern India*, Varanasi, 1971.

## Course III

### Scripts and Epigraphs of Guptas and Vākāṭakas

#### Unit-I. Introduction

1. Geographical Background
2. General features of Gupta and Vākāṭaka Epigraphs

**Unit-II. Development of Scripts**

3. Gupta Brāhmī
4. Vākāṭaka Brāhmī

**Unit-III. Eras and Dating system**

5. Dating Methods
6. Eras used in inscriptions: Gupta and kalchuri Samvat

**Unit-IV. Decipherment and Historical Significance of Gupta and Vākāṭaka inscriptions**

8. Allahabad Pillar Inscription of Samudragupta, Sircar, SI, Vol. I, Book-III No. 2
9. Udaigiri Cave Inscriptions of the time of Chandragupta II., SI, Vol. I., Book-III, No. 10-11
10. Mandsaur stone inscription of the time of Kumāragupta and Bandhuvarman, Sircar, SI., Vol. I, Book-III, No 24
11. Junagarha Stone Inscription of Skandagupta, Sircar, SI, Vol. I, Book-III, No. 25
12. Kahum Stone Pillar Inscription of the time of Skandgupta, Sircar. SI., Vol. I. Book III, No.26
13. Poona Copper Plates of Prabhāvatīguptā, Sircar, SI, Vol. I, Book III, No. 60
14. Siwani Copper Plates of Pravarsena II, CII, Vol. III, No. 56.

**Unit-V. Practical**

\* Students are required to Decipher and transcribe the prescribed inscriptions and the Epigraphs of different Period and also take *Stamp page* of Inscriptions.

**Recommended Reading**

- Agrawala, P.K., *Imperial Gupta Epigraphs*, Varanasi, 1983.  
Bajpai, K.D. et al., *Aitihāsika Bhāratīya Abhilekh*, Jaipur, 1992.  
Buhler, C., *Indian Palaeography*, Calcutta, 1959.  
Dani, A.H., *Indian Palaeography*, London, 1963.  
Fleet J.F., *Inscriptions of the Early Gupta Kings and their successors. Corpus Inscriptionum Indicarum*, Vol. III, 1881.  
Goyal S.R., *Guptakālīna Abhilekh* (Hindi), Jodhpur, 1984.  
Gupta, P.L., *Prāchīna Bharata Ke Pramukha Abhilekha*, Part II, Gupta Peiod, Varanasi, 1983.  
Ojha, G.H., *Bhāratīya Prāchīna Lipimālā* (Hindi), New Delhi, 1971. (Reprint).  
Sircar D.C., *Studies in Indian Epigraphy*, Varanasi, 1965.  
Sircar, D.C., *Select Inscriptions*, Vol. I, Calcutta, 1965

**Course IV****Scripts and Epigraphs of Post Gupta and Early Medieval Period****Unit I. Introduction**

1. Geographical background
2. General features of Post Gupta and early medieval Epigraphs

**Unit II. Development of Scripts**

3. Kuṭīla Script
4. Proto-Nāgarī and Nāgarī Script

**Unit III. Historical significance of Inscriptions of Later Gupta, Maukhariś and Aulikara**

5. Harahā Inscription of Isānavarman, E.I. XIV, No. 5
6. Aphṣad Inscription of Ādityasena, CII, Vol. III, No. 42
7. Mandsaur stone Pillar Inscription of Yásodharmana, CII, Vol. III, No. 33

**Unit IV. Inscriptions of Puṣyabhūtis, Chālukyas of Badāmi**

8. Bānskhera Plates of Harṣa, EI, IV, No. 1
9. Aihole Inscription of Pulakeśin II, E1, VI, No. 1

**Unit V. Inscriptions of Early Medieval Period**

10. Gwalior Inscription of Mihirabhoja, EI, XVIII, No. 13
11. Khajurāho inscription of Dhangdeo, EI
12. Udaipur Praśasti of Udayāditya, EI, I
13. Khālimpur Inscription of Dharmapāla, E1, IV
14. Sanjan copper plates of Amoghavarṣa, E1, XVIII

\* Students are required to decipher & transcribe the prescribed inscriptions of Unit Nos. III & IV.

**Recommended Reading**

- Buhler G., *Indian Palaeography*, Calcutta, 1959.  
 ✓ Dani A.H., *Indian Palaeography*, London, 1963.  
 Ojha, G.H., *Bhāratīya Prāchīna Lipimālā* (Hindi), New Delhi, 1971 (Reprint).  
 Sircar, D.C., *Indian Epigraphy*, Varanasi, 1965:  
 Sircar D.C., *Select Inscriptions*, Vol. II, Calcutta, 1983.  
*Epigraphia Indica*, Relevant Volumes.  
 Goyal S.R., *Maukhari-Puṣyabhūti-Chālukya Yugīna Ābhilekha* (Hindi), Jodhpur, 1993.  
 Bajpai, K.D. et al., *Aitihāsika Bhāratīya Abhilekha*, Jaipur, 1992.  
 Terivedi, H.C.V., *Inscriptions of the Paramāras, Chandellas Kachchhapaghātas and Two Minor Dynasties* (In Three parts).

### Group-D

## NUMISMATICS

### Course I

#### Numismatography and Beginning of Coinage

**Unit-I: Introduction**

1. Definition of Numismatic and scope
2. Origin and evolution of coinage in India
3. Coins as source of History
4. The role of Monetisation

**Unit-II: Nomenclature, Minting Right and Techniques of Coin making**

5. Terminology used in Numismatic studies
6. Types and classification of hoards and stray finds
7. Right of Minting coins
8. Techniques of coin-making

**Unit-III: Early Indian Coins**

8. Punchmarked coins
9. Distribution
10. Chronology & Dating
11. Symbols

12. Classification

13. Cast Coins and Die struck coins

**Unit-IV: Local Coins**

14. Taxilā Coins

15. Kauśāmbī coins

16. Ayodhyā coins

17. Pāñchāla Coins

**Unit-V. Coins of tribals and other Local Rulers**

18. Audumbara Coins

19. Yaudheya Coins

20. Mālava Coins

21. Kuṇinda Coins

22. Ārjunāyana Coins

23. Coins of Maghas

24. Coins of Nāgas

\* Students are required to identify coins prescribed above.

**Recommended Reading**

"A Comparative Study of the Patraha (Purnea) Hoard of Silver Punch-marked Coins", JNSI, IV.

"Punch-marked Coins from Taxila", MASI, 59.

Allan, J., Catalogue of the Indian Coins in the British Museum. London, 1914.

✓Altekar, A. S., "Origin and Early History of Coinage in Ancient India", JNSI, XV. pp. 1-26.  
Bela Lahiri, Indigenous States of Northern India, 1974.

Bhandarkar, D. R., Carmichael Lectures on Ancient Indian Numismatics, Calcutta, 1921.

Bhattacharya, P. N., "A Hoard of Silver Punch-marked coins from Purnea", MASI, 62, Delhi, 1940.

✓Chakraborty, S. K., A Study of Ancient Indian Numismatics, Calcutta, 1973.

✓Chattopadhyay, B., The Age of the Kushanas : A Numismatic Study, Calcutta, 1977.

Cunningham, A., Coins of Ancient India, Varanasi, 1974.

Dasgupta, K. K., A Tribal History of Ancient India, A Numismatic Approach..Calcutta. 1974.

Durga Prasad, "Silver punch marked coins of Ancient India" NS, 45 & 45.

✓Goel, S.R., Coinage of Ancient Indian, Jodhpur, 1995..

Gopal, L., "The right of minting coins in ancient India", JNSI, XXII.

Gupta, P. L. and Hardaker, T.R., Ancient Indian Silver Punch-marked Coins of the Magadh – Maurya Karshapana Series, Nasik, 1985.

Gupta, P. L., The Amaravati Hoard of Silver Punch-marked coins, Hyderabad, 1963.

Gupta, P.L., Coins – The Source of Indian History. Delhi. 1969.

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Kosambi, D D., Indian Numismatics, Delhi, Orient Longman, 1981.

Narain A. K. & Gopal, L. (eds.), Seminar papers on the Chronology of Punch-marked Coins. Varanasi. 1966.

Narain, A. K. Seminar Papers on the Local Coins of Northern India, Varanasi, 1968.

Prasad, D. "Classification and Significance of the symbols on the silver Punch-marked coins of Ancient India", JNSI, XIV and XLVII.

Shastri, A.M. Kausambi Hoard of Magha Coins, Nagpur, 1979.

Shastri., A.M., Catalogue of the coins of the Maghas, 1979.

Singh, J. P. and N. Ahmad, Seminar Papers on the Tribal Coins of Ancient India, Varanasi, 1977.

Thaplayal K.K., Studies in Ancient Seals, Lucknow, 1972.

Trivedi, H.V., Catalogue of the Coins of the Naga Kings of Padmavati, Gwalior, 1957.

- Walsh, E. H. C. "Punch-marked Silver Coins, Their Standard of Weight, Age and Minting".  
*JRAS*, 1937.  
Walsh, E. H. C. "Paila Hoard of Punch-marked coins", *JNSI*, II.

## Course II

### Coinage of Rulers of Foreign Origin

#### **Unit-I. Introduction**

1. History of Numismatic studies
2. Chief characteristics of coins
3. Importance of coins for reconstruction of History
4. A brief survey and significance of Seals and Sealings

#### **Unit-II. Indo-Greek and Roman Coins**

5. Coins of Indo-Greek Rulers : Euthydemus, Demetrius, Eucratides, Diodotus, Menander, Agathacles and Strato; Commemorative and joint issues
6. Roman Coins

#### **Unit-III. Coinage of Śakas, Pahlavas and Western Kṣatrapas**

7. Mathura
8. Ujjaini
9. Maharashtra
10. Taxila
11. Coins of Pahlavas

#### **Unit-IV. Kuṣāṇa Coins -A**

12. Kujul Kadphises
13. Vim Kadphises
14. Problem of Sotar Megas
15. Kanishka I

#### **Unit V. Kuṣāṇa Coins- B**

16. Huviṣka
17. Vāsudeva
18. Kidāra Kuṣāṇa

\* Students are required to identify coins prescribed above and may be taken for study tour to visit various museums

#### **Recommended Reading**

Gardner P., *Cat of the Coins in British Museum, Greek & Suthik Kinos of Bactria & India*, 1886.

Bopearachchi, O., *Indo-Greek, Indo-Scythian and Indo-Parthian Coins in the Smithsonian Institution*, Delhi, 1993.

Dani, A. H., *Bactrians and Indo Greeks- A Romantic Story from their coins*, Lahore, 1990.

Elliot, *Coins of Southern India*, Varanasi, 1973.

Gupta, P. L., *The Roman Coins from Andhra Pradesh Govt. Museum*. Hyderabad. 1965.

Gupta, P.L., *Bharata Ke Pūrva Kālika Sikke*, Varanasi, 1996.

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- Lahiri, A. N., *Indo-Greek Coins* (Section on Metrology only), Calcutta, 1995.  
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 Narain, A. K., *Greek-Bhārtīya athavā Yavana*, Varanasi, 1996.  
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 Rapson, E. J., *A Catalogue of The Indian Coins in The British Museum - Coins of the Andhra Western Kshatrapas Dynasty*, London, 1968.  
 Sharma, I. K., *Coinage of the Satavahana Empire*. Delhi, 1980.  
 Shastri, A. M., (ed.), *Coinage of the Satavahanas and coins from Excavation*, Nagpur, 1972.  
 Thapalyal, K.K., *Studies in Ancient Indian Seals*, Lucknow, 1972.  
 Cunningham, A., "Second notice of some Forged Coins of Bactrian and Indo-Scythian", *JASB*, IX.  
 Mitterwalness, G.V., *Kushana coins and Sculptures*, Mathura, 1986.  
 Sahani, Birbal, *The Technique of Casting Coins in Ancient India*, Varanasi, 1945.

### **Course -III**

#### **Sātavāhana and Gupta Coins**

- Unit I. Introduction**
  - 1. Survey of Literature; Coins as a source of History
  - 2. Salient features of Sātavāhana and Gupta Coins
  - 3. A Survey and Significance of Seals and Sealings
- Unit-II. Coins of Sātavāhana**
  - 4. Sātkarṇi I & II
  - 5. Goutmīputra Sātakarṇī
  - 6. Vāsiṣṭhīputra Pulumāvī
  - 7. Vāsiṣṭhīputra Sātakarṇī
  - 8. Yagñā Śrī Sātakarṇī
- Unit III. Gupta Gold Coins**
  - 9. Chandragupta I and Kumāra Devī type
  - 10. Samudragupta
  - 11. Kācha
  - 12. Chandragupta II
  - 13. Kumāragupta I
  - 14. Skandagupta
  - 15. Successors of Skandagupta
- Unit IV. Gupta Silver and Copper coins**
  - 16. Chandragupta II
  - 17. Rāmagupta
  - 18. Kumāragupta
  - 19. Skandagupta
  - 20. Budhgupta
- Unit V. Practical**
  - 21. Measuring
  - 22. Weighing
  - 23. Plaster-Cast Making
  - 24. Conservation & Preservation
  - 25. Specific Gravity
  - 26. Cataloguing

### **Recommended Reading**

- Allan, *Catalogue of the British Museum*, Gupta Dynasty, 1936.  
Altekar, A.S., *Coinage of the Gupta Empire*, Varanasi, 1957.  
Altekar, A.S., *Gupta kālīn Mudrāyen*, Patna, 1914.  
*Catalogue of the Gupta gold Coins in the Beyana Hoard*, Bombay, 1954.  
Ellen M. Raven, *Gupta Gold Coins with a Garuda Banner*, 1994.  
Gupta, P.L., *Bharata Ke Pūrva Kālīka Sikke*, 1996.  
H.de S., "The Detection of coins Forgeries in N.W. India", *JNSI*, XXVI, pp. 145-74.  
Lal, B.B., "Chemical Preservation of Ancient Objects", *Ancient India*, 18-19.  
P.L. Gupta & S. Srivastava., *Catalogue of Gupta gold Coins in the Bharat Kala Bhavan*,  
B.H.U., Varanasi, 1951.  
Smith, *Catalogue of the coins in the Indian Museum*, Part Ist, 1906.  
Thakur, U., *Mints and Minting in India*, Varanasi, 1972.

### **Course IV**

#### **Post Gupta and Early Medieval Coinage**

##### **Unit-I. Introduction**

1. Currencies of Early medieval Period: Position, Sources and Historiography
2. A Survey and Significance of Seals and Sealing

##### **Unit-II. Maukhariṣ, Vardhan and Bengal Coins**

3. Gupta Imitations
4. Coins of Maukhariṣ
5. Coins of Vardhan dynasty
6. Coins of Bengal: Samāchāradeva, Śaśāṅka and others

##### **Unit III. Coins of Kashmir and North West India**

7. Coins of Kashmir
8. Coins of Śāhīs of Punjab and Afghanistan and their Imitation
9. Indo-Śāsṭānian Coins (Gadahiya Coins)
10. Coins of Hūṇas

##### **Unit IV. Coins of Central and Northern India**

11. Coins of Kalachuriṣ of Tripuri
12. Coins of Kalachuriṣ of Ratanpur
13. Coins of Chandellas and Paramāras
14. Coins of Chālukyas and Chāhamānas

##### **Unit V. Coins of South India**

15. Coins of Pallavas
16. Coins of Chālukyas
17. Coins of Cholas
18. Coins of Pāṇḍyas
19. Coins of Cheras

\* Students are required to identify coins prescribed above.

### **Recommended Reading**

- Cunningham, A., *Coinage of Medieval India*, Varanasi, 1967.  
A.V. Narasimha Murthy, *The Coins of Karnataka*.  
Biddulph, C.H., *Coinage of Pāṇḍyas; Coins of Cholas*, *JNSI*, No 11. B.H.U.  
Paruck, D.J., *Sassanian Coins*.

- Gopal, L., Weight standards of the coins of Early Medieval India, *JNSI*, XXV, II, pp. 145-53.
- Elliot, Wi; *Coins of south in India*, 2005.
- J.P. Singh., *Monetary Development in Early Assam*, 1989.
- Johnscott Deyell., *Living without silver*, 1982.
- Rhodes, N.G. & S.K. Bose, *The Coinage of Assam*, Vol. I, Calcutta, 2003.
- Roy, P.C., *The Coinage of Northern India*, 1980.
- Singh O.N., *Gupttotara kālīna Uttara Bhāratīya Mudrāy*, Varanasi, 1997.
- Singh O.N., *Guptottarkālīna Dakshina Bhāratīya Mudrayne*, 2010.
- Smith, V. A., *Catalogue of the Coins in the Indian Museum*, Calcutta, 1906.
- T., Desikachari and Thakur, U., "The Huna Coinage", *JNSI*, XXIX, Part I A.
- Vidyaprakash, *Coinage of South India- An Introductory source*, Varanasi, 1968.
- Desikachan, D., *South India coins*, 1991.

### Group - E

#### Religions of Ancient India

##### Course I

###### Vaidika Religion

###### **Unit-I. Introduction**

1. An approach to the study of religion and an introduction to Indian religious history
2. Early forms of religion and Indus Valley religion

###### **Unit-II. Early Vaidika Religion**

3. Rgvaidika gods and goddesses, myths and rituals
4. Ethical ideas
5. Ideas of life after death
6. Monotheistic and Monistic trends

###### **Unit-III. Later Vaidika Developments**

7. Gods
8. Yajña : Types and Significance
9. Atharvaidika Religion

###### **Unit-IV. Spiritual Vision of Upaniṣads**

10. Problems of interpretation
11. Spiritual life: Non-attachment (vairāgya), Knowledge (jñāna), modifications in yajña-karma; theistic ideas

###### **Unit-V. Upaniṣadic Philosophy**

12. Main doctrines : concept of Brahman and Ātman; ideas of Saṃsāra and Mokṣa
13. Place of Upaniṣadic teachings in Indian religious history

###### **Recommended Reading**

Barth, A., *The Religions of India*, Varanasi, 1985.

Belvalkar, S. K. and Ranade, R. D., *History of Indian Philosophy*, Vol. II (Creative Period), Poona, 1927.

Bhattacharya, H.D. (ed.), *Cultural Heritage of India*, Vol. I, Calcutta, 1958.

Chakrabarti, Uma, *Social Dimensions of Early Buddhism*, Delhi, 1987.

Chatopadhyaya, S., *Evolution of Theistic Sects in Ancient India*, Calcutta, 1962.

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- Hiriyonna, M.H., *Bhāratīya Dharmā Ke Mūla Tattva* (Hindi), Allahabad, 1954.
- Hiriyonna, M.H., *Outlines of Indian Philosophy*, London, 1932.
- Hopkins, E. W., *Religions of India*, New Delhi, 1977.
- Hopkins, Thomas J., *The Hindu Religious Tradition*, California, 1971.
- Kane, P.V., *History of Dharmasāstra*, Vols.II, IV & V (Relevant chapters), Poona, 1972-1974, Also Hindi Version, Lucknow.
- Karmarkar, A. P., *The Religion of India*, Lonavala, 1950.
- Keith, A. B., *The Religion and Philosophy of the Veda and Upaniṣads* (Also in Hindi), Cambridge, 1925.
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- McDonnell, A. A., *Vedic Mythology* (Also in Hindi), New York, 1974.
- Pandey, G.C., *Vaidika Saṃskriti*, Allahabad, 2001.
- Pathak, V. S., *Smārta Religious Tradition*, Meerut, 1987.
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## Course II

### Vaiṣṇavism, Śaivism & Minor Religious Systems

#### Unit-I. Introduction

1. Survey of Literatures; Sources
2. Main features of Theistic Religion

#### Unit-II. Vaiṣṇavism

3. Evolution of the cult of Viṣṇu in North and South.
4. Vaiṣṇava sects—their history and doctrines
5. Bhagavat Gītā : Main Teachings

#### Unit-III. Śaivism & Śākta Sect

6. Evolution of the cult of Śiva in north and south
7. Śaiva sects—their history & characteristics
8. Origin, Development and Main features of Śākta Sect

#### Unit-IV. Minor Cult & Folk Religion

9. Brahmā
10. Sūrya
11. Skanda-Kārttikeya
12. Gaṇeśa
13. Devī
14. Yakṣas & Nāgas

#### Unit-V. Smārta – Paurāṇika religion

15. Pañcādevopāsanā
16. Tīrtha
17. Vrata and dāna

#### Recommended Reading

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### Course III

#### Buddhism

##### **Unit-I. Introduction**

1. Survey of Literatures, Sources
2. Antiquity of Śramaṇa tradition and its characteristics
3. Proliferation of Śramaṇas in the age of Buddha and Mahāvīra

##### **Unit-II. Life and Teachings of Gautama Buddha**

4. Sources of Buddha's teachings and problem of origin of Buddhism
5. Principal events of Buddha's life
6. Noble Truths—concept of Dukkha, Pratītya-samutpāda, Nirvāṇa and Anātma and Spiritual discipline (*mārga*)

##### **Unit-III. Early History and growth of Buddhism**

7. Buddhist Councils
8. Development of early sects : Theravāda, Sarvāstivāda, Mahāsāṅghika and Vātsīputriya; doctrinal evolution of the Buddhist thoughts

- Growth of Buddhism, legend and cult; distinction of Arhat, Pratyeka-Buddha and Samyak-Sambuddha
- Buddhist saṅgha : Historical development and socio-economic implications

#### **Unit-IV. Mahāyāna Buddhism**

- Evolution of Mahāyāna; composition of Mahāyāna canon
- Principal features : Bodhisattva as a spiritual ideal and practice of Pāraṇītā discipline; Cult of Buddha and Bodhisattva
- Philosophical developments : Mādhyamika – Śūnyavāda and Yogācāra-Vijñānavāda; development of Trikāya doctrine

#### **Unit-V. Tāntric Buddhism and Decline of Buddhism**

- Tāntric Buddhism — evolution and characteristics
- Decline of Buddhism
- Survey of spread of Buddhism outside India

#### **Recommended Reading**

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## Course IV

### Jainism

#### Unit-I. Introduction

1. Survey of Literature; Sources
2. Antiquity of Jainism

#### Unit-II. Pārśvanātha and Mahāvīra

3. Life and teachings of Pārśvanātha
4. Mahāvīra and Makkhali Gosāla
5. Teachings of Mahāvīra
6. Jaina Sangha

#### Unit-III. Jaina Sangha after Mahāvīra

6. Division of Jaina Sangha into Śvetāmbara and Digambara, their further history and main differences
7. Formation of Jaina canon

#### Unit-IV. Spread of Jainism

8. Early phase of Jainism
9. Jainism in Gujarat and Rajasthan
10. Jainism in the Deccan and South

#### Unit-V. Jaina Doctrines

11. Jaina Metaphysics of Jīva and Ajīva
12. Jaina Epistemology : Pramāṇa , Naya, Anekāntavāda & Syādvāda
13. Spiritual discipline : Ideas of karma, bondage & liberation, Jaina spiritual discipline
14. Cult of Tīrthaṅkaras

#### Recommended Reading

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**Group-F**  
**State and Society**  
**Course I**  
**Social Life in Ancient India**

**Unit-I. Introduction**

1. Significance of the study of social life in ancient India
2. Survey of Literature and Sources

**Unit-II. Origin and Early Stages of Social Formation**

3. Concept of society : Stages of Formation and growth
4. Stratification of society: Historical growth, Division of labour, Traditional concepts

5. Concept of Family in primitive societies

**Unit-III. Social Organizations**

6. Dharma : Concept, Impact on Individuals and Society
7. Varṇa : Concept, Origin and Historical growth; Socio-religious study
8. Jāti : Concept, Origin, Historical growth and its Impact on Society
9. Āśramas : Concept, Significance on individual and social make-up
10. Position and status of women

11. Asceticism: Concept and prevalence in ancient India

**Unit-IV. Origin and Historical Survey of Institutions**

12. Samsakāras : Aims, Objectives and Types
13. Marriage : Origin, Development, Types and Significance in society
14. Family : Composition, structure and rights of members

**Unit-V. Origin and Development of Education**

16. Origin, aims and objectives of Education
17. Teacher-taught relationship and the subject matter of Education
18. Important centres of Education : Takṣaśilā, Nālandā, and Vikramśilā

**Recommended Reading**

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Altekar, A. S., *Position of Women in Hindu Civilisation*, Varanasi, 1956.

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## Course II

### Ancient Indian Economy

#### **Unit-I. Introduction**

1. Significance of the study of economic Life in Ancient India
2. Sources for the reconstruction of economic life
3. Meaning and significance of *Vārttā*
4. Historiography

#### **Unit-II. Early Ancient Indian Economy**

5. Primitive Systems
6. Harappan Systems
7. Vaidika agriculture
8. Urban economy in the 6<sup>th</sup> century B.C. : Crafts, Trades, Trade Routes and Agriculture

#### **Unit-III. Development of Economic Systems and Institutions**

##### **A : Money Economy and Trade**

9. Exchange and Currency
10. Indo-Roman trade from c. 2<sup>nd</sup> B.C. – 3<sup>rd</sup> Century A.D
11. Maritime trade and trade routes: East and West

##### **B : Institutionalisation of Peasants, artisans and merchants**

12. Artisanal and mercantile guilds
13. Labour and slavery
14. Land Ownership
15. Taxation and Revenue system

#### **Unit-IV. A Survey of Economy During:**

16. Mauryas
17. Gupta and
18. Chola Periods

#### **Unit-V. Early Medieval Economy**

19. Main Characteristics and the notion of urban decay
20. Feudalism: Origin, development and its control over economy
21. Temple Economy : Nature and significance

### **Recommended Reading**

- Achchhe, Lal, *Prāchīna Bhārat Men Kriṣi*. (Hindi), 1980.
- Adhya, G. L., *Early Indian Economics*, Bombay, 1966.
- Aiyanger, C. V. R., *Ancient Indian Economic Thought*, Varanasi, 1965.
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### **Course III**

#### **Ancient Indian Political Ideas and Administrative Systems**

##### **Unit-I. Introduction**

1. Historiography and Significance of ancient Indian Polity
2. Sources of ancient Indian Polity
3. A brief survey of the development of political ideas

##### **Unit-II. Origin and Nature of State**

4. Concept and origin: comparative study of different theories including that of segmentary state
5. Nature and scope
6. Aims and functions
7. State and individual
8. State authority and religion

##### **Unit-III. Principles and Institutions of ancient Indian Polity**

9. Kingship : Role, functions , concept of divinity and absolutism
10. Republics : Nature and significance
11. Democratic Institutions : Sabhā-Samiti, Vidatha, Paura-Janapada
12. Mantri Pariṣad

##### **Unit-IV. Administration**

13. Principles and functionaries
14. Military administration and ethics of war
15. Inter-State Relation : Maṇḍala theory

16. Four fold theory of Upāya; Diplomacy and Espionage
- Unit-V.** A Survey of Administration During
17. Mauryan
  18. Gupta
  19. Rāṣṭrakūṭa and
  20. Chola Periods

#### Recommended Reading

- Altekar, A. S., *State and Government in Ancient India* (Also in Hindi), Delhi, 1958.
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#### Course-IV

#### Law and Legal Institutions in Ancient India

##### Unit-I. Introduction

1. Significance
2. Sources of Hindu law
3. Origin and development of Hindu law
4. Historiography of legal institutions

##### Unit-II. Property related laws

5. Mitākṣarā and Dāyabhāga schools on the notion of property in ancient India
6. Law of Succession and Inheritance
7. Law of ownership

### **Unit-III. Marital Laws**

8. Marriage: Its meaning, nature, types and significance.
9. Strīdhana
10. Law of Sonship

### **Unit-IV. Legal institutions in ancient India (Judiciary)**

11. Judiciary : Nature, type and function
12. Law of evidence and nature of offence
13. Judicial Procedure
14. Law-enforcing agencies

### **Unit-V. Crime and Punishment**

15. Law of Torts
16. Law of Crimes
17. Punishment : Aims, objectives, types & implementation
18. Law of Slavery

### **Recommended Reading**

- Derrett, J.D.M., *Dharmaśāstra and Juridical Literature*, Wiesbaden, 1973.  
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Aiyer, N. R. S., *The History of the Hindū Law in the Vaidika Age and in the Post Vaidika times down to the institute of Manu*, Madras, 1925.  
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### **Group - G India's Cultural Contacts in Asia Course I**

#### **India's Cultural Contacts with Sri Lanka, Myanmar and Thailand**

##### **Unit-I. : General Introduction of South-East Asia**

1. Geographical features
2. Sources
3. Causes of Indianization

##### **Unit-II. Socio-Economic Impact on Sri Lanka, Myanmar & Thailand**

4. India's Social impact
5. Land and Sea Routes
6. Trade & Commerce

- Unit -III.**      **Cultural Interaction with Sri Lanka (Sinhhaladvīpa)**
7. Indian Cultural contact
  8. Introduction and Expansion of Buddhism
  9. Art and Architecture : Sigiria Murals and Ruvanveli Pagoda
  10. Language and Literature: Pāli, Saṃskrit & Siṁhalī
- Unit -IV.**      **Cultural Interaction with Myanmar (Burma)**
11. Introduction and Expansion of Buddhism
  12. Art and Architecture with special reference to Ānanda Temple
  13. Language and Literature
- Unit -V.**      **Cultural Interaction with Thailand (Siam)**
14. Antiquity of India's cultural contact
  15. Introduction and Expansion of Buddhism
  16. Art and Architecture : Sukhothai Region
  17. Life, Culture and Society

#### **Recommended Readings**

- Hall, D G E., *History of South-East Asia*, London, 1961.
- Lama, G.K., *Cultural heritage of South-East Asia*, Varanasi, 2009.
- Majumdar, R.C., *Hindū Colonies in the Far East*, Calcutta, 1963.
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## **Course II**

### **India's Cultural Contacts with Vietnam, Kampuchia, Indonesia and Malaysia**

- Unit-I.**      **Vietnam (Champa)**
1. Antiquity of India's Cultural contact
  2. Elements of Indian Culture
  3. Introduction and expansion of Buddhism
  4. Art and Architecture
- Unit-II.**      **Kampuchia (Kambuja)**
5. India's cultural relation with Kambuja
  6. Elements of Indian Religions : Brahmanism and Buddhism
  7. Art and Architecture with special reference to Angkor-Vat
  8. Literature; Edicts and Epigraphs
- Unit-III.**      **Indonesia (Java, Sumatra, Bali, Borneo and Malaysia)**
9. Introduction and expansion of Buddhism
  10. Art and Architecture with special reference to Borobudur Stūpa (Java)
  11. Indo-Javanese Literature
  12. Religion and Art of Bali and Borneo
  13. Antiquity of Indian Culture in Malaya
- Unit-IV.**      **Socio-Economic Impact on Vietnam and Kampuchia**
14. Social Impact
  15. Land and Sea Routes
  16. Trade & Commerce
- Unit-V:**      **Socio-Economic Impact on Indonesia and Malaysia**
17. Social Impact

18. Land and Sea Routes
19. Trade & Commerce

#### **Recommended Readings**

- Hall, D G E., *History of South-East Asia*, London, 1961.  
 Lama, G.K., *Cultural Heritage of South-East Asia*, Varanasi, 2009.  
 Majumdar, R.C., *Hindu Colonies in the Far East*, Calcutta, 1963.  
 Mishra, Sheonandan and Damodar Dixita *Prāchīn Sri Lankā Kā Itihāsa* (Hindi), Lucknow, 1974.  
 Puri, B.N., *Sudūra Pūrva men Bhāratīya Sāṃskriti Aura Usakā Itihāsa* (Hindi).  
 Sarkar, H.B., *Cultural Relations Between India and South-East Asian Countries*, Delhi, 1985.  
 Vidyalankara, Satyaketu., *Dakṣiṇa Evam Daśina Pūrvī Asia Kā Sāṃskritika Itihāsa*, Masoorī, 1984.

### **Course III**

#### **India's Cultural Contacts with Central Asia and Afghanistan**

##### **Unit-I. Introduction**

1. Sources
2. Geographical features
3. Background of cultural interaction

##### **Unit-II. Central Asia**

4. Elements of Indian Religions
5. Art and Architecture
6. Language and literature

##### **Unit-III. Afghanistan**

7. India's Cultural contact with Afghanistan
8. Introduction and expansion of Buddhism
9. Art and Architecture
10. Language and Literature

##### **Unit-IV. Socio-Economic Impact on Central Asia**

11. Routes
12. Economic Impact
13. Social Impact

##### **Unit-V. Socio-Economic Impact on Afghanistan**

14. Routes
15. Economic Impact
16. Social Impact

#### **Recommended Reading**

- Bell, Sir Charles, *Tibet : Past and Present*, 1992.  
 Chopra, P.N., *Social, Cultural and Political History of Tibet*, 1987.  
 Gaulier, S., *Buddhism in Afghanistan and Central Asia*, London, 1976.  
 Ghoshal, U.N., *Ancient Indian Culture in Afghanistan*, Calcutta, 1928.  
 Hopkins, Jeffrey and Lati Rimpoche (Tr.), *The Buddhism of Tibet*, Delhi, 1987.  
 Lama, G.K., *Tibet Men Bauddha Dharma Kā Itihāsa*, New Delhi, 2004.  
 Rowland, B., *Ancient Art from Afghanistan*, New York, 1966.  
 Sankrityayan, Rahul, *History of Central Asia*, New Delhi, 1964.  
 Thondup, Tulku, *Buddhist Civilization in Tibet*, 1982.  
 Upasak, C.S., *History of Buddhist in Afghanistan*, 1990.

## Course IV

### India's Cultural Contacts with China, Tibet and Nepal

- Unit-I**
  - 1. Introduction
  - 2. Sources
  - 3. Geographical features
  - 4. Background of cultural interaction
- Unit-II.**
  - China
    - 4. Antiquity of India's Cultural contact with China
    - 5. Introduction and development of Buddhism
    - 6. Art and architecture
- Unit-III.**
  - Tibet
    - 7. Antiquity of India's cultural relation
    - 8. A brief introduction to Pre-Buddhist Tibet
    - 9. Introduction and Expansion of Buddhism
    - 10. Language and Literature
    - 11. Art
- Unit-IV.**
  - Nepal
    - 12. Antiquity of India's cultural contact with Nepal
    - 13. Origin and Development of Buddhism
    - 14. Hinduism in Nepal
    - 15. Art
    - 16. Language and literature
- Unit-V.**
  - Socio-Economic Impact on China, Tibet and Nepal
    - 17. Life and Society
    - 18. Routes
    - 19. Trade and Commerce

#### Recommended Reading

- Bangdel, L.S., *The Early Sculptures of Nepal*, New Delhi, 1982; Bagehi, P.C., *India and China*. Bombay, 1950.
- Chen, Kenneth K.S., *Buddhism in China*, 1964.
- Kaung, Chou Siang., *Chīnī Bauddha Dharma Kā Itihāsa*, Allahabad (Hindi), 1926.
- Regmi, D.R., *Ancient Nepal*, Calcutta, 1969.
- Regmi, D.R., *Inscriptions of Ancient Nepal*, New Delhi, 1983.
- Singh, Harish Chandra Lal, *Buddhism in Nepal*, 1999.
- Vidalankara, S., *Madhya Asia Eavam Chīna Men Bhārītya Saṅskriti* (Hindi), 1980.
- Xinru Liu, *Ancient India and Ancient China*, Delhi, 1994.

## GROUP - II

### History of Science And Technology in Ancient India

#### Course I

#### Science & Technology in Pre & Protohistoric Period

##### Unit-I Introduction

1. Science and technology, meaning, and scope
2. Sources
3. Interaction of science; technology and society; Universality of science

##### Unit-II Primitive Technology and Beginning of Science

4. Knowledge of Science
5. Prehistoric Technology
6. Ancient quarrying, mining and pyrotechnology

##### Unit-III Early Food Producing Sciences

7. Early History and Development of Agricultural Sciences
8. Animal Husbandry
9. Impact and Development of other related sciences

##### Unit-IV Science in Indus Civilization

10. Quantitative Sciences: Weights, Measures & Mathematics
11. Flora & Fauna: Knowledge of Exploitation
12. Agriculture: Crops and Crop Rotation

##### Unit-V Technology in Indus Civilization

13. Metal Technology
14. Building Materials and Technology: Structures, Masonry and Hydraulics
15. Ceramics: Pottery, Seals-sealings and Figurative forms
16. Lapidary

#### Recommended Reading

- Bose, D. M. et. al., *Concise History of Science in India* (New Delhi, INSA, 1971)
- Chattopadhyaya, D., *Studies in the History of Science in India*, Vol. I &; New Delhi, 2000
- Hegde, K.T.M., *An Introduction to Ancient Indian Metallurgy*, Bangalore, 1991.
- Porter, R. et. al., *The Cambridge History of Science*, Vol. I, Cambridge, 2003.
- Seal, B.N., *Positive Sciences of Ancient India*, New Delhi, 1958.
- Sen, S.N., *Vigyan Kā Itihasa*, Two Volumes. Patna, 1972.
- Singer, C. et. al. *A History of Technology* Vol. Oxford, 1958.
- Sarton, G., *Introduction to the History of Science* (Washington, 1952).
- Pant, Rajnikant, *Prāchīn Sabhyatāon Mein Vigyāna Evam Taknik* (in Hindi), Jaipur, 2007.

#### Books for reference:

- Agrawal, D. P., *Ancient Metal Technology and Archaeology of South Asia*, 2000, New Delhi.
- Agrawal, D.P. & J.S. Kharakwal, *Bronze & Iron Ages in South Asia*, 2003, New Delhi.
- Bag, A.K. (ed.) *History of Technology in India*, Vol. I. New Delhi, 1997.
- Bernal, J.D., *Science in History*, (London 1969).
- Chakrabarti, D.K. and N.Lahiri, *Copper and Its Alloys In Ancient India*, New Delhi, 1996.
- Chattopadhyay, P.K., *Archaeometallurgy in India*, Patna, 2004.
- Chowdhary, K. A., *Ancient Indian Agriculture and Forestry in Northern India*. Bombay, 1977
- Forbes, R.I., *Studies in Ancient Technology*, Vol. I to IX, Leiden, 1976.
- Gopal, L., *Aspects of History of Agriculture in Ancieni India*. Varanasi, 1980.
- Hodges, H., *Artifacts – An Introduction to Early Materials and Technology*, London

- Duckworth, 2003.
- Hodges, H., *Technology in the Ancient World* (London, Pelican, 1970).
- Indian Journal of History of Science* (relevant volumes). INSA, New Delhi..
- Mule, Gunakar,, *Bhārtiya Vigyāna kā Brihad Itihāsa*, Delhi, 1993.
- Sankalia, H.D., *Some Aspects of Prehistoric Technology in India*, Poona, 1989.
- Sharma, V.L. *Antarrashtriya Paripekṣya Mein Prāchīn Bhārtiya Vigyāna*. New Delhi. 1990.
- Upadhyay,P. *Minerals and Mining in Ancient India*, Varanasi, 2007.
- Singh, R.P., *Agriculture in Protohistoric India*, Pratibha Prakash, Delhi, 1990.
- Singh R.P., *India's First Farmers*, Kala Prakashan, Varanasi, 2010.

## Course II

### Science & Technology in Chalcolithic Cultures and Vaidika Period

#### **Unit-I Non Harappan Copper using Communities**

1. Metal Technology: Copper objects of Non-Harappan Cultures, Copper Hoards
2. Settlements: Houses & Shelters
3. Flora & Fauna: Crops and Crop Rotation ,
4. Ceramics: OCP & others

#### **Unit-II Early Iron Age Cultures**

5. Metal Technology
6. Ceramic Technology: Black and Red ware and PGW
7. Glass Technology
8. Fauna and Bone Objects

#### **Unit-III Physical Science in Vaidika Literature**

9. Introduction of Metal & Metallurgy
10. Mathematics
11. Astronomy
12. Concept of Time

#### **Unit-IV Biological Science in Vaidika Literature**

13. Medical Science
14. Agriculture & Botany
15. Zoological Knowledge

#### **Unit-V An outline of the development of Physical Concepts**

16. Doctrine of Five Elements
17. Concept of Atomism
18. Attributes of Matter : Heat, Light and Sound

#### **Recommended Reading**

- Bose, D. M. et. al., *Concise History of Science in India* (New Delhi, INSA, 1971)
- Chattopadhyaya, D., *Studies in the History of Science in India*, Vol, I &; New Delhi, 2004.
- Hegde, K.T.M., *An Introduction to Ancient Indian Metallurgy*, Bangalore, 1991.
- Kutumbia, P., *Ancient Indian Medicine*, Madras, 1962.
- Prakash, S., *Prāchīn Bhārta men Rasāyana Kā Vikāsa* Delhi, 1970.
- Prasad, G., *Bhārtiya Jyotish Kā Itihāsa*, Lucknow, 1956.
- Porter, R. et.al., *The Cambridge History of Science*, Vol. I, Cambridge 2003.
- Ray, P., *History of Chemistry in Ancient and Medieval India*, Calcutta, 1956.
- Seal, B.N., *Positive Sciences of Ancient India*, New Delhi, 1958.

- Sen. S.N., *Vigyāna Kā Itihāsa*. Two Volumes. Patna, 1972.  
 Singer, C. et. al. *A History of Technology* Vol. 1, Oxford, 1958.  
 Randhawa, M.S., *A History of Agriculture in India*. Delhi, 1980.  
 Singh, A.N. and Dutta, B.B., *Hindū Ganita Śāstra kā Itihāsa*, Lucknow, 1974 (Hindi & English).

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- Agrawal, D. P., *Ancient Metal Technology and Archaeology of South Asia*, 2000, New Delhi.  
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 Bhardwaj, H.C., *Aspects of Ancient Indian Technology*. (Delhi, 1979)  
 Bhardwaj, H. C., *Metallurgy in Indian Archaeology*. Varanasi. 2000.  
 Bhardwaj, H.C. & V.L.Sharma., *Technology, Tools and Appliances*. Allahabad, 1997.  
 Biswas, A.K. and S. Biswas., *Minerals and Metals in Ancient India*, Delhi, 1996.  
 Chakrabarti, D.K., *The Early Use of Iron in India*, OUP, Bombay, 1992.  
 Chakrabarti, D.K. and N.Lahiri., *Copper and Its Alloys in Ancient India*, New Delhi; 1996.  
 Chattopadhyay, P.K., *Archaeometallurgy in India*, Patna, 2004.  
 Chowdhary, K. A., *Ancient Indian Agriculture and Forestry in Northern India*. Bombay, 1977  
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 Gopal, L., *Aspects of History of Agriculture in Ancient India*. Varanasi, 1980.  
 Hegde, K. T. M., *An Introduction to Ancient Indian Metallurgy*, Bangalore, 1991  
 Hodges, H., *Artifacts - An introduction to Early Materials and Technology* (London Duckworth, 2003.  
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 Dikshit, M.G., *History of Indian Glass* (Bombay, 1964).  
*Indian Journal of History of Science* (relevant volumes). INSA, New Delhi.  
 Lal, A., *Prāchīn Bhārta men Kriṣi*. Varanasi, 1980.  
 Mule, Gunakar., *Bhārtīya Vigyāna kā Brihad Itihāsa*, (Delhi, 1993).  
 Prakash, S., *Founders of Sciences in Ancient India* (English and Hindi). New Delhi, 1965.  
 Sankalia, H.D., *Some Aspects of Prehistoric Technology in India*. (1989). New Delhi  
 Sharma, V.L., *Antarrāṣṭriya Paripekṣya mein Prāchīn Bhārtīya Vigyāna*, New Delhi, 1990.  
 Singh, R. N., *Ancient Indian Glass: Archaeology & Technology*, Delhi, 1989.  
 Tripathi, V., (ed.) *Archaeometallurgy in India*, Delhi, 1998.  
 Tripathi, V., *The Age of Iron in South Asia : Legacy & Tradition*, New Delhi, 2001.

### Course III

#### A Survey of Science & Technology from 6<sup>th</sup> Century B.C. to 1<sup>st</sup> century B.C.

##### Unit-I. Introduction and Development of Science and Technology

1. Sources
2. Mathematics & Astronomy
3. Biological Science
4. Metallurgy & Ceramics

##### Unit-II. Interaction with Foreign Sciences

5. Greece
6. China
7. Arabia

- Unit-III. Science and Technology during NBP Phase**
8. Development of copper
  9. Development of iron metallurgy
  10. Ceramic and glass technology
- Unit-IV. Science and Technology as revealed from Literature**
11. Shulbsutra
  12. Vedāṅga Jyotish
  13. Buddhist & Jain Texts
- Uni -V. Science and Technology from 3<sup>rd</sup> Century B.C. to 1<sup>st</sup> Century B.C.**
14. Kautilya's Arthashastra- Agriculture, Gems, Minerals and Other sciences
  15. Metal technology : Copper & Iron
  16. Iron and Steel; Wootz Steel
- Recommended Reading*
- Bose, D. M. et. al, *Concise History of Science in India* (New Delhi, INSA, 1971) .
  - Chattopadhyaya, D., *Studies in the History of Science in India*, Vol, I &; n.
  - Hegde, K.T.M., *An Introduction to Ancient Indian Metallurgy*, Bangalore, 1991.
  - Kutumbia, P., *Ancient Indian Medicine*. Orient Congmou, Madras, 1962.
  - Prakash, S., *Prāchīn Bhārta men Rasāyana Kā Vikāsa*, New Delhi, 1970.
  - Prasad, G., *Bhārīya Jyotiśa Kā Itihāsa*, Lucknow, 1956.
  - Porter, R. et.al., *The Cambridge History of Science*, Vol. I, Cambridge 2003
  - Ray, P., *History of Chemistry in Ancient and Medieval India*. Calcutta, 1956.
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  - Randhawa, M.S., *A History of Agriculture in India*.Delhi, 1980.
  - Singh, A.N. and Dutta, B.B., *Hindū Ganita Śāstra kā Itihāsa*, Lucknow, 1974 (Hindi & English).
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  - Agrawal, D.P. & J.S. Kharakwal., *Bronze & Iron Ages in South Asia*, 2003, New Delhi.
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  - Biswas, A.K. and S. Biswas., *Minerals and Metals in Ancient India*, Delhi, 1996.
  - Chakrabarti, D.K.,*The Early Use of Iron in India*, OUP, Bombay, 1992.
  - Chakrabarti, D.K. and N.Lahiri., *Copper and Its Alloys in Ancient India*;New Delhi, 1996.
  - Chattopadhyay, P.K., *Archaeometallurgy in India*, Patna, 2004.
  - Chowdhary, K. A., *Ancient Indian Agriculture and Forestry in Northern India*, Bombay, 1977
  - Forbes, R.I., *Studies in Ancient Technology*, Vol. I to IX (Leiden, 1976).
  - Gopal, L., *Aspects of History of Agriculture in Ancient India*. Varanasi, 1980.
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- Sankalia, H.D., *Some Aspects of Prehistoric Technology in India*. (1989). New Delhi.
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- Tripathi, V., (ed.) *Archaeometallurgy in India*, Delhi, 1998.
- Tripathi, V., *The Age of Iron in South Asia : Legacy & Tradition*, New Delhi, 2001.
- Upadhyay, P., *Minerals and Mining in Ancient India*, Varanasi, 2007.
- Tripathi, V., *History of Iron Technology in India*, New Delhi 2009.

#### Course IV

##### Science & Technology from 1<sup>st</sup> Century A.D. to c. 7<sup>th</sup> Century A.D.

###### **Unit-I. Development of Medicine and Surgery**

1. Vāgbhaṭṭa
2. Charak
3. Suśruta

###### **Unit-II. Development of Mathematics & Astronomy**

4. Arithmetic & Algebra
5. Geometry
6. Āryabhatta & Varāhamihira
7. Brahmagupta

###### **Unit-III. Technological achievements: Metallurgy**

8. Copper
9. Iron
10. Silver and Gold

###### **Unit-IV. Indian Alchemy**

10. Origin
11. Nāgārjuna
12. Later developments in Alchemy

###### **Unit-V. Development of Agricultural and Biological Sciences**

13. Agricultural Practices
14. Flora
15. Fauna

\*Students shall be taken for study tour/ visit laboratories related to their course.

#### Recommended Reading

- Bose, D. M. et. al., *Concise History of Science in India*, New Delhi, INSA, 1971
- Chattopadhyaya, D., *Studies in the History of Science in India*, Vol. I &; New Delhi, 2004.
- Hegde, K.T.M., *An Introduction to Ancient Indian Metallurgy*, Bangalore, 1991.
- Kutumbia, P., *Ancient Indian Medicine*. Madras, 1962.
- Prakash, S., *Prāchīn Bhārata men Rasāyana Kā Vikāsa*, Delhi, 1970.
- Prasad, G., *Bhārtīya Jyotiṣa Kā Itihāsa*, Lucknow, 1956.
- Porter, R., et.al., *The Cambridge History of Science*, Vol. I, Cambridge 2003
- Ray, P., *History of Chemistry in Ancient and Medieval India*. Calcutta, 1956.