BA (Prog) with Sanskrit as Major UGCF for Multidisciplinary Courses of Study

DISCIPLINE SPECIFIC CORE COURSE, DISCIPLINE A 5: DSC-9: Indian Epigraphy & Paleography

Credit distribution, Eligibility and Pre-requisites of the Course

Course title &	Credits	Credit	distributi	on of the course	Eligibility Criteria	Pre- requisite of the course
Code		Lecture	Tutorial	Practical/Practice		
(Discipline A 5) Indian	04	3	1	0	12th Passed	Working Knowledge
Epigraphy &						of Sanskrit
Paleography DSC - 9			; 			

Learning Objectives:

This course known as the Indian Epigraphy and Paleography provides background and basis of Indian history of ancient period. Students with no knowledge of Sanskrit but interested in acquiring historical facts direct from their source can be benefitted with this course. It is extremely helpful for those who are willing to involve in archaeological studies.

This course provides basics covered in ancient Indian inscriptions. Some of the terminologies available in inscriptions are introduced here. Unit II of this section provides historical facts through the inscriptions.

It introduces background of the Indian epigraphical study. Importance of inscriptions on the basis of contents, their impact and reflections of society, economy, religious, political instances can also be understood here. It helps to understand about prevailing theories of the origin of the Brahmi script. Development of the letters of this script in different regions in a span of time is introduced. Their causes of change are also made clear to illustrate different forms in the script. Unit III provides the history of study of inscriptions in India. A number of Indian and foreign scholars made attempts in this field. Students are made aware about some prominent scholars who made valuable efforts in this field.

Learning Outcomes:

Contents of this course are related to formation of history of ancient India, so it is an interdisciplinary course within Sanskrit. Students of Sanskrit can understand how important role Sanskrit based inscriptions play in preparing history, and their knowledge of the language can help historians to make a perfect history, undoubtedly. Similarly students of History will find themselves on the positive ground and direct in touch with material related to history of ancient India.

Syllabus

Unit-I:

15 hrs

Inscription of Rudradāman. Eran Pillar Inscription: Status of Samudragupta Iron Pillar Inscription of Ćandra

Unit-II:

10 hrs

Antiquity of writing in India

Observations of foreign scholars

Literary evidences

Observations made by Indian Epigraphists.

Importance of the study of Inscriptions.

Geographical description

Historical evidences

Society, Religion, Literature

Economic Conditions

Administration

Unit-III

10 hrs

Types of Inscriptions:

Praśasti

Religious

Donations

Grants

Writing material:

Rocks

Pillars

Metal Plates

Statues

Pen, Brush, Chisel, Stylus, Paint/Colour

Unit-IV

10 hrs

Origin of the Brāhmī Script

Foreign Origin, Indian Origin, Greek origin, Phoenician origin Theory of South Indian Origin Theory of Aryan Origin.

History of reading of Indian Inscriptions.

Contribution of Epigraphists: G.H. Ojha, Fleet, Princep, D.C. Sircar, Cunningham, Buhler.

System of dating and use of eras: Vikram Era, Śaka Era, Gupta Era, Harśa Era.

Essential/recommended readings:

- 1. Buhler, G, On the origin of the Indian alphabet & numerals.
- 2. Dani, A. H, Indian Paleography
- 3. Ojha, G.H, Bhāratīya Prāćīna Lipimāla (Hindi)
- 4. Pandey, R.B, Bhāratīya Purālipi (Hindi)
- 5. Rana, S.S., Bhāratīya Abhilekha
- 6. Sircar, D.C., Indian Epigraphy, Select Inscriptions (Part-I)
- 7. Upadhyay, V., Prāćīna Bhāratīya Abhilekha (Hindi)

Suggested Readings:

- 1. Classical Age by Altekar, Majumdar, Sircar
- 2. श्रेण्य-युग (हिंदी अनुवाद): अल्तेकर, मजुमदार, सरकार
- 3. गुप्त-समाट और उनका कालः उदित नारायण राय

UGCF for Multidisciplinary Courses of Study

DISCIPLINE SPECIFIC CORE COURSE, DISCIPLINE A 6: DSC-10: Basic Elements of Indian Philosophy

Credit distribution, Eligibility and Pre-requisites of the Course

Course title	Credits	Credit	distributi	on of the course	Eligibility	Pre-requisite
& Code	· ·	Lecture	Tutorial	Practical/Practice	e Criteria	of the course
(Discipline A 6) Basic Elements of Indian Philosophy DSC - 10	04	3	1	0	Passed in Semester- IV	Working Knowledge of Sanskrit

Learning Objectives:

The objective of the Syllabus is to study the basic issues in Indian Philosophy.

Learning Outcomes:

Indian Philosophy teaches critical thinking, close reading, clear writing, and logical analysis. It develops the tools of logic and reason to analyze the ways in which the individual experiences the Universe. It guides the student to understand the language we use to describe the world, and our place within it. Different areas of philosophy are distinguished by the questions they ask. The most important reason to study philosophy is that it is of enormous and enduring interest. Philosophy is important, but it is also enormously enjoyable in which students are provided with the tools and the opportunity to develop and express their own philosophical views.

Syllabus

Unit-I:

09 hrs

Darśana - concept and aims, Classification of Indian Philosophical schools, Fundamental issues in Indian Philosophy - Epistemology: Six Pramanas

Unit-II:

Unit-III

12 hrs

Metaphysics: Realism, Idealism, Causation – Satkaryavada, Asatkaryavada, Parinamavada, Vivartavada

Vivariavaua

Ethics: Karma & Punarjanma theory

12 hrs

Schools of Indian Philosophy

Heterodox Schools - Cārvāka - General introduction with emphasis on Challenge to Veda, Rejection of Transcendental Entities, Ethics (Based on Sarvadarshansamgrah)

Jainism – General introduction with emphasis on Anekāntavāda, Syādvāda, Saptabhanginyāya, Triratna

Buddhism- General Introduction with emphasis on Four Noble Truths

Unit-IV 12 hrs

Sāmkhya – General Introduction with emphasis on Prakṛti, three Guṇas & Puruṣa (Based on Sāmkhyakārikā)

Yoga - Eight fold path of Yoga (Based on Yogasūtra Sādhanapāda and Yogabhāṣya thereon) Nyāya Vaiśesika - General Introduction with emphasis on Tarksamgraha — seven padrathas (overview only)

Mīmāmsā – Concept of dharma

Advaita Vedānta – General Introduction with emphasis on Brahman, Māyā, Jīva and Jagat (Based on Vedāntasāra)

Essential/recommended readings:

- 1. Bhartiya, Mahesh Bhāratīya Darśana Kī Pramukha Samasyāem, Ghaziabad, 1999.
- 2. Chatterjee, S. C. & D. M. Datta *Introduction to Indian Philosophy*, Calcutta University, Calcutta, 1968 (Hindi Translation also).
- 3. Hiriyanna, M. Outline of Indian Philosophy, London, 1956 (also Hindi Translation).
- 4. Shastri, Kuppuswami, A Primer of Indian Logic, 1951 (only introduction).
- 5. Bhartiya, Mahesh Causation in Indian Philosophy, Ghaziabad, 1975.
- 6. Pandey, Ram Chandra *Panorama of Indian Philosophy* (also Hindi version), M.L.B.D., Delhi, 1966.
- 7. Raja, Kuhnan Some Fundamental Problems in Indian Philosophy, MLBD, Delhi, 1974.
- 8. Rishi, Uma Shankar (Ed.), *Sarva-Darshana_Samgraha*, Chowkhamba Vidyabhawan, Varansi, 1984.

Suggested Readings:

- 1. Hiriyanna, M. Outline of Indian Philosophy, London, 1956 (also Hindi Translation).
- 2. Shastri, Kuppuswami, A Primer of Indian Logic, 1951 (only introduction).
- 3. Bhartiya, Mahesh Causation in Indian Philosophy, Ghaziabad, 1975.
- 4. O'Flaherty, Wendy Doniger Karma and Rebirth in Classical Indian Tradition, MLBD, Delhi, 1983.
- 5. Radhakrishnan, S. Indian Philosophy, Oxford University Press, Delhi, 1990.
- 6. Raja, Kuhnan Some Fundamental Problems in Indian Philosophy, MLBD, Delhi, 1974.
- 7. Chatterjee, S. C. The Nyāya Theory of Knowledge, Calcutta, 1968.
- 8. Radhakrishnan, S. Indian Philosophy, Oxford University Press, Delhi, 1990.

DISCIPLINE SPECIFIC CORE COURSE, DISCIPLINE A 5: DSC-5: Indian Epigraphy & Paleography

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Credits		Credit	distributi	on of the course	Eligibility	Pre-
Code	Lecture	Lecture	Tutorial	Practical/Practice	Criteria	requisite of the course
(Discipline A 5) Indian	04	3	1	0	12th Passed	Working Knowledge
Epigraphy & Paleography			. •			of Sanskrit
DSC-5	1.					

Learning Objectives:

This course known as the Indian Epigraphy and Paleography provides background and basis of Indian history of ancient period. Students with no knowledge of Sanskrit but interested in acquiring historical facts direct from their source can be benefitted with this course. It is extremely helpful for those who are willing to involve in archaeological studies.

This course provides basics covered in ancient Indian inscriptions. Some of the terminologies available in inscriptions are introduced here. Unit II of this section provides historical facts through the inscriptions.

It introduces background of the Indian epigraphical study. Importance of inscriptions on the basis of contents, their impact and reflections of society, economy, religious, political instances can also be understood here. It helps to understand about prevailing theories of the origin of the Brahmi script. Development of the letters of this script in different regions in a span of time is introduced. Their causes of change are also made clear to illustrate different forms in the script. Unit III provides the history of study of inscriptions in India. A number of Indian and foreign scholars made attempts in this field. Students are made aware about some prominent scholars who made valuable efforts in this field.

Learning Outcomes:

Contents of this course are related to formation of history of ancient India, so it is an interdisciplinary course within Sanskrit. Students of Sanskrit can understand how important role Sanskrit based inscriptions play in preparing history, and their knowledge of the language can help historians to make a perfect history, undoubtedly. Similarly students of History will find themselves on the positive ground and direct in touch with material related to history of ancient India.

Syllal Unit-	· · · · · · · · · · · · · · · · · · ·			•	12 h
Unit-	Inscription of Rudradāman. Eran Pillar Inscription:				12 hrs
	Status of Samudragupta Iron Pillar Inscription of Candra				
Unit-	•			-	12 hr
	Antiquity of writing in India Observations of foreign scholars Literary evidences				
	Observations made by Indian Epigraphists	5.			
	Importance of the study of Inscriptions		• •		•
	Geographical description Historical evidences			i	
	Society, Religion, Literature				
	Economic Conditions Administration				•
Unit-l	m				12 hrs
	Types of Inscriptions: Praśasti				
	Religious Donations Grants			· .	
	Writing material:				
•	Rocks Pillars				
	Metal Plates Statues			·	•
	Pen, Brush, Chisel, Stylus, Paint/Colour				
Unit-l	V				09 hrs
	Origin of the Brāhmī Script Foreign Origin, Indian Origin, Gre- Theory of South Indian Origin Theory of Aryan Origin.	ek origin, Pl	hoenician ori	igin	v) ms
·	History of reading of Indian Inscriptio Contribution of Epigraphists: G.H. Cunningham, Buhler. System of dating and use of eras:		, Princep, D.	C. Sircar,	

Vikram Era, Śaka Era, Gupta Era, Harśa Era.

Essential/recommended readings:

- 8. Buhler, G, On the origin of the Indian alphabet & numerals.
- 9. Dani, A. H, Indian Paleography
- 10. Ojha, G.H, Bhāratīya Prāćīna Lipimāla (Hindi)
- 11. Pandey, R.B, Bhāratīya Purālipi (Hindi)
- 12. Rana, S.S., Bhāratīya Abhilekha
- 13. Sircar, D.C., Indian Epigraphy, Select Inscriptions (Part-I)
- 14. Upadhyay, V., Prāćīna Bhāratīya Abhilekha (Hindi)

Suggested Readings:

- 4. Classical Age by Altekar, Majumdar, Sircar
- 5. श्रेण्य-य्ग (हिंदी अन्वाद): अल्तेकर, मजुमदार, सरकार
- 6. गुप्त-सम्राट और उनका कालः उदित नारायण राय

Pool of Discipline Specific Electives

DSE-09: Lexicographical Tradition in Sanskrit

Credit distribution, Eligibility and Pre-requisites of the Course

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Course title &	Credits	Credit	distribution	Eligibility	Prerequisite	
Code			Course		criteria	of the
		Lecture	Tutorial	Practical/		course
		•		Practice		
Lexicographical	04	3	1	.0	12th	Working
Tradition in					Passed	Knowledge
Sanskrit						of Sanskrit

Learning Objectives

This course will introduce the theories of writing dictionaries in Sanskrit and its traditions.

Learning outcomes

After doing this course, students will learn the rich lexicographical tradition of Sanskrit field and they will get an outlook of the traditional and modern works in this field which will work as a great source of research tools for their future research endeavors.

Detailed Syllabus

Unit I 12 hrs

Introduction to Sanskrit Lexicography

Origin and Development Brief Introduction to Major Lexicons Types of Dictionaries

Unit II 12 hrs

Tradition of Sanskrit Lexicons

Early Sanskrit Lexicography:

Saravanukarmani, Nighantu and Nirukta

Dhātupāṭha, Gaṇapāṭha and Word lists in Śikṣās, Prātiśākhyas

Unit III 12 hrs

Classical Sanskrit Lexicons

Vācaspatyam:

Textual organisation, Commentaries, Translations and Digitized works Sabdakalpadruma:

Textual organisation, Commentaries, Translations and Digitized works

Halāyudhakośa:

Textual organisation, Commentaries, Translations, and Digitized works Amarakośa:

Textual organisation, Commentaries, Translations, and Digitized works Mankhakośa:

Textual organisation, Commentaries, Translations and Digitized works Medinīkośa:

Textual organisation, Commentaries, Translations and Digitized works

Unit IV

09 hrs

Modern Sanskrit Lexicographers

Monier William, Apte, Acharya Vishbandhu, Jainendra Siddhantakosha, Nyayakosha, M. Bloom Field

Essential/recommended readings

Amarakosha compiled by B.L.Rice, edited by N.Balasubramanya, 1970, page

Additional Resources:

DSE-10: Introduction to Sanskrit Poetics

Credit distribution, Eligibility and Pre-requisites of the Course

Course title	Credits	Credi	t distribution	Eligibility	Prerequisite	
& Code			Course		Criteria	of the
		Lecture	Tutorial	Practical/		course
				Practice		
Introduction	· 04	3	1	0	12th	Working
to Sanskrit					Passed	Knowledge
Poetics						of Sanskrit

Learning Objectives

This course on an introduction to Sanskrit Poetics aims at providing the students with the knowledge of fundamental principles of Sanskrit Poetics in the Indian tradition on the basis of Kāvyaprakāśa and Sahityadarpana.

Learning outcomes

This course will make students aware of the fundamental principles of Sanskrit Poetics. They will be able to recognize the various genres of Sanskrit Poetics, appreciate the objectives of Sanskrit Poetics, and also analyze the structure of a work in terms of the essential ingredients of Sanskrit Poetics as propounded.

Detailed Syllabus

Unit I 09 hrs

Kāvva-Pravojana (objectives of poetry)

Kāvya-Prayojana (objectives of poetry) based on Bhāmaha and Mammata.

Unit II 12 hrs

Kāvya-Hetu (causes of poetry)

Kāvya-Hetu (causes) of poetry based on Dandī, Mammata and Panditarāja Jagannātha.

Unit III 12 hrs

Kāvya- Lakṣaṇa (definition)

Kāvya-Lakṣaṇa (definition) based on Bhāmaha, Daṇḍī, Kuntaka, Mammaṭa and Vishvanath.

Unit IV 12 hrs

Figures of speech (Alankāra)

Figures of speech based on Candraloka -

Definition of Alankāra, Anuprāsa, Yamaka, Upamā, Rūpaka, Utprekṣā, Bhrānti, Sandeha, Kāvyalinga, Śleṣa, Aprastutapraśamsā, Arthāntaranyāsa, Vibhāvanā and Viśesokti,

Essential/recommended readings

- 1. Kāvyālankāra Bhāmaha, Bhāṣyakāra, Devendra Nath Sharma, Bihaar rāṣṭrabhāṣā parisad, Patna, 1962.
- 2. Kāvyaprakāśa Mammaţa, Srinivas Shastri, Sahitya Bhandara Meerut.
- 3. Kāvyādarśa Daṇḍī, Ramchandra Mishra, Chaukhamba Vidyabhavan, Varanasi.
- 4. Rasagangādhara Paņditarāja Jagannātha, Chaukhamba Vidyabhavan, Varanasi
- 5. Vakroktijīvitam (1st Unmeşa) Kuntaka, Ved Prakash Dindoriya, Shivalik Prakashan, Delhi.
- 6. Sāhityadarpaṇa Viśvanātha, Nirupan Vidyalankar, Sahitya Bhandara Meerut
- 7. Candrāloka Jayadeva, Subodha Chandra Pant, MLBD, Delhi.

Additional Resources:

- 1. बलदेव उपाध्याय, संस्कृत—आलोचना, हिन्दी समिति, सूचना विभाग, उ. प्र., 1963.
- 2. Kane P.V., History of Sanskrit Poetics pp.352-991,
- 3. Kane, P.V., 1961, *History of Sanskrit Poetics* and its Hindi translation by Indrachandra Shastri, Motilal Banarasidas, Delhi.

DSE-11: Phonetics in Sanskrit Tradition

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credi	t distribution course	Eligibility Criteria	Prerequisite of the	
		Lecture	Tutorial	Practical/ Practice		course
Phonetics in Sanskrit Tradition	04	3	1	0	12th Passed	Working Knowledge of Sanskrit

Learning Objectives

The main objective of this course is to introduce basic concepts of phonetics in Sanskrit. This course aims at acquainting students with the mechanisms of speech production and to train them to perceive, identify and transcribe speech sounds. To make aware the students to phonetics in Indian tradition.

Learning outcomes

After completing this course the students will learn the basics of Sanskrit Phonetics. They will get acquainted with the sound systems, and the speech production mechanism of Sanskrit. They will also learn the traditional Sanskrit theories and principles of Phonetics.

Detailed Syllabus

Unit I 12 hrs

Brief Introduction to Phonetics

Definition of Phonetics Origin and Development Indian Phonetic traditions Types of Phonetics

Unit II 09 hrs

General Introduction to Pratishakyas and Paniniya Shiksha

Unit III 12 hrs

Introduction to Paniniya Shiksha (Vriddhapaatha)

Sthana-prakarna

Karana-prakarna

Antahprayatna-prakrana

Bahyaprayatna-prakrana

Sthanapeedana-prakrana

Vrittikars-prakrana

Prakrama—prakrana

Nabhitala-prakrana

Unit IV

12 hrs

Introduction to Paniniya Shiksha (Shlokatika)

Paniniya Shiksha (Shlokatika) Based on Shloks 1-22

Essential/recommended readings

- 1. Paniniya Shiksha- Somlekha, Chaukhamba Sanskrit Pratishthan, Delhi, 2014
- 2. पाणिनीयशिक्षा, शिवराज आचार्य कौंडिण्न्यायन, CHAUKHAMBHA VIDYA BHAWAN, 2012

Additional Resources:

DSE-12: Ancient Indian Robotics

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credi	t distribution Course	of the	Eligibility criteria	Prerequisite of the
		Lecture	Tutorial	Practical/ Practice		course
Ancient Indian Robotics	04	3	1	0	Twelfth Passed	Working Knowledge of Sanskrit

Learning Objectives

Ancient Indian Robotics is a comprehensive course that delves into the rich history of robotics in ancient India. The course explores the fascinating world of ancient Indian engineering and automaton technology, shedding light on the remarkable achievements and advancements made by ancient Indian civilizations in the field of robotics. Students will study the principles, designs, and mechanisms of ancient Indian robots, and gain insights into the cultural, social, and scientific contexts that influenced their development. Through a combination of lectures, discussions, and hands-on activities, students will develop a deep understanding of ancient Indian Robotics and its relevance to contemporary technology.

Learning outcomes

After completion of this course, students will be able to

- Explore the historical and cultural background of ancient India and its contributions to the field of
- Study the principles, designs, and mechanisms of ancient Indian robots.
- Examine the cultural, social, and scientific contexts that influenced the development of ancient Indian Robotics.
- Analyze the impact of ancient Indian Robotics on contemporary technology.
- Foster critical thinking, research skills, and the ability to draw connections between historical developments and present-day technology.

Detailed Syllabus

Unit: I

Historical Background

Introduction to ancient Indian civilization and its technological advancements Discussion on the significance of studying ancient Indian Robotics in the context of contemporary technology

Examination of ancient Indian texts and scriptures mentioning robots and automata Exploration of ancient Indian scientific traditions relevant to Robotics

Unit: II

Types of Ancient Indian Robots

Study of various types of ancient Indian robots, such as humanoid robots, animal-shaped robots, and mechanical devices

Analysis of their designs, mechanisms, and functions

Case studies of notable ancient Indian robots, such as the Yantra Sarvasva.

Exploration of religious and mythological beliefs related to robots in ancient Indian society.

Unit: III

Scientific and Mathematical Foundations

Study of scientific concepts/knowledge utilized in ancient Indian Robotics. Examination of the instruments developed by ancient Indian scientists

Unit: IV

Samarangan-sutrdhar

Verse 101-107, Chapter 31 (दृग्गीवातल ,योगतस्ते गुणानाम् -Ed. T. Ganpati Shastri)

Essential/recommended readings

- 1. SamranganSutradhar by Shukla, Dr.dijendranath, भारत भारती प्रेस, 1 अन्सारी रोड दरयागंज दिल्ली-6 1965
- 2. SamranganSutradhar S.K.Jugnu. ISBN: 9788170803676. 2011. Publisher: Chaukhamba Sanskrit Series.
- 3. मयमतम्, डॉ श्रीमती शैलजा पाण्डेय, चौखम्बा सुरभारती प्रकाशन, वाराणसी, 2007
- 4. **History of Mechanical Inventions in Ancient India** by Debiprasad Chattopadhyaya FIRMA KLM PRIVATE LIMITED 257-B, B. B. Ganguly Street Calcutta 700 012 INDIA
- 5. Ancient India and the Indian Robotics by Jayant Vishnu Narlikar
- 6. The Wonder That Was India by A.L. Basham
- 7. Indian Scientific Heritage: An Introduction by P.R. Sarkar
- 8. Indian Civilization and Culture by S.N. Sadasivan