

**INDEX**  
**DEPARTMENT OF SANSKRIT**  
**Semester - III**

<b>S. No.</b>	<b>Contents</b>	<b>Page No.</b>
<b>1</b>	<b>BA(Hons.) SANSKRIT</b>  1. DSC-7: Classical Sanskrit Literature: Drama 2. DSC-8: Sanskrit Linguistics 3. DSC-9: Indian Epigraphy I	<b>2-7</b>
<b>2</b>	<b>BA (Prog.) with Sanskrit as Major</b>  1. DSC-5: Sanskrit Theatre 2. DSC-6: Gītā and Upaniṣad	<b>8-11</b>
<b>3</b>	<b>BA (Prog.) with Sanskrit as Minor</b>  1. DSC-3: Sanskrit Theatre	<b>12-13</b>
<b>4</b>	<b>Pool of Discipline Specific Electives</b>  1. DSE-1: Indian System of Logic and Debate 2. DSE-2: Fundamentals of Ayurveda 3. DSE-3: Computational Linguistics for Sanskrit 4. DSE-4: Web Application Development for Sanskrit 5. DSE-5: Environmental Awareness in Sanskrit Literature 6. DSE-6: Art of Balanced Living	<b>14-29</b>
<b>5</b>	<b>Common Pool of Generic Elective</b>  1. GE-7: Fundamentals of Indian Philosophy 2. GE-8: Indian Epigraphy & Palaeography	<b>30-33</b>

**BA (HONS.) SANSKRIT****DSC-7: Classical Sanskrit Literature: Drama****Credit distribution, Eligibility and Pre-requisites of the Course**

Course title & Code	Credits	Credit distribution of the Course			Eligibility criteria	Prerequisite of the course
		Lecture	Tutorial	Practical/ Practice		
Classical Sanskrit Literature: Drama	04	3	1	0	Semester II Passed	Nil

**Learning Objectives**

This course is intends to acquaint the students with two of the most famous dramaturgical works of Sanskrit literature that represent the developmental phases of Sanskrit drama.

**Learning outcomes**

After the completion of this course, the students will be well informed about the vastness and richness of classical Sanskrit dramatic tradition. This course will enhance the ability of the learners for critical thinking on issues that relate to culture, polity, morality, religion etc. as reflected in the prescribed texts. The course will give the students a basic knowledge of the formal patterns and structures of Sanskrit drama in the tradition of Bharata's Natya Shastra.

**Detailed Syllabus****Unit I****Abhijñānaśākuntalam– Kālidāsa I & IV**

Abhijñānaśākuntalam : Act I and Act IV

(Text Reading ,Grammar, Translation, Explanation, Introduction to the Author, Purpose and design of Śākuntalam., Popular sayings about the Author, Poetic excellence, Drama's Plot, Timing of Action. Personification of nature, Linguistic style of Kālidāsa, Dhvani , Upamā of Kālidāsa, and other problems related to the text).

**Unit II****Mudrārākṣasam –Act- I , Act- II and Act –III**

**Mudrārākṣasam: Act-I**

**Mudrārākṣasam: Act-II**

**Mudrārākṣasam: Act-III**

(Text Readings ,Grammar, Translation, Explanation, Introduction, Author, Purpose and design of *Mudrārākṣasa*. Poetic excellence, Plot, Timing of Action, Thematic analysis and other problems related to text.)

**Note- Following verses are not to be taught and will not be asked in question-paper.**

Act I-11, 12, 13, 15, 16 and 22

Act II-2, 6, 12 and 14

Act III-7, 8, 9, 10, 11, 19, 25, 27, 28 and 30.

### Unit III

#### Critical survey of Sanskrit Drama

Origin and Development of Sanskrit Drama: Some prominent dramatists and their works:- Bhāsa, Śūdraka, ŚrīHarṣa, Bhavabhūti, and Bhaṭṭanārāyaṇa.

### Unit IV

#### Some Dramaturgical Terms

Nāṇḍī, Prastāvanā, Sūtradhāra, Pāripārśvika, Vidūśaka, Kañcukī, Viṣkambhaka, Praveśaka, Chūlikā, Añkāśya, Añkāvatāra, Prakāśa, Svagata, Barata-vākya,

### Essential/recommended readings

- अभिज्ञानशाकुन्तलम्, व्या० सुबोधचन्द्र पन्त मोतीलाल बनारसीदास, दिल्ली।
- अभिज्ञानशाकुन्तलम्, व्या० सुरेन्द्रदेव शास्त्री, रामनारायण बेनीप्रसाद,, इलाहाबाद।
- अभिज्ञानशाकुन्तलम्, व्या० नारायणराम आचार्य निर्णयसागर प्रेस।
- मुद्राराक्षसम् चौखम्बा विद्याभवन, वाराणसी।
- मुद्राराक्षसम् निरूपण विद्यालंकार, , साहित्य भण्डार मेरठ।
- मुद्राराक्षसम्, रमाशंकर त्रिपाठी, वाराणसी ।
- भगवतशरण उपाध्याय, कालिदास, कवि और काव्य, भारतीय ज्ञानपीठ, काशी.
- हजारीप्रसाद द्विवेदी, कालिदास की लालित्य योजना, राजकमल प्रकाशन.
- पंकज कुमार, मिश्र शाकुन्तलविषयक रम्यत्व की अवधारणा, परिमल पब्लिकेशन, दिल्ली
- Abhijñānaśākuntalam, C.R.Devadhar (Ed.), MLBD, Delhi.
- Abhijnanasakuntalam, M.R. Kale (Ed.), MLBD, Delhi.
- Gajendra Gadakar (Ed.), Bose, Ramendramohan, Abhijñanas Agency, 10 College, Square, Calcutta.
- Mudrārāksasam, M.R. Kale(Ed.),MLBD, Delhi.
- Mudraraksasam, K.T.Telang(Ed.), Nag Publishers, Delhi.

### Additional Resources:

1. Minakshi Dalal, *Conflict in Sanskrit Drama*, Somaiya Publication Pvt. Ltd.
2. Ratnamayi Dikshit, *Women in Sanskrit Dramas*, Meherchand Lachhman Das, Delhi.
3. A.B. Keith, *Sanskrit Drama*, Oxford University Press London, 1970.
4. G. K. Bhat, *Sanskrit Drama*, Karnataka University Press, Dharwar 1975.
5. Henry W. Wells, *Six Sanskrit Plays*, Asia Publishing House, Bombay.

**Examination scheme and mode: Subject to directions from the Examination Branch/University of Delhi from time to time**

## DSC-8: Sanskrit Linguistics

### Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Prerequisite of the course
		Lecture	Tutorial	Practical/ Practice		
Sanskrit Linguistics	04	3	1	0	Semester II Passed	Nil

### Learning Objectives

This course intends to acquaint the students with basic knowledge of Sanskrit linguistics. The Primary objective of the course is to familiarise the learners with the concepts and theories of modern Linguistics and encourage them to analyse Sanskrit Linguistically .

### Learning outcomes

After the completion of this course, the students will be able to form a fundamental knowledge about the modern development of the subject of Linguistic and examine Sanskrit language in the light of the structures propounded by the modern Linguistics .

### Detailed Syllabus

#### Unit I

भाषा का स्वरूप, भाषा की परिभाषा, भाषा की विशेषताएँ, भाषाविज्ञान का स्वरूप, भाषाविज्ञान के मुख्य अङ्ग एवं भाषाविज्ञान की उपादेयता

#### Unit II

संस्कृत की दृष्टि से ध्वनिविज्ञान, पदविज्ञान, वाक्यविज्ञान एवं अर्थविज्ञान का सामान्य अवबोध

#### Unit III

मूल भारोपीय भाषा की संकल्पना एवं उसकी आधुनिक समीक्षा, भारोपीय भाषापरिवार एवं संस्कृत

#### Unit IV

संस्कृत एवं तुलनात्मक भाषाविज्ञान के इतिहास का सामान्य परिचय

**Essential/recommended readings**

1. तिवारी, भोलानाथ, तुलनात्मक भाषाविज्ञान, मोतीलाल बनारसीदास, दिल्ली, 1974.
2. तिवारी, भोलानाथ, भाषाविज्ञान, किताबमहल, इलाहाबाद, 1992.
3. द्विवेदी, कपिलदेव, भाषाविज्ञान एवं भाषाशास्त्र, विश्वविद्यालय प्रकाशन, वाराणसी, 2001.
4. व्यास, भोलाशंकर, संस्कृत का भाषाशास्त्रीय अध्ययन, चौखम्बा विद्याभवन, 1957.
5. शर्मा, देवीदत्त, भाषिकी और संस्कृत भाषा, हरियाणा साहित्य अकादमी, चंडीगढ़
6. शर्मा, देवीदत्त, संस्कृत का ऐतिहासिक एवं संरचनात्मक परिचय (a Historical and Structural Introduction to Sanskrit), हरियाणा साहित्य अकादमी, चण्डीगढ़
7. शर्मा, देवेन्द्रनाथ, भाषाविज्ञान की भूमिका, राधाकृष्ण प्रकाशन, दिल्ली, 2014
8. सिंह, कर्ण, भाषा विज्ञान (Comparative Philology and History of Linguistics), साहित्य भण्डार, सुभाष बाज़ार, मेरठ, 250002
1. Burrow, T., Sanskrit Language (also trans. into Hindi by Bholashankar Vyas), Chaukhamba Vidya Bhawan, Varanasi, 1991.
2. Crystal, David, The Cambridge Encyclopedia of Language, Cambridge, 1997.
3. Ghosh, B.K., Linguistic Introduction to Sanskrit, Sanskrit Pustak Bhandar, Calcutta, 1977.
4. Gune, P.D., Introduction to Comparative Philology, Chaukhamba Sanskrit Pratisthan, Delhi, 2005.
5. Jespersen, Otto, Language: Its Nature, Development and Origin, George Allen & Unwin, London, 1954.
6. Murti, M., An Introduction to Sanskrit Linguistics, D.K. Srimannarayana, Publication, Delhi, 1984.
7. Taraporewala, Elements of the Science of Language, Calcutta University Press, Calcutta, 1962.
8. Verma, S.K., Modern Linguistics, Oxford University Press, Delhi,
9. Woolner, A.C., Introduction to Prakrit, Bhartiya Vidya Prakashan, Varanasi.

**Examination scheme and mode: Subject to directions from the Examination Branch/University of Delhi from time to time**

## DSC-9: Indian Epigraphy I

### Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Prerequisite of the course
		Lecture	Tutorial	Practical/ Practice		
Indian Epigraphy I	04	3	1	0	Semester II Passed	Nil

### Learning Objectives

This course aims at acquainting the students with the basic knowledge of resources epigraphical in Sanskrit, the only source which directly reflects the society, politics, geography and economy of the time. The course is also intended to help students know the different styles of Sanskrit writings.

### Learning outcomes

After the completion of this course, the learners will be aware of the different types of inscription. He will have a sound idea about the relationship of Epigraphy and Historiography.

### Detailed Syllabus

#### Unit I: Epigraphy

Introduction to Epigraphy and Types of Inscriptions  
Role of Indian Inscriptions in the reconstruction of Ancient Indian History and Culture

#### Unit II

History of Epigraphical Studies in India  
History of Decipherment of Ancient Indian Scripts, Contribution of Indologists in the field of Epigraphy: Fleet, Cunningham, Prinsep, Bühler, D.C. Sircar, Gaurishankar Ojha, Rajbali Pandey, R.G. Bhandarkar.

#### Unit III: Palaeography

Antiquity of the Art of Writing  
Writing Materials, Inscribers and Libraries  
Introduction to Ancient Indian Scripts. Reading and writing skills of Asokan Brahmi Script  
Introduction to Gupta Brahmi, Kharoshthi, Sharda, Kutil,

#### Unit IV: Chronology

General Introduction to Ancient Indian Chronology  
System of Dating the Inscriptions (Chronograms)  
Main Eras- Saptarshi, Kali, Veer Samvat, Bauddha Samvat, Maurya Samvat, Vikrama Era, Śaka Samvat, Gupta Samvat, Harsha Samvat, Solar Year and Lunar Year.

**Essential/recommended readings**

1. अभिलेख-मंजूषा, रणजीत सिंह सैनी, न्यूभारतीय बुक कार्पोरेशन, दिल्ली, 2000.
2. उत्कीर्णलेखपञ्चकम्, झा बन्धु, वाराणसी, 1968.
3. उत्कीर्णलेखस्तबकम्, जियालाल काम्बोज, ईस्टर्न बुकलिकर्स, दिल्ली.
4. भारतीय अभिलेख, एस.एस. राणा, भारतीय विद्याप्रकाशन, दिल्ली, 1978.
5. भारतीय प्राचीन लिपिमाला, गौरीशंकरहीराचन्द ओझा, अजमेर, 1918.
6. Select Inscriptions (Vol.I) - D.C. Sircar, Calcutta, 1965.
7. नारायण, अवध किशोर एवं ठाकुरप्रसाद वर्मा : प्राचीनभारतीय लिपिशास्त्र और अभिलेखिकी , वाराणसी, 1970.
8. पाण्डे, राजबली : भारतीय पुरालिपि, लोकभारती प्रकाशन, इलाहाबाद, 1978.
9. ब्यूलर, जॉर्ज : भारतीय पुरालिपि शास्त्र, (हिन्दीअनु०) मङ्गलनाथ सिंह, मोतीलाल बनारसीदास, दिल्ली, 1966.
10. मुले, गुणाकर : अक्षरकथा, प्रकाशनविभाग, भारतसरकार, दिल्ली, 2003.
11. राही, ईश्वरचन्द : लेखनकला का इतिहास (खण्ड 1—2), उत्तरप्रदेश हिन्दीसंस्थान, लखनऊ, 1983.
12. सरकार, डी.सी. : भारतीय पुरालिपिविद्या, (हिन्दीअनु०) कृष्णदत्त वाजपेयी, विद्यानिधि प्रकाशन, दिल्ली, 1996.
13. सहाय, शिवस्वरूप : भारतीय पुरालेखों का अध्ययन, मोतीलाल बनारसीदास, दिल्ली. Dani, Ahmad Hasan: *Indian Paleography*, Oxford, 1963.
14. Mishra, Vinod K., Calenders of Indian Motilal Banarsidass, Delhi-110007, 2020.
15. Pillai, Swami Kannu & K.S. Ramchandran: *Indian Chronology (Solar, Lunar and Planetary)*, Asian Educational Service, 2003.
16. Satyamurty, K.: *Text Book of Indian Epigraphy*, Lower Price Publication, Delhi, 1992.

**Examination scheme and mode: Subject to directions from the Examination Branch/University of Delhi from time to time**

## BA (PROG.) WITH SANSKRIT AS MAJOR

### DSC-5: Sanskrit Theatre

#### Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Prerequisite of the course
		Lecture	Tutorial	Practical/ Practice		
(Discipline A-3) Indian Theatre	04	3	1	0	Semester II Passed	Nil

#### Learning Objectives

With its audio-visual characteristics, drama is considered to be the best among all forms of arts. The history of theatre in India is very old and the glimpses of the Theatre can be find in the hymns of Rigveda. The dramaturgy was later developed by Bharat. The objectives of this curriculum are to help the students to identify the richness of drama and to become aware of the classical aspects of Theatre.

#### Learning outcomes

After going through this course students will be able to know about several theoretical aspects of theatrical performance and production. They will become aware of the many types of theatres, their design and stage setting, acting, dress and makeup etc. Students also become familiar with the main principals of theatre performance and appreciation.

#### Detailed Syllabus

##### Unit I

Origin and development of stage in different ages:  
Pre-historic, Vedic age. Epic-puranic age

##### Unit II

Theatre: Types and Constructions

##### Unit III

Drama: Subject-Matter (vastu),  
Acting: Āṅgika, Vācika, Sāttvika and Āhārya

##### Unit IV

Actor (netā), *Rasa* (Sentiment)



### Essential/recommended readings

1. नाट्यशास्त्रम्, (सम्पा. एवं व्या.) डा. पारसनाथ द्विवेदी, सम्पूर्णानन्दसंस्कृतविश्वविद्यालय, वाराणसी।
2. राधावल्लभ त्रिपाठी (सम्पा. एवं संक.), संक्षिप्तनाट्यशास्त्र हिन्दी भाषानुवादसहित, वाणी प्रकाशन दिल्ली 2008
3. राधावल्लभ त्रिपाठी, भारतीय नाट्यः स्वरूप एवं परम्परा, संस्कृत परिषद्, सागर मध्य प्रदेश 1988
4. हजारी प्रसाद द्विवेदी (सं.), नाट्यशास्त्र की भारतीय परम्परा एवं दशरूपक, राजकमल प्रकाशन, दिल्ली 1963
5. सीताराम झा, नाटक और रंगमंच, बिहार राष्ट्रभाषा परिषद् पटना 1982
6. बाबूलाल शुक्ल शास्त्री (सम्पा.), नाट्यशास्त्र (1-4 भाग), चौखम्भा संस्कृत संस्थान, वाराणसी, 1984
7. राधावल्लभ त्रिपाठी, नाट्यशास्त्र विश्वकोश (1-4 भाग), प्रतिभा प्रकाशन दिल्ली 1999
8. राधावल्लभ त्रिपाठी, भारतीय नाट्यशास्त्र की परम्परा और विश्व रंगमंच, प्रतिभा प्रकाशन दिल्ली।
9. ब्रजमोहन चतुर्वेदी, नाट्यशास्त्रम्, विद्यानिधि प्रकाशन दिल्ली, 2003
10. केशवरामुसलगांवकर, संस्कृत नाट्य मीमांसा, परिमल प्रकाशन, दिल्ली ।
11. शिवशरण शर्मा, आचार्य भरत, मध्य प्रदेश हिन्दी ग्रन्थ अकादमी, भोपाल ।

### Suggested Readings:

1. रामलखन शुक्ल, संस्कृत नाट्य कला, मोतीलाल बनारसीदास, नई दिल्ली, 1970
2. गोविन्द चन्द्र राय, नाट्यशास्त्र में रंगशालाओं के रूप, काशी, 1958
3. भानुशंकर मेहता, भरत नाट्यशास्त्र तथा आधुनिक प्रासंगिकता, वाराणसी ।
4. वाचस्पति मेहता, भारतीय नाट्य परम्परा एवं अभिनयदर्पण, इलाहाबाद, 1967
5. लक्ष्मी नारायण लाल, रंगमंच और नाटक की भूमिका, दिल्ली, 1965
6. लक्ष्मी नारायण गर्ग, भारत के लोकनाट्य, हाथरस संगीत कार्यालय, 1961
7. सीताराम चतुर्वेदी, भारतीय तथा पाश्चात्य रंगमंच, हिन्दी समिति, लखनऊ 1964
8. जगदीशचन्द्र माथुर, परम्पराशील नाट्य, बिहार राष्ट्रभाषा परिषद्, पटना, 1961
9. C.B. Gupta, Indian Theatre, Varanasi, 1954.
10. R.K. Yajnick, Indian Theatre, London, 1933.
11. Tarla Mehta, Sanskrit Play Production in Ancient India, MLBD, Delhi, 1999.
12. Allardyce Nicoll, The Theatre and Dramatic Theory, London, 1962.

**Examination scheme and mode: Subject to directions from the Examination Branch/University of Delhi from time to time**

## DSC-6: Gītā and Upaniṣad

### Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Prerequisite of the course
		Lecture	Tutorial	Practical/ Practice		
(Discipline B-3) Gītā and Upaniṣad	04	3	1	0	Semester II Passed	Nil

### Learning Objectives

Objective of this course is to get students to know about the principle thesis of the Gītā and the Upaniṣad.

### Learning outcomes

The course will enable the students to familiarize themselves with the II Chapter of the Gita and the general introduction to Upaniṣad philosophy. After the completion of this course the learner will be exposed to the Philosophy of Gita and Upaniṣad.

### Detailed Syllabus

#### Unit I

##### General introduction to Philosophy of Gita:

Jnana Yoga, Karmayoga and Bhakti Yoga.

##### Gītā: Chapter Two – (Verse: 09-30)

Nature of Atman, (Text Reading, Grammar, Translation, Explanation, Question based on Shlokas)

#### Unit II

##### Gītā: Chapter Two – (Verse: 31-54)

Karmyog, (Text Reading, Grammar, Translation, Explanation, Question based on Shlokas)

##### Gītā: Chapter Two – (Verse: 55-68)

Sthitaprajya, (Text Reading, Grammar, Translation, Explanation, Question based on Shlokas)

#### Unit III

##### General Introduction to Upaniṣadic Philosophy

General Introduction to Upaniṣadic Philosophy: ātman, brahman, īśvara, karma, sr̥ṣṭi.

#### Unit IV

##### Upaniṣad: Īśāvāsyopniṣad

Text Introduction to Īśāvāsyopniṣad

Text Reading of Īśāvāsyopniṣad

### **Essential/recommended readings**

1. भगवद्गीता, शाङ्करभाष्य अनुवाद सहित, अनुवादक- श्री हरिकृष्णदास गोयन्दका, गीता प्रेस गोरखपुर।
2. गीताभाष्यनवाम्बरा, डा. शिवनारायण शास्त्री।
3. श्रीमद्भगवद्गीता, साधकसञ्जीवनी टीका, रामसुखपरमदास, गीताप्रअस गोरखपुर।
4. हनुमान प्रसाद पोद्दार (सम्पादक), ईशावास्योपनिषद्, गीताप्रेस गोरखपुर ।
5. शिवनारायण शास्त्री (व्या), ईशावास्योपनिषद्, परिमल प्रकाशन, दिल्ली, 1996 ।
6. शशि तिवारी, ईशावास्योपनिषद्: भूमिका एवं व्याख्या, भारतीय विद्या प्रकाशन, दिल्ली,
7. Radhakrushana, Gītā.
8. Gītā with Hindi Translation, Gita Press, Goraphpur

### **Suggested Readings:**

1. राजबली पाण्डेय, हिन्दू संस्कार ।
2. पी.बी. काणे, धर्मशास्त्र का इतिहास (खण्ड-I) ।
3. भारतीय दर्शन, आचार्य बलदेव उपाध्याय, चौखम्भा ओरियण्टलिया, वाराणसी।
4. भारतीय दर्शन की रूपरेखा, आचार्य बलदेव उपाध्याय, चौखम्भा ओरियण्टलिया, वाराणसी।
5. भारतीय दर्शन का इतिहास, डा. एस. एन. दासगुप्त, राजस्थान हिन्दी ग्रन्थ अकादमी।
6. Rajbali Pandey, Hindu Samskar.
7. शिवदत्त ज्ञानी, भारतीय संस्कृति ।
8. Allardyce Nicoll, the Theatre and Dramatic Theory, London, 1962.

**Examination scheme and mode: Subject to directions from the Examination Branch/University of Delhi from time to time**

## BA (PROG.) WITH SANSKRIT AS NON-MAJOR

### DSC-3: Sanskrit Theatre

#### Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the Course			Eligibility criteria	Prerequisite of the course
		Lecture	Tutorial	Practical/ Practice		
(Discipline A-3) Indian Theatre	04	3	1	0	Semester II Passed	Nil

#### Learning Objectives

With its audio-visual characteristics, drama is considered to be the best among all forms of arts. The history of theatre in India is very old and the glimpses of the Theatre can be find in the hymns of Rigveda. The dramaturgy was later developed by Bharat. The objectives of this curriculum are to help the students to identify the richness of drama and to become aware of the classical aspects of Theatre.

#### Learning outcomes

After going through this course students will be able to know about several theoretical aspects of theatrical performance and production. They will become aware of the many types of theatres, their design and stage setting, acting, dress and makeup etc. Students also become familiar with the main principals of theatre performance and appreciation.

#### Detailed Syllabus

##### Unit I

Origin and development of stage in different ages:  
Pre-historic, Vedic age. Epic-puranic age

##### Unit II

Theatre: Types and Constructions

##### Unit III

Drama: Subject-Matter (vastu),  
Acting: Āṅgika, Vācika, Sāttvika and Āhārya

##### Unit IV

Actor (netā), *Rasa* (Sentiment)

#### Essential/recommended readings

1. नाट्यशास्त्रम्, (सम्पा. एवं व्या.) डा. पारसनाथ द्विवेदी, सम्पूर्णानन्दसंस्कृतविश्वविद्यालय, वाराणसी।
2. राधावल्लभ त्रिपाठी (सम्पा. एवं संक.), संक्षिप्तनाट्यशास्त्र हिन्दी भाषानुवादसहित, वाणी प्रकाशन दिल्ली 2008
3. राधावल्लभ त्रिपाठी, भारतीय नाट्यः स्वरूप एवं परम्परा, संस्कृत परिषद्, सागर मध्य प्रदेश 1988
4. हजारी प्रसाद द्विवेदी (सं.), नाट्यशास्त्र की भारतीय परम्परा एवं दशरूपक, राजकमल प्रकाशन, दिल्ली 1963
5. सीताराम झा, नाटक और रंगमंच, बिहार राष्ट्रभाषा परिषद् पटना 1982
6. बाबूलाल शुक्ल शास्त्री (सम्पा.), नाट्यशास्त्र (1-4 भाग), चौखम्भा संस्कृत संस्थान, वाराणसी, 1984
7. राधावल्लभ त्रिपाठी, नाट्यशास्त्र विश्वकोश (1-4 भाग), प्रतिभा प्रकाशन दिल्ली 1999
8. राधावल्लभ त्रिपाठी, भारतीय नाट्यशास्त्र की परम्परा और विश्व रंगमंच, प्रतिभा प्रकाशन दिल्ली।
9. ब्रजमोहन चतुर्वेदी, नाट्यशास्त्रम्, विद्यानिधि प्रकाशन दिल्ली, 2003
10. केशवरामुसलगांवकर, संस्कृत नाट्य मीमांसा, परिमल प्रकाशन, दिल्ली ।
11. शिवशरण शर्मा, आचार्य भरत, मध्य प्रदेश हिन्दी ग्रन्थ अकादमी, भोपाल ।

### Suggested Readings:

1. रामलखन शुक्ल, संस्कृत नाट्य कला, मोतीलाल बनारसीदास, नई दिल्ली, 1970
2. गोविन्द चन्द्र राय, नाट्यशास्त्र में रंगशालाओं के रूप, काशी, 1958
3. भानुशंकर मेहता, भरत नाट्यशास्त्र तथा आधुनिक प्रासंगिकता, वाराणसी ।
4. वाचस्पति मेहता, भारतीय नाट्य परम्परा एवं अभिनयदर्पण, इलाहाबाद, 1967
5. लक्ष्मी नारायण लाल, रंगमंच और नाटक की भूमिका, दिल्ली, 1965
6. लक्ष्मी नारायण गर्ग, भारत के लोकनाट्य, हाथरस संगीत कार्यालय, 1961
7. सीताराम चतुर्वेदी, भारतीय तथा पाश्चात्य रंगमंच, हिन्दी समिति, लखनऊ 1964
8. जगदीशचन्द्र माथुर, परम्पराशील नाट्य, बिहार राष्ट्रभाषा परिषद्, पटना, 1961
9. C.B. Gupta, Indian Theatre, Varanasi, 1954.
10. R.K. Yajnick, Indian Theatre, London, 1933.
11. Tarla Mehta, Sanskrit Play Production in Ancient India, MLBD, Delhi, 1999.
12. Allardyce Nicoll, The Theatre and Dramatic Theory, London, 1962.

**Examination scheme and mode: Subject to directions from the Examination Branch/University of Delhi from time to time**

## POOL OF DISCIPLINE SPECIFIC ELECTIVES

### DSE-1: Indian System of Logic and Debate

#### Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the Course			Eligibility criteria	Prerequisite of the course
		Lecture	Tutorial	Practical/ Practice		
Indian System of Logic and Debate	04	3	1	0	Semester II Passed	Nil

#### Learning Objectives

This course aims at getting the students acquainted with the fundamental Indian principles of debate and its applications, not just in the philosophical discourse, but also in every area of knowledge. The course intends to bring the indigenous science of argumentation to the fore. It also intends to help the students develop logical faculty of discourse mind and to perceive the world in a more rational way in their day-to-day life situations.

#### Learning outcomes

At the end of this course, the learners will be able to form a comprehensive idea about different levels, layers and components of Indian science of debate.

#### Detailed Syllabus

##### Unit I

##### Fundamentals of the Science of Debate

Science of inquiry (Anvīkṣikī) & its importance, Growth of Anvīkṣikī into the art of Debate, The council of debate (Pariṣad) & its types, Discussant (Vādī), Opponent (Prativādī), Madhyastha (Judge) and Prāśnika.

**Note:** The definitions and concepts are to be taken from *Nyāyasūtra*, *Nyāyakośa* of Bhimacharya Jhalkikar and *A History of Indian Logic* by S. C. Vidyabhushan, Chapter III of Section I.

##### Unit II

##### Syllogistic Logic

Inference (Anumāna) & its key terms, viz. major term or probandum (Sādhya), middle term or probans (Hetu), minor term (Pakṣa), illustration (Sapakṣa), contrary-illustration (Vipakṣa), basic understanding of invariable concomitance (Vyāpti) & its types, establishing Vyāpti through inductive method, demonstration of pervasion- Upādhi and Tarka, nature and variety of Tarka, Pañcāvayava-vākya.

Note: The definitions and concepts are to be taken from the Tarkasaṃgraha, Tarkabhāṣā and the Nyāya Theory of Knowledge by S. C. Chatterjee, Chapters XI-XIV.

### Unit III

#### Theory of Debate

Basic understanding of the following terms: Example (Dṛṣṭānta), Tenet (Siddhānta), Ascertainment (Nirṇaya), Dialogue (Kathā) and its kinds, Discussion (Vāda), Wrangling (Jalpa), Cavil (Vitaṇḍā).

### Unit IV

Quibble (Chala) & its kinds; Analogue (Jāti), Point of defeat (Nigrahasthāna) & its kinds- Hurting the proposition (Pratijñāhāni), Shifting of proposition (Pratijñāntara), Opposing the proposition (Pratijñāvirodha), Renouncing the Proposition (Pratijñāsannyāsa), Admission of an opinion (Matānujñā).

Note: The definitions and concepts are to be taken from the Nyāyasūtra, Nyāyakośa by Bhimacharya Jhalkikar and A History of Indian Logic by S. C. Vidyabhushan, Chapter II of Section II.

### Essential/recommended readings

1. Vidyabhushan, Satish Chandra, A History of Indian Logic, MLBD, Delhi, 1962. (Chapter III of Section I & Chapter II of Section II only)
2. Potter, Karl H., Encyclopaedia of Indian Philosophies, Vol. II, Motilal Banarsidass, Delhi, 1977.
3. Jhalkikar, Bhimacharya, Nyāyakośaḥ, Bhandarkar Oriental Research Institute, Poona, 1997 (reprint of fourth edition)
4. Athalye & Bodas, Tarkasaṃgraha, Mumbai, 1920. (only introduction & exposition of anumāna)
5. Shastri, Kuppaswami, A Primer of Indian Logic, Madras, 1951 (only introduction & exposition of anumāna).
6. Tarkasaṃgraha of Annambhaṭṭa (with Dipika), (Ed. & Tr. in Hindi), Kanshiram & Sandhya Rathore, MLBD, Delhi 2007.
7. Bagchi, S. S. – Inductive Logic : A Critical Study of Tarka & Its Role in Indian Logic, Darbhanga, 1951.
8. Chatterjee, S. C. & D. M. Datta - Introduction to Indian Philosophy, Calcutta University, Calcutta, 1968 (Hindi Translation also)
9. Chatterjee, S. C. – The Nyāya Theory of Knowledge, Calcutta, 1968.
10. Hiriyanna, M. - Outline of Indian Philosophy, London, 1956 (also Hindi Translation).
11. Jha, Harimohan – Bhāratīya Darśana Paricaya, Vol. I (Nyāya Darśana), Darbhanga.
12. Matilal, B. K. – The Character of Logic in India, Oxford, 1998.
13. Radhakrishnan, S. - Indian Philosophy, Oxford University Press, Delhi, 1990.

**Examination scheme and mode: Subject to directions from the Examination Branch/University of Delhi from time to time**

## DSE-2: Fundamentals of Ayurveda

### Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility Criteria	Prerequisite of the course
		Lecture	Tutorial	Practical/ Practice		
Fundamentals of Ayurveda	04	3	1	0	Semester II Passed	Nil

### Learning Objectives

Āyurveda is the most ancient but still a living healthcare system of India. This course will introduce students to the basic concepts of the Science of Āyurveda. The major objective of the course is to make the learners understand the basic principles and concepts of preventative and curative medicines, health maintenance, diet and nutrition, usage of commonly used spices and herbs and therapeutic procedures in Āyurveda

### Learning outcomes

Graduates who read this course should be able to know the ancient tradition of Indian Medicine system, which talks about not only to the physical health but also a healthy lifestyle. After reading this paper students will know the history of Āyurveda through original sources of ancient medicine system as enshrined in the Sanskrit texts like Charaka Saṁhitā, Śuśruta Saṁhitā, Aṣṭāṅga Hridaya etc. and they will also get the basic knowledge of eight departments of Āyurveda. Second section of this paper is related to ancient physiology.

### Detailed Syllabus

#### Unit I

##### Introduction to Āyurveda

History of Āyurveda in the pre-Charaka period, the two schools of Āyurveda: Dhanvantari and Punarvasu.

**Ācāryas of Āyurveda:** Charaka, Sushruta, Vagbhata, Madhava, Sharngadhara and Bhavamishra

##### Basic Principles of Āyurveda

- 1. The Pancamahābhūtas:** Ākāśa (Space), Vāyu (Air), Tejas or Agni (Fire), Jala (Water) and Prithivī (Earth).
- 2. The Triguṇas:** Sattva, Rajas and Tamas.
- 3. The Tridoṣas:** Vāta, Pitta and Kapha.
- 4. The Saptadhātus:** Rasa (fluid), Rakta (blood), Māmsa, Meda (fat) Asthi, Majjā and Śukra.
- 5. The Trayodaśāgnis:** Jatharāgni (gastric fire), Saptadhātvagni and Pancabhūtāgni.
- 6. The Trimalas:** Purīṣā (faeces), Mūtra (urine) and Sveda (sweat).



## Unit II

### Eight branches of Āyurveda (Aṣṭāṅga Āyurveda):

1. Kāy cikitsā (General Medicine)
2. Kaumār abhṛtya (Pediatrics)
3. śalyatantra (Surgery)
4. Śālākya-Tantra (Ent. and Ophthalmology)
5. Bhūta Vidyā (Psychiatry Medicine).
6. Viṣa Vijñāna (Toxicology).
7. Rasāyana (Rejuvenates).
8. Vājīkaraṇa (Aphrodisiac).

## Unit III

### Lifestyle and Preventive Medicine:

1. Understanding Health and Disease in Āyurveda
2. Ayurvedic Svastha Vṛtta (Preventive Medicine): Seasonal regimen & Social Conduct and its effect on health.
3. Carakasamhitā – Sūtra-sthānam (Tasyāśītiyādhyāya)  
Regimen of Six Seasons (Ṛtucharyā) : Hemanta (Early Winter), Śiśira (Winter), Vasanta (Spring), Grīṣma (Summer), Varṣā (Rainy) and Śarada (Autumn).

## Unit IV

### Diagnosis of illness (Roga-Parīkṣaṇa)

Eight ways of diagnosing illness-

Nāḍī (Pulse Examination), Mūtra (Urine Examination), Mala (Stool Examination), Jihvā (Tongue Examination), Śabda (Speech Examination), Sparśa (Touch Examination), Dṛk (Vision Examination), and Ākṛiti (Appearance).

### Pancha kosha

The holistic concept of body in Indian Medicine Based on Taittirīyopaniṣad - Bṛhguvalli, Anuvāka- (1-6)

## Essential/recommended readings

1. आयुर्वेद का साहित्यिक इतिहास, हिन्दी साहित्य सम्मेलन, इलाहाबाद.
2. Singh R.H., Body, Mind, Spirit – Integrative Medicine in Ayurveda, Yoga and Nature Cure - Chowkhamba Surbharti Pratishthanam, Varanasi, I 2009
3. V.B. Athavale, Basic Principles of Āyurveda, Chaukhamba Sanskrit Pratishthan New Delhi, 2005.
4. Priya Vrat Sharma, Essentials of Āyurveda: Sodasangahṛdayam, Motilal Banarsidass Publishers, 1999

## Suggested readings

1. Bhagavan Dash, Vaidya, and Acarya Manfred M. Junius, A Handbook of Āyurveda, Concept Publishing Co., New Delhi, 1987.
2. Bhishagratna, Kaviraj Kunjalal, ed., translator. (2002). Sushruta Samhita Volumes I and II. Varanasi, India: Chowkhamba Sanskrit Series.
3. Charak Samhita E-text: <http://www.charakasamhita.com/> 7. [http://www.tkd.l.res.in/tkd.l/langdefault/ayurveda/Ayu\\_Principles.asp?GL=#q1](http://www.tkd.l.res.in/tkd.l/langdefault/ayurveda/Ayu_Principles.asp?GL=#q1)

4. K. R. Srikantha Murthy, Illustrated Susruta Samhita, ChaukhambaOrientalia, 2012
5. M.S. Valiathan, An Introduction to Āyurveda Paperback, Universities Press (India) Private Limited, 2013
6. M.S. Valiathan, The Legacy of Suśruta, Universities Press, 2007
7. Ravi DattaTripathi, Vāgbhaṭa's Aṣṭāṅg-saṅgraha, ChowkhambaSanskrit Pratishthanam, Delhi., 2011.
8. ShanthaGodagama, The Handbook of Āyurveda, North Atlantic Books, 2004
9. Sharma, Priyavrit V., ed., translator. (1981-1994). Charaka Samhita, Vols. 1 - 4, Chaukhamba Sanskrit Series, Varanasi, India: Varanasi, India: Chowkhamba SanskritSeries.
- 10.Sharma, Ram Karan and Bhagawan Dash, Vaidya, eds., translators (1992 – 2000). CharakaSamhita Vols. 1 – 6. Varanasi, India.Chaukhamba Sanskrit Series]
- 11.Srikrishnamurthy, K.R. Srikantha, translator. (1991-1992). Vagbhata, AstangaHridayamVols. 1 and 2. Varanasi, India: Krishnadas Academy
- 12.Srikrishnamurthy, K.R. Srikantha, translator. (2001). Sharangadhara Samhita: A treatise on Āyurveda. Varanasi, India: ChaukhambaOrientalia.
- 13.Susruta (Author), Kunja Lal Bhishagratna, An English Translation of the Sushruta Samhita, Based on Original Sanskrit Text. Edited and Published by KavirajKunja Lal Bhishagratna. with a Full ... Notes, Comperative Views, Index, Glossary, Nabu Press, 2012

**Examination scheme and mode: Subject to directions from the Examination Branch/University of Delhi from time to time**

## DSE-3: Computational Linguistics for Sanskrit

### Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Prerequisite of the course
		Lecture	Tutorial	Practical/ Practice		
Computational Linguistics for Sanskrit	04	3	1	0	Semester II Passed	Nil

### Learning Objectives

This course is supposed to familiarize the students with modern technology in the field of Computational linguistics and language technology and prepare the students for next level of Computational understanding in Sanskrit. After covering these topics in Computational Linguistics (CL), the students will learn the tools and techniques of CL and also do the detailed survey and learn various methodologies used in the field.

### Learning outcomes

The course-level learning outcomes that a student of this course is required to demonstrate are indicated below:

- Learn the basics of Theoretical Concepts of Computational Linguistics.
- Learn the basic concepts of the various Applied Areas of Computational Linguistics e.g. Morphological Analyzer/Speech/Speaker Recognition, Speech Synthesis, Text to Speech, Language Analysis, Understanding, Generation, Natural Language Interface, Text Processing and Machine Translation etc.
- Learn the basic concept of databases for data Storage.
- Student learn the Survey of Computational Linguistics.

### Detailed Syllabus

#### Unit I

##### Theoretical Concepts of Computational Linguistics:

Language and Communication, Levels of Language, Phonemes, Morphemes, POS, Lexicon, Syntax, Semantics, Discourse, Natural Language vs Artificial Language, Speech and Language, Grammars. Computer Intelligent Interaction (HCII), Human Processing of Languages vs Computer Processing of Natural Languages, Rule based vs Statistical Processing, Machine Learning, Annotation of Language, Standards, Unicode, and Language Resources.

#### Unit II

##### Survey of the Sanskrit Computational Linguistics

#### Unit III

##### Applied Areas of Sanskrit Computational Linguistics

Morphological Analyzer  
Speech/Speaker Recognition  
Speech Synthesis,  
Text to Speech  
Language Analysis  
Language Understanding  
Language Generation  
Natural Language Interface  
Text Processing  
Machine Translation

#### **Unit IV**

##### **Data Storage:**

An Introduction to Databases  
Databases and Database Systems,  
Architecture of Database Systems  
Historical Perspective of Database Systems.  
Basics of MS SQL Database

#### **Essential/recommended readings**

1. Chandra Subhash (2021). भाषासंगणन (Language Computing), Upasana Publications, New Delhi, India, ISBN: 978-93-87677-05-0.
2. Chandra Subhash (2017). मशीनी अनुवाद (Machine Translation) यूजीसी सीबीसीएस स्क्रीम के तहत बीए (संस्कृत) के एईईसी (AEEC)-3 के पाठ्यक्रम पर आधारित. Vidya Nidhi Prakashana, New Delhi, India, ISBN 978-93-85539-52-7.
3. Bharti A., R. Sangal, V. Chaitanya, “NL, Complexity Theory and Logic” in Foundations of Software Technology and Theoretical Computer Science, Springer, 1990.
4. Gazdar G. and C. Mellish, NLP in Prolog, Wokhingham: Addison Wesley, 1989.
5. Gazdar, G. and C. Mellish, NLP in Lisp, Wokhingham: Addison Wesley, 1989.
6. Grishman, R., Computational Linguistics: An introduction, Cambridge University Press, 1986.
7. Grosz, Barbara J. (et al.) Readings in NLP, (ed.) LA: Morgan Kaufmann, 1990
8. Kenneth A. Lambert, 2011, Fundamentals of Python: First Programs, Cengage Learning.
9. Nath Jha, Girish (ed.), 2010, Sanskrit Computational Linguistics, Springer. Verlag, Germany, 2010.
10. Ruslan Mitkov, Oxford handbook of computational linguistics, Oxford University Press, 2005.
11. Dan Jurafsky, James H. Martin, 2000, Speech and Natural Language Processing, Prentice Hall.
12. R. Elmasri, S.B. Navathe, Fundamentals of Database Systems (5th Ed.), Pearson Education.

#### **Suggested readings**

1. Chandra, Subhash and Jha, GN. Computer Processing of Nominal Inflections in Sanskrit: Methods and Implementations, CSP, UK, 2012.
2. Sanskrit Computational Linguistics symposium 1-2: Springer Verlag LNCS 5402 G Huet, A Kulkarni and P Scharf (eds), Proceedings of the 1st and 2nd International Symposium, 2009.

3. Sanskrit Computational Linguistics symposium 3: Springer Verlag LNCS 5406 A Kulkarni, G Huet (eds), Proceedings of the 3rd International Symposium, Jan 15 - 17, 2009, Hyderabad.
4. Grishman, R., Computational Linguistics: An introduction, Cambridge University Press, 1986.

**Examination scheme and mode: Subject to directions from the Examination Branch/University of Delhi from time to time**

## DSE-4: Web Application Development for Sanskrit

### Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Prerequisite of the course
		Lecture	Tutorial	Practical/ Practice		
Web Application Development for Sanskrit	04	3	1	0	Semester II Passed	Nil

### Learning Objectives

This course is intended to familiarize the students with the modern technology of web publishing, web page development in Sanskrit and other Indian languages.

### Learning outcomes

The course-level learning outcomes that a student of this course is required to demonstrate are indicated below:

- Learn the basic concepts of web page development.
- Learn the basic concepts about HTML, CSS and Java Scripts.
- Learn the basic concepts of Typing tools in Devanagari Unicode.

### Detailed Syllabus

#### Unit I

##### Brief Introduction to Web Applications for Sanskrit

Front End  
Web Server  
Back End

#### Unit II

##### Front End and Back End development in Sanskrit

Basics of Hyper Text Markup Language (HTML)  
Basics of Cascading Style Sheets (CSS)  
Basics of Data storage (files)  
Basics of Data Bases

#### Unit III

##### Web Servers

Basics JavaScripts (JS)  
Basics of Python

#### Unit IV

##### Typing Tools for Unicode Devanagari (Sanskrit)

Computer program for typing  
Online typing tools  
Voice typing tools  
Mobile Typing

### **Essential/recommended readings**

1. Chandra Subhash (2021). भाषासंगणन (Language Computing), Upasana Publications, New Delhi, India, ISBN: 978-93-87677-05-0.
2. Chandra Subhash (2017). मशीनी अनुवाद (Machine Translation) यूजीसी सीबीसीएस स्कीम के तहत बीए (संस्कृत) के एईईसी (AEEC)-3 के पाठ्यक्रम पर आधारित. Vidya Nidhi Prakashana, New Delhi, India, ISBN 978-93-85539-52-7.
3. Various e-resources and online tools suggested by teachers

### **Suggested readings**

1. HTML Tutorial - W3Schools: <https://www.w3schools.com/html/>
2. CSS Tutorial - W3Schools: <https://www.w3schools.com/css/default.asp>
3. JS Tutorial - W3Schools: <https://www.w3schools.com/js/default.asp>
4. Python Tutorial- W3Schools: <https://www.w3schools.com/python/default.asp>
5. SQL Tutorial- W3Schools: <https://www.w3schools.com/sql/default.asp>

**Examination scheme and mode: Subject to directions from the Examination Branch/University of Delhi from time to time**

## DSE-5: Environmental Awareness in Sanskrit Literature

### Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Prerequisite of the course
		Lecture	Tutorial	Practical/ Practice		
Environmental Awareness in Sanskrit Literature	04	3	1	0	Semester II Passed	Nil

### Learning Objectives

The main objective of this course is to make the students acquainted with the basic concepts of Indian Environmental Science and salient features of environmental awareness as reflected in Vedic and Classical Sanskrit literature. The National culture of every country depends on its environmental and climatic conditions and human behavior towards natural resources. Nature-friendly thoughts reflected in Sanskrit Literature have benefited the human race for long. Many religious practices were framed by ancient thinkers as a tool to protect nature and natural resources.

### Learning outcomes

After completing this course, students will realize themselves to be a part of Nature and Nature, intern, belongs to all creatures. They will learn to be a more careful about the utilization and preservation of natural resources. This will make them better citizens of the world.

### Detailed Syllabus

#### Unit I

##### **Science of Environment: Definition, Scope and Modern Crises:**

Modern Challenges and Crises of Environment: Global warming, Climate change, Ozone depletion, explosively increase in Pollution, Decrease in underground water level, River pollution, Deforestation in large scale. Natural calamities such as flood, drought and earthquakes.

##### **Environmental Consciousness in Sanskrit Literature:**

Concept of 'Mother Earth' and worship of Rivers in Vedic literature; Brief survey of environmental issues such as protection and preservation of mother nature, planting trees, and water preservation techniques as propounded in the Sanskrit Literature. Buddhist and Jain concepts of ecology, protection of trees, love for animals and birds.

#### Unit II

##### **Environment Awareness in Vedic Literature:**

##### **Environmental Issues and Eco-system in Vedic Literature**

**Divinity to Nature, Co-ordination between all natural powers of universe;** Equivalent words **for Environment in Atharvaveda:** 'Vṛtavṛta' (12.1.52), 'Abhivarah,' (1.32.4.), 'Avṛtaḥ' (10.1.30), 'Parivṛta' (10.8.31); **five basic elements of universe covered by environment : Earth, Water, Light, Air, and Ether. (Aitareya Upaniṣad 3.3)**



**Three constituent elements of environment: Jala (water), Vāyu (air), and Oṣadhi (plants) (Atharvaveda, 18.1.17).**

**Natural sources of water in five forms: rain water (Divyah), natural spring (Sravanti), wells and canals (Khanitrimah), lakes (Svayamjah) and rivers (Samudrarthah) (Rgveda, 7.49.2).**

Environment Preservation in Vedic Literature:

Five elementary sources of environment preservation: *Parvat* (mountain), *Soma* (water), *Vayu* (air), *Parjanya* (rain) and *Agni* (fire) (Atharvaveda, 3.21.10); Environment Protection from Sun (Rgveda, 1.191.1-16, Atharvaveda, 2.32.1-6, Yajurveda, 4.4.10.6); Congenial atmosphere for the life created by the Union of herbs and plants with sun rays (Atharvaveda, 5.28.5); Vedic concept of Ozone-layer *Mahat ulb'* (Rgveda, 10.51.1; Atharvaveda, 4.2.8); Importance of plants and animals for preservation of global ecosystem; (Yajurveda, 13.37); Eco friendly environmental organism in Upaniṣads (*Bṛhadāraṇyaka Upaniṣad*, 3.9.28, *Taittiriya Upaniṣad*, 5.101)

### Unit III

#### Environment Awareness in Puranas and Classical Sanskrit Literature:

**Environmental Awareness and Tree plantation :**

**Planting of Trees in Purāṇas** as a pious activity (*Matsya Purāṇa*, 59.159; 153.512 ; *Varāha Purāṇa* 172. 39), **Various medicinal trees to be planted in forest by king (Śukranīti, 4.58-62)** Plantation of new trees and preservation of old trees as royal duty of king (*Arthaśāstra*, 2.1.20); **Punishments for destroying trees and plants (Arthaśāstra, 3.19)**, Plantation of trees for recharging under ground water (*Bṛhatsaṁhitā*, 54.119)

**Environmental Awareness and Water management :**

Various types of water canals 'Kulyā' for irrigation : canal originated from river 'Nādimatr mukha kulyā', canal originated from near by mountain 'Parvataparsva vartini kulyā', canal originated from pond, 'Hṛdasrta kulyā', **Preservation of water resources 'Vāpi -kūpa -taḍāga' (Agnipurāṇas, 209-2; V.Ramayana, 2.80.10-11); Water Harvesting system in Arthaśāstra (2.1.20-21); Underground Water Hydrology in Bṛhatsaṁhitā (Dakāgalādhyāya, chapter-54);**

### Unit IV

#### Universal Environmental Issues in the Literature of Kalidasa:

Eight elements of Environment and concept of 'Aṣṭamūrti' Siva (*Abhijñānaśākuntalam*); Preservation of forest, water resources, natural resources; protection of animals, birds and plant in Kalidasa's works, Environmental awareness in *Abhijñānaśākuntalam* Drama, Eco- system of Indian monsoon in *Meghdūt*, Seasonal weather conditions of Indian sub continent in *ṛtusamhara*, Himalayan ecology in *Kumārasambhava*, Oceanography in *Raghuvamśa* (canto-13).

### Essential/recommended readings

1. कौटिलीय अर्थशास्त्र —हिन्दी अनुवाद —उदयवीर शास्त्री, मेहरचन्द लछमनदास,

दिल्ली, 1968.

2. बृहत्संहिता— वराहमिहिर विरचित, हिन्दी अनुवाद— बलदेव प्रसाद मिश्र, खेमराज श्रीकृष्णदास प्रकाशन, मुम्बई.
3. यजुर्वेद— हिन्दी अनुवाद सहित, सातवलेकर, श्रीपाद दामोदर, पारडी
4. शुक्रनीति — हिन्दी अनुवाद, ब्रह्मशंकर मिश्र, चौखम्बा संस्कृत सीरीज, वाराणसी, 968.
5. श्रीमद्वाल्मीकिरामायण — हिन्दी अनुवाद सहित, (सम्पा०) जानकी नाथ शर्मा, (1 —2 भाग) गीताप्रेस, गोरखपुर.
6. ठाकुर, आद्यादत्त— वेदों में भारतीय संस्कृति, हिन्दी समिति, लखनऊ, 1967.
7. तिवारी, मोहन चन्द — अष्टाचक्रा अयोध्या: इतिहास और परम्परा, उत्तरायण प्रकाशन, दिल्ली, 2006.
8. विद्यालंकार, सत्यकेतु — प्राचीन भारतीय शासनव्यवस्था और राजशास्त्र, सरस्वती सदन, मसूरी, 1968.
9. सहायकचशिवस्वरूपकच प्राचीन भारत का सामाजिक एवं आर्थिक इतिहास, मोतीलाल बनारसीदास, दिल्ली, 2012 कौटिलीय अर्थशास्त्र — हिन्दी अनुवाद — उदयवीर शास्त्री, मेहरचन्द लछमनदास, दिल्ली, 1968.
10. बृहत्संहिता— वराहमिहिर विरचित, हिन्दी अनुवाद— बलदेव प्रसाद मिश्र, खेमराज श्रीकृष्णदास प्रकाशन, मुम्बई.
11. यजुर्वेद— हिन्दी अनुवाद सहित, सातवलेकर, श्रीपाद दामोदर, पारडी
12. शुक्रनीति — हिन्दी अनुवाद, ब्रह्मशंकर मिश्र, चौखम्बा संस्कृत सीरीज, वाराणसी, 968.
13. श्रीमद्वाल्मीकिरामायण — हिन्दी अनुवाद सहित, (सम्पा०) जानकी नाथ शर्मा, (1 —2 भाग) गीताप्रेस, गोरखपुर.
14. ठाकुर, आद्यादत्त— वेदों में भारतीय संस्कृति, हिन्दी समिति, लखनऊ, 1967.
15. विद्यालंकार, सत्यकेतु — प्राचीन भारतीय शासनव्यवस्था और राजशास्त्र, सरस्वती सदन, मसूरी, 1968.
16. सहायकचशिवस्वरूपकच प्राचीन भारत का सामाजिक एवं आर्थिक इतिहास, मोतीलाल बनारसीदास, दिल्ली, 2012
17. अग्निपुराण - हिंदी अनुवाद तारिणीश झा एवं घनश्याम त्रिपाठी, हिंदी साहित्य सम्मलेन, इलाहाबाद, 1998
18. ईशोपनिषद - गीता प्रेस, गोरखपुर संस्करण
19. तैत्तिरीयोपनिषद - ईशादिदशोपनिषद, दिल्ली, 1964
20. बृहदारण्यकोपनिषद - (108 उपनिषद) ज्ञानखंड, सम्या० श्री एम. शर्मा, शांति कुंज, हरिद्वार, 1997
21. ऐतरेयोपनिषद - (108 उपनिषद) ज्ञानखंड, सम्या० श्री एम. शर्मा, शांति कुंज, हरिद्वार,

1997

22. मत्स्यपुराण – आनंदाश्रय संस्कृत सीरीज, पूजा, 1907
23. ओझा, डी.डी., विज्ञान और वेड, साइंटिफिक पब्लिशर्स, जोधपुर, 2005
24. द्विवेदी, कपिल देव, वेदों में विज्ञान, विख्याति अनुसंधान परिषद्, यदोई 2004
25. पंडा, पी. के. , कालिदास का साहित्य आधुनिक परिप्रेक्ष्य में, विद्यानिधि प्रकाशन, दिल्ली  
I 2009
26. सेमवाल, श्री कृष्णा (सम्या०), 'संस्कृत वाङ्मये कृषि विज्ञानम्' दिल्ली संस्कृत अकादमी,  
2006
27. *Arthashastra of Kautilya*—(ed.) **Kangale, R.P. Delhi, Motilal Banarasidas 1965**
28. Atharvaveda samhita.(2 Vols — (Trans.) R.T.H. Griffith, Banaras 1968.
29. Ramayana of Valmaki (3 Vols)— (Eng. Tr.) H.P. Shastri, London, 1952-59.
30. **Rgveda samhita (6 Vols)— (Eng. Tr.) H.H. Wilson, Bangalore, 1946**
31. Bhandarkar, RG— *Vaishnavism, Saivism and Minor Religious Systems*, Indological  
Book House, Varanasi, 1965
32. **Das Gupta, SP— *Environmental Issues for the 21<sup>st</sup> Century*, Amittal  
Publications, New Delhi, 2003**
33. **Dwivedi, OP, Tiwari BH — *Environmental Crisis and Hindu Religion*,  
Gitanjali Publishing House, New Delhi, 1987**
34. **Dwivedi, OP — *The Essence of the Vedas*, Visva Bharati Research Institute,  
Gyanpur, Varanasi, 1990**
35. **Pandya, Smta P. — *Ecological Renditions in the Scriptures of Hinduism – I* (article)  
*Bulletin of the Ramakrishna Mission Institute of Culture.***
36. **Kiostermair, Klaus—*Ecology and Religion: Christian and Hindu Paradigms* (article)  
*Jornal of Hindu-Christian Studies*, Butler university Libraries, Vol.6, 1993**

**Examination scheme and mode: Subject to directions from the  
Examination Branch/University of Delhi from time to time**

## DSE-6: Art of Balanced Living

### Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the Course			Eligibility criteria	Prerequisite of the course
		Lecture	Tutorial	Practical/ Practice		
Art of Balanced Living	04	3	1	0	Semester II Passed	Nil

### Learning Objectives

This course aims at getting the students acquainted with the Art of living as found in Sanskrit literature . It also intends to make the students work on human resource management for being more effective and productive in day to day life situations.

### Learning outcomes

After the completion of this course , the learners will be well informed about the various concepts, components and issues propounded by the philosophical and religious literature in Sanskrit

### Detailed Syllabus

#### Unit I

Method of Self-presentation: Hearing (śravaṇa), Reflection (manana) & meditation (nididhyāsana) - (Bṛhadāraṇyakopaniṣad, 2.4.5) and Vedantasara  
Concentration: Concept of Yoga: (Yogasūtra, 1.2); Restriction of fluctuations by practice (abhyāsa) and passionlessness (vairāgya) :(Yogasūtra, 1.12-16)

#### Unit II

Eight aids to Yoga (aṣṭāṅgayoga): (Yogasūtra - 2.29, 30, 32, 46, 49, 50; 3.1-4).  
Yoga of action (kriyāyoga): (Yogasūtra, 2.1)  
Four distinct means of mental purity (cittaprasādana) leading to oneness: (Yogasūtra - 1.33)

#### Unit III

Refinement of Behaviour : Means of improving behaviour:  
Jñāna-yoga – Gita Ch. II – 14,15,16,19, Ch XIII- 11,12,14,15,16,19,20,21,23,29,31,32  
dhyāna-yoga – VI – 24 to 27, 30, 32,

#### Unit IV

Bhakti-yoga – Gita Ch. IX – 17,22,23,27,29,34 ; Ch XI – 10,11,12, 13; Ch. - XII – 4, 6 to 12, 20 Karma : A natural impulse, essentials for life journey, harmony with the universe, an ideal duty and a metaphysical dictate - Gītā, Ch. – III 5, 8, 10-16, 20 & 21

### Essential/recommended readings

1. वेदान्तसार: राममूर्ति शर्मा नैशनल पब्लिशिंग हाउस दिल्ली ।
2. पातञ्जल योग दर्शन: सुरेश चन्द्र श्रीवास्तव, चौखंबा सुरभारती प्रकाशन, वाराणसी 2008.
3. भगवद्गीता : गीताप्रेस, गोरखपुर
4. उपनिषद् रहस्य, एकादश उपनिषद्, महात्मा नारायण स्वामी, गोविन्द राम हासानन्द, दिल्ली

**Examination scheme and mode: Subject to directions from the Examination Branch/University of Delhi from time to time**

## Common Pool of Generic Elective

### GE-7: Fundamentals of Indian Philosophy

#### Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the Course			Eligibility criteria	Prerequisite of the course
		Lecture	Tutorial	Practical/ Practice		
Fundamentals of Indian Philosophy	04	3	1	0	Semester II Passed	Nil

#### Learning Objectives

The primary objective of this course is to familiarize the students with the basic issues in Indian Philosophy. The course will give a hand on knowledge of various Fundamental concepts and Theories to enable them to learn the higher concepts and Theories of different Philosophical schools of 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 analyse 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.

#### Detailed Syllabus

##### Unit I: Fundamentals of Philosophy

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

##### Unit: II Metaphysics:

Satkaryavada, Asatkaryavada, Parinamavada, Vivartavada, Svabhavavada, Consciousness and matter, theories of self  
Ethics: Karma & Punarjanma theory, Liberation

##### Unit: III Schools of Indian Philosophy

Heterodox Schools - **Cārvāka** - General introduction with emphasis on Challenge to Veda, Rejection of Transcendental Entities, Ethics

**Jainism:** General Introduction with emphasis on Anekantavāda, Syadvāda, Saptabhanginyaya.

**Buddhism-** General introduction with emphasis on Four Noble Truths

## **Unit : IV Orthodox Schools**

**Samkhya-** General Introduction with emphasis on Prakṛti, three Gunas & Puruṣa (Based on Samkhyakārikā)

**Yoga** – Eight-fold path of Yoga

**Nyaya Vaisesika** - General Introduction Seven Padarthas (overview only) Mimamsa - Svataḥ Prāmāṇyavāda

**Advaita Vedānta** - General Introduction with emphasis on Brahman, Māyā, Jīva and Jagat

## **Essential/recommended readings**

1. मिश्र, पंकज कुमार, तर्कसंग्रह तन्वी व्याख्या, परिमल पब्लिकेशन्स, शक्ति नगर, दिल्ली-7, 2013
2. मिश्र, पंकज कुमार, चार्वाक, शिवालिक प्रकाशन, 27/16, शक्ति नगर, दिल्ली-7, 2019
3. शर्मा, चन्द्रधर, भारतीय दर्शन, मोतीलाल बनारसीदास, जवाहर नगर, दिल्ली
4. Bhartiya, Mahesh Bharatiya Darśana Ki Pramukha Samasyaem, Ghaziabad, 1999.
2. Chatterjee, S. C. & D. M. Datta - Introduction to Indian Calcutta University, Calcutta, 1968 (Hindi Translation also).
3. Hirianna, M.- Outline of Indian Philosophy, London, 1956 (also Hindi Translation).
4. Shastri, Kuppaswami, 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, Kuhnian - Some Fundamental Problems in Indian Philosophy, MLBD, Delhi, 1974.
8. Rishi, Uma Shankar (Ed.), Sarva-Darshana\_Samgraha, Chowkhamba Vidyabawan, Varansi, 1984.

## **Additional Resources:**

1. Hirianna, M. - Outline of Indian Philosophy, London, 1956 (also Hindi Translation).
2. Shastri, Kuppaswami, A Primer of Indian Logic, 1951 (only introduction).
3. Bhartiya, Mahesh - Causation in Indian Philosophy, Ghaziabad, 1975.
4. Radhakrishnan, S. Indian Philosophy, Oxford University Press, Delhi, 1990.
5. Pandey, Ram Chandra Panorama of Indian Philosophy (also Hindi version), M.L.B.D.,
6. Raja, Kuhnian - Some Fundamental Problems in Indian Philosophy, MLBD, Delhi, 1974.
7. Chatterjee, S. C.- The Nyaya Theory of Knowledge, Calcutta, 1968.

**Examination scheme and mode: Subject to directions from the Examination Branch/University of Delhi from time to time**

## GE-8: Indian Epigraphy & Palaeography

### Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the Course			Eligibility criteria	Prerequisite of the course
		Lecture	Tutorial	Practical/ Practice		
Indian Epigraphy & Palaeography	04	3	1	0	Semester II Passed	Nil

### Learning Objectives

This course provides the students with the knowledge of the Indian Epigraphy and Palaeography and basics of Indian history of ancient period. Learners interested in acquiring historical facts direct from the original source can be benefitted with this course. It is extremely helpful for those who are willing to involve in archaeological studies.

### Learning outcomes

After completion of this course, the students will form a solid understanding of the various Inscriptions, antiquity of writing and other issues related to Indian Epigraphy and Palaeography.

### Detailed Syllabus

#### Unit: I

**Welfare state:** repair of dam, mati-saciva, karma-saciva in Junagadh Inscription of Rudradāman.

#### Unit: II

1. Eran Pillar Inscription: Status of Samudragupta
2. Meharauli Iron Pillar Inscription of Candragupta: Victory, Recognition of Chandra

#### Unit: III

##### 1. Antiquity of writing in India

- a) Observations from foreign scholars
- b) Literary evidences
- c) Observations made by Indian Epigraphists.

##### 2. Importance of the study of Inscriptions.

- a) Geographical description
- b) Historical evidences
- c) Society
- d) Religion
- e) Literature
- f) Economic Conditions



g) Administration

**1. Writing material:**

a) Rocks b) Pillars c) Metal Plates Brush, Chisel, Stylus, Paint/Colour d) Statues e) Pen

**Unit: IV**

**1. Origin of the Brahmi Script**

a) Foreign Origin  
b) Indian Origin

**2. Development of the script upto 700 A.D.**

**Essential/recommended readings**

1. Buhler, G, On the origin of the Indian alphabet & numerals.
2. Dani, A. H, Indian Paleography
3. Ojha, G. H, Bharatiya Praçina Lipimāla (Hindi)
4. Pandey, R.B, Asoka ke Abhilekha (Hindi), Bharatiya Puralipi (Hindi)
5. Rana, S.S., Bharatiya Abhilekha
6. Sircar, D.C., Indian Epigraphy, Select Inscriptions (Part - I)
7. Upadhyay, V., Praçina Bharatiya Abhilekha (Hindi)
8. Thapar, Romila, Asoka tatha Maurya Samrajya Ka Patana (Hindi)

**Examination scheme and mode: Subject to directions from the Examination Branch/University of Delhi from time to time.**