SANSKRIT AS MAJOR

DISCIPLINE SPECIFIC CORE COURSE, DISCIPLINE A-4: DSC-7: Dharmashastra Studies

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility Criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/Practice		
(Discipline A-4) Dharmashastra Studies DSC-7	04	3	1	0	XII Passed	Working Knowledge of Sanskrit

Learning Objectives:
In the course of understanding Indian knowledge traditions, to know the ancient Indian society and its vital institutions is essential and admirable. Ancient Indian Society, in terms of whole and it's parts, has been depicted in the texts compiled in Sanskrit known as 'Dharmashastra'. 'Dharmashastra Studies' course aims to make students acquainted with rich tradition of Indian Social, Political, Economical, Legal thoughts

Learning Outcomes:
With studying this course Students will know that Indians were not anarchic, they evolved well structured society where normative institutions were established. They will understand the real meaning of the term 'Dharma'. Students will find the great aim for the life of an individual. They will be acquainted with Indian methods of regularizing Society.

Detailed Syllabus
Unit-I: 09 hrs
Concept of Dharma
Society and Norms, Normative Social Institutions, Dharma as normative and ethical element in ancient India.
Survey of Dharmashastra texts: Sutra literature, Smriti literature, commentaries and Nibandha texts, Kautilyarthshastra, Ramayana, Mahabharata, Puranas.

Unit-II: 12 hrs
Content of Dharmashastra:
Three major categories; Achara, Vyavahara, Prayashchitta.
Achara: Structure of the society in the form of Varna system, managing individual life through Ashrama system, bringing balance in the society with the thought of

Purushartha chatushtya, Education and Marriage as ways of setting civilized society, Concept of performing yajna and sharing resources (Daana) for sensitive and collective efforts in the society. Code of Conduct for the members of society

Unit-III   12 hrs
Vyavahara and Polity:

Vyavahara: Ancient Indian Legal system: various types of disputes, Courts, Legal administration, Civil and Criminal Law, Legal Procedure, Evidences, Penal code, Judgement.

Polity: Monarchic Rulers, acquisition and protection of the State, Good Governance, Seven elements of State, essential qualification for the King and ministers, Internal and International affairs: Mandala theory, Shadgunya, four Upayas,

Unit-IV   12 hrs
Prayashchitta: Types of Sins, various Penances in the form of Fasting, sharing (Daana), Yajya, Pilgrimage, Shraddha.

Essential/recommended readings:

1. Apastamba Dharmasutra
2. Boudhayana Dharmasutra
3. Vasstha Dharmasutra
4. Manu Smriti
5. Yajynavalkya Smriti
6. Narada Smriti
7. Kautilyrthashastra
8. Mitakshra Commentary on Yajyavalkya Smriti
9. Viramitrodaya
10. Vyavaharamayukha
11. Smritichandrika
12. Ramayana
13. Mahabharata
14. Kane, P.V. History of Dharmashastra, B.O.R.I Pune
15. काणे, पी.वी.—धर्मशास्त्र का इतिहास (1—4 भाग) अनु॰ अर्जुन चौबे काश्यप,हिन्दी समिति,लखनऊ, 1966—73.
16. तिवारी, शशि— संस्कृत साहित्य में राष्ट्रवाद और भारतीय राजशास्त्र, विद्यानिधि प्रकाशन, दिल्ली, 2013.
17. दीक्षित, प्रेमकुमारी— प्राचीन भारत में अन्तर्राष्ट्रीय सम्बन्ध, उत्तर प्रदेश, हिन्दी ग्रन्थ अकादमी, लखनऊ, 1977.
18. नाटाणी, प्रकाश नारायण — प्राचीन भारत के राजनीतिक विचारक, पोइन्टर पब्लिशर्स, जयपुर, 2002.

19. विद्यालंकार, सत्यकेतु — प्राचीन भारतीय शासनव्यवस्था और राजशास्त्र, सरस्वती सदन, मसूरी, 1968.

20. सिन्हा विनोद एवं सिन्हा रेखा— प्राचीन भारतीय इतिहास एवं राजनैतिक चिन्तन, राधा पब्लिकेशन्स, दिल्ली, 1989

21. Altekar, A.S — State and Government in Ancient India, Motilal Banarsidass, Delhi, 2001.
22. Ghosal, U.N.   — A History of Indian Political Ideas, Bombay,1959.
23. Jayaswal, K.P.— Hindu Polity, Bangalore, 1967.
24. Law, N. S.— Aspect of Ancient Indian Polity, Calcutta, 1960.
25. Maheshwari, S. R. — Local Government in India, Orient Longman, New Delhi,
26. Prasad, Beni   — Theory of Government in Ancient India, Allahabad, 1968.
27. Saletore, B.A. — Ancient Indian Political Thought and Institutions, Bombay, 1963.
28. Sharma, R. S.— Aspects of Political Ideas and Institutions in Ancient India, Motilal Banarsidass, Delhi, 1996.
29. Sinha, K.N.— Sovernity in Ancient Indian Polity, London,1938.
30. Verma, V.P.— Studies in Hindu Political Thought and its Metaphysical Foundations, Delhi, 1954.

Suggested Readings:

1. ठाकुर लक्ष्मी दत्त, प्रमुख स्मृतियों का अध्ययन
2. Olliville, Patrick, Dharmasutras
3. Mathur, A.D. Medieval Hindu Law
4. Kangle, R. P. Kautilyarthshastra
5. K.P. Jayaswal, Hindu Polity
6. pandey, Rajbali, Hindu Sanskara
7. Prabhu, P.H Hinduanisation
8. सिंह चन्द्र देव, प्राचीन भारतीय समाज और चिंतन
9. Arthashastra of Kautilya—(ed.) Kangale, R.P. Delhi, Motilal Banarasidas 1965
10. Atharvaveda samhita— (Trans.) R.T.H. Griffith, Banaras, 1896-97, rept.(2 Vols) 1968.
11. Mahabharata (7 Vols)— (Eng. Tr.) H.P. Shastri, London, 1952-59.
12. Manu's Code of Law—(ed. & trans.) : Olivelle, P. (A Critical Edition and Translation of the Mānava- Dharmaśāstra), OUP, New Delhi, 2006.
13. Ramayana of Valmiki — (Eng. Tr.) H.P. Shastri, London, 1952-59. (3 Vols)
14. Rgveda samhita (6 Vols)— (Eng. Tr.) H.H. Wilson, Bangalore Printing &Publishing Co., Bangalore, 1946.
15. Satapatha brahmana— (with Eng. trans. ed.) Jeet Ram Bhatt, Eastern (3 Vols) Book Linkers, Delhi, 2009.

16. कौटिलीय अर्थशास्त्र —हिन्दी अनुवाद —उदयवीर शास्त्री, मेहरचन्द लछमनदास, दिल्ली,1968.

17. महाभारत (1—6 भाग) — हिन्दी अनुवाद सहित, (अनु०) रामनारायण दत्त शास्त्री पाण्डेय, गीताप्रेस, गोरखपुर.

18. मनुस्मृति (1—13 भाग) — (सम्पा० एवं व्या०) उर्मिला रुस्तगी, जे.पी. पब्लिशिंग हाउस, दिल्ली, 2005

19. शुक्रनीति — हिन्दी अनुवाद, ब्रह्मशंकर मिश्र, चौखम्बा संस्कृत सीरीज, वाराणसी, 1968.

20. श्रीमद्वाल्मीकिरामायण — हिन्दी अनुवाद सहित, (सम्पा०) जानकी नाथ शर्मा, (1 —2 भाग) गीताप्रेस, गोरखपुर.

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

DISCIPLINE SPECIFIC CORE COURSE, DISCIPLINE B-4:
DSC-8: Readings from Vedas

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility Criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/Practice		
(Discipline B 4) Readings from Vedas DSC-8	04	3	1	0	XII Passed	Working Knowledge of Sanskrit

Learning Objectives:

This course on Vedic literature aims to introduce the great treasure of India I.e. the Vedic Samhitās to the bachelor degree students. While the course will enable the students to understand the various ways of reading Vedic hymns, they will also be able to understand the Aupaniṣadika view through the selected section on Kāthopaniṣad about the Self, Knowledge, ātman and Mokṣa which propounds Indian Spiritual viewpoint. It will also facilitate the students to know about philosophical, moral, and scientific principles including the source of Indian Intellectual traditions of Vedic period.

Learning Outcomes:

By reading these texts, students will have an impression of the depth of Vedic knowledge and will be able to realize that ideas of Vedic seers are based on philosophical, moral, and scientific principles. By understanding them, students will be able to know and achieve some higher attributes from Vedic heritage about our culture, morals, and thoughts. Thus they may develop curiosity to know more about other Vedic texts and concepts as well. After completing this course students will surely be able to communicate about some important Vedic verses with their meaning and teaching, and thus fundamentals of religious life of India will be revealed to them in its true form. Students will understand the strength of Unity, power of mind, and will realize the importance of earth in their life. From the study of Upaniṣad they will know about philosophical and Psychological insights of our ancestors and can develop this learning further for the benefit of themselves in particular and society in general.

Unit-I: 12 hrs
General introduction to Vedic Literature:
Samhitas, Brahmanas, Aranyakas, Upanishadas, Vedangas.

History of Vedic literature:
Date of vedas: Indian tradition, Western Historians/Thinkers.

Unit-II: **12 hrs**
Readings from the Vedic Saṁhitās:
> Ṛgveda:
> Agni Sūkta- 1.1, Akṣa Sūkta-10.34,
>
> Yajurveda:
> Śivasaṁkalpa Sūkta - 34.1-6

Unit-III   **09 hrs**
Readings from the Vedic Saṁhitās:
> Atharvaveda:
> Bhūmi Sūkta - 12.1.1-12, Samjñāna Sūkta- 10.191.1-4

Unit-IV   **12 hrs**
Readings from the Upaniṣad:
> Kathopaniṣad - 1.1 to 2.3

Essential/recommended readings:

1. ऋग्वेदसंहिता, सायणाचार्यकृत भाष्य एवं हिन्दी व्याख्या सहित, रामगोविन्द त्रिवेदी, चौखम्बा संस्कृत
   प्रतिष्ठान, दिल्ली.

2. शुक्लयजुर्वेदसंहिता, (उव्वट-महीधर भाष्य संवलित, तत्त्वबोधिनीहिन्दी व्याख्या सहित), रामकृष्ण शास्त्री,
   चौखम्बा संस्कृत प्रतिष्ठान, दिल्ली.

3. अथर्ववेदसंहिता, सायणाचार्यकृत भाष्य एवं हिन्दी व्याख्या सहित, प्रो विश्वनाथ विद्यालंकार, अजमेर.

4. कठोपनिषद् (शाङ्करभाष्य संवलित), जिया लाल काम्बोज, ईस्टर्न बुक लिंकर्स, दिल्ली.

5. कठोपनिषद् (शाङ्करभाष्य संवलित), शशि तिवारी, मेहरचन्द लछमनदास पब्लिकेशन्स, नई दिल्ली,
   प्रथम संस्करण 1981

6. वैदिक संग्रह, कृष्णलाल, इन्दु प्रकाशन, दिल्ली, प्रथम संस्करण 1973.

7. Atharvaveda (Saunakīya): (Ed.) Vishva Bandhu, VVRI, Hoshiharpur, 1960.

8. Suklayajurveda-Samhitā, (Vajasaneyi-Madhyandina), (Ed.) Jagadish Lal Shastri, MLBD, Delhi, 1978.

9. संस्कृत साहित्य का इतिहास, उमाशंकर ऋषि, चौखम्बा भारती अकादमी, वाराणसी , 2017

Suggested Readings:

1. शर्मा, उमाशंकर ऋषि, ऋक्सूक्तनिकरः, चौखम्बा ओरियण्टालिया, वाराणसी.

2. सूर्यकान्त (अनु.)- वैदिक देवशास्त्र, (ए.ए.मैकडनल(,, मेहरचन्द लछमनदास पब्लिकेशन्स, नई दिल्ली,

   1962

3. शशि तिवारी, वेदव्याख्यापद्धतयः, प्रतिभा प्रकाशन, दिल्ली, 2014

4. Velankar,H.D., Rksūktāvalī, Vaidika Sanshodhana Mandala, Pune, 1965.

5. Velankar,H.D., Rksūktavaijayanti, Bharatiya Vidya Bhavan, Bombay, 1972.

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

SANSKRIT AS NON-MAJOR / MINOR

UGCF for Multidisciplinary Courses of Study

DISCIPLINE SPECIFIC CORE COURSE, DISCIPLINE A-4: DSC-4: Dharmashastra Studies

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility Criteria	Pre-requisite of the course
		Lecture	Tutorial	Practical/Practice		
(Discipline A-4) Dharmashastra studies DSC-4	04	3	1	0	XII Passed	Working Knowledge of Sanskrit

Learning Objectives:
In the course of understanding Indian knowledge traditions, to know the ancient Indian society and its vital institutions is essential and admirable. Ancient Indian Society, in terms of whole and it's parts, has been depicted in the texts compiled in Sanskrit known as 'Dharmashastra'. 'Dharmashastra Studies' course aims to make students acquainted with rich tradition of Indian Social, Political, Economical, Legal thoughts

Learning Outcomes:
With studying this course Students will know that Indians were not anarchic, they evolved well structured society where normative institutions were established. They will understand the real meaning of the term 'Dharma'. Students will find the great aim for the life of an individual. They will be acquainted with Indian methods of regularizing Society.

Detailed Syllabus
Unit-I: 12 hrs
Concept of Dharma

      Society and Norms, Normative Social Institutions, Dharma as normative and ethical element in ancient India.

      Survey of Dharmashastra texts: Sutra literature, Smriti literature, commentaries and Nibandha texts, Kautilyarthshastra, Ramayana, Mahabharata, Puranas.

Unit-II: 12 hrs
Content of Dharmashastra:

      Three major categories; Achara, Vyavahara, Prayashchitta.

      Achara: Structure of the society in the form of Varna system, managing individual life through Ashrama system, bringing balance in the society with the thought of Purushartha chatushtya, Education and Marriage as ways of setting civilized society, Concept of performing yajna and sharing resources (Daana) for sensitive and

collective efforts in the society. Code of Conduct for the members of society

Unit-III   12 hrs

Vyavahara and Polity:

Vyavahara: Ancient Indian Legal system: various types of disputes, Courts, Legal administration, Civil and Criminal Law, Legal Procedure, Evidences, Penal code, Judgement.

Polity: Monarchic Rulers, acquisition and protection of the State, Good Governance, Seven elements of State, essential qualification for the King and ministers, Internal and International affairs: Mandala theory, Shadgunya, four Upayas,

Unit-IV   09 hrs

Prayashchitta: Types of Sins, various Penances in the form of Fasting, sharing (Daana), Yajya, Pilgrimage, Shraddha.

Essential/recommended readings:

1. Apastamba Dharmasutra
31. Boudhayana Dharmasutra
32. Vashshushtha Dharmasutra
33. Manu Smriti
34. Yajyavalkya Smriti
35. Narada Smriti
36. Kautilyrthashastra
37. Mitakshra Commentary on Yajyavalkya Smriti
38. Viramitrodaya
39. Vyvhaaramayukha
40. Smritichandrika
41. Ramayana
42. Mahabharata
43. Kane, P.V. History of Dharmashastra, B.O.R.I Pune
44. काणे, पी.वी.—धर्मशास्त्र का इतिहास (1—4 भाग) अनु० अर्जुन चौबे काश्यप,हिन्दी समिति,लखनऊ, 1966—73.
45. तिवारी, शशि— संस्कृत साहित्य में राष्ट्रवाद और भारतीय राजशास्त्र, विद्यानिधि प्रकाशन, दिल्ली, 2013.
46. दीक्षित, प्रेमकुमारी— प्राचीन भारत में अन्तर्राष्ट्रीय सम्बन्ध, उत्तर प्रदेश, हिन्दी ग्रन्थ अकादमी, लखनऊ, 1977.
47. नाटाणी, प्रकाश नारायण — प्राचीन भारत के राजनीतिक विचारक, पोइन्टर पब्लिशर्स, जयपुर, 2002.
48. विद्यालंकार, सत्यकेतु — प्राचीन भारतीय शासनव्यवस्था और राजशास्त्र, सरस्वती सदन, मसूरी, 1968.

49. सिन्हा विनोद एवं सिन्हा रेखा— प्राचीन भारतीय इतिहास एवं राजनैतिक चिन्तन, राधा पब्लिकेशन्स, दिल्ली, 1989

50. Altekar, A.S — State and Government in Ancient India, Motilal Banarsidass, Delhi, 2001.

51. Ghosal, U.N.   — A History of Indian Political Ideas, Bombay,1959.

52. Jayaswal, K.P.— Hindu Polity, Bangalore, 1967.

53. Law, N. S.— Aspect of Ancient Indian Polity, Calcutta, 1960.

54. Maheshwari, S. R. — Local Government in India, Orient Longman, New Delhi,

55. Prasad, Beni   — Theory of Government in Ancient India, Allahabad, 1968.

56. Saletore, B.A. — Ancient Indian Political Thought and Institutions, Bombay, 1963.

57. Sharma, R. S.— Aspects of Political Ideas and Institutions in Ancient India,   Motilal Banarsidass, Delhi, 1996.

58. Sinha, K.N.— Sovernity in Ancient Indian Polity, London,1938.

59. Verma, V.P.— Studies in Hindu Political Thought and its Metaphysical Foundations, Delhi, 1954.

Suggested Readings:

21. Thakur, Laxmidutt, Pramukha smritiyon ka adhyayana

22. Olliville, Patrick, Dharmasutras

23. Mathur, A.D. Medieval Hindu Law

24. Kangle, R. P. Kautilyarthshastra

25. K.P. Jayaswal, Hindu Polity

26. pandey, Rajbali, Hindu Sanskara

27. Prabhu, P.H Hinduanisation

28. Singh, Chandradeva, Prachina Bhartiya samaj aur Chintan

29. Arthashastra of Kautilya—(ed.) Kangale, R.P. Delhi, Motilal Banarasidas 1965

30. Atharvaveda samhita— (Trans.) R.T.H. Griffith, Banaras, 1896-97, rept.(2 Vols) 1968.

31. Mahabharata (7 Vols)— (Eng. Tr.) H.P. Shastri, London, 1952-59.

32. Manu's Code of Law—(ed. & trans.) : Olivelle, P. (A Critical Edition and Translation of the Mānava- Dharmaśāstra), OUP, New Delhi, 2006.

33. Ramayana of Valmiki — (Eng. Tr.) H.P. Shastri, London, 1952-59. (3 Vols)

34. Rgveda samhita (6 Vols)— (Eng. Tr.) H.H. Wilson, Bangalore Printing &Publishing Co., Bangalore, 1946.

35. Satapatha brahmana— (with Eng. trans. ed.) Jeet Ram Bhatt, Eastern (3 Vols) Book Linkers, Delhi, 2009.

36. कौटिलीय अर्थशास्त्र —हिन्दी अनुवाद —उदयवीर शास्त्री, मेहरचन्द लछमनदास, दिल्ली,1968.

37. महाभारत (1—6 भाग) — हिन्दी अनुवाद सहित, (अनु०) रामनारायण दत्त शास्त्री पाण्डेय, गीताप्रेस, गोरखपुर.

38. मनुस्मृति (1—13 भाग) — (सम्पा० एवं व्या०) उर्मिला रुस्तगी, जे.पी. पब्लिशिंग हाउस, दिल्ली, 2005

39. शुक्रनीति — हिन्दी अनुवाद, ब्रह्मशंकर मिश्र, चौखम्बा संस्कृत सीरीज, वाराणसी, 1968.

40. श्रीमद्वाल्मीकिरामायण — हिन्दी अनुवाद सहित, (सम्पा०) जानकी नाथ शर्मा, (1 —2 भाग) गीताप्रेस, गोरखपुर.

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 label, River pollution, Deforestation in large scale. Natural calamities such as flood, draft 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)*, *'Parivrita' (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)* ṛgveda, 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'*(*ṛgveda*,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 medinal 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 canels *'Kulyā'* for irigation : canal originated from river *'Nādimatṛ mukha kulyā'*, canal originated from near by mountain *'Parvataparsva vartini kulyā'*, canal originated from pond,*'Hrdasrta kulyā*, **Preservation of water resources** *'Vāpi –kūpa –taḍāga'* (*Agnipuraṇas*,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 Kumārasaṁbhava*, **Oceanography in** *Raghuvaṁśa* **(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 अयोध्याः 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, आघादत्त— 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 – ईशादिद्शोपनिषद, दिल्ली, 1964

20. बृहदारण्यकोपनिषद – (108 उपनिषद) ज्ञानखंड, सम्पा० श्री एम. शर्मा, शांति कुंज, हरिद्वार, 1997

21. ऐतरेयोपनिषद - (108 उपनिषद) ज्ञानखंड, सम्पा० श्री एम. शर्मा, शांति कुंज, हरिद्वार, 1997

22. मत्स्यपुराण – आनंदाश्रय संस्कृत सीरीज, पूजा, 1907

23. ओझा, डी.डी., विज्ञान और वेद, साइंटिफिक पब्लिशर्स, जोधपुर, 2005

24. द्विवेदी, कपिल देव, वेदों में विज्ञान, विख्याति अनुसंधान परिषद, यदोई 2004

25. पंडा, पी. के. , कालिदास का साहित्य आधुनिक परिप्रेक्ष्य में, विद्यानिधि प्रकाशन, दिल्ली 2009

26. सेमवाल, श्री कृष्णा (सम्पा०), 'संस्कृत वाइमये कृषि विज्ञानम' 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 21st 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,SmtaP. — *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 iussues 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. वेदान्तसारः राममूर्ति शर्मा नैशनल पब्लिशिंग हाउस दिल्ली ।
2. पातञ्जल योग दर्शन: सुरेश चन्द्र श्रीवास्तव, चौखंबा सुरभारती प्रकाशन, वाराणसी 2008.
3. भगवद्गीता : गीताप्रैस, गोरखपुर
4. उपनिषद रहस्य, एकादश उपनिषद, 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

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		
Introduction to Ancient Indian Scripts	04	3	1	0	XII Passed	Working Knowledge of Sanskrit

Learning Objectives

This course provides an introduction to the history, evolution, and usage of ancient Indian scripts. Students will explore the various scripts used in ancient India, including Brahmi, Kharosthi, and Devanagari, and will learn about the cultural, social, and religious significance of these scripts. The course will also cover the techniques used in the creation of ancient Indian manuscripts and the methods of preservation.

Learning outcomes

Upon completion of this course, students will be able to:

    Understand the history and evolution of ancient Indian scripts
    Identify and describe the various scripts used in ancient India
    Analyze the cultural and religious significance of ancient Indian scripts
    Understand the techniques used in the creation of ancient Indian manuscripts
    Learn about the methods of preservation used to protect ancient Indian scripts
    Develop an understanding of the connection between language and script

Detailed Syllabus

Unit I   12 hrs

Introduction to Ancient Indian Scripts
        Definition and significance of scripts
        Historical overview of Indian scripts
        Importance of scripts in Indian culture and society
        Major Ancient Indian Scripts

Unit II   12 hrs

Brahmi Script
        Brahmi script and its evolution
        Introduction to the Brahmi script
        Writing system and pronunciation
        Basic reading and writing exercises
        Kharosthi Script and its Usage

Introduction to Kharosthi script
Historical context and usage of Kharosthi script

Unit III   09 hrs

Introduction to Gupta script
Characteristics and evolution of Gupta script
Basic reading and writing exercises
Comparison with Brahmi and Kharosthi script

Unit IV   12 hrs

A. **Techniques used in the creation of Ancient Indian Manuscripts**
Introduction to ancient Indian manuscripts
Techniques used in manuscript creation
Preservation techniques

B. **Social and Cultural Significance of Ancient Indian Scripts**

Significance of ancient Indian scripts in social and cultural contexts
Analysis of manuscripts and scripts in different periods up to 8th century AD

Essential/recommended readings

1.   Buhler, G, On the origin of the Indian alphabet & numerals.
2.   Dani, A. H, Indian Paleography
3.   Dhavalikar, M.K. Indian Palaeography. Munshiram Manoharlal Publishers, 2006.
4.   Ojha, G. H, Bharatiya Praćina Lipimāla (Hindi)
5.   Pandey, R.B, Asoka ke Abhilekha (Hindi), Bharatiya Puralipi (Hindi)
6.   Parpola, Asko. Deciphering the Indus Script. Cambridge University Press, 1994.
7.   Rana, S.S., Bharatiya Abhilekha
8.   Sircar, D.C., Indian Epigraphy, Select Inscriptions (Part - I)
9.   Salomon, Richard. Indian Epigraphy: A Guide to the Study of Inscriptions in Sanskrit, Prakrit, and the other Indo-Aryan Languages. Oxford University Press, 1998.
10. Upadhyay, V., Praćina Bharatiya Abhilekha (Hindi)
11. 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

DSE-9: Computer Applications 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		
Computer Applications for Sanskrit	04	3	1	0	Semester IV Passed	Working Knowledge of Sanskrit

Learning Objectives

This course will introduce the current researches and developments in Sanskrit computing. The primary emphasis will be on tools and techniques developed under government and private funding and on exploring new technologies for Sanskrit.

Learning outcomes

The students will get an overview of computational works undertaken in the field of Sanskrit and a clear idea about how a range of practical linguistic tasks of Sanskrit can be done by developing CL systems. And, they will also know how CL tools can facilitate the learning and teaching process in the field of Sanskrit.

Detailed Syllabus

Unit I   **12 hrs**
Interactive Sanskrit Teaching Learning Tools
       Introduction to Interactive Sanskrit Learning Tools, Why Interactive Tools for Sanskrit? E-learning, Basics of Multimedia, Web-based tools development, HTML, Web page, etc., Tools and Techniques

Unit II   **09 hrs**
Standard for Indian Languages (Unicode)
       Unicode Typing in Devanagari Scripts, Typing Tools and Software

Unit III   **12 hrs**
       Text Processing and Preservation Tools
       Text Processing, Preservation Techniques, Text Processing, and Preservation, Tools, and Techniques, Survey

Unit IV   **12 hrs**
Optical Character Reader
       Optical Character Reader (OCR), Applications of OCR for Sanskrit and Indian Languages, Tool and Techniques, Survey

Essential/recommended readings

1. Teacher's notes, ppt, and handout
2. Bharti A., R. Sangal, V. Chaitanya, "NL, Complexity Theory and Logic" in Foundations of Software Technology and Theoretical Computer Science, Springer, 1990.
3. E-Content suggested by Teacher
4. Tools developed by Computational Linguistics Group, Department of Sanskrit, University of Delhi, Delhi-110007 available at: http://sanskrit.du.ac.in
5. Basic concept and issues of multimedia: http://www.newagepublishers.com/samplechapter/001697.pdf
6. Content creation and E-learning in Indian languages: a model: http://eprints.rclis.org/7189/1/vijayakumarjk_01.pdf
7. HTML Tutorial - W3Schools: www.w3schools.com/html
8. The Unicode Consortium: http://unicode.org/.

Additional Resources:

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