

# Vidyasagar University

## Curriculum for B.A. (Honours) in Sanskrit [Choice Based Credit System]

### Semester-VI

Course	Course Code	Name of the Subjects	Course Type/ Nature	Teaching Scheme in hour per week			Credit	Marks
				L	T	P		
CC- 13		<b>C13T: Ontology and Epistemology</b>	Core Course - 13	5	1	0	6	75
CC- 14		<b>C14T: Sanskrit Composition and Communication</b>	Core Course - 14	5	1	0	6	75
DSE-3		<b>TBD</b>	Discipline Specific Electives -3	5	1	0	6	75
DSE-4		<b>TBD</b>	Discipline Specific Electives -4	5	1	0	6	75
<b>Semester Total</b>							<b>24</b>	<b>300</b>

**L= Lecture, T= Tutorial, P = Practical, CC - Core Course, TBD - To be decided, DSE: Discipline Specific Elective.**

## **Semester-VI**

### **List of Core Course (CC)**

**CC-13: Ontology and Epistemology**

**CC-14: Sanskrit Composition and Communication**

### **Discipline Specific Electives (DSE)**

**DSE-3A: Sanskrit Linguistics**

**Or**

**DSE-3B: Computational Linguistics for Sanskrit**

**DSE- 4A: Fundamentals of Ayurveda**

**Or**

**DSE- 4B: Environmental Awareness in Sanskrit Literature**

Semester: VI

Core Courses

CC-13: Ontology and Epistemology

Credits 06

C13T: Ontology and Epistemology

Course Contents:

Prescribed Course

Section 'A' Essentials of Indian Philosophy

Section 'B' Ontology (Based on Tarkasaṃgraha)

Section 'C' Epistemology (Based on Tarkasaṃgraha)

Unit-Wise Division:

Section 'A'

Essentials of Indian Philosophy

Unit: I Meaning and purpose of darśana, general classification of philosophical schools in classical Indian philosophy

Unit: II Realism (*yathārthavāda* or *vastuvāda*) and Idealism (*pratyayavāda*), Monism (*ekattvavāda*), Dualism (*dvaitavavāda*) & Pluralism (*bahuttvavāda*); dharma (property)-dharmi (substratum)

**Unit: III**

Causation (*kāryakāraṇavāda*) : naturalism (*svabhāvavāda*), doctrine of pre-existence of effect (*satkāryavāda*), doctrine of real transformation (*pariṇāmavāda*), doctrine of illusory transformation (*vivartavāda*), doctrine of non-preexistence of effect in cause (*asatkāryavāda and ārambhavāda*)

**Section 'B'**

**Ontology**

**Unit: I**

Concept of padārtha, three dharmas of padārthas, definition of Dravya,

**Unit: II**

Sāmānya, Viśeṣa, Samavāya, Abhāva.

**Unit: III**

Definitions of first seven dravyas and their examination; Ātma and its qualities, manas.

**Unit: IV**

Qualities (other than the qualities of the ātman)  
Five types of Karma.

**Section 'C'**

**Epistemology**

**Unit: I**

Buddhi(jñāna) – nature of jñāna in Nyāya

vaiśeṣika;

smṛiti-anubhava; yathārtha and ayathārtha ,

Karaṇa and kāraṇa, definitions and types of

**Unit: II**

pramā,

kartā-kāraṇa-vyāpāra-phala, model

<b>Unit: III</b>	Pratyakṣa
<b>Unit: IV</b>	Anumāna including hetvābhāsa
<b>Unit: V</b>	Upamāna and śabda pramāṇa
<b>Unit: VI</b>	Types of ayathārtha anubhava

### Recommended Books/Readings:

1. A Primer of Indian Logic, Kuppuswami Shastri, Madras, 1951.
2. Tarkasaṁgraha of Annambhaṭṭa (with Dīpikā & Nyāyabodhinī), (Ed. & Tr.) Athalye & Bodas, Mumbai, 1930.
3. Tarkasaṁgraha of Annambhaṭṭa (with Dīpikā & Nyāyabodhinī), (Ed. & Tr.) Virupakshananda, Sri Ramkrishna Nath, Madras, 1994.
4. Tarkasaṁgraha of Annambhaṭṭa (with Dīpikā commentary with Hindi Translation), (Ed. & Tr), Pankaj Kumar Mishra, Parimal Publication, Delhi-7. 2013.
5. Tarkasaṁgraha, Narendra Kumar, Hansa Prakashan, Jaipur.
6. Chatterjee, S. C. & D. M. Datta - Introduction to Indian Philosophy, Calcutta University, Calcutta, 1968 (Hindi Translation also).
7. Chatterjee, S. C. – The Nyāya Theory of Knowledge, Calcutta, 1968.
8. Hiriyanna, M. - Outline of Indian Philosophy, London, 1956 (also Hindi Translation).
9. Radhakrishnan, S. - Indian Philosophy, Oxford University Press, Delhi, 1990.
10. Chatterjee, S.C. & : Introduction to Indian Philosophy, Calcutta
11. D.M. Dutt (हिन्दी अनुवाद — भारतीय दर्शन)
12. Bhattacharya, Chandrodaya, The Elements of Indian Logic and Epistemology,
13. Maitra, S.K., Fundamental Questions of Indian Metaphysics & Logic,

CC-14: Sanskrit Composition and Communication

Credits 06

C14T: Sanskrit Composition and Communication

Course Contents:

Prescribed Course:

Section 'A'	Vibhaktyartha, Voice and Kṛt
Section 'B'	Translation and Communication
Section 'C'	Essay

Unit-Wise Division:

Vibhaktyartha, Voice & Kṛt

Section 'A'

Unit: I	(i). Vibhaktyartha Prakaraṇa of Laghusiddhāntakaumudī (ii). Voice (katṛ, karma and bhāva) Selections from Kṛt Prakaraṇa- from Laghusiddhāntakaumudī Major Sūtras for the formation of kṛdanta words
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Unit: II	(tavyat, tavya, anīyar, yat, nyat, ṇvul, tric, aṅ, kta, katavatu, śatṛi, sānac, tumun, ktvā-lyap, lyuṭ ,ghan, ktin)
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Section 'B'

Translation and Communication

Unit: I	(i). Translation from Hindi/English to Sanskrit on the basis of cases, Compounds and kṛt suffixes. (ii). Translation from Sanskrit and Hindi
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**Unit: II** Communicative Sanskrit: Spoken Sanskrit.

### Section 'C'

#### Essay

**Unit: I** Essay (traditional subjects) e.g. *veda, upniṣad, Sanskrit Language, Sanskriti, Rāmāyaṇa, Mahābhārata, purāṇa, gītā*, principal Sanskrit poets.

**Unit: II** Essay based on issues and topic related to modern subjects like entertainment, sports, national and international affairs and social problems.

#### Recommended Books/Readings:

1. शास्त्री, धरानन्द — लघुसिद्धान्तकौमुदी , मूल एवं हिन्दी व्याख्या, मोतीलाल बनारसीदास, दिल्ली.
2. शास्त्री, भीमसेन — लघुसिद्धान्तकौमुदी, भौमीव्याख्या ( भाग— 1), भौमीप्रकाशन, दिल्ली.
3. नौटियाल, चक्रधर — बृहद्—अनुवाद—चन्द्रिका, मोतीलाल बनारसीदास, दिल्ली.
4. पाण्डेय, राधामोहन — संस्कृत सहचर , स्टूडेण्ट्स फ्रेण्ड्स, पटना.
5. द्विवेदी, कपिलदेव — रचनानुवादकौमुदी, विश्वविद्यालय प्रकाशन, वाराणसी.
6. द्विवेदी, कपिलदेव — संस्कृतनिबन्धशतकम् विश्वविद्यालय प्रकाशन, वाराणसी Apte, V.S. - *The Students' Guide to Sanskrit Composition*, Chowkhamba Sanskrit Series, Varanasi (Hindi Translation also available).
7. Kale, M.R. - *Higher Sanskrit Grammar*, MLBD, Delhi (Hindi Translation also available).
8. Kanshiram- *Laghusiddhāntakaumudī* (Vol.1), MLBD, Delhi, 2009.

# Discipline Specific Electives (DSE)

Credits 06

DSE-3A: Sanskrit Linguistics

DSE3AT: Sanskrit Linguistics

Course Contents:

Prescribed Course

Section 'A' भाषाशास्त्र

Course Objectives:

Unit-Wise Division:

Section 'A'

भाषाशास्त्र

Unit: I

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

Unit: II

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

Unit: III

संस्कृत एवं भारोपीय भाषापरिवार

Unit: IV

संस्कृत एवं तुलनात्मक भाषाविज्ञान के इतिहास का सामान्य परिचय

Recommended Books/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. शर्मा, देवेन्द्रनाथ, भाषाविज्ञान की भूमिका, राधाकृष्ण प्रकाशन, दिल्ली, 2014
5. व्यास, भोलाशंकर, संस्कृत का भाषाशास्त्रीय अध्ययन, चौखम्बा विद्याभवन, 1957.
1. Burrow, T., Sanskrit Language (also trans. into Hindi by Bholashankar Vyas), ChaukhambaVidyaBhawan, 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.

OR

DSE-3B: Computational Linguistics for Sanskrit

Credits 06

DSE3BT: Computational Linguistics for Sanskrit

Course Contents:

## Computational Linguistics for Sanskrit

### Prescribed Course:

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|-------------|---|
| Section 'A' | Theoretical Concepts of Computational Linguistics |
| Section 'B' | Applied Areas of Computational Linguistics        |
| Section 'C' | Data Storage: An Introduction to Databases        |

### Unit-Wise Division:

#### Section 'A'

### Theoretical Concepts of Computational Linguistics

- Unit: I**
- Language and Communication, Levels of Language, Phonemes, Morphemes, POS, Lexicon, Syntax, Semantics, Discourse, Natural Language vs Artificial Language, Speech and Language, Grammars, Computer as Intelligent Devices, Human 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 Computational Linguistics

#### Section 'B'

### Applied Areas of Computational Linguistics

Morphological Analyzer/Speech/Speller

Machine Translation.

### Section 'C'

## Data Storage: An Introduction to Databases

### Unit: I

Databases and Database Systems, Architecture of Database Systems, Historical Perspective of Database Systems.

### Recommended Books/Readings:

2. Bharti A., R. Sangal, V. Chaitanya, "NL, Complexity Theory and Logic" in Foundations of Software Technology and Theoretical Computer Science, Springer, 1990.
3. Chandra, Subhash and Jha, GN. Computer Processing of Nominal Inflections in Sanskrit: Methods and Implementations, CSP, UK, 2012.
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. Teacher's notes and selected research paper suggested by teachers.
13. Important E-contents suggested by Teachers.
14. R. Elmasri, S.B. Navathe, Fundamentals of Database Systems (5th Ed.), Pearson Education.

DSE- 4A: Fundamentals of Ayurveda

Credits 06

DSE4AT: Fundamentals of Ayurveda

Course Contents:

Prescribed Course:

Section 'A'	Introduction of Āyurveda
Section 'B'	Carakasamhitā – (Sūtra-sthānam)
Section 'C'	Taittirīyopaniṣad

Unit-Wise Division:

### Section 'A' Introduction of Āyurveda

Unit: I	Introduction of Āyurveda, History of Indian Medicine in the pre-caraka period, The two schools of Āyurveda: Dhanvantari and Punarvasu.
Unit: II	Main Ācāryas of Āyurveda – Caraka, Suśruta, Vāgbhaṭṭa, Mādhava, Sārṅgadhara and Bhāvamiśra

### Section 'B' Carakasamhitā – (Sūtra-sthānam)

	Carakasamhitā – (Sūtra-sthānam): Division of Time and condition of nature and body in six seasons.
Unit: I	Regimen of Fall Winter (Hemanta), Winter (Śisira) & Spring (Vasanta) seasons. Regimen of Summer (Grīṣma), Rainy (Varṣā) and Autumn (Śarada) seasons.

**Section 'C'**  
**Taittirīyopaniṣad**

**Unit: I** Taittirīyopaniṣad—Bhṛḡuvalli, anuvak 1- 3

**Unit: II** Taittirīyopaniṣad—Bhṛḡuvalli, anuvak 1- 3

**Suggested Books/Readings:**

1. Brahmananda Tripathi (Ed.), Carakasamhitā, Chaukhamba Surbharati Prakashana, Varanasi, 2005.
2. Taittirīyopaniṣad –Bhṛḡuvalli.
3. Atridev Vidyalkar, Ayurveda ka Brhad itihasa.
4. Priyavrat Sharma, Caraka Chintana.
5. V. Narayanaswami, Origin and Development of Āyurveda ( A brief history), Ancient Science of life, Vol. 1, No. 1, July 1981, pages 1-7.

OR

DSE- 4B: Environmental Awareness in Sanskrit Literature

Credits 06

DSE4BT: Environmental Awareness in Sanskrit Literature

Course Contents:

Prescribed Course

Section 'A' Environmental Issues and Importance of Sanskrit Literature

Section 'B' Environment Awareness in Vedic Literature

Section 'C' Environment Awareness in Classical Sanskrit Literature

Unit-Wise Division

Section 'A'

Modern Environmental Perspective and Sanskrit Literature

Science of Environment : Definition, Scope and Modern Crises

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Unit: I Role of Environment in human civilization; Meaning and definitions of The Environment; Various name for Science of Environment: 'Ecology', 'Paryavarana', 'Prakriti Vijnana'; Main components of Environment: living organisms( *Jaiva Jagat*) and non-living materials (*Bhoutika Padarth*). Elementary factor of Environment Physical elements, Biological elements and Cultural elements

Unit: II 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

Unit: III Environmental Background of Sanskrit Literature : Importance of Sanskrit Literature from the view point of Science of environment ; 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 in forests, and water preservation techniques as propounded in the Sanskrit Literature. Buddhist and Jain concepts of ecology, protection of trees, love for animals and birds;

## Section 'B'

### Environment Awareness in Vedic Literature

#### Unit: I

Environmental Issues and Eco-system in Vedic Literature  
Divinity to Nature, Co-ordination between all natural powers of universe; Cosmic order 'Rta' as the guiding force for environment of whole universe (*Rgveda*, 10.85.1); Equivalent words for Environment in *Atharvaveda*: 'Vritavrita' (12.1.52), 'Abhivarah' (1.32.4.), 'Avritah' (10.1.30), 'Parivrita' (10.8.31); five basic elements of universe covered by environment: Earth, Water, Light, Air, and Ether. (*Aitareya Upanishad* 3.3); Three constituent elements of environment known as 'Chandansi': Jala (water), *Vayu* (air), and *Osadhi* (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*) (*Rigveda*, 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,

#### Unit: II

*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 Upanishads (*Brhadaranyaka Upanishad*, 3.9.28, *Taittiriya Upanishad*, 5.101, *Iso-Upanishad*, 1.1)

## Section 'C'

### Environment Awareness in Classical Sanskrit Literature

#### Unit: I

Environmental Awareness and Tree plantation :  
Planting of Trees in *Puranas* as a pious activity (*Matysya Purana*, 59.159; 153.512; *Varaha Purana* 172. 39), Various medicinal trees to be planted in forest by king (*Sukraniti*, 4.58-62)

Plantation of new trees and preservation of old trees as royal duty of king ( *Arthashastra*, 2.1..20); Punishments for destroying trees and plants (*Arthashastra*,3.19), Plantation of trees for recharging under ground water(*Brhatsamhita*, 54.119)

**Unit: II**

Environmental Awareness and Water management :  
Various types of water canals 'Kulya' for irrigation : canal originated from river 'Nadimatr mukha kulya', canal originated from nearby mountain 'Parvataparsva vartini kulya', canal originated from pond, 'Hrdasrta kulya', Preservation of water resources 'Vapi -kupa -tadaka' (*Agnipuranas*,209-2;*V.Ramayana*,2.80.10-11); Water Harvesting system in *Arthashastra* (2.1.20-21);Underground Water Hydrology in *Brhatsamhita* (*Dakargaiadhyaya*,chapter-54);

**Unit: III**

Universal Environmental Issues in Literature of Kalidasa : Eight elements of Environment and concept of 'Astamurti' Siva (*Abhijnasakuntalam*1.); Preservation of forest,water resources, natural resources; protection of animals, birds and plant in Kalidasa's works, Environmental awareness in *Abhijnasakuntalam* Drama, Eco- system of indian monsoon in *Meghdoot*, Seasonal weather conditions of Indian sub continent in *Rtusamhara*, Himalayan ecology in *Kumarasambhava*, Oceanography in *Raghuvamsa* (canto-13).

Recommended Books

1. *Arthashastra of Kautilya*—(ed.) **Kangale, R.P. Delhi, Motilal Banarasidas 1965**
2. *Atharvaveda samhita*. (2 Vols — (Trans.) R.T.H. Griffith, Banaras 1968.
3. *Ramayana* of Valmaki (3 Vols)— (Eng. Tr.) H.P. Shastri, London, 1952-59.
4. *Rgveda samhita* (6 Vols)— (Eng. Tr.) H.H. Wilson, Bangalore, 1946.
5. कौटिलीय अर्थशास्त्र —हिन्दी अनुवाद —उदयवीर शास्त्री, मेहरचन्द लछमनदास, दिल्ली, 1968.
6. बृहत्संहिता— वराहमिहिर विरचित, हिन्दी अनुवाद— बलदेव प्रसाद मिश्र, खेमराज श्रीकृष्णदास प्रकाशन, मुम्बई.
7. यजुर्वेद— हिन्दी अनुवाद सहित, सातवलेकर, श्रीपाद दामोदर, पारडी
8. शुक्रनीति — हिन्दी अनुवाद, ब्रह्मशंकर मिश्र, चौखम्बा संस्कृत सीरीज, वाराणसी, 968.
9. श्रीमद्वाल्मीकिरामायण — हिन्दी अनुवाद सहित, (सम्पा०) जानकी नाथ शर्मा, (1 —2 भाग)

गीताप्रेस, गोरखपुर.

10. ठाकुर, आद्यादत्त— वेदों में भारतीय संस्कृति, हिन्दी समिति, लखनऊ, 1967.
11. तिवारी, मोहन चन्द —अष्टाचक्रा अयोध्या: इतिहास और परम्परा, उत्तरायण प्रकाशन, दिल्ली, 2006. तिवारी, शशि—
12. विद्यालंकार, सत्यकेतु — प्राचीन भारतीय शासनव्यवस्था और राजशास्त्र, सरस्वती सदन, मसूरी, 1968.
13. सहायकचशिवस्वरूपकच प्राचीन भारत का सामाजिक एवं आर्थिक इतिहास, मोतीलाल बनारसीदास, दिल्ली, 2012 कौटिलीय अर्थशास्त्र —हिन्दी अनुवाद —उदयवीर शास्त्री, मेहरचन्द लक्ष्मनदास, दिल्ली, 1968.
14. बृहत्संहिता— वराहमिहिर विरचित, हिन्दी अनुवाद— बलदेव प्रसाद मिश्र, खेमराज श्रीकृष्णदास प्रकाशन, मुम्बई.
15. यजुर्वेद— हिन्दी अनुवाद सहित, सातवलेकर, श्रीपाद दामोदर, पारडी
16. शुक्रनीति — हिन्दी अनुवाद, ब्रह्मशंकर मिश्र, चौखम्बा संस्कृत सीरीज, वाराणसी, 968.
17. श्रीमद्वाल्मीकिरामायण — हिन्दी अनुवाद सहित, (सम्पा०) जानकी नाथ शर्मा, (1 —2 भाग) गीताप्रेस, गोरखपुर.
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