

Paper Name: Indian Knowledge System

VAC: Value added Course; Undergraduate Semester IV-IKS5VACT41

Learning Outcomes: Upon successful completion of the course Indian Knowledge Systems (IKS5VACT41), students will be able to:

- Articulate the definition, scope, and significance of Indian Knowledge Systems (IKS) and traditional knowledge, and evaluate their relevance in contemporary contexts.
- Describe the cultural, geographical, and ecological heritage of ancient Bharat Varsha, including its civilizations, natural resources, and traditional wisdom about nature and climate.
- Explain the distinctive features of the Vedic corpus, including Vedas and Vedangas, and compare the principles of different Indian philosophical schools.
- Analyze key teachings of the Bhagavad Gita, demonstrate an understanding of selected slokas (Chapter II: 47–50, 70; Chapter IV: 34; Chapter VI: 16–17; Chapter XVI: 1–5; Chapter XVII: 8–10), and memorize these slokas for practical application.
- Evaluate the principles of Ayurveda and Yoga, including concepts like Gunas, Doshas, Pancha Mahabhuta, Sapta-dhatu, Dinacharya, and Ritucharya, and assess their impact on modern health practices.
- Describe the structure, significance, and contributions of ancient Indian universities such as Takshashila, Nalanda, Vikramshila, Odantapuri, Vallabhi, and Pushpagiri.
- Summarize the life sketches and contributions of key Indian scholars (Maharishi Patanjali, Charak, Susruta, Kanad, Aryabhaata, Adi Shankaracharya, Nagarjuna, Panini, and Chanakya) to the Indian Knowledge System.
- Synthesize concepts from IKS to propose solutions for contemporary challenges in education, health, and sustainable living, rooted in traditional Indian wisdom.

Course Description

Unit-I

Introduction to Indian Knowledge Systems (IKS): Definition of Indigenous/ Traditional Knowledge, Scope, and Importance of Traditional Knowledge.

Ancient India- Bharat Varsha: People of Ancient Bharat Varsha; Our great natural heritage: The great Himalayas and the rivers; The civilizations of the Sindhu-Ganga valley, and the Brahmaputra valley; Our coastal plains; Our Nature: Forests and Minerals; Ancient Indian Traditional Knowledge and Wisdom about nature and climate

Unit-II

The vedic corpus: Vedas and Vedangas - Distinctive features of vedic life, Indian philosophical systems: Different schools of philosophy.

Introduction and study of Bhagavad Gita: including memorization of selected Slokas (Chapter II -47 to 50 and 70, Chapter IV –34, Chapter VI – 16 and 17, Chapter XVI- 1 to 5 Chapter XVII – 8 to 10).

Unit-III

Contribution of Ancient India to Health Sciences: Ayurveda and Yoga; Elements of Ayurveda: Gunas and Doshas, Pancha Mahabhuta and Sapta-dhatu, Concept of disease in Ayurveda, Ayurvedic lifestyle practices: Dinacharya and Ritucharya, Important Ayurvedic Texts; Hospitals in Ancient India; Ayurveda: Gift of India to the modern world

Unit-IV

Ancient Education System: Takshashila University, Nalanda University, Vikramshila University, Odantapuri University, Vallabhi University, Pushpagiri University

Unit-V

Eminent Indian Scholars: Life sketch and their contribution to Indian Knowledge System: Maharishi Patanjali, Charak, Susruta, Kanad, Aryabhaata, Adi Shankaracharya, Nagarhuna, Panini, Chankaya

Recommended Readings

1. Mahadevan, B., Bhat, Vinayak Rajat, Nagendra Pavana R.N. (2022). Introduction to Indian Knowledge System: Concepts and Applications. PHI Learning Private Ltd.
2. Bora, Mukul Chandra. Foundations of Bharatiya Knowledge System. Khanna Book Publishing.
3. Upadhyaya, Baladev. Samskrta Śāstrom ka Itihās. Chowkhambha, Varanasi, 2010.
4. Bose, D.M., Sen, S.N., & Subbarayappa, B.V. (Eds.). A Concise History of Science in India, 2nd Ed. Universities Press, Hyderabad, 2010.
5. Srikantha Murthy, K.R. (Trans.). Astāngahrdya, Vol. I, Sūtrasthāna and Śārīrasthāna. Krishnadas Academy, Varanasi, 1991.
6. Dharampal. The Beautiful Tree: Indian Indigenous Education in the Eighteenth Century. Dharampal Classics Series, Rashtrottana Sahitya, Bengaluru, 2021. <https://archive.org/details/TheBeautifulTree-Dharampal>
7. Bajaj, J.K., & Srinivas, M.D. Indian Economy and Polity in Eighteenth-century Chengalpattu, in J.K. Bajaj (Ed.), Indian Economy and Polity. Centre for Policy Studies, Chennai, 1995, pp. 63-84.

Indian Knowledge System (IKS)

Dear All,

Reference: Point 4.27 of NEP 2020, “Knowledge of India”

The Indian Knowledge System (IKS) includes a wide range of intellectual, cultural, and scientific traditions that have shaped India's history for centuries. This selected collection of resources, which includes books, articles, lectures, and videos, provides students, educators, and enthusiasts with the opportunity to learn about IKS and its significance to contemporary multidisciplinary and value-added education. These materials provide insight into the intellectual, cultural, and practical aspects of IKS. This suggestive, non-prescriptive compilation serves as an introduction to comprehending India's eternal wisdom, encouraging transformative education based on its rich knowledge traditions.

NEP Coordinator

MGSU, Bikaner

S. No.	Title	URL
1.	From Colombo to Almora: Swami Vivekananda	http://www.vivekananda.net/PDFBooks/ColomboToAlmora1897.pdf

2.	Deeksharambh - A Guide to Student Induction Programme (SIP) UGC	https://www.ugc.ac.in/pdfnews/3830821_DeeksharambhEnglish.pdf
3.	Hind Swaraj or Indian Home Rule: by M.K. Gandhi	https://www.mkgandhi.org/ebks/hind_swaraj.pdf
4.	Mulya Pravah - UGC	https://www.ugc.ac.in/e-book/HUMAN%20VALUE%20English.pdf
5.	The Foundations of Indian Culture by Sri Aurobindo	https://ia802904.us.archive.org/30/items/in.ernet.dli.2015.146965/2015.146965.The-Foundations-Of-Indian-Culture-Vol-14.pdf
6.	Science and Technology in India (MODULE - VI Science and Technology)	https://www.nios.ac.in/media/documents/SecIHCour/English/CH.14.pdf
7.	Knowledge Traditions & Practices of India life sciences	http://cbseacademic.nic.in/web_material/Circulars/2012/68_KTPI/Module_6_2.pdf
8.	Rashtra, Rāṣṭra: 24 definitions	https://www.wisdomlib.org/definition/rashtra
9.	Knowledge Traditions & Practices of India (Mathematics)	https://cbseacademic.nic.in/web_material/Circulars/2012/68_KTPI/Module_7.pdf
10.	Ancient Indian Wisdom (Six monthly Certificate Course)	https://hpuniv.ac.in/upload/syllabus/5d1d9eb22cc95AncientIndianWisdom.pdf
11.	Essentials of Hindutva - by V.D. Savarkar	http://savarkar.org/en/encyc/2017/5/23/2_12_12_04_essentials_of_hindutva.v001.pdf_1.pdf
12.	A Brief Introduction to Indian Music	http://wpage.unina.it/agodemar/mridang/drum_manual_chap-1.pdf
13.	Padma Bhushan Dr. R. Nagaswamy's Plenary Talk - Tamil Nadu Land of Dharma	https://youtu.be/wvdNckoR4WQ
14.	In Conversation with Dr. Sonal Mansingh	https://youtu.be/Y5sHrOVivq0
15.	Kashmir Shaivism: Traditions, Texts and Thinkers	https://youtu.be/LVbFhNZv2xw
16.	Yoga and Ayurveda - Dr. David Frawley - India Inspires Talk	https://youtu.be/3d5dsL5AYCs
17.	The Myth of Aryan Invasion in India - Dr. David Frawley - India Inspires Talks	https://youtu.be/qych3WYNViA
18.	Dr Subramanian Swamy on Intellectual Terrorism in India & the RIGHT Response	https://youtu.be/Wpz9kRAizYQ
19.	Knowing Hindu History: Rajiv Malhotra FULL Lecture, Duke University USA	https://youtu.be/9qgkONu6nbk
20.	Obsessions of Indian Intellectuals - Part I - Dr. Kapil Kapoor - India Inspires Talks	https://youtu.be/pgG7EbLC120
21.	Transforming Education via Indian Knowledge Systems (IKS) for Schools	https://youtu.be/AZHk4gTRrfk

22.	What can we learn from Indian Knowledge Systems	https://youtu.be/LZP1StpYEPM
23.	Bhagavad Gita and Modern Life	https://www.indianculture.gov.in/ebooks/bhagavad-gita-and-modern-life
24.	South Indian Music	https://www.indianculture.gov.in/ebooks/south-indian-music
25.	Foundations of Modern Science	https://youtu.be/QF2iKJkbYJw
26.	New Economics for A New India	https://youtu.be/7s6DQi0Azvo
27.	Subhash Kak on: AI & Consciousness	https://youtu.be/iAF31bODbuc
28.	Rajiv Malhotra In Conversation with Swarajya On 'Artificial Intelligence & the Future of Power'	https://youtu.be/LSY7RCaPGCw
29.	Professor Kapil Kumar Lecture on INA & Netaji Subhas Chandra Bose	https://youtu.be/DpYHfHIqw1c
30.	Examining Ancient Indian History: Prof B B Lal in Conversation with Ashish Dhar	https://youtu.be/tBBKOs_kX1k
31.	Neta Ji Bose - Life & Death Mystery	https://youtu.be/zZzbbglnVOQ
32.	Pakistan, or, The Partition of India, by Dr. B. R. Ambedkar	http://www.columbia.edu/itc/mealc/pritchett/00a_mbedkar/ambedkar_partition/index.html
33.	Village swaraj, M.K. Gandhi	https://www.mkgandhi.org/ebks/village_swaraj.pdf
34.	Construction Programme M.K. Gandhi	https://www.mkgandhi.org/ebks/construct.pdf
35.	Ruskin UNTO This last a Paraphrase. M.K. Gandhi	https://www.mkgandhi.org/ebks/untothislast.pdf
36.	'Dark Chapter of Indian History': Vivek Agnihotri Drops Details About His Latest Film 'Delhi Files'	https://youtu.be/YNZ5CgB_C3c
37.	Who are the Indians?	https://youtu.be/HSe3zgaYT3g
38.	Aryan Invasion Theory, Vedas and Dravidians - Agniveer	https://agniveer.com/aryan-invasion/
39.	THE SHOCK OF THE ANTHROPOCENE The Earth, History and Us	https://www.ias.edu/sites/default/files/sss/pdfs/Crisis-and-Critique-2018-19/bonneuil_anthropocene.pdf
40.	Guidelines for Pursuing Two Academic Programmes	https://www.ugc.ac.in/pdfnews/5729348_Guidelines-for-pursuing-two-academic-programmes-simultaneously.pdf
41.	Social Institutions: Continuity and Change	https://schools.aglasem.com/ncert-books-class-12-sociology-chapter-3/
42.	Defining Ecocritical Theory and Practice	https://www.asle.org/wp-content/uploads/ASLE_Primer_DefiningEcocrit.pdf

43.	BASIC CONCEPTS: NATURE, ECOLOGY, ENVIRONMENT	https://archive.mu.ac.in/myweb_test/M.A.Part%20-%20II%20-%20Paper%20VII.pdf
44.	National Commission for Scheduled Tribes	https://www.aicte-india.org/downloads/handbook%20for%20Scheduled%20Tribes.pdf
45.	TIRUKKURAL. English Translation and Commentary	https://www.projectmadurai.org/pm_etexts/pdf/pm0153.pdf
46.	The East and The West by Swami Vivekananda	https://archive.org/details/TheEastAndTheWestSwamiVivekananda/page/n3/mode/2up
47.	NCERT Memorial Lecture Series Mahadevi Verma Second PDF Memorial Lecture - 2009	https://ncert.nic.in/pdf/publication/otherpublications/Memorial-Lectures-Series/ENGLISH%20MAHADEVI%20VERMA%20COVER.pdf
48.	The High Caste Hindu Women (Pandita Ramabai)	https://sahitya.marathi.gov.in/ebooks/The%20High%20Caste%20Hindu%20Women%20(Pandita%20Ramabai)%20Final.pdf
49.	YOUNG INDIA LALA LAJPAT RAI	https://www.marxists.org/subject/india/rai/young_india-2012.pdf
50.	THE SHOCK OF. THE ANTHROPOCENE. The Earth, History and Us	https://www.ias.edu/sites/default/files/sss/pdfs/Crisis-and-Critique-2018-19/bonneuil_anthropocene.pdf
51.	Glorious Epochs of Indian - History	https://savarkar.org/en/pdfs/6_Glorious_Epochs_of_Indian_History.pdf
52.	Aryan Invasion Theory, Vedas and Dravidians - Agniveer	https://agniveer.com/aryan-invasion
53.	Defining Ecocritical Theory and Practice	https://www.asle.org/wp-content/uploads/ASLE_Primer_DefiningEcocrit.pdf
54.	BASIC CONCEPTS: NATURE, ECOLOGY, ENVIRONMENT	https://archive.mu.ac.in/myweb_test/M.A.Part%20-%20II%20-%20Paper%20VII.pdf
55.	Indian Systems of Medicine: A Brief Profile	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2816487/
56.	The Story of India's Many Scripts	https://thediplomat.com/2019/07/the-story-of-indias-many-scripts/
57.	Unit 4 Indian Hermeneutics	https://egyankosh.ac.in/bitstream/123456789/34988/1/Unit-4.pdf
58.	The Centre of Indian Culture Rabindranath Tagore	https://in.okfn.org/files/2013/07/The-Centre-of-Indian-Culture.pdf
59.	Introduction to Sikhs and Sikhism	https://core.ac.uk/download/pdf/49786.pdf
60.	Indian Aesthetic Theories	https://gargicollege.in/wp-content/uploads/2020/03/08-chapter-2.pdf
61.	Universities in ancient India	https://archive.org/details/cu31924005633130
62.	Practical Vedanta: Part I (Delivered in London, 10th November 1896)	http://www.vivekananda.net/PDFBooks/PracticalVedanta.pdf
63.	The Holy Qur'an- Hindi Translation	https://ia801607.us.archive.org/32/items/PavitrQur'anHindi/Pavitr%20Quran%20Hindi.pdf
64.	The meaning of the Glorious Quran- Marmaduke Pickhall	https://www.globalgreybooks.com/meaning-of-the-glorious-quran-ebook.html

65.	Siri Guru Granth Sahib English translation	https://www.sikhnet.com/files/ereader/Siri%20Guru%20Granth%20-%20English%20Translation%20(matching%20pages).pdf
66.	108 Upanishads	https://gita-society.com/wp-content/uploads/PDF/108upanishads.pdf
67.	An Autobiography or The Story of My Experiments with Truth By: M. K. Gandhi	https://www.mkgandhi.org/ebks/An-Autobiography.pdf
68.	Is-Science-Western-in-Origin- C.K. Raju	http://ckraju.net/books-full/Is-Science-Western-in-Origin-final.pdf
69.	The Human Cycle-The Ideal of Human Unity	https://www.sriaurobindoashram.org/sriaurobindo/downloadpdf.php?id=38
70.	Hindu Rashtra Darshan V D Savarkar Maharashtra	https://savarkar.org/en/pdfs/hindu-rashtra-darshan-en-v002.pdf
71.	The "Quit India" Speeches	https://archive.pib.gov.in/quitindia75/vignettes/QIMSpeech.pdf
72.	Unencrypted Geeta	https://vedpuran.files.wordpress.com/2012/03/unencrypted-geeta.pdf
73.	The Mahabharata and the Sindhu-Sarasvati Tradition- Subhash Kak	https://www.ece.lsu.edu/kak/MahabharataII.pdf
74.	Guilty Men of India's Partition	https://lohiatoday.files.wordpress.com/2020/05/guiltymenofpartition.pdf
75.	The position of women in Hindu Civilization	https://ia801604.us.archive.org/35/items/in.ernet.dli.2015.100033/2015.100033.The-Position-Of-Women-In-Hindu-Civilisation.pdf
76.	Outline of Jaina Philosophy	https://ia600102.us.archive.org/28/items/in.gov.ignca.2880/2880.pdf
77.	Bhagavad Gita by S Radhakrishnan	https://ia801205.us.archive.org/14/items/BhagavadGitaBySRadhakrishnan/Bhagavad%20Gita%20by%20S%20Radhakrishnan.pdf
78.	Hind-Swaraj-M.K. Gandhi in Hindi	https://www.mkgandhi.org/ebks/hindi/hind-swaraj.pdf