



Indian Knowledge System (IKS)-Concepts and Applications in Science-Syllabus

Week/Module	Topics	
Week 0	 Demo Video Welcome to the course Course Schedule Grading Policy Exam Details FAQ 	
Week 1:	Indian Knowledge System – An Introduction: 1. What is IKS? 2. Why do we need IKS? 3. Organization of IKS 4. Historicity of IKS 5. Some salient aspects of IKS	
Week 2:	 Introduction to Vedas A synopsis of the four Vedas Sub-classification of Vedas Messages in Vedas Introduction to Vedāṅgas Prologue on Śikṣā and Vyākaraṇa Basics of Nirukta and Chandas Introduction to Kalpa and Jyotiṣa Vedic Life: A Distinctive Features 	
Week 3:	Wisdom through the Ages: 1. Gateways of ancestral wisdoms 2. Introduction to Purāṇa 3. The Purāṇic repository 4. Issues of interest in Purāṇas 5. Introduction to Itihāsas	





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	6. Key messages in Itihāsas		
	7. Wisdom through Nīti-śāstras8. Wisdom through Subhāṣita		
	Number Systems and Units of Measurement:		
	Number systems in India – Historical evidence		
Week 4:	2. Salient aspects of Indian Mathematics		
	3. Bhūta-Saṃkhyā system		
	4. Kaṭapayādi system		
	5. Measurements for time, distance, and weight		
	6. Pingala and the binary system		
	Mathematics:		
	1. Introduction to Indian Mathematics		
	2. Unique aspects of Indian Mathematics		
Week 5:	3. Indian Mathematicians and their Contributions		
	4. Algebra		
	5. Geometry		
	6. Trigonometry		
	7. Binary mathematics and combinatorial problems in		
	Chandaḥ Śāstra		
	8. Magic squares in India		
	Mid semester Examination		
	Astronomy:		
Week 6:	1. Introduction to Indian astronomy		
	2. Indian contributions in astronomy		
	3. The celestial coordinate system		
	4. Elements of the Indian calendar		
	5. Notion of years and months		
	6. Pañcāṅga – The Indian calendar system		
	7. Astronomical Instruments (Yantras)		
	8. Jantar Mantar of Rājā Jai Singh Sawai		





Week 7:	Knowledge Framework and classifications: 1. Indian scheme of knowledge 2. The knowledge triangle 3. Prameya – A vaiśeṣikan approach to physical reality 4. Dravyas – the constituents of the physical reality 5. Attributes – the properties of substances and Action – the driver of conjunction and disjunction 6. sāmānya, viśēṣa, samavāya 7. Pramāṇa – the means of valid knowledge 8. Saṃśaya – ambiguities in existing knowledge 9. Framework for establishing valid knowledge 10. Deductive or inductive logic framework 11. Potential fallacies in the reasoning process 12. Siddhānta: established tenets in a field of study	
Week 8:	Linguistics: 1. Introduction to Linguistics 2. Aṣṭādhyāyī 3. Phonetics 4. Word generation 5. Computational aspects 6. Mnemonics 7. Recursive operations 8. Rule based operations 9. Sentence formation 10. Verbs and prefixes 11. Role of Sanskrit in natural language processing	
Week 9:	Health Wellness and Psychology: 1. Distinguish thought on Health and wellness in Indian system 2. Āyurveda: approach to health 3. Āyurveda: definition of health 4. Tri-doṣas 5. Role of agni in health 6. Sapta-dhātavaḥ: seven-tissues	





Final Exam Details:

If you wish to obtain a certificate, you must register and take the proctored exam in person at one of the designated exam centres. The registration URL will be announced when the registration form is open. To obtain the certification, you need to fill out the online registration form and pay the exam fee. More details will be provided when the exam registration form is published, including any potential changes. For further information on the exam locations and the conditions associated with filling out the form, please refer to the form.

Grading Policy:

Assessment Type	Weightage
Mid-Term & End-Term	25%







Certificate Eligibility:

- 40% marks and above in Mid Term & End Term
- 40% marks and above in the final proctored exam

Disclaimer: In order to be eligible for the certificate, you must register for enrolment and exams using the same email ID. If different email IDs are used, you will not be considered eligible for the certificate.