

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

Week/Module	Topics	Release Date
<b>Week 0</b>	<ul style="list-style-type: none"> <li>• Demo Video</li> <li>• Welcome to the course</li> <li>• Course Schedule</li> <li>• Grading Policy</li> <li>• Exam Details</li> <li>• FAQ</li> </ul>	31 <sup>st</sup> July 2023
<b>Week 1:</b>	<p><b>Indian Knowledge System – An Introduction:</b></p> <ol style="list-style-type: none"> <li>1. What is IKS?</li> <li>2. Why do we need IKS?</li> <li>3. Organization of IKS</li> <li>4. Historicity of IKS</li> <li>5. Some salient aspects of IKS</li> </ol>	31 <sup>st</sup> July 2023
<b>Week 2:</b>	<p><b>The Vedic Corpus:</b></p> <ol style="list-style-type: none"> <li>1. Introduction to Vedas</li> <li>2. A synopsis of the four Vedas</li> <li>3. Sub-classification of Vedas</li> <li>4. Messages in Vedas</li> <li>5. Introduction to Vedāṅgas</li> <li>6. Prologue on Śikṣā and Vyākaraṇa</li> <li>7. Basics of Nirukta and Chandas</li> <li>8. Introduction to Kalpa and Jyotiṣa</li> <li>9. Vedic Life: A Distinctive Features</li> </ol>	11 <sup>th</sup> August 2023
<b>Week 3:</b>	<p><b>Wisdom through the Ages:</b></p> <ol style="list-style-type: none"> <li>1. Gateways of ancestral wisdoms</li> <li>2. Introduction to Purāṇa</li> <li>3. The Purāṇic repository</li> <li>4. Issues of interest in Purāṇas</li> <li>5. Introduction to Itihāsas</li> <li>6. Key messages in Itihāsas</li> <li>7. Wisdom through Nīti-śāstras</li> <li>8. Wisdom through Subhāṣita</li> </ol>	18 <sup>th</sup> August 2023

<p><b>Week 4:</b></p>	<p><b>Number Systems and Units of Measurement:</b></p> <ol style="list-style-type: none"> <li>1. Number systems in India – Historical evidence</li> <li>2. Salient aspects of Indian Mathematics</li> <li>3. Bhūta-Saṃkhyā system</li> <li>4. Kaṭapayādi system</li> <li>5. Measurements for time, distance, and weight</li> <li>6. Piṅgala and the Binary system</li> </ol>	<p>25<sup>th</sup> August 2023</p>
<p><b>Week 5:</b></p>	<p><b>Mathematics:</b></p> <ol style="list-style-type: none"> <li>1. Introduction to Indian Mathematics</li> <li>2. Unique aspects of Indian Mathematics</li> <li>3. Indian Mathematicians and their Contributions</li> <li>4. Algebra</li> <li>5. Geometry</li> <li>6. Trigonometry</li> <li>7. Binary mathematics and combinatorial problems in Chandah Śāstra</li> <li>8. Magic squares in India</li> </ol>	<p>1<sup>st</sup> September 2023</p>
	<p><b>Mid semester Examination</b></p>	<p><b>1st September 2023, Due Date: 1<sup>st</sup> October 2023</b></p>
<p><b>Week 6:</b></p>	<p><b>Astronomy:</b></p> <ol style="list-style-type: none"> <li>1. Introduction to Indian astronomy</li> <li>2. Indian contributions in astronomy</li> <li>3. The celestial coordinate system</li> <li>4. Elements of the Indian calendar</li> <li>5. Notion of years and months</li> <li>6. Pañcāṅga – The Indian calendar system</li> <li>7. Astronomical Instruments (Yantras)</li> <li>8. Jantar Mantar of Rājā Jai Singh Sawai</li> </ol>	<p>8<sup>th</sup> September 2023</p>
<p><b>Week 7:</b></p>	<p><b>Knowledge Framework and classifications:</b></p> <ol style="list-style-type: none"> <li>1. Indian scheme of knowledge</li> </ol>	

	<ol style="list-style-type: none"> <li>2. The knowledge triangle</li> <li>3. Prameya – A vaiśeṣikan approach to physical reality</li> <li>4. Dravyas – the constituents of the physical reality</li> <li>5. Attributes – the properties of substances and Action – the driver of conjunction and disjunction</li> <li>6. sāmānya, viśeṣa, samavāya</li> <li>7. Pramāṇa – the means of valid knowledge</li> <li>8. Saṃśaya – ambiguities in existing knowledge</li> <li>9. Framework for establishing valid knowledge</li> <li>10. Deductive or inductive logic framework</li> <li>11. Potential fallacies in the reasoning process</li> <li>12. Siddhānta: established tenets in a field of study</li> </ol>	15 <sup>th</sup> September 2023
<p><b>Week 8:</b></p>	<p><b>Linguistics:</b></p> <ol style="list-style-type: none"> <li>1. Introduction to Linguistics</li> <li>2. Aṣṭādhyāyī</li> <li>3. Phonetics</li> <li>4. Word generation</li> <li>5. Computational aspects</li> <li>6. Mnemonics</li> <li>7. Recursive operations</li> <li>8. Rule based operations</li> <li>9. Sentence formation</li> <li>10. Verbs and prefixes</li> <li>11. Role of Sanskrit in natural language processing</li> </ol>	22 <sup>nd</sup> September 2023
<p><b>Week 9:</b></p>	<p><b>Health Wellness and Psychology:</b></p> <ol style="list-style-type: none"> <li>1. Introduction to health</li> <li>2. Āyurveda: approach to health</li> <li>3. Sapta-dhātavaḥ: seven-tissues</li> <li>4. Role of agni in health</li> <li>5. Tri-doṣas</li> <li>6. Āyurveda: definition of health</li> <li>7. Psychological aspects of health</li> <li>8. Disease management elements</li> <li>9. Dinacaryā: daily regimen for health &amp; wellness</li> <li>10. Importance of sleep</li> <li>11. Food intake methods and drugs</li> <li>12. Approach to lead a healthy life</li> <li>13. Indian approach to psychology</li> </ol>	29 <sup>th</sup> September 2023

	<p>14. The tri guṇa system &amp; holistic picture of the individual</p> <p>15. The Nature of Consciousness</p> <p>16. Consciousness studies and issues</p>	
<b>Week 10:</b>	<p><b>Town Planning and Architecture:</b></p> <ol style="list-style-type: none"> <li>1. Perspective of Arthaśāstra on town planning</li> <li>2. Vāstu-śāstra – The science of architecture</li> <li>3. Eight limbs of Vāstu</li> <li>4. Town planning</li> <li>5. Temples in India: marvelous stone architecture for eternity</li> <li>6. Temple architecture in India</li> <li>7. Iconography</li> </ol>	06 <sup>th</sup> October 2023
	<b>End – Term Assessment</b>	<b>06<sup>th</sup> October 2023</b> <b>Due Date: 29<sup>th</sup> October 2023</b>

### 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%
Final Exam	75%

### 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.