

# **SIDO KANHU MURMU UNIVERSITY, DUMKA**

(A State University recognized under Section 2(f) & 12(B) of the UGC Act, 1956)



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**FOUR-YEAR UNDER GRADUATE PROGRAMME (FYUGP)**

**SYLLABUS**

**OF**

**INDIAN KNOWLEDGE SYSTEM (IKS)  
(COMMON COURSE FOR SEMESTER-I)**

**In accordance with the**

**Implementation of FYUGP in State Universities of**

**Jharkhand Regulations, 2024**

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*Implemented from*

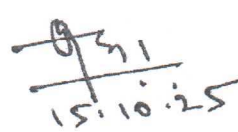
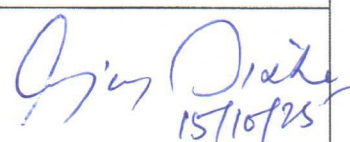

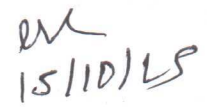

*Academic Session 2025-2029 Onwards*

## Syllabus Committee Meeting Proceedings

A meeting of the Syllabus Committee for the revision and finalization of the INDIAN KNOWLEDGE SYSTEM (COMMON COURSE) syllabus for the Four-Year Undergraduate Programme (FYUGP), in accordance with the Implementation of FYUGP in State Universities of Jharkhand Regulations, 2024, was convened on 15.10.2025.

The following members of the Syllabus Committee were present in this meeting. The committee unanimously accepted and recommended the syllabi, incorporating major modifications.

Members of the Syllabus Committee:

| S. NO. | MEMBERS  | SIGNATURE   |
|--------|--|---|
| 1.     | <b>Dr. Nawin Kumar (External Expert)</b><br>Associate Professor, Department of Political Science, Government (Autonomous) PG College, Satna (Madhya Pradesh) | <br>15.10.25 |
| 2      | <b>Dr. Ajoy Sinha (Chairperson)</b><br>Assistant Professor, University Department of Political Science, SKMU, Dumka  | <br>15/10/25 |
| 3      | <b>Dr. Punam Hembram (Member)</b><br>Assistant Professor, University Department of Zoology, SKMU, Dumka  | <br>15/10/25 |
| 4      | <b>Anil Kumar (Member)</b><br>Assistant Professor, A.S. College, Deoghar, SKMU, Dumka  | <br>15/10/25 |
| 5      | <b>Dr. Indrajeet Kumar (Member)</b><br>Assistant Professor, S.P. College, SKMU, Dumka  | <br>15/10/25 |

|   |   |                                |
|---|---|--------------------------------|
| 6 | <b>Dr. Anjani Sharma (Member)</b><br>Assistant Professor, Deoghar College, Deoghar,<br>SKMU, Dumka        |                                |
| 7 | <b>Amita Kumari (Member)</b><br>Assistant Professor, University Department of<br>History, SKMU, Dumka     | <i>[Signature]</i><br>15/10/25 |
| 8 | <b>Dr. Binod Murmu (Member)</b><br>Assistant Professor, University Department of<br>Commerce, SKMU, Dumka | <i>[Signature]</i><br>15/10/25 |
| 9 | <b>Dipak Kumar Das (Invitee Member)</b><br>Coordinator of NEP, SKMU, Dumka                                | <i>[Signature]</i><br>15/10/25 |

**Dr. Ajoy Sinha**

**(Chairperson)**

*[Signature]*  
15/10/25

## INSTRUCTIONS FOR QUESTION SETTER

### 1. End Semester Examination (50 Marks)

The **End Semester Examination (ESE)** will be of **50 marks** and will also have **two groups**.

**Group A** is compulsory and will have: Five very short answer questions (1 mark each, total 5 marks)

**Group B** will have **six descriptive questions**, each carrying **15 marks**. Students need to answer **any three** (total 45 marks).

Note: Some questions may be divided into smaller parts if needed.

### FORMAT OF QUESTION PAPER FOR END SEMESTER UNIVERSITY EXAMINATIONS

#### Question format for 50 Marks:

| F.M. =50   | Subject/ Code<br>Time=2Hrs. | Exam Year |
|--|-----------------------------|-----------|
| <b>General Instructions:</b>   |                             |           |
| <ul style="list-style-type: none"><li>i. <b>Group A</b> carries very short answer type <b>compulsory</b> questions.</li><li>ii. <b>Answer 3 out of 5</b> subjective/ descriptive questions given in <b>Group B</b>.</li><li>iii. Answer in your own words as far as practicable.</li><li>iv. Answer all sub parts of a question at one place.</li><li>v. Numbers in right indicate full marks of the question.</li></ul> |                             |           |
| <b><u>Group A</u></b>  |                             |           |
| 1.   |                             | [5x1=5]   |
| i. ....  |                             |           |
| ii. ....   |                             |           |
| iii. ....  |                             |           |
| iv. ....   |                             |           |
| v. ....  |                             |           |
| <b><u>Group B</u></b>  |                             |           |
| 2. ....  |                             | [15]      |
| 3. ....  |                             | [15]      |
| 4. ....  |                             | [15]      |
| 5. ....  |                             | [15]      |
| 6. ....  |                             | [15]      |
| <b>Note:</b> There may be subdivisions in each question asked in Theory Examination.   |                             |           |

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**SEMESTER – I****COURSE:** INDIAN KNOWLEDGE SYSTEM (IKS)**TOTAL CREDITS:** 02**PAPER NAME:** INDIAN KNOWLEDGE SYSTEM**TEACHING HOURS:** 30

| <b>EVALUATION</b><br>(Only the End Semester University Examination will be conducted) |           |
|---------------------------------------------------------------------------------------|-----------|
| <b>Full Marks</b>                                                                     | 50 Marks  |
| <b>Duration of Exam</b>                                                               | 1.5 Hours |
| <b>Pass Marks</b>                                                                     | 20 Marks  |

**COURSE OBJECTIVES:**

- To introduce students to the foundational concepts, scope, and significance of the Indian Knowledge System (IKS) and explore its holistic, interdisciplinary and indigenous nature.
- To familiarize students with key textual traditions and schools of philosophy in both Vedic and non-Vedic traditions, highlighting the intellectual diversity and philosophical depth of ancient India.
- To examine applied aspects of Indian knowledge in science, medicine, architecture, and governance, through key figures and achievements in mathematics, astronomy, Ayurveda, and town planning.
- To understand the regional and localized dimensions of IKS, with a particular focus on tribal knowledge systems such as those of the Santals, including their oral traditions, ecological ethics, and communitarian life.
- To critically engage with the relevance of Indian Knowledge Systems in contemporary contexts, particularly in areas such as sustainable development, wellness, and cultural continuity.

**COURSE OUTCOMES:**

By the end of this course, students will be able to:

- Define and explain the meaning, scope, uniqueness, and contemporary relevance of the Indian Knowledge System.
- Demonstrate knowledge of key Vedic and non-Vedic philosophical traditions, texts, and thinkers, and evaluate their contributions to Indian intellectual history.
- Identify and analyze the scientific and applied knowledge traditions of ancient India, including contributions in mathematics, astronomy, medicine (Ayurveda), and architecture.
- Appreciate and articulate the richness of regional and indigenous knowledge systems, with special reference to the Santal traditions and their ecological, spiritual, and socio-political frameworks.

- Critically examine the continuity and transformation of Indian Knowledge Systems in the modern world and reflect on how they inform debates around sustainability, health, and community life today.
- Engage with primary and secondary sources in a critical manner, and present informed perspectives on various dimensions of Indian Knowledge Systems.

## **COURSE CONTENTS:**

### **UNIT-I: Foundations of Indian Knowledge System**

- Meaning, Scope, relevance and uniqueness of Indian Knowledge System
- Vedic Literature: Four Vedas, Brahmanas, Upanishads, Aranyakas
- Vedic Schools of Philosophy (Sāṃkhya and Yoga, Nyaya and
- Vaiśeṣika, Pūrva-Mīmāṃsā and Vedānta)
- Non-Vedic schools of Philosophical Systems (Cārvāka, Buddhist, Jain)
- Puranas and Epics: Ramayana and Mahabharata
- Sangam Literature
- Philosophers and Thinkers: Maharishi Vyas, Manu, Panini, Kanad, Patanjali, Nagarjuna, Shankaracharya

### **UNIT-II: Applied Indian Knowledge System:**

- Mathematics and Astronomy: Aryabhatta, Varahamihira, Brahmagupta, Baudhayana, Bhasakaracharya, Sawai Jai Singh
- Ayurveda and Yoga: Sushruta, Charaka, Dhanvantari, Patanjali
- Metallurgy, Town Planning, Architecture, Temple – Nagara, Dravida, Vesara, Stupas and Viharas
- Regional Knowledge System:
  - ✓ Santal oral traditions: Folksongs, folktales, idioms, folkdance
  - ✓ Ecological and Environmental Knowledge: Traditional Medicine, Healing Practices, Sustainable use of natural resources
  - ✓ Indigenous World View and Way of life: Spiritual and Cosmological Beliefs
  - ✓ Communitarianism: Community based social organization and traditional governance system

### **SUGGESTED READINGS:**

1. Mahadevan, B., Bhat Vinayak Rajat, Nagendra Pavana R.N. (2022), *Introduction to Indian Knowledge System: Concepts and Applications*, PHI Learning Private Ltd. Delhi.
2. *Pride of India: A Glimpse into India's Scientific Heritage*, Samskrita Bharati, New Delhi.
3. Sampad and Vijay (2011), *The Wonder that is Sanskrit*, Sri Aurobindo Society, Puducherry.
4. Acarya, P.K. (1996), *Indian Architecture*, Munshiram Manoharlal Publishers, New Delhi.

5. Kapoor Kapil, Singh Avadhesh (2021), *Indian Knowledge Systems Vol – I & II*, Indian Institute of Advanced Study, Shimla.
6. Dasgupta, S. (1975), *A History of Indian Philosophy – Volume I*, Motilal Banarsidass, New Delhi.
7. Plofker, K. (1963), *Mathematics in India*, Princeton University Press, US.
8. Mathur, Nita (2001), *Santal Worldview*, Concept Publishing Company, New Delhi
9. Bodding, P. O. (2017) *Studies in Santal Medicine and Connected Folklore* (Part I, II and III)
10. Bodding, P. O. (2007) *Santal Folk Tales*, Vol.1, 2, 3
11. Bodding, P. O. (2013) *Tradition and Institution of the Santals*

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