



Faculty of: **Science & Life Sciences**

Course: **Bachelor of Science (Microbiology)**

Semester: **I**

Subject Code: **IKS201-1C**

Subject Name: **INDIAN KNOWLEDGE SYSTEM**

| Sr. No | Category | Subject Code | Subject Name            | Teaching hours/Week |    |    | Credit hours | Credit Points | Evaluation Scheme/ Semester             |       |                    |            |                      |          |                    |          | Total |    |    |
|--------|----------|--------------|-------------------------|---------------------|----|----|--------------|---------------|---|-------|--------------------|------------|----------------------|----------|--------------------|----------|-------|----|----|
|        |          |              |                         | Th                  | Tu | Pr |              |               | Theory                                  |       |                    |            | Tutorial / Practical |          |                    |          |       |    |    |
|        |          |              |                         |                     |    |    |              |               | Continuous and Comprehensive Evaluation |       | End Semester Exams |            | Internal Assessment  |          | End Semester Exams |          |       |    |    |
|        |          |              |                         |                     |    |    |              |               | Marks                                   | Marks | Marks              | Duration   | Marks                | Duration | Marks              | Duration |       |    |    |
| 7      | IKS      | IKS201-1C    | INDIAN KNOWLEDGE SYSTEM | 2                   | -  | -- | 2            | 2             | 10                                      | 10    | 05                 | Assignment | 2                    | 1        | --                 | --       | --    | -- | 50 |

**AIM :**

- To know basic knowledge about architecture of the Ancient Indian Knowledge System and to develop an overall understanding of their role and relevance to the contemporary society.

**UNIT-1. Introduction to Indian Knowledge System (3 Lectures)**

- Overview of knowledge and traditional knowledge, non-traditional knowledge
- Ancient method of procuring traditional knowledge
- Modern methods of procuring non-traditional knowledge.
- Challenges to Traditional knowledge in modern times

**UNIT-2. Meaning and importance of Indian Knowledge Systems (6 Lectures)**

- Meaning of knowledge systems
- Characteristics and components of knowledge systems
- Domains of Education in India: Gurukul system, paathshala, Vidhyalaya, Vishvavidhyalay.
- Indian knowledge system in modern scenario.
- Preserving Indian knowledge system in modern India.

**UNIT-3. Literary scholars of Ancient India. (5 Lectures)**

- Kanad, Pingala, Maharshi Vyas, Sage manu, Sage parasar, Banbhata, Nagarjuna, Panini.

**UNIT-4. Mathematical and Scientific scholars of Ancient India. (4 Lectures)**

- Aryabhata, Mahaviracharya, Baudhayana, Bhaskaracharya, Varamihira, Bhramgupta

**UNIT-5. Medical and Yogic Scholars. (4 Lectures)**

- Charak, Susruta, Maharshi Patanjali, Dhanwantari.

**UNIT-6. Development of Arts in ancient India.****(4 Lectures)**

- Vyakaran shastra in Ancient India, Krishi shastra in ancient india,
- Shilpshastra in ancient India, Vastu Shastra in ancient India,
- Natya Shastra in ancient India, Sangeet Shstra in ancient India.

**UNIT-7. History of Indian Economic Thought****(4 Lectures)**

- What is Indian Economic Thought?
- Economic thought from: Dharm Shstra, The Manusmriti, Shukraniti, Mahabharat
- Economic lessons from kautilya's Chanakya Niti.

Arrangement of lectures duration and practical session as per defined credit numbers:

| Units        | Lecture Duration<br>(In Hrs.) |           | Calculation of<br>Credits<br>(In Numbers) |           | Total<br>Lecture<br>Duration | Credit<br>Calculation |
|--------------|-------------------------------|-----------|---|-----------|------------------------------|-----------------------|
|              | Theory                        | Practical | Theory                                    | Practical | Theory+<br>Practical         | Theory+<br>Practical  |
| Unit – 1     | 03                            | 00        | 2   | 0         | 03                           | 2                     |
| Unit – 2     | 06                            | 00        |   |           | 06                           |                       |
| Unit – 3     | 05                            | 00        |   |           | 05                           |                       |
| Unit – 4     | 04                            | 00        |   |           | 04                           |                       |
| Unit – 5     | 04                            | 00        |   |           | 04                           |                       |
| Unit – 6     | 04                            | 00        |   |           | 04                           |                       |
| Unit – 7     | 04                            | 00        |   |           | 04                           |                       |
| <b>TOTAL</b> | <b>30</b>                     | <b>00</b> | <b>2</b>                                  | <b>0</b>  | <b>30</b>                    | <b>2</b>              |

Evaluation:

| Theory Marks | Practical Marks | Total Marks |
|--------------|-----------------|-------------|
| 50           | 00              | 50          |

**Reference Books:**

1. Indian Knowledge System-1: C. Jamnadas and Co.