

AC – 28.06.2024  
Item No. – 8.1 (N)

**As Per NEP 2020**

# University of Mumbai



<b>Syllabus for Indian Knowledge System</b>	
<b>Board of Studies in Indian Knowledge System</b>	
<b>UG First Year Programme</b>	
<b>Semester</b>	<b>I OR II</b>
<b>Title of Paper</b>	<b>Credits 2 for either I or II Semester</b>
<b>D) Indian Knowledge System</b>	
<b>From the Academic Year</b>	<b>2024-2025</b>

Sr. No.	Heading	Particulars
1	<b>Description the course : Including but Not limited to :</b>	Introduction, relevance, Usefulness, Application, interest, connection with other courses, demand in the industry, job prospects etc.
2	<b>Vertical :</b>	Major/Minor/Open Elective /Skill Enhancement / Ability Enhancement/Indian Knowledge System ( Choose By $\checkmark$ )
3	<b>Type :</b>	Theory / Practical
4	<b>Credit:</b>	2 credits ( 1 credit = 15 Hours for Theory or 30 Hours of Practical work in a semester )
5	<b>Hours Allotted :</b>	30 Hours
6	<b>Marks Allotted:</b>	50 Marks
7	<b>Course Objectives:</b> ( List some of the course objectives )	<ol style="list-style-type: none"> <li>1. To sensitize the students about context in which they are embedded i.e. Indian culture and civilisation including its Knowledge System and Tradition.</li> <li>2. To help student to understand the knowledge, art and creative practices, skills and values in ancient Indian system.</li> <li>3. To help to study the enriched scientific Indian heritage.</li> <li>4. To introduce the contribution from Ancient Indian system &amp; tradition to modern science &amp; Technology.</li> </ol>
8	<b>Course Outcomes:</b> ( List some of the course outcomes )	<ol style="list-style-type: none"> <li>1. Learner will understand and appreciate the rich Indian Knowledge Tradition</li> <li>2. Lerner will understand the contribution of Indians in various fields</li> <li>3. Lerner will experience increase subject-awareness and self-esteem</li> <li>4. Lerner will develop a comprehensive understanding of how all knowledge is ultimately intertwined</li> </ol>
9	<b>Modules:-</b>	
	<b>Module 1: ( 10 Hours )</b>	
		<ol style="list-style-type: none"> <li>1. Introduction to IKS (What is knowledge System, Characteristic Features of Indian Knowledge System)</li> <li>2. Why IKS? (Macaulay's Education Policy and its impact, Need of revisiting Ancient Indian Traditions)</li> <li>3. Scope of IKS (The Universality of IKS (from Micro to Macro), development form Earliest times to 18th Century CE)</li> <li>4. Tradition of IKS (Ancient Indian Education System: Home, Gurukul, Pathashala, Universities and ancient educational centres)</li> <li>5. Relevant sites in the vicinity of the Institute (Water Management System at Kanheri, Temple Management of Ambarnath, etc.)</li> </ol>

<b>Module 2: ( 10 Hours )</b>			
<ol style="list-style-type: none"> <li>1. Medicine (Ayurveda)</li> <li>2. Alchemy</li> <li>3. Mathematics</li> <li>4. Logic</li> <li>5. Art of Governance (Arthashastra)</li> </ol>			
<b>Module 3: (10 Hours) (Select Any FIVE out of the following)</b>			
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <ol style="list-style-type: none"> <li>1. Aesthetics</li> <li>2. Town Planning</li> <li>3. Strategic Studies</li> <li>4. Krishi Shastra</li> <li>5. Vyakaran &amp; Lexicography</li> <li>6. Natyashastra</li> <li>7. Ancient Sports</li> <li>8. Astronomy</li> </ol> </td> <td style="width: 50%; border: none;"> <ol style="list-style-type: none"> <li>9. Yoga and Wellbeing</li> <li>10. Linguistics</li> <li>11. Chitrasutra</li> <li>12. Architecture</li> <li>13. Taxation</li> <li>14. Banking</li> <li>15. Trade and Commerce</li> </ol> </td> </tr> </table>		<ol style="list-style-type: none"> <li>1. Aesthetics</li> <li>2. Town Planning</li> <li>3. Strategic Studies</li> <li>4. Krishi Shastra</li> <li>5. Vyakaran &amp; Lexicography</li> <li>6. Natyashastra</li> <li>7. Ancient Sports</li> <li>8. Astronomy</li> </ol>	<ol style="list-style-type: none"> <li>9. Yoga and Wellbeing</li> <li>10. Linguistics</li> <li>11. Chitrasutra</li> <li>12. Architecture</li> <li>13. Taxation</li> <li>14. Banking</li> <li>15. Trade and Commerce</li> </ol>
<ol style="list-style-type: none"> <li>1. Aesthetics</li> <li>2. Town Planning</li> <li>3. Strategic Studies</li> <li>4. Krishi Shastra</li> <li>5. Vyakaran &amp; Lexicography</li> <li>6. Natyashastra</li> <li>7. Ancient Sports</li> <li>8. Astronomy</li> </ol>	<ol style="list-style-type: none"> <li>9. Yoga and Wellbeing</li> <li>10. Linguistics</li> <li>11. Chitrasutra</li> <li>12. Architecture</li> <li>13. Taxation</li> <li>14. Banking</li> <li>15. Trade and Commerce</li> </ol>		
<b>10</b>	<b>Reference Books</b> <ol style="list-style-type: none"> <li>1. Concise history of science in India- D.M. Bose, S.N Sen, B.V. Subbarayappa.</li> <li>2. Positive sciences of the Ancient Hindus- Brajendranatha seal, Motilal Banrasidas, Delhi 1958.</li> <li>3. History of Chemistry in Ancient India &amp; Medieval India, P.Ray- Indian Chemicals Society, Calcutta 1956</li> <li>4. Charaka Samhita- a scientific synopsis, P. Ray &amp; H.N Gupta National Institute of Sciences of India, New Delhi 1965.</li> <li>5. MacDonnell A.A- History of Sanskrit literature</li> <li>6. Winternitz M- History of Indian Literature Vol. I, II &amp; III</li> <li>7. Dasgupta S.N &amp; De S.K- History of Sanskrit literature Vol. I.</li> <li>8. Ramkrishna Mission- cultural heritage of India Vol. I, II &amp; III.</li> <li>9. Majumdar R. C &amp; Pushalkar A.D- History &amp; culture of the Indian people, Vol. I, II &amp; III.</li> <li>10. Keith A.B- History of Sanskrit literature.</li> <li>11. Varadachari V- History of Sanskrit literature Chaitanya Krishna- A new History of Sanskrit</li> </ol>		
<b>11</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><b>Continuous Internal Assessment: 20 Marks</b></td> <td style="width: 50%;"><b>Semester End Examination : 30 Marks</b></td> </tr> </table>	<b>Continuous Internal Assessment: 20 Marks</b>	<b>Semester End Examination : 30 Marks</b>
<b>Continuous Internal Assessment: 20 Marks</b>	<b>Semester End Examination : 30 Marks</b>		
<b>12</b>	<b>Continuous Evaluation through:</b> Assignment/ Presentations/ Projects (Group/Individual) / Field Visit Report <b>10 Marks,</b> class Test / MCQ Test <b>5 Marks,</b> Overall Conduct and Class Participation <b>5 Marks</b>		
<b>13</b>	<b>Format of Question Paper: for the final examination</b> Q1. Attempt any TWO Questions out of FIVE. <b>6 Marks</b> Q2. Attempt any THREE Questions out of FIVE <b>12 Marks</b> Q3. Attempt any THREE Questions out of FIFTEEN. <b>12 Marks</b>		



**Sign of the BOS  
Chairman  
Name of the  
Chairman  
Name of the BOS**

**Sign of the  
Offg. Associate Dean  
Name of the Associate  
Dean  
Faculty of Interdisciplinary Studies  
Name of the Faculty**

**Sign of the  
Offg. Dean  
Name of the Offg. Dean  
Faculty of  
Interdisciplinary Studies  
Name of the Faculty**