Course Code: 22UHS600C	Indian Knowledge System (Common to all Branches)	Credits	01
Hours/Week (L:T:P: S): 1:0:0:0		CIE Marks	50
Total Hours of Pedagogy (Theory + Lab) :15hrs		SEE Marks	50

UNIT-I	(3 Hrs.)

Indian Knowledge Systems (IKS)
Overview, Vedic Corpus, Philosophy in Indian Knowledge system

UNIT-II	4 Hrs.)

Traditional Knowledge in Mathematics
Introduction to Indian Mathematics, Unique aspects of Indian Mathematics, Indian Mathematicians and their Contribution. Number Systems and Units of Measurement.

UNIT-III	(4 Hrs.)

Traditional Knowledge in Science
Measurements for time, distance and weight, Astronomy, Indian contributions in astronomy, Astrology, The celestial coordinate system, Elements of the Indian calendar, Notion of years and month, Panchanga – The Indian calendar system.

UNIT-IV	4 Hrs.)

Traditional Knowledge in Professional domain
Town Planning and Architecture, Agriculture, Governance and Public Administration.

Reference Books

1. Mahadevan, B., Bhat Vinayak Rajat, Nagendra Pavana R.N. "Introduction to Indian Knowledge System: Concepts and Applications", PHI Learning Private Ltd. Delhi (2022). Pride of India: A Glimpse into India's Scientific Heritage, Samskrita Bharati, New Delhi.
2. Sampad and Vijay "The Wonder that is Sanskrit", Sri Aurobindo Society, Puducherry. (2011).
3. Acarya, P.K. Indian Architecture, MunshiramManoharlal Publishers, New Delhi. (1996).
4. Kapoor Kapil, Singh Avadhesh "Indian Knowledge Systems Vol – I & II", Indian Institute of Advanced Study, Shimla, H.P. (2021).
5. Dasgupta,S. A History of Indian Philosophy- Volume 1, Motilal Banarsidass, New Delhi. (1975).
6. PLofker, K. (1963). Mathematics in India, Princeton University Press, New Jeresy, USA"

Suggested Web Links:

1. https://www.youtube.com/watch?v=LZP1StpYEPM
2. http://nptel.ac.in/courses/121106003/
3. http://www.iitkgp.ac.in/department/KS;jsessionid=C5042785F727F6EB46CBF432D7683B63 (Centre of Excellence for Indian Knowledge System, IIT Kharagpur)
4. https://www.wipo.int/pressroom/en/briefs/tk_ip.html
5. https://unctad.org/system/files/official-document/ditcted10_en.pdf

6. http://nbaindia.org/uploaded/docs/traditionalknowledge_190707.pdfdevelopmentgoals/?gclid=EAIaIQobChMInpJtb_p8gIVTeN3Ch2
   1. 7. https://unfoundation.org/what-we-do/issues/sustainable-developmentgoals/?gclid=EAIaIQobChMInpJtb_p8gIVTeN3Ch27LAmPEAAYASAAEgIm1vD_BwELAmPEAAYASAAEgIm1vD_BwE

Course Outcomes:

At the completion of the course student will be able to:

CO1: Provide an overview of the concept of the Indian Knowledge System and its importance

CO2: Appreciate the need and importance of protecting traditional knowledge.

CO3: Recognize the relevance of Traditional knowledge in different domains.

CO4: Establish the significance of Indian Knowledge systems in the contemporary world.

Course Outcomes	Programme Outcomes(POs)										
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**
CO1	2	2	-	1	-	2	1	3	-	2	2
CO2	1	2	-	-	-	3	2	3	-	1	2
CO3	2	2	1	-	1	3	3	3	-	2	2
CO4	2	2	2	-	1	3	2	3	1	2	3