



SRI KRISHNA INSTITUTE OF TECHNOLOGY

(Accredited by NAAC Approved by A.I.C.T.E. New Delhi, Recognized by Govt. of Karnataka & Affiliated to V.T U., Belagavi)

#29, Chimney Hills, Hesaraghatta Main Road, Chikkabanavara Post, Bengaluru- 560090

Department of Electronics & Communication Engineering

Academic Year	:	2025-26	Course Name	:	Indian Knowledge Systems
Semester	:	6th	Course Code	:	BIKS609
Scheme	:	2022	L:T:P:C	:	1:0:0:0
Total Contact hours	:	15 hrs	CIE Marks	:	100
Course Plan Author	:	Dr. N.C Patil	SEE Marks	:	00
Date	:	04.01.2026	Total Marks	:	100

Course Prerequisites:

1. Basic Knowledge of ancient culture.
2. Traditional Knowledge

Learning Objectives:

This course will enable students to

- 1 To facilitate the students with the concepts of Indian traditional knowledge and to make them understand the Importance of the roots of knowledge system.
- 2 To make the students understand the traditional knowledge and analyse it and apply it to their day-to-day life.

Course Outcomes:

CO	At the end of the course, students should be able to . . .	Blooms' Level
CO1	Provide an overview of the concept of the Indian Knowledge System and its importance	2
CO2	Appreciate the need and importance of protecting traditional knowledge.	2
CO3	Recognize the relevance of Traditional knowledge in different domains	2
CO4	Establish the significance of Indian Knowledge systems in the contemporary world	2

Blooms' Taxonomy:

L1	L2	L3	L4	L5	L6
Remembering	Understanding	Applying	Analyzing	Evaluating	Creating



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Program Outcomes:

PO1	:	Engineering knowledge	PO7	:	Environment and sustainability
PO2	:	Problem analysis	PO8	:	Ethics
PO3	:	Design/development of solutions	PO9	:	Individual and team work
PO4	:	Conduct investigations of complex problems	PO10	:	Communication
PO5	:	Modern tool usage	PO11	:	Project management and finance
PO6	:	The engineer and society	PO12	:	Life-long learning

Program Specific Outcomes:

PSO1:	The ability to analyze, design and implement application specific electronic system for complex engineering problems for analog, digital domain, communications and signal processing applications by applying the knowledge of basic sciences, engineering mathematics and engineering fundamentals.
PSO2:	The ability to adapt for rapid changes in tools and technology with an understanding of societal and ecological issues relevant to professional engineering practice through life-long learning.
PSO3:	Excellent adaptability to function in a multi-disciplinary work environment, good interpersonal skills as a leader in a team in appreciation of professional ethics and societal responsibilities

CO-PO-PSO Mapping:

CO	Program Outcomes														
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO12	PSO 1	PSO 2	PSO 3
CO1	2	-	-	-	-	-	-	3	-	-	-	1			
CO2	-	-	-	-	-	2	-	-	-	-	-	-			
CO3	-	-	2	2	-	-	-	-	-	-	-	-			
CO4	-	-	-	-	-	3	2	-	-	-	-	-			
Target	2	-	2	2		2.5	2	3							
Course Content (Syllabus)Unit 1														CH	
Introduction to Indian Knowledge Systems (IKS): Overview, Vedic Corpus, Philosophy, Character scope and importance, traditional knowledge vis-a-vis indigenous knowledge, traditional knowledge vs. western knowledge.														05	
Unit 2															
Traditional Knowledge in Humanities and Sciences: Linguistics, Number and measurements- Mathematics, Chemistry, Physics, Art, Astronomy, Astrology, Crafts and Trade in India and Engineering and Technology.														05	
Unit 3															
Traditional Knowledge in Professional domain: Town planning and architecture- Construction, Health, wellness and Psychology-Medicine, Agriculture, Governance and public administration, United Nations Sustainable development goals.														05	



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Schedule of Instruction:

Class No	Topic	Date	RBT	CO	Mode
Module-1					
Chapter Name					
1.	Introduction to Indian Knowledge Systems (IKS):.	13.02.25	L1	CO1	L
2.	Overview, Vedic Corpus,	27.02.25	L2	CO1	L
3.	Philosophy, Character scope and importance,	06.03.25	L2	CO1	L
4.	traditional knowledge vis-a-vis indigenous knowledge,	13.03.25	L2	CO1	L
5.	traditional knowledge vs. western knowledge	20.03.25	L2	CO1	PPT
Module-2					
Chapter Name					
6.	Traditional Knowledge in Humanities and Sciences:	27.03.25	L2	CO2	L
7.	Linguistics, Number and measurements-.	17.04.25	L2	CO2	L
8.	Mathematics, Chemistry, Physics,	17.04.25	L2	CO2	L
9.	Art, Astronomy, Astrology,	24.04.25	L2	CO2	L
10.	Crafts and Trade in India and Engineering and Technology	24.04.25	L2	CO2	PPT
Module-3					
Chapter Name					
11.	Traditional Knowledge in Professional domain:	L2	CO3	L	
12.	Town planning and architecture- Construction,	08.05.25	L2	CO3	L
13.	Health, wellness and Psychology-Medicine,,	15.05.25	L2	CO3	L
14.	Agriculture, Governance and public administration,	22.05.25	L2	CO3	L
15.	United Nations Sustainable development goals	29.05.25	L2	CO4	L

Textbooks:

T1	Introduction to Indian Knowledge System- concepts and applications , B Mahadevan, Vinayak Rajat Bhat, Nagendra Pavana R N, 2022, PHI Learning Private Ltd, ISBN-978-93-91818-21-0
T2	Traditional Knowledge System in India , Amit Jha, 2009, Atlantic Publishers and Distributors (P) Ltd., ISBN-13: 978-8126912230, Leblebici, Third Edition, Tata McGraw-Hill



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Reference books:

R1	Knowledge Traditions and Practices of India , Kapil Kapoor, Avadesh Kumar Singh, Vol. 1, 2005, DK Print World (P) Ltd., ISBN 81-246-0334,
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Web links and Video Lectures (e-Resources):

1.	https://tinyurl.com/IndKnowSystem (Course Website)
2.	https://www.youtube.com/watch?v=LZP1StpYEPm http://nptel.ac.in/courses/121106003/ http://www.iitkgp.ac.in/departments/KS;jsessionid=C5042785F727F6EB46CBF432D7683 (Centre of Excellence for Indian Knowledge System, IIT Kharagpur)

Assessment Schedule:

S.N.	Assessment Type	Content	CO	Duration	Marks	Date
1.	IA Test 1	Module 1, 2(Part I)	1,2	1 hour	25	18.03.26
2.	IA Test 2	Module 2(Part II) 3	3,4	1 hour	25 (Reduce to 40)	07.05.26
3.	Assignment 1-Case Study	Module 1, 2(Part I)	1,2	1 hour	20	28.03.26
4.	Assignment 2-Video based Seminar	Module 2(Part II) 3	3	1 hour	20	20.04.26
5.	Quiz	Module 1,2,3	1,2,3	20Min	20	30.05.26
6.	Semester End Examination	Module 1, 2, 3	1,2,3	00	00	16 th week

RB – Text Book/Reference Book, ***L** – Lecture, **V**- Videos or any other mode, ***RBT** – Revised Blooms' Taxonomy, **L: T: P: C** – Theory/Lecture: Tutorial: Practical/Drawing: Credits, **SEE**: Semester End Examination, **CIE**: Continuous Internal Evaluation, **Seminar**: Group of 6-8 students, **Module** 1,2,3,4 & 5,

****The sum of total marks of three tests, two assignments, and seminar will be out of 100 marks and will be scaled down to 50 marks. (As per the scheme), CIE + SEE = 50 + 50 = 100 marks**

Faculty In charge

Course Coordinator

HoD