



Sir P. T. Sarvajani College of Science (Autonomous)
Surat-395001
(Affiliated with Veer Narmad South Gujarat University, Surat)

SYLLABUS
FOR
B. Sc. Sem. II
Program: B. Sc.
Course: Indian Knowledge System (IKS)

From
Academic year
2025-26

Board of studies in English

Undergraduate

	Name	Designation	Institute/Industry
Head of the Department			
1	Prof. Priti Singaraju	Chairman	Sir. P. T. Sarvajanik College of Science(Autonomous), Surat.
All Faculty Members of the Department			
	NIL		
Two Subject expert from the Parent University are to be nominated by Academic Council			
1	Dr. Urvashi Kaushal	Associate Professor	Dept. of Humanities & Social Sciences, SVNIT Surat
2	Dr. Babita Kar	Assistant Professor	Shree Ramkrishna Institute of Computer Education and Applied Science, Sarvajanik University, Surat
One subject expert is to be nominated by Vice-Chancellor form a panel of six recommended by the Autonomous College Principal			
1	Dr. Arpitbhai Dave	Nominated Member	Shri J. S. Bhakta Arts and A. N. Shah Science and Shree N. F. Shah Commerce College, Kholwad
One representative from Industry/ Corporate Sector/ allied areas to be nominated by Principal			
1	Mr. Jigar Patel	Nominated Member	1, Dharmaraj Society, Opp. Vijay Sales, Nr. Navyug College, B/h. Satyam Apt., Gorat Hanuman Road, Tadwadi, Rander, Surat
One Alumnus to be nominated by Principal			
1	Mr. Harish Solanki	Nominated Member	B-102, Gothik Heritage, Nr. Raj Corner Shopping Center, Opp. Times Square, Pal – Gaurav Path Road, T. P. 10, Surat
Experts from outside the Autonomous College, whenever special courses of studies are to be formulated, to be nominated by the Principal.			
1	Dr. Girijakant Nanda	Nominated Member	Shree Thakorbbhai Patel Arts and Commerce College, Ginwala School Campus, Ankleshwar - 393001
Invited Member			
1	Ms. Shriya Sahu	Part Time Teacher	Sir. P. T. Sarvajanik College of Science(Autonomous), Surat.

ACKNOWLEDGEMENT

I express my heartfelt gratitude to Prin. Dr. Pruthul Desai for his strong support, valuable guidance and dynamic leadership. Thank you for being a pillar of strength and a source of inspiration.

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I am also indebted to Mr. Jiger Patel and Mr. Harish Solanki for their moral support.

Thank you all.

Prof. Priti Singaraju
Chairperson,
Board of Studies in English.



Sir P. T. Sarvajani College of Science (Autonomous)
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Semester-II

Sir P T Sarvajanik College of Science
(Autonomous)
NEP – 2020 GUIDED

SYLLABUS FOR Indian Knowledge System (IKS)

Introduction to Indian Knowledge System

FOR B.SC. SEMESTER II
FROM THE ACADEMIC YEAR 2025-26

Course Code	IKS-S2P1-2CR25
Course Title	Introduction to Indian Knowledge System
Credit	2
Teaching per Week	2 hours
Minimum weeks per Semester	15 (including class work, examination, preparation, holidays etc.)
Effective From	Nov 2024
Purpose of Course	To foster rooted, holistic, multidisciplinary learning by integrating India's heritage with modern education.
Program Outcomes	PSO 1: Understand and appreciate the relevance of IKS in various scientific disciplines. PSO 2: Demonstrate IKS principles to promote sustainability and harmony with nature. PSO 3: Develop critical thinking using IKS frameworks across different science streams.
Course Objective	<ol style="list-style-type: none">1. To make students study the evolution of Indian culture and civilization.2. To introduce the basic principles of Indian Knowledge Systems3. To make students aware about the reverence towards nature, and the interconnectedness of human and natural existence to real-world scenarios.
Course Outcomes	At the end of this course, learners will be able to <ul style="list-style-type: none">• CO1: Remember key concepts of IKS in basic sciences• CO2: Explain foundational principles of IKS for science• CO3: Discuss IKS values in science contexts

Mapping between COs with PSOs		PSO1	PSO2	PSO3
	CO1	√	√	
	CO2	√	√	
	CO3		√	√
Course Content	<p>1.1 Self – Revelation of Bharat, knowledge tradition of glorious Bharat, The Sublime Journey of Bharatiya Culture & Civilization, Dissemination and contribution of Indian Knowledge systems in the world Glorious tradition of Science and Art in Bharat</p> <p>2.1 Way of Life as Indian Knowledge System, implicit concepts in Indian Knowledge Systems: Birth, Death, Rebirth, Law of Karma, Paap – Punya, co - existence of Nature and Human Nature, manifold paths of Upasana, value of harmonious existence - Ritam, reverence towards Nature and environment of Oneself in Indian Knowledge Systems</p>			
Reference Books	<p>Reference Books:</p> <ol style="list-style-type: none"> 1. Kapoor Kapil, Singh Avadesh (2021). "Indian Knowledge Systems Volume - I and II". Indian Institute of Advanced Study, Shimla, H.P. 2. B. Mahadevan, "Introduction to Indian Knowledge Systems", IICS Bangalore 3. R.C. Majumdar, "Ancient India", Motilal Banarasidas, Publishers, New Delhi, First Edition, Varansi, 1952, Reprint 2003. 4. Basham, A.L. (Ed.) "A Cultural History of India", New Delhi, Oxford University Press, 1975. 5. Sri Aurobindo, "The Foundations of Indian Culture", SABDA, Sri Aurobindo Ashram, Pondicherry, 1972.S 6. Sri Aurobindo, "India's Heritage", SABDA, Sri Aurobindo Ashram, Pondicherry, 1972. 7. Swami Vivekananda, "Speeches in Bharat", Book Library, 2020 8. Sharad Hebalkar, "World Communication of Indian Culture", Sahitya Sadhan Trust, Ahmedabad, 2004. 9. Sri Aurobindo and Sri Mataji, "Four Yogas and Four Liberations", SABDA, Sri Aurobindo Ashram, Pondicherry. 10. Swami Vivekananda, "Dreams of India", Diamond Books, New Delhi. 11. B S Shah, "Education Thoughts on Education Philosophy", B S Shah Publication. 12. V H Patel, "Greatness of Hindu Dharma", Pravin Prakashan, Rajkot, 2015. 13. V K Bhagwat, "Philosophy of Sri Aurobindo", University Book Creation Board, Gujarat State, Gandhinagar. 			

	14. Katghare Indumati, "Family and Family Education", Punarthan Vidyapeeth, Ahmedabad
Teaching Methodology	Class work, Discussion, Self-Study, Assignment, Homework, Activity, Self- Assessment etc.
Evaluation Method	This course has 02 credits during the semester. The internal evaluation will be out of 25 marks, based on Unit Testmarks, class and home assignments and attendance marks; while the external evaluation will be out of 25 marks at the university examination.

Distribution of Marks for the Final Examination as per NEP SOP

Unit:1

- | | |
|---|----------|
| Q 1. (A) Objective type questions (05/05) | 05 Marks |
| (B) Descriptive type questions (01/02) | 08 Marks |

Unit:2

- | | |
|---|----------|
| Q 2. (A) Objective type questions (05/05) | 05 Marks |
| (B) Objective type questions (05/05) | 05 Marks |
| (C) Answer in brief. (01/02) | 02 Marks |

Total 25 Marks