



Gujarat Technological University

(Accredited with A+ grade by NAAC)

SIKS & Dharohar Bhartiya Gyan Parampara Kendra

Certificate Course Name:- The Science of the Ancients: Discovering India's Intellectual Legacy

Minimum Eligibility For the Course	12 th Pass(Any Stream)
Credit	02
Contact Hours	30
Duration	3 Months
Fees	RS.1500+500 Exam fees
Course Outcomes and Unit-wise Syllabus	Course Outcomes: • Employability & Skill Development: Enhances critical thinking, confidence, self-esteem, and respect for national heritage. • Knowledge of IKS (Indian Knowledge Systems): Expands understanding of ancient Indian contributions to various fields of knowledge and their relevance in the present day. Unit-wise Syllabus: Unit 1: Ancient Indian Mathematics and Astronomy 1. Ancient Indian Mathematics: ◦ Major Mathematicians: Aryabhata, Brahmagupta, Shridhar, Bhaskaracharya, and others. 2. Astronomy and Bharatiya Cosmology: ◦ Surya Siddhant, Concept of Cosmos, Contributions of Aryabhata, Varah Mihir, Brahmagupta, and others. Unit 2: Physics, Chemistry, and Metallurgy 3. Physics and Chemistry: ◦ Contributions of Kanad. ◦ Contributions of Nagarjuna. Unit 3: Medical Science – Ayurveda 4. Ayurveda: ◦ Contributions of Charak (Medicines), Shushrut (Surgery), and Vagbhata. ◦ Chief Texts of Ayurveda: Charak Samhita, Shushrut Samhita, Astanghruday. Unit 4: Natural Sciences 5. Botany (Vanaspati Shastra). 6. Zoology & Veterinary Science. 7. Agricultural Science.

	8. Environmental Science. Unit 5: Engineering, Architecture, and Military Science 9. Engineering and Architecture: ○ Town planning and architectural advancements. 10. Military Science: • Ancient Indian military strategies and technologies. This course explores the significant contributions of ancient Indian scholars in various fields of science and technology. Each unit is designed to provide in-depth knowledge of the respective topics, highlighting the rich heritage of Indian knowledge systems and their practical applications. The course aims to foster a sense of pride and understanding of India's scientific legacy, with each unit contributing 20% to the overall examination weightage.
Relevance of Course:	Regional, National and Global
Teaching Mode	Online
Medium Of Instruction	Gujarati/Hindi/English
Examination Pattern	Online
Marks	100 (MCQs) 50 questions
Passing Marks	40% Passing marks are required
Classis Time	Twice a week- 1 hrs. per lecture