



Gujarat Technological University

(Accredited with A+ grade by NAAC)

SIKS & Dharohar Bhartiya Gyan Parampara Kendra

Certificate Course Name:- Engineering Marvels of Ancient India: A Legacy of Innovation

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: • Historical and Cultural Insight: • Understand the origins and evolution of engineering practices in India across ancient, medieval, and colonial periods. • Appreciation of Indigenous Technologies: • Identify and analyze key engineering marvels and innovations developed in India, including civil, mechanical, and hydraulic systems. • Awareness of Engineering Transitions: • Examine the impact of colonialism and industrialization on indigenous engineering practices. • Contemporary Relevance: • Explore how traditional Indian engineering principles can inform modern sustainable practices and innovation. • Critical Thinking and Innovation: • Engage with contemporary engineering challenges and future directions by drawing from India's legacy of practical and scientific ingenuity.

	• Syllabus: Module 1: Introduction to the Indian History of Engineering Module 2: Ancient Engineering Innovations Module 3: Classical and Medieval Engineering Module 4: Engineering in the Early Colonial Period Module 5: Rise of Modern Engineering in India Module 6: The Role of Engineering in Industrial Growth, Module 7: Engineering and Technological Advancements in the Modern Era Module 8: Innovations in Engineering: Biotechnology, Green Engineering, and Sustainable Development Module 9: Contemporary Challenges and Future of Engineering in India (4 hours)
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