SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY

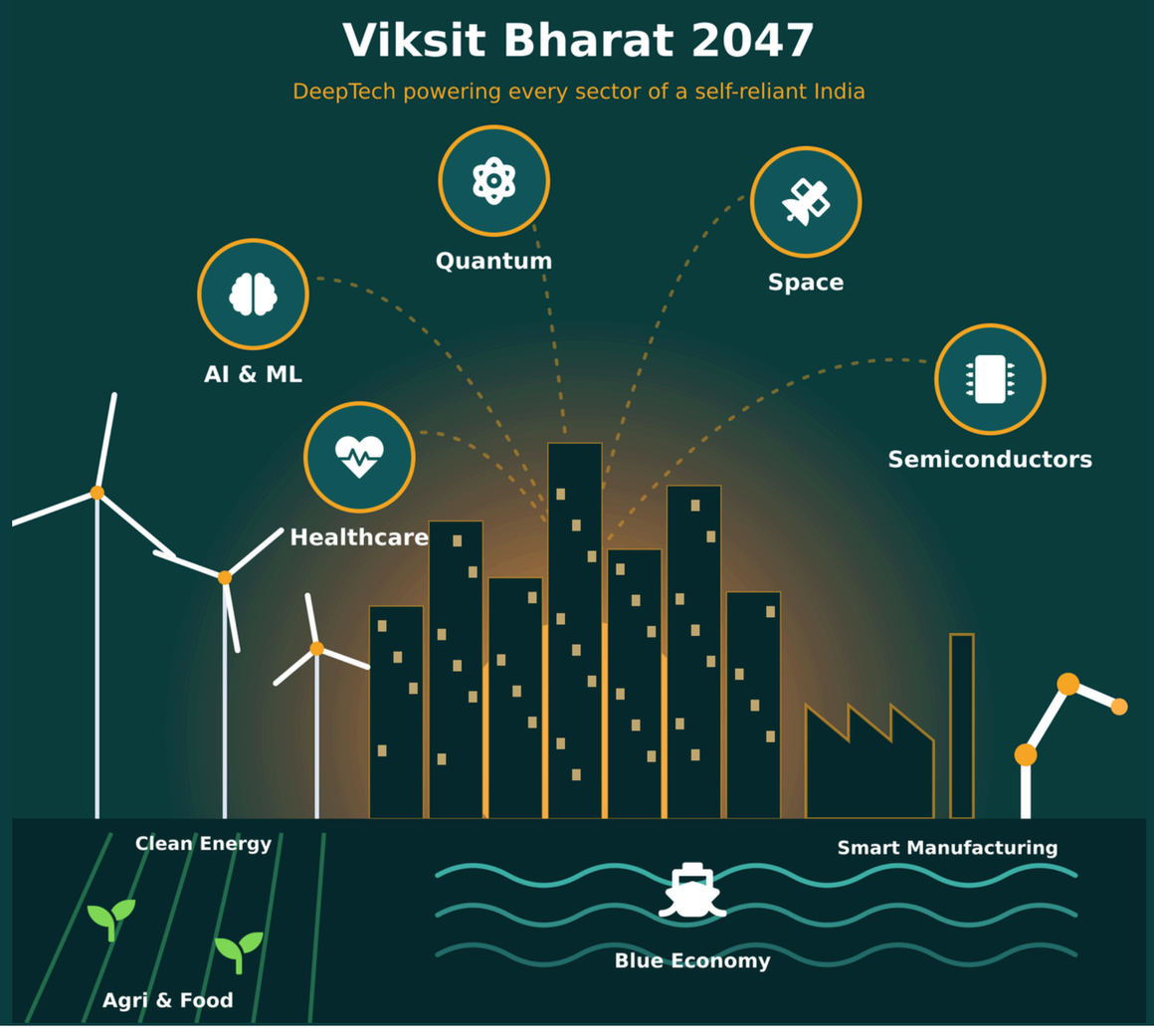
Surat, Gujarat, India

(An Institute of National Importance)

ASHINE

5-DAYS SHORT-TERM TRAINING PROGRAMME ON

Emerging AI & DeepTech for Viksit Bharat 2047



21 – 25 December, 2026

Venue: SVNIT Campus, Surat-Dumas Road, Surat

Preamble

Emerging AI & DeepTech — Generative AI, computer vision, digital twins, IoT, robotics, and additive manufacturing — are converging to redefine how India designs, builds, governs, and grows across sectors. Manufacturing offers one example, as Industry 4.0 automation gives way to AI-native, self-optimizing Industry 5.0 systems. As India moves toward Viksit Bharat 2047, a globally competitive, self-reliant economy will depend on how quickly engineers, researchers, and industry adopt these technologies. This 5-day STTP gives faculty, researchers, students, and industry professionals hands-on exposure to these emerging tools, preparing them to build India's technology-driven future.

About SVNIT Surat

Established in 1961 as Sardar Vallabhbhai Regional College of Engineering & Technology (SVRCET), Surat, the Institute was one of the Regional Engineering Colleges (RECs) established to impart technical education. Initially offering undergraduate programmes in Civil, Electrical and Mechanical Engineering, it was renamed Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, in 2002 and granted the status of a Deemed University. In 2007, it became an Institution of National Importance under the National Institutes of Technology Act.

SVNIT offers eleven B.Tech., twenty-one M.Tech., three five-year integrated M.Sc. programmes in Chemistry, Mathematics and Physics, one integrated B.Tech.–M.Tech. programme, and an MBA in Business Analytics. It also offers doctoral programmes in Engineering, Science, Management and English, and M.Tech. (Research) programmes in engineering disciplines. The Institute is a Quality Improvement Programme (QIP) centre for M.Tech. and Ph.D. programmes and houses the Centre for Indian Knowledge System and the Centre for Tribal Technology Development.

About Research Park & ASHINE

SVNIT Surat established a Research Park to support startups and industry-collaborative research for Viksit Bharat. It connects industry, academia, startups, researchers, and emerging technologies, providing collaborative R&D, research infrastructure, faculty expertise, and student talent across AI, Digital Technologies, Automation & Robotics, Advanced Manufacturing, Energy, and Advanced Materials.

ASHINE (Association for Harnessing Innovation and Entrepreneurship) is the Research Park's startup engine: a Technology Business Incubator set up under India's NIDHI programme. This Section-8 non-profit turns the Park's research, infrastructure, and expertise into startups through incubation, funding, mentorship, networking, and advanced facilities, while promoting innovation, R&D commercialization, IPR development, and student entrepreneurship.

Together, they form a strong innovation ecosystem, building the AI and DeepTech capabilities and self-reliant economy Viksit Bharat 2047 will need, one skill and one startup at a time.

STTP Objectives

- Develop hands-on expertise in DeepTech, including AI, quantum computing, semiconductors, IoT, digital twins and manufacturing.
- Build practical skills in applying machine learning and generative AI to challenges in healthcare, biotechnology, agriculture and smart cities.
- Explore how semiconductors, communications, advanced materials and critical minerals power industrial innovation.
- Understand how automation, sensing and digital twins drive Industry 4.0/5.0, space and defence.
- Gain insight into DeepTech solutions for clean energy, energy efficiency, climate action, the blue economy and resilience.
- Discover the pathway from research to products through prototyping, validation, IP and startups.

Expected Outcomes

- Execute workflows using AI, IoT, digital twins and additive manufacturing.
- Apply ML and generative AI to problems in healthcare, agriculture and smart cities.
- Identify semiconductor, communication and advanced material technologies for industrial use.
- Implement automation, sensing and digital twin solutions for manufacturing, space and defence.
- Formulate an energy-efficient technology roadmap for a self-reliant India.
- Conceptualize and pitch a DeepTech project for Viksit Bharat 2047.

Emerging AI & DeepTech for Viksit Bharat 2047

5-Day STTP | 21 – 25 December, 2026 | SVNIT Campus, Surat

Target Audience

Faculty Members; Research Scholars and M.Tech. students; DeepTech and Hardware startup founders; Practicing Engineers.

Resource Persons

Instructors & Experts: Delivered by leading faculty from SVNIT, premier IIT/NIT researchers, and senior Industry 4.0 automation practitioners.

Core Focus Areas

- Foundations of AI, Machine Learning & DeepTech for Viksit Bharat 2047
- Generative AI for Engineering, Design & Innovation
- Computer Vision & Deep Learning for Real-World Applications
- Industry 4.0/5.0, Smart Manufacturing & 3D Printing/Additive Manufacturing
- Digital Twins, IoT & Cyber-Physical Systems
- Edge AI & Real-Time Intelligent Systems
- Robotics & Autonomous Systems
- AI for Healthcare, Agriculture & Public Governance
- Sustainable & Energy-Efficient Tech through AI
- Data-Driven Decision-Making & Predictive Analytics
- Semiconductors, Next-Gen Communications & Advanced Materials
- Quantum Computing, Space & Defence Technologies
- Blue Economy, Climate Action & Disaster Resilience
- Research to Market: Prototyping, IP & Startup Creation

Registration & Fees

Seats are strictly limited to **50 participants** on a first-come, first-served basis. Satisfactory certificates will be issued on completion.

Registration Deadline: **December 15, 2026**

Category	Fee
Academicians/Scientists	**Rs. 1,500/-**
Start-up Founders & Industry Professionals	**Rs. 2,000/-**
Post Graduate & Research Scholars	**Rs. 1,000/-**

Scan me for Registration

Accommodation in the Institute Guest House is available on request, subject to availability and payment of applicable charges.

Bank Details for Payment

Account Name: Association for Harnessing Innovation and Entrepreneurship
Account No.: 37228036901 | Bank: State Bank of India (SBI)
Branch: SVRCET Branch, Surat (Code: 03320)
IFSC Code: SBIN0003320

Programme Team

CHIEF PATRON: Prof. Anupam Shukla, Director, SVNIT, Surat.

Dr. Harshit K. Dave
Prof., DoME & PIC, ASHINE
Contact: +91 8140434777
researchpark@svnit.ac.in

Dr. G. C. Jadeja
Assoc. Prof., DoChE & FIC, ASHINE
Contact: +91 9638718644
ashine@svnit.ac.in

Dr. Rajesh Choudhary
Asst. Prof., DoME & SSIP Coord., ASHINE
Contact: +91 9460102402
ssip@svnit.ac.in

Dr. Himanshu Pandey
Asst. Prof., DoP & Events Coord., ASHINE
Contact: +91 8130425223
hp@phy.svnit.ac.in

Sponsorship

We cordially invite your esteemed organization to join us as a Sponsor/Industry Partner; sponsorship of specific activities is also welcome. Sponsorship offers valuable brand visibility, recognition during key sessions, and networking opportunities with academicians, researchers, and industry professionals, fostering collaboration, knowledge exchange, and talent outreach. For further information, please contact the programme coordinators.

Diamond **₹1,00,000/-**

Gold **₹50,000/-**