

• How to apply for FDP?

- Interested participants must register through the online registration form shared in the brochure.
- Fill in all required details carefully and submit the form.

Registration form Link :

<https://forms.gle/dok6mkZw8ojp9rcL7>

QR Code Scan
to Register



• Important Dates

Last date for receipt of Applications	:	02-03-2026
Confirmation of participation (Through registered email)	:	05-03-2026
Commencement of FDP	:	09-03-2026

Chief Patron

Hon'ble Shri Deepakji Chafle
President, NRDRS

Patrons

Shri. Ranjeet Chafle
Secretary, NRDRS

Mrs. Mamta A. Belkhede
Member, NRDRS

Dr. Rasika R. Chafle
Registrar, SCET

Chairperson

Dr. V. G. Arajpure
Principal

Co-Chairperson

Dr. V. G. Parhate
CEO & Vice-Principal

Convener

Dr. Narendra G. Narole
Head ETC Dept.

Coordinator

Prof. Sumit Chafale
Asst. Prof. ETC Dept.

Co-Coordinator

Prof. Shailesh Birthariya
Asst. Prof. ETC Dept.

Organising Committee

- Prof. Madhuri Nimje
- Prof. Sachin Malke
- Prof. Smita Matte
- Prof. Damini Tonde
- Prof. Rhutuja Umak
- Prof. Jyoti Nimgade
- Prof. Poonam Jajulwar
- Prof. Tekram Lanjewar



Registration Form

One Week Faculty Development Program

on

Emerging Horizons in Wearable Technology: Innovations, Applications, and Future Trends

9th to 14th March, 2026

Name of Candidate:

Position:

Institute:

Address for Correspondence:

Mobile No.:

What's App No.:

Email ID.:

Sign of Candidate
Designation

Sign of Sponsoring authority
Designation with Seal

Contact Persons

Dr. Narendra Narole (+91 9850616555)
Prof. Sumit Chafale (+91 899135447)

One Week Faculty Development Program

on

Emerging Horizons in Wearable Technology: Innovations, Applications, and Future Trends

9th to 14th March, 2026

Organized by

Department of Electronics &
Telecommunication Engineering



National Rural Development and Research Society's

Suryodaya College of Engineering & Technology

(NAAC A+ Accredited Institute)

An Autonomous Institute Affiliated to RTM Nagpur
University, Nagpur

Approved by AICTE, New Delhi, Govt. of Maharashtra
Near Dighori Naka, Vihirgaon, Umrer Road,
Nagpur- 440034 (MH)

Website : <http://www.sctengp.com>

• About FDP

This Faculty Development Program empowers engineering faculty with advanced expertise in Wearable Technology, covering core principles from sensor fusion to AI-driven predictive analytics. Participants will explore real-world applications in healthcare and defence while addressing critical data security challenges. Bridging theory with practice, the curriculum spans the full prototyping lifecycle from utilizing low-power microcontrollers (ESP32) and communication protocols (BLE, LoRa) to circuit modelling with Wokwi. The program culminates in hands-on sessions where faculty build functional prototypes, such as smart health bands, and design 3D-printed enclosures, equipping them to lead future research and innovation in intelligent wearable systems.

• Objectives

The objective of this FDP is to empower engineering faculty to pioneer the convergence of Wearable Technology with Artificial Intelligence, Machine Learning, and Robotics. Through focused sessions, participants will explore innovations in AI-driven sensor fusion and next-generation human-machine interfaces. Hands-on training will enable mastery of integrating IoT data with predictive analytics, translating raw signals into actionable intelligence for healthcare, defence, and robotic control. By analysing real-world applications like from gesture-controlled robotics to remote monitoring, educators will address technical challenges like power optimization and data security. Ultimately, this program aims to nurture a research community equipped to navigate ethical implications and lead the transformation of wearables into intelligent, autonomous system.

• About SCET

“Suryodaya College of Engineering & Technology (SCET) is run by the National Rural Development & Research Society. The institute holds NAAC A+ accreditation, NBA accreditation for Diploma courses, and Autonomous status. SCET offers everything expected from a world-class institution, including a serene environment, lush green surroundings, state-of-the-art infrastructure, and visionary management with a Vision To be a center of excellence to promote academics, research, innovation and entrepreneurial skills to produce graduates to meet the Global challenges. SCET has also established CSED, which promotes industry relevant skill development programs. These initiatives act as catalysts for inclusive and sustainable development, employment generation, and industry collaboration, empowering youth for a brighter future.

• About Department

Established in 2010, the Electronics & Telecommunication Engineering Department offers a full-time B.Tech degree program with an intake of 60 students. The department is driven by a team of well-experienced faculty members, including two Ph.D. holders and others actively pursuing doctoral research, ensuring strong academic mentorship and research exposure. With state-of-the-art laboratories, a consistent record of excellent results, and a culture of discipline, department students have excelled not only in academics but also in various co-curricular and extracurricular activities under RTMNU, Nagpur.

• Vision

“To be a Centre of excellence to promote academics, research, innovation & entrepreneurial skills to produce graduates to meet the Global Challenge.”

• Mission

- ✓ To create an environment to strengthen research, innovation & entrepreneurship.
- ✓ To develop a unique culture that instills responsibility & accountability in the graduates of the Institute.
- ✓ To collaborate with the national & International academic research institutes & industry to impart and develop problem solving capabilities in the students.

• What You Will Learn?

- ✓ Wearable Technology Ecosystem & Design Fundamentals.
- ✓ Biomedical & Motion Sensors Integration
- ✓ Low-Power Embedded System Design using Arduino.
- ✓ Wireless Communication: BLE, NFC, Zigbee, LoRa & Wi-Fi.
- ✓ IoT Cloud Integration using Blynk, ThingsBoard, and Firebase.
- ✓ Circuit Simulation using Wokwi and Tinkercad.
- ✓ Real-Time Wearable Prototype Development.

• Hands-On Experience Includes

- ✓ Smart Health Band Development
- ✓ Posture Monitoring Wearable System
- ✓ Gesture Controlled Device Prototype
- ✓ Pulse Monitoring and Motion Tracking Lab.

• Resource Persons

Experts from reputed institute and industries will deliver invaluable lectures.

• Eligibility

- ✓ The faculty members of AICTE approved Institutions, Universities, research scholars;
- ✓ Participants form Government, Industry (Bureaucrats/Technicians/ Industry experts etc.) and professionals from R&D labs.

• Registration Fees

- ✓ Faculty Members Fees = Rs. 500/-
- ✓ In house Faculty Members = Rs. 200/-