

Registration

Participants need to visit AICTE ATAL Portal and register themselves by creating their account on <https://www.aicte-india.org/atal>.

You can log in to the portal and search for the FDP Program and enroll yourself.

Date of the FDP: 18th to 23rd December 2023

FDP Program would be conducted in offline mode in Department of Biomedical Engineering at Vidyalankar Institute of Technology, Mumbai.

Participants from other cities and state need to take care of their accommodation and travel plans accordingly.

Registration Fees: The FDP is sponsored by AICTE and free for all participants applying through AICTE-ATAL portal.

Certificate: Certificate will be provided to all participants who will have minimum attendance and assessment score as prescribed by AICTE-ATAL guidelines.

Advisory Committee

Shri Milind Tadvalkar, Director, VDT
Dr. Sunil Patekar, Principal, VIT
Prof. Varsha Bhosale, Vice Principal, VIT
Dr. Saurabh Mehta, CAO, VIT

FDP Coordinator

Dr. Gajanan Nagare
HOD, Biomedical Engineering
gajanan.nagare@vit.edu.in
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FDP Co-Coordinator

Prof. Geetha Narayanan
Associate Professor, Biomedical Engineering
geetha.narayanan@vit.edu.in
Contact No.: 9821854617

Core Committee Members

Prof. Suvarna Udgire
Prof. Arunkumar Ram

Registrations

Participants need to apply through ATAL Portal on or before 10th December 2023. The selected participants will be informed by mail on 12th December 2023. Max. participants allowed: 50.

Note

Participants will be selected on first-come first-served basis. The faculty members of the AICTE approved institutions, PhD, PG, participants from Government, Industry and staff of host institutions can participate.



**AICTE Sponsored
Faculty Development Program
On**

**“Wearable Devices and Point of Care
Technology”**

**18th December 2023 to 23rd December 2023
09:30 AM-05:30 PM**



**Organized by
Department of Biomedical Engineering
Vidyalankar Institute of Technology,
Mumbai**

**Sponsored by AICTE New Delhi
Under
AICTE Training and Learning (ATAL)
Academy**

About Vidyalankar Institute of Technology, Mumbai.

VIT is an 'A' grade engineering Degree College approved by the AICTE, DTE (Maharashtra), and affiliated to the University of Mumbai. Incepted in the year 1999, the Institute has steadily gained recognition and today attracts top talent. Since A.Y. 2022-23 the institute has received autonomous status.

VIT conducts B. Tech programs in Electronics and Computer Science, Electronics and Telecommunication Engineering, Computer Engineering, Information Technology Engineering and Biomedical Engineering. The Institute also conducts M. Tech programs in Electronics and Telecommunication Engineering, and Computer Engineering in addition to Master's in Management Studies. Institute also offers doctoral program (Ph.D.) in Computer Engineering.

Our vision is to provide an educational environment based on ethics, discipline and knowledge. As an acknowledgement of our excellence, our institute is accredited A+ grade by NAAC. In addition, all our B. Tech programs have received NBA accreditation status. The infrastructure at institute won the Design Share 2007 Award. We, at Vidyalankar Institute of Technology, aim to create industry-ready professionals, research scholars and proficient entrepreneurs by infusing the right blend of technological expertise, professional acumen, and social sensitivity in academics and sensitize them towards society.

About Department of Biomedical Engineering (NBA Accredited)

Department of Biomedical Engineering at Vidyalankar Institute of Technology Accredited is by National Board of Accreditation, New Delhi for the UG program in Biomedical Engineering.

The Department has a clear vision to become a Center of Excellence in the field of Biomedical engineering where learners are nurtured in a scholarly environment to evolve into competent professionals to benefit society.

The Department is rich in Human Resources with faculty having expertise in various domain. Emphasis is given on experiential learning and has modern lab facilities to involve students in more experimentation. The department has established Centre for Academic Excellence in collaboration with G.E. Healthcare. Also, we have an active MoU with Capgemini Engineering for students training, placements, and faculty enrichment. In past dept. has rendered cumulative efforts to enhance learning by conducting various workshops and FDPs.

Resource Persons

1. Dr. Rohit Srivastava, Professor, Dept. of Biosciences and Bioengineering, IIT Bombay.
2. Dr. Nitin Kale, Co-founder and CTO, Nanosniff, Mumbai.
3. Dr. Nagraj Huilgol, Chief - Radiation Oncology, Nanavati Max Super Speciality Hospital, Mumbai.
4. Dr. Saikat Das, Additional Professor, AIIMS Bhopal.
5. Dr. Guruprasad Kuppu Rao, Professor & Dean, School of Design, NMIMS deemed University, Mumbai.
6. Dr. Vijay Mathur, CTO, DiaSys India, Mumbai.
7. Dr. Rajul Patkar, Co-founder & CEO, Proximal Soilsens Technologies Pvt. Ltd. Mumbai.
8. Ms. Shreekala Koli, R&D Team Lead, Prisms India Pvt. Ltd. Mumbai.
9. Dr. K Nageswari, Sr. INUP Program Manager, IIT Bombay.
10. Dr. Nirmal Punjabi Adjunct Faculty, Koita Centre for Digital Health, Mumbai.

Preamble

COVID-19 has challenged the healthcare system in unprecedented manner. Medical Devices are playing important role in Healthcare Management. Under Make in India initiative, several Indian manufacturers have started Inhouse production of Indigenous Medical Equipment's.

About the FDP

- ❖ This FDP will provide participants an exposure to the Medical Device Development phases and new trends like Point of Care Technologies and Wearable Devices.
- ❖ This will be a platform for the participants to interact with experts from Industry and Research Organizations having focus in Medical Device Industry.
- ❖ Onsite visit to Centre of Excellence in Nanoelectronics, IIT Bombay, Mumbai.
- ❖ Practical sessions will be conducted by industry experts.

FDP Contents (Outline)

- ❖ Introduction to Medical Devices.
- ❖ Medical Device Development Phases.
- ❖ Wearable Devices for Healthcare Monitoring.
- ❖ Point of Care Technology.
- ❖ Nanodevices for Healthcare Applications.
- ❖ Research Methodology.
- ❖ Visit to Institute of National Importance- Centre of Excellence in Nanoelectronics, IIT Bombay



AICTE ATAL FDP on "Wearable Devices and Point of Care Technology"

18th Dec to 23rd Dec 2023

Offline (9.30am-5.30pm)

| 18 th Dec-2023 | 19 th Dec-2023 | 20 th Dec- 2023 | 21 st Dec-2023 | 22 nd Dec-2023 | 23 rd Dec-2023 |
|---|--|---|---|---|--|
| 9.00-9.30 Inauguration Dr. Jayesh Bellare Professor, Chemical Engineering, IIT Bombay | | | | | |
| 9:30 – 12:00 Session 1 Dr. Rohit Srivastava Professor, BSBE, IIT Bombay | 9:30 – 12:00 Session 3 Dr. Nagraj Huilgol Chief - Radiation Oncology, Nanavati Max Super Speciality Hospital, Mumbai | 9:30 – 12:00 Session 5 Dr. Guruprasad Kuppu Rao, Professor & Dean, School of Design, NMIMS, Mumbai | 9:30 – 12:00 Session 7 Dr. Rajul Patkar Co-founder and CEO, Proximal Soilsens Technologies Pvt. Ltd, Mumbai | 9:30 – 12:00 Session 9 Dr. K Nageswari Sr. INUP Program Manager, IIT Bombay | 9:30 – 12:00 Session 10 Dr. Nirmal Punjabi Adjunct Faculty, Koita Centre for Digital Health, IIT Bombay |
| 12:00 – 1:00 Article Discussion | 12:00 – 1:00 Article Discussion | 12:00 – 1:00 Article Discussion | 12:00 – 1:00 Article Discussion | 12.00 – 1.00 Sensitization towards INUP Program at IIT Bombay | 12:00 – 1:00 Reflection Journal |
| 1:00 – 2:00 Lunch | 1:00 – 2:00 Lunch | 1:00 – 2:00 Lunch | 1:00 – 2:00 Lunch | 1:00 – 2:00 Lunch | 1:00 – 2:00 Lunch |
| 2:00 – 4:30 Session 2 Dr. Nitin Kale Co-founder and CTO, Nanosniff, Mumbai. | 2:00 – 4:30 Session 4 Dr. Saikat Das Additional Professor, AIIMS Bhopal | 2:00 – 4:30 Session 6 Dr. Vijay Mathur CTO, DiaSys India, Mumbai | 2:00 – 4:30 Session 8 Ms. Shreekala Koli R&D Team Lead, Prisms India Pvt. Ltd, Mumbai | 2:00 – 5:30 Visit to Centre of Excellence in Nanoelectronics, IIT Bombay | 2:00 – 4:00 MCQ, Feedback & Interactions |
| 4:30 – 5:30 Hands on training on Microdevices | 4:30 – 5:30 Case Study & Discussions | 4:30 – 5:30 Design of Glucometer- POC Device | 4:30 – 5:30 Case Study-Wearable Devices | | 4:00 – 5:00 Valedictory Session |