



UNIVERSITY'S VISION

" To be a world class university through education , innovation and research for the service of humanity ".

DEPARTMENT'S VISION

“To promote innovation, invention and employability in Biotechnology through education and research for the service of humanity”

OUR DEPARTMENT

Department of Biotechnology was founded in 2004 with a vision to make an impact through research and technology based training. The department has teaching and research programs which encompass various basic and applied aspects of modern biotechnology.

The main objective of the Department is to provide academic training and conduct research in the interdisciplinary areas of biotechnology with particular emphasis on extending the knowledge generated from these studies towards the development of technologies of commercial significance.

Registration

The FDP is open to the faculty members of AICTE/UGC approved Engineering Institutes/Universities/R&D Labs/Industry Persons/PhD Scholars/ post graduates interested to know about the current status, scope and challenges about Healthcare and Medical Technology.

No registration fee will be collected from the participants

All interested participants should register on ATAL portal only.

<https://atalacademy.aicte-india.org/login>

FDP ID: 4011 Application No.: 1730717966

Thrust Area: Engineering and Management

Sub-Thrust Area: Healthcare & Med-Tech

For any queries, email at: atalfdpdtu2024@gmail.com

Organizing Committee



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Prof. Prateek Sharma

Vice-Chancellor, DTU Delhi



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Department of Biotechnology, DTU Delhi



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Associate Professor

Department of Biotechnology, DTU Delhi

AICTE TRAINING & LEARNING ACADEMY (ATAL)

Sponsored

6 Days Online

Faculty Development Programme

On

Healthcare and Med Tech: Innovations, Challenges and Future Directions

December 9th – 14th, 2024



Organised by

**Department of Biotechnology,
Delhi Technological University,**

(Formerly Delhi College Of Engineering)

Shahbad Daulatpur, Main Bawana Road

Delhi-110042

Programme Schedule

Objective:

The objective of this Faculty Development Program (FDP) is to equip faculty members with an in-depth comprehension of the most recent advancements in healthcare and medical technology. This program seeks to promote interdisciplinary collaboration between healthcare and engineering faculties by exploring advanced innovations, thereby encouraging research and the incorporation of emerging technologies into the curriculum. The FDP aims to improve educators' capacity to mentor students in the changing healthcare environment, ensuring their preparedness for future advancements in medical technology. The program will facilitate comprehensive discussions on pivotal subjects, including innovative medical devices, digital health, artificial intelligence (AI) in healthcare, and personalized medicine.

Aim:

- Augment comprehension of advanced healthcare technologies.
- Promote interdisciplinary collaboration between healthcare and engineering departments.
- Encourage research and innovation in med tech.
- Equip faculty with the necessary skills and knowledge to instruct and guide students in developing fields of healthcare technology.

Eligibility:

- Faculty members from Engineering colleges and Universities specially from Departments of Biotechnology, Biomedical Engineering, Electronics, Computer Science, and allied fields.
- Healthcare professionals interested in medical technology and innovation.
- Research Scholars and PG students (only AICTE approved Institutions)

Duration: 6 Days

Day 1

Inaugural session :6:00 PM- 6:30 PM

Session 1: 6:30 PM- 8:00 PM

Topic: Artificial Intelligence for molecular design

Name of the Expert: Prof. U Deva Priyakumar

Session 2: 8:00 PM- 9:30 PM

Topic: Informatics-based healthcare in the era of the fifth paradigm.

Name of the Expert: Prof. Sunil Kumar Raghava

Day 2

Session 3: 6:00 PM- 7:30 PM

Topic: Systems Biology and Multi-OMICs in Health Applications: Roles and Future Directions

Name of the Expert: Prof. Tulika Prakash

Session 4: 7:30 PM- 9:00 PM

Topic: Retinal drug discovery: opportunities and challenges

Name of the Expert: Dr. Mayur Choudhary

Day 3

Session 5: 6:00 PM- 7:30 PM

Topic : From Academia to Pharma: How to bridge the gap

Name of the Expert: Dr. Gaurav Goyal

Session 6: 7:30 PM- 9:00 PM

Topic: Functional Evaluation of Genetic Variants Using CRISPR Cas9-based Saturation Genome Editing

Name of the Expert: Dr. Shyam Sharan

Day 4

Session 7 : 6:00 PM- 7:30 PM

Topic: Process Scale Up

Name of the Expert: Dr. Sandeep Shiromani

Session 8: 7:30 PM- 9:00 PM

Topic: Immunogenomics and Immunometabolism in health and disease

Name of the Expert: Prof. Sunil Kumar Raghava

Day 5

Session 9: 6:00 PM- 7:30 PM

Topic: Biome-AI-dicine: A Future with Generative AI for Biomedicine.

Name of the Expert: Dr Sucheendra Kumar

Session 10: 7:30 PM- 9:00 PM

Topic: Unlocking the Potential of Circulating Cell-Free DNA (cfDNA) in Oncology: Emerging Trends and Applications in Early Cancer Detection and Precision Medicine"

Name of the Expert: Dr. Amit Chaurasia

Day 6

Session 11: 2:00 PM- 3:30 PM

Topic: Food traceability and transparency using block chain technology.

Name of the Expert: Dr Neelu Khurana

Session 12: 3:30 PM- 5:00 PM

Topic: Genomics for public health in India: opportunities and challenges

Name of the Expert: Dr. Sridhar Sivasubbu

Session 13: 5:00 PM- 7:30 PM

Topic: Advances in genomics to decipher the cross talk during plant pathogen interaction.

Name of the Expert: Prof. Jagreet Kaur

Online test & feedback: 6:30 PM- 7:30 PM

Valedictory session : 7:30 PM- 8:00 PM