







AICTE TRAINING AND LEARNING (ATAL)

Sponsored



6-Day National Level Online FDP on:

"Med-Tech challenges and opportunities under the 'Make in India' framework"

organised by



Approved by AICTE | Affiliated to MAKAUT

Sonarpur Station Road, Kolkata 700150

Email: fiem@teamfuture.in
Phone: +9133 2434 5640 | 41 | 15
Website: www.futureeducation.in/fiem

Start Date: November 10, 2025 End Date: November 15, 2025

Level : Basic Program Days : 6

Area: Engineering and Management

Sub Thrust Area : Health Care & Med-Tech - Artificial

Intelligence & Applications

Introduction:

The Faculty Development Program on "Med-Tech Challenges and Opportunities under the 'Make in India' Framework" aims to provide an in-depth understanding of the rapidly evolving medical technology sector in India. As the country aspires to strengthen its healthcare ecosystem and reduce import dependency, Med-Tech has emerged as a critical focus area under the Make in India initiative. While the industry faces challenges such as regulatory complexities, reliance on imports, and shortage of specialized talent, it also offers vast opportunities in innovation, R&D, manufacturing, and digital health integration. With the Indian Med-Tech market projected to reach \$50 billion by 2030, faculty members have a unique role in shaping research, talent development, and industry collaboration that can drive this transformation. This program will engage participants in exploring policy frameworks, technological advances, and practical approaches to prepare the next generation of professionals for leadership in India's Med-Tech journey.

Programme Objectives:

The Faculty Development Programme (FDP) intends to facilitate up-gradation of knowledge and skill to the faculty members from different institutes of India and intends to provide opportunities for induction training to teachers employed in disciplines like Science, Engineering and Technology allied to Health Care.

The Faculty Development Programme (FDP) also intends to cover areas such as National Education Policy (NEP) 2020 for its implementation, Indian values and ethos. Life skills such as time and stress management, Research Methodology for the development of new concepts, methods and techniques, theory in the related areas and skills development and up gradation of pedagogical approaches for educational technology, motivation, communication skills, management and other relevant issues to keep pace with the changing scenario in Technical Education.



The scheme is designed to enhance the teaching and other skills of the faculty and to make them aware about modern teaching tools and methodologies. It provides an opportunity to acquire knowledge about current technological developments in relevant fields. It will not only promote the professional practices relevant to technical education but also motivates the faculty to achieve competitive teaching and learning environment, thus channelizing development with respect to academic qualifications and experience.

The aim of this FDP is to motivate the academic and intellectual environment in the institution by providing opportunities for conducting research in the health sector using Engineering tools.

This FDP will also describe the best way how to transform to the next level of medical technology. The purpose of this FDP is to confirm or refute whether companies are ready for revolution in the health care industry.

Programme Outcome:

The proposed faculty development programme aims toenhance the skills and capabilities of faculty members and researchers inacademic processes at the University level.

It seeks to institutionalize good academic practices through stakeholders' involvement for continuousimprovement. The program includes discussions, case studies and hands-on activities to improve the educational outcome. Experts from academia as well as industry will share their knowledge with the participants

Programme Schedule:

Day 1		50				
(10/11/2025)	6:0	0PM to 6:30PM	6:30PM to 8	:00PM		8:00PM to 9:30PM
Topic	Ina	ugural Session	Advancement in Brain In Machine Learning's Fran		Diabetes and Technology	
Name of the Expert			Prof. (Dr.) Amlan Chakra	barti	DR. Debas	is Giri
Designation & Organization	0. -		Professor, Director A.K. Choudhuri School of Information Technology, University of Calcutta		Medical D	
Day 2			Calcutta Sugarline Healthcare Pvt. Ltd.			Healthcare Pvt. Ltd.
(11/11/2025)	6:0	0PM to 7:30PM	7:30PM to 9:00PM			
Topic	Al and Diabetes Manag	gement	AI-Enabled Techniques for Alzheimer's Disease			
Name of the Expert	DR. Shambo Samrat Sa	majdar	Prof. (Dr.) Joyita Dutta			
Designation &	Consultant Physician,		Professor, Department of Biomedical Engineering, University of Massachusetts Amherst			
Organization	Diabetes and Allergy-Asthma Therapeutics Specialty Clinic, Kolkata					
Day 3 (12/11/2025)	6:0	0PM to 7:30PM	7:30PM to 9:00PM			
Topic	Brain Computer Interfa Rehabilitation	ace for Neuro-motor	Artificial Intelligence in Medicine and Cardiology			
Name of the Expert	Prof. (Dr.) Amit Konar		Dr. Debopriyo Mondal			
Designation & Organization	Professor, Electronics and Tele-communication Engineering department, Jadavpur University		Consultant interventional cardiologist, Manipal Hospital, Kolkata			
Day 4 (13/11/2025)	6:0	0PM to 7:30PM	7:30PM to 9:00PM			
Topic	Generative AI for Build	ling Interactive Medical System	Ethical Concerns with Increasing Application of AI in Medical Technology			
Name of the Expert	Dr. Soumya Sen		Dr. Chaitali Basu Mukherji			
Designation & Organization	Assistant Professor, University of Calcutta		Ethical Process Designer, Ex m-Junctions Services Limited			
Day 5	6:0	0PM to 7:30PM	7:30PM to 9:00PM			
(14/11/2025)	6.0	UPINI TO 7.3UPINI				
Topic	Deep Learning in Opht	halmology-A Clinical Perspective	From Mechanics to Mechano-therapeutics: Role of Inter Disciplinarity in Bio- Medical Research			
Name of the Expert	DR. Mervyn Thomas		Dr. Satanik Mukherjee			
Designation & Organization	Clinical Associate Prof of Leicester	essor, Ophthalmology, University	Post-Doc Fellow, Washington University St. Louis, USA			
Day6	2:00PM to 3:30PM	3:30PM to 5:00PM	5:00PM to 6:30PM	6:30PM to 7:	30PM	7:30PM to 8:00PM
(15/11/2025) Topic	Gen AI for Personalized Medicine: Creating Adaptive Treatment Plans using Patient Data	AI Based Interventions for Cancer	From Emotions to Action: Affective Computing Applications in Next- Generation Indian Med-			
Name of the Expert:	Mr.Rajmohan De Sarkar	Dr. Saptarsi Goswami	Prof. (Dr.) Pradipta Kr. Banerjee	Online test & feedback		Valedictory Session
Designation & Organization	Director-Technology Services, Ardent Computech Pvt. Ltd.	Assistant Professor & Head, Computer Science, Bangabasi Morning College, University of Calcutta	Professor & HOD, AI & ML, Future Institute of Technology			

Who should attend:

This course will be of value to the faculty members of AICTE approved institutions, research scholars, PG Scholars, participants from Government, MoE/AICTE/UGC, bureaucrats/ technicians/participants from industry etc., and students of host institutions, who are interested in pursuing research in developing Machine Learning, Data Science, Artificial Intelligence & Applications, Bio-Medical Research, and Professional Ethics in Health Care and Medical Technology sector.

Participation Fee: No Registration fee for Participation and Certification.

Registration:



Please scan for registration



How to Register



Advisory Committee:

Dr. Aloke Kr. Ghosh

Executive Director, Future Education

Dr. Anirban Chakrabarty

Principal, Future Institute of Engineering and Management

Dr. Sajal Kumar Giri

Registrar, Future Institute of Engineering and Management

Contact details:



Dr. Rupa Bhattacharyya (Coordinator) Associate Professor. Basic Science & Humanities, FIEM, Kolkata Email id: rupa.bhattacharyya@ teamfuture.in Contact no. +919830040545



Dr. Biswajit Roy
(Co-Coordinator)
Associate Professor.
CSE (Data Science)
FIEM, Kolkata
Email id: biswajit.roy@
teamfuture.in
Contact no. +918777748587