

About the FDP

Digital healthcare and medical innovations have taken the forefront since the COVID-19 pandemic hit the world. The pandemic has accelerated the need for incorporating digital technology and new models in healthcare to meet the various challenges. Robotic technologies have been utilized in many ways to lighten the workload and provide noncontact delivery of patient care. Medical Chatbots are becoming more and more popular and widespread. Innovations are essential to address the need for quick testing and diagnosis of patients, coping with the limited supply of ventilators and cost-effective imaging modality to diagnose acute respiratory distress syndrome in patients with COVID-19.

The objectives of the **FDP** on “**Advancements of Digital Health and Medical Innovations during Pandemic**” are in tune with the need for utilization of the latest technology in many ways in the healthcare field. Expert lectures will be delivered by industry experts and faculty members.

Eligibility and Selection

The FDP is interdisciplinary and is open to faculty members from AICTE approved Engineering Colleges across India.

- Course registration is free for all participants.
- Participants will be selected based on first come first serve basis and will be intimated by mail.
- An assessment test will be conducted on the last day of the program for all the participants.
- A digital certificate by the ATAL academy will be issued to the participants who have an attendance of minimum 80% and score more than 60% in the test.

Registration details

- No Registration Fee
- All the participants are requested to register using the following link

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

Speakers:

Dr. Uma Nambiar

Co-Founder and Chairperson of DHIA
(Digital Health India Association)

Dr Soumya Lipsa Rath

Department of Biotechnology,
National Institute of Technology (NITW), Warangal

Prof Prabhu Rajagopal

Professor, Department Of Mechanical Engineering , IIT
Madras

Sunny Matson

Director & SW COE Leader for Maternal Infant
Care(MIC) ,GE Healthcare

Saurav Daga

Siemens Healthcare Pvt. Ltd.

Dr Mahesh Panicker

Assistant Professor
Department of Electrical Engineering, IIT Palakkad

Subhashini Lakshmi Narayanan

AI Lead, Accenture

Prof. Parimal Kar

Assistant Professor, Department of Biosciences &
Biomedical Engineering, IIT Indore.

Jibin Jose

Sahrdaya College of Engg and Technology

Mr Subhash N N & Mr Sarath S. Nair

Engineer, SCTIMST, Trivandrum

Sunil Paul

Director Christ Center for Innovation and Open
Learning, Christ College of Engineering.



AICTE Training and Learning (ATAL)

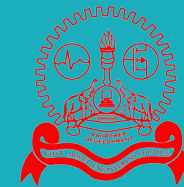
Sponsored

Faculty Development Program

(FDP Online)

Advancements of Digital Health and Medical Innovations during Pandemic

(6th to 10th December, 2021)



Govt. Model
Engineering
College, Kochi

Organized by

Department of Biomedical
Engineering

Model Engineering College
Thrikkakara, Kochi, Kerala.

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<https://www.mec.ac.in/>

Govt.Model Engineering College

For the past 28 years Govt Model Engineering College (MEC) has empowered its students to pave the way of excellence and innovations in the field of Engineering & Technology. Affiliated to APJ Abdul Kalam Technological University (KTU) and was the first Engineering College to be established by the Govt of Kerala under the aegis of Institute of Human Resource Development Resource Development (IHRD). MEC was featured 37 among 100 Engineering Colleges in India by outlook Magazine and 21 among top 25 Govt. Engineering Colleges in India by DataQuest.

Department of Biomedical Engineering

The Department of Biomedical Engineering is one of the pioneer departments started when Govt. Model Engineering College was established in the year 1989 and the first in Kerala to offer an Engineering course in Electronics and Biomedical Engineering. Biomedical Engineering is the application of engineering principles and design concepts to bridge the gap between Engineering and Medicine. It aims at utilizing Engineering skills to devise solutions in the health care arena. In a span of four years, the programme imparts knowledge in fundamental as well as diverse areas that include Electronic Circuits, Medical Physics, Biomedical Instrumentation, Modelling of Physiological Systems, Biomaterials, Biomechanics, Biomedical Signal and Image Processing, Neural networks, VLSI Design and Digital system Design. The Department was accredited thrice by NBA in the year 2003,2008 and 2019.

Course Coordinators

Dr. Minimol B
Associate Professor & HOD,
Department of Biomedical Engineering,
Govt. Model Engineering College,
Thrikkakara Kochi, Kerala.

Ms. Vijayalakshmi. K
Assistant Professor
Department of Biomedical Engineering,
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Thrikkakara Kochi, Kerala

CONTACT US:

For further information if any required,
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Major topics of discussion

- Digital Disruption and the new trends:
The future of healthcare
- Building Mobile Robots
- Computer Simulations to expediate our understanding of COVID-19
- Emerging Breathing Assist Systems
- Medical AI Chatbots
- Automated lung ultrasound for Covid19 and beyond
- Technical aspects and functionalities of "Block track"
- Advances in digital technology in critical care devices
- Computer-Aided Drug Discovery against COVID-19
- AI & IoT: Transforming healthcare operations
- Health Design Thinking: An Innovative Approach in Public Health to Defining Problems and Finding Solutions
- Covid-19 fast track projects: Lab to market transitions

**AICTE Sponsored Online Faculty Development Program on FDP on Advancement of Digital Health and Medical Innovations during Pandemic
(December 6th to 10th 2021)**

Department of Biomedical Engineering, Govt. Model Engineering College Kochi

| Day | 9:30-11:00 am | | 11:30 am-1:00 pm | | 2:00 -3:30 pm |
|----------|---|------------------|--|--------------------|---|
| 06-12-21 | Inaugural session Keynote address: "Digital Disruption and the new trends: The future of healthcare" Dr. Uma Nambiar Co-Founder and Chairperson of DHIA (Digital Health India Association) Executive Director Gimcare Hospital, Kannur, Kerala | TEA BREAK | "Emerging Breathing Assist Systems" Mr Sarath S. Nair Engineer E SCTIMST, Trivandrum | LUNCH BREAK | "Building Mobile Robots" Sunil Paul Director Christ Center for Innovation and Open Learning Christ College of Engineering |
| 07-12-21 | "Computer Simulations to expediate our understanding of COVID-19" Dr Soumya Lipsa Rath Department of Biotechnology, National Institute of Technology (NITW), Warangal | | "Medical AI Chatbots" Subhashini Lakshmi Narayanan AI Lead Accenture | | "Automated lung ultrasound for Covid19 and beyond" Dr Mahesh Panicker Assistant Professor Department of Electrical Engineering IIT Palakkad |
| 08-12-21 | "Technical aspects and functionalities of Block track " Prof Prabhu Rajagopal Professor Department Of Mechanical Engineering , IIT Madras | | "Covid-19 fast track projects: Lab to market transitions" Mr Subhash N N Engineer C SCTIMST, Trivandrum | | "Health Design Thinking: An Innovative Approach in Public Health to Defining Problems and Finding Solutions" Jibin Jose Dept. Biomedical Engg. Sahrdaya College of Engg and technology, Thrissur |
| 09-12-21 | "Advances in digital technology in critical care devices" Sunny Matson Director & SW COE Leader for Maternal Infant Care(MIC) GE Healthcare | | "Computer-Aided Drug Discovery against COVID-19" Prof. Parimal Kar Assistant Professor Department of Biosciences & Biomedical Engineering, IIT Indore | | "Volumetric Analysis of MRI images from machine to clinician" Rajesh Kumar Purushottam Co-founder & CEO at In-Med Prognostics (HealthTech Start-up in the AI & Deep Learning space for Medical Imaging) |
| 10-12-21 | "AI & IoT : Transforming Healthcare Operations" Saurav Daga Siemens Healthcare Pvt. Ltd. | | "Overcome Stress from Yoga" Amala Radhesh NuYoga Wellness | | Feedback Quiz Valedictory function |

