

Faculty Development Program

(AICTE ATAL)

On

Significance of Biomedical Engineering in Covid-19

One week online

(20 Sep 2021 to 24 Sep 2021)

Sponsored By



AICTE Training and Learning
(ATAL)

Organized By



Department of Medical Electronics
Government Polytechnic Miraj

Maji Sainik Vasahat, MIDC Miraj 416410
(Maharashtra)

<http://gpmiraj.ac.in/>

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Organizing Committee

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Institute

Government Polytechnic, Miraj
Dist.: Sangli was established in 1990. This Institute is presently running Diploma courses in Mechanical Engineering, Civil Engineering, Computer Engineering, Medical Electronics and Polymer Technology. All these courses are recognized by AICTE, New Delhi and affiliated to MSBTE, Mumbai Maharashtra State.

In its constant endeavor of instilling quality technical education, Government Polytechnic, Miraj is engaged in various curricular and co-curricular activities.

Miraj city is well known for medical facilities and more than 450 reputed hospitals are nearby Miraj city as well as about 12 medical related industries are found nearby Government Polytechnic, Miraj.

Medical Electronics Department

Department was established in year 1995. It is a unique course in the Pune region of Maharashtra state. This course combines medical and engineering concepts to support hospitals and the healthcare industry. The medical devices manufacturing sector plays an important

role in improving medical treatment. Presently handy and small medical devices manufacturing industry growing day by day. Hence to give more skill based knowledge, as well as six month internship for final year student's either in hospital or industry has been included in newly developed curriculum of Diploma in Medical Electronics Engineering.

About Program

The world today is facing a disastrous situation in form of pandemic corona. Globally, it has taken huge number of lives and more and more number of people are getting infected day by day. At present only way to defend ourselves from corona is to sanitize properly and maintain social distance. This faculty development program useful to teachers to get fundamental knowledge of medical equipments used in covid-19.

Program Outcomes

- Elementary knowledge of covid-19 and laboratory diagnoses.
- Understand the use of various biomedical equipments.
- Understand how to design and develop covid-19 useful equipments.

Course Content

- Vital organs in human body and most affected organs in covid-19.
- Biosensors and Biomedical Electrodes.
- Optical Sensors in Biomedical
- Medical Imaging Equipment (CT scan & X-ray)

- Physiotherapy Equipment's
- Design and Developments of Covid-19 useful Equipment's
- Advanced Biomedical- Telemedicine.
- Covid-19 Introduction and Laboratory Diagnosis
- Ventilator and Drug Delivery System
- Robotics in Biomedical Engineering

Registration Details

Only online mode of registration, limited to 80 participants based on scrutiny and first come first serve basis.

Eligible Criteria

The faculty members any discipline of the AICTE approved institutions, polytechnic teachers, participants from Government, Industry (Bureaucrats/Technicians/Participants from Industry etc.) are only eligible to apply.

Registration Fees: - Free of Cost

Registration Link:

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

Test & Certification Details

- Online test will conducted at the end of the program.
- The certificates shall be issued to those participants who are registered on ATAL portal www.aicte-india.org/atal and attend the program with minimum 80%

attendance and score minimum 60% marks in the test.

Resource Persons

- Dr. Dnyaneshwar S.Karanjkar (BATU) Dr. Babasaheb Ambedkar Technological University, Lonere.
- Dr. Nikhildeep Gupta NIT Nagpur
- Dr Priyanka N. Rathi Govt. Medical College Miraj
- Dr Nayan M. Kakoty, Tezpur University, Tezpur
- Dr Asmita S. Jadhav Govt. Medical College Miraj
- Mr. Rajkumar M. Tiwatne Principal. SAK of Health Investigations, Pune.
- Mr. Tushar V. Mohite Vidya Prasarak Mandal Institute, Thane.
- Dr. Manu Vashishtha Dr. B.R. Ambedkar Institute of Technology, Port Blair, Andaman and Nicobar Islands.



Address for Correspondence

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