

One week online  
**Faculty Development Program**  
**AICTE Training and Learning (ATAL)**  
On  
**Significance of Biomedical Engineering in Covid-19**

20<sup>th</sup> Sep – 24<sup>th</sup> Sep 2021

Sponsored By



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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Ms. S. S. Rathi            Ms. N. S. Kamble  
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**About Institute**

Government Polytechnic, Miraj, Maharashtra was established in 1990. The institute runs courses Civil Engg., Computer Engg., Mechanical Engg., 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 engages various curricular and co-curricular activities.

Miraj is a well-known for medical hub and provides facilities with more than 450 reputed hospitals. About 12 medical equipment manufacturing industries located nearby Government Polytechnic, Miraj.

**Medical Electronics Department**

Medical Electronics department was established in year 1995. It is unique programme in Pune region of Maharashtra state. Considering the growth of medical devices manufacturing sector in improving health, medical treatment with handy and small medical devices, the need of skilled manpower, the curricula of the programme has been developed.

The programme combines medical and engineering concepts to support hospitals and healthcare industries.

### About Program:

Today, the world is facing a disastrous situation in form of pandemic Covid-19. Globally, it has taken huge number of lives and more and more number of people are getting infected day by day. At present the only way to defend ourselves from Covid-19 is to sanitize and maintain social distance. The programme gives insight to researchers, teachers, bureaucrats, technicians, and participant from industry in the field 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 and Electrical Safety.
- Optical Sensors in Biomedical.
- Medical Imaging Equipment (CT scan & X-ray).
- Physiotherapy Equipment.

- Design and Development of Covid-19 useful Equipment.
- Biomedical telemedicine.
- Ventilator and Drug Delivery System.
- Robotics in Biomedical Engineering.

### Registration Details:

Only online mode of registration will be accepted, limited to 200 participants based on scrutiny and first come first serve basis.

### Eligible Criteria:

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

### Registration Fees: NIL

### Registration Link:

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

### Eligibility for Certificate:

- Online test will be 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](http://www.aicte-india.org/atal) and attended the program with minimum 80% attendance and score minimum 60% marks in the test.

### Resource Persons:

- Dr. Dnyaneshwar S.Karanjkar  
Dr. Babasaheb Ambedkar Technological University, Lonere.
- Dr. Nikhildeep Gupta,  
NIT Nagpur
- Dr. Rupali N. Gorgile,  
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's 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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