



**Five days workshop on
Arduino & IOT
For Biomedical Applications**

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Resource persons

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JERUSALEM

COLLEGE OF ENGINEERING
An AUTONOMOUS Institution
NBA and NAAC Accredited Institution
Approved by AICTE & Affiliated to Anna University

**Five days workshop on Arduino
& IOT for Biomedical
Applications**

20.03.2021 to 24.03.2021

**Organized
by
Department of
Biomedical Engineering**



**Velachery Main Road, Narayanapuram, Pallikaranai, Chennai-100
Teli - 044-2246 1404 , 044-2246 0131**

About the College

Jerusalem College of Engineering was established in the year 1995 under the umbrella of Jerusalem Education Trust to impart quality engineering education. Over the period of 24 years, it has made a mark for itself and has got established as an institution which offers excellent engineering education. It is one of the very rare Institutes which is situated in close proximity to premier educational institutes and also the IT Hub of Chennai. The Institute offers 7 UG and 6 PG courses in Engineering, Technology and Management. The Institute has very good infrastructural facilities and laboratories with state-of-the-art equipments. The Institute has been consistently getting University Ranks at both UG and PG levels. The Institute is accredited by NAAC and NBA. A good number of funded projects from premier organizations are also being executed in the college.

About the Department

Biomedical Engineering Program was introduced at Jerusalem College of Engineering in the year 2005, with a sanctioned intake of 60 students. The faculty, staff and students consistently work towards the betterment of this department. The Biomedical Engineering Association was inaugurated on September 12, 2008 by Prof..RamasubbaReddy, Professor, IIT-Madras. The department provides a challenging environment to the students and enhances their potentials in order to transform them into competent professionals. The department also encourages the students to excel in extra and co-curricular activities, besides academics. The students and faculty share a great rapport which proves to be the underlying factor behind the academic excellence of the students.

About the Programme

This workshop focuses on bringing to the fore the key research challenges, systems, devices and methods to enable the health care assistance to the patients using Arduino. The workshop will have an active participation from students and coordinators. The workshop on “Arduino for Biomedical Applications” for III Year BME students, which is very much necessary for their Mini-Projects. The dates for Workshop are 20.03.2021 to 24.03.2021 (Virtual Sessions: 20.03.2021 to 21.03.2021 and Hands on Session: (22.03.2021 to 24.03.2021). This workshop offers the opportunity to receive knowledge in Arduino to improve the health care assistance to the participants. The new ideas and information from the experts will be shared, which enable the participants to understand the recent advancements in the field. The participants will understand basic concepts of Arduino in clinical research. This programme paves the way to carry out their research in the above fields which can lead to the development and services of the people.

Topics of the Programme

- Introduction to Arduino
- Basic operations using Arduino
- Sensor interfacing using Arduino
- IOT based Hands on Training
- Hands on Training using Arduino for Robotics
- Tasks and Assignments