

REGISTRATION FORM

Name:.....

Designation:.....

College:.....

Contact no:.....

Email-id:.....

Registration fee: Rs.500/-

Registration and sponsorship payments available through SBI collect and by Cheque/DD made in favour of "Mahatma Gandhi Mission's College of Engineering and Technology" payable at Navi-Mumbai.

For further queries and confirming the registration contact:

Jyothi Warriar, Convener, NWABDR-2018 M: 9920239479
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Parvathy Krishna, Treasurer, NWABDR-2018 M: 9920711965
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Note: 1. Outstation participants have to make their own arrangements for accommodation.

2. Registration on first come first serve basis.

3. Last Date of Registration is 6th April 2018.

Chief Patron

Shri. Kamal K. Kadam Chairman, Mahatma Gandhi Mission & Former Education Minister, Govt. of Maharashtra

Patrons

Dr. Sudhir N. Kadam Vice Chancellor, MGM Institute of Health Sciences (MGMIHS)

Dr. Nitin N. Kadam Managing Trustee, MGM Trust
Dr. K. G. Narayankhedkar Director General, MGM Group of Engineering Colleges

Dr. S. K. Narayankhedkar Principal, MGM's College of Engineering & Technology (MGM CET)

Advisory Committee

Dr. Sandhya Agarwal HOD, BME & BT Department
Dr. G.D. Jindal Professor, BME, MGM CET
Mr. U.R. Bagal Asst. Professor, BME, MGM CET
Dr. Kshipra Deshmukh Asst. Professor, BT, MGM CET
Dr. Niranjana Khambete Secretary, BMESI & Manager, Clinical Engineering, Deenanath Mangeshkar Hospital & Research Centre
G. Muralidhar Bairoy Jt. Secretary, BMESI & Asso. Prof., BME, MIT, Manipal

Resource Persons

Dr. Amiya R. Bhowmick Asst. Professor, Mathematics Dept, ICT, Mumbai.
Ms. Jyoti Jetha Research scholar, BME, MGM CET

Organizing Committee

Jyothi Warriar Asst. Prof., BME, MGM CET & Convener, NWABDR
Sandeep Singh Asst. Prof., BT, MGM CET & Co-Convener, NWABDR
Nishant Patil Asst. Prof., BME, MGM CET & Secretary, NWABDR
Priyanka Jadhwar Asst. Prof., BME, MGM CET & Jt. Secretary, NWABDR
Parvathy Krishna Asst. Prof., BT, MGM CET
Preeti Athavale Treasurer, NWABDR
Shruti Bajpai Asst. Prof., BME, MGM CET
Member, NWABDR
Shweta Choudhari Asst. Prof., BT, MGM CET
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Ashwini Tidke Asst. Prof., BME, MGM CET
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Shashikant Rathod Asst. Prof., BME, MGM CET
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Arbacheena Bora Asst. Prof., BME, MGM CET
Member, NWABDR



**NWABDR
2018**



**MGM CET
Department of Bio-Medical
Engineering (BME) & Biotechnology (BT)
in association with
Bio-Medical Engineering Society of
India (BMESI)
Organizes**

**NATIONAL WORKSHOP ON
ANALYSIS OF BIOLOGICAL
DATA USING R-STUDIO**

08TH APRIL 2018 & 15TH APRIL 2018

NWABDR-2018

**Mahatma Gandhi Mission's College
of Engineering and Technology,
Department of Bio-Medical Engineering
& Biotechnology
Plot no 1, Sector 18, Kamothe,
Navi Mumbai – 410209.**

About the College and the Department

MGM's College of Engineering & Technology was established in 1986 by Hon. Shri Kamal Kishore Kadam (M.Tech., IIT-Mumbai, Ex-Minister of Education, Maharashtra) with a futuristic vision to provide qualitative education by applying innovative and dynamic techniques. This ISO 9001-2000 certified college is affiliated to University of Mumbai and approved by AICTE, New Delhi.

Bio-Medical Engineering department has been running Undergraduate courses since 1986. It has been often getting RANK in University of Mumbai. Bio-Medical Engineering department has been running Postgraduate courses and PhD program since 2000 and 2016 respectively. Sixty PG projects in 24 research area have led to good number of publications.

A total of 1395 students have graduated in past 25 years. Getting placement in Campus interview in reputed companies like PHILIPS, IGATE, GE-Healthcare, Infosys and Roche Diagnostics. We are proud of our alumni who have been placed at the helm of prestigious firms like GE Health care, Siemens, Philips, Medtronics, Boston scientific, BTL India Pvt Ltd, AUM Meditec, Honeywell, Capgemini, Cognizant Technology, Citiustech Technology, Roche Diagnostics, AMT Dental Pvt. Ltd. etc.

Department is proud to have a healthy combination of experienced teachers and enthusiastic youngsters alike. Cardio-vascular (diagnosis/monitoring), Body Composition, Tele Medicine, Blood Glucose Measurement, Nuclear Medicine, MEMS, Nano-engineered Bio-sensors, Bio-Medical Transducers, Bio-signal Processing, Body Composition, Electrical Impedance Tomography, Wavelet Processing, Hearing Aids, Respiration Analysis, Neuro-muscular (diagnosis/monitoring/prosthetics), Magnetic Stimulation, Spirometry, Planter Pressure Measurement, HRV, Bio-electric Signals, Signal Acquisition & Processing, VLSI, Tele-Medicine using Bluetooth & ZigBee, μ P and μ C interfacing, Image Processing, Stress Cardiograph, Embedded Systems, Transducers and Bio-sensors, Signal Acquisition & Processing, Medical Imaging, Nuclear Medicine are few of the topics to mention as expertise of our faculty. Our faculty has many technologies to their credit which are commercially available in domestic and international market.

The Department of Biotechnology was established in 2007. The department is one of its kinds imparting quality education and promoting goal-orientated interdisciplinary research by interfacing modern biology with upcoming technologies. The program is designed to train students to deal with any technological applications that use biological systems. Graduate qualification in biotechnology can lead to placements in research laboratories run by government and corporate sector. Students may focus their research work on animals, bacteria, humans, plants, viruses, Bioprocessing & Fermentation Engineering etc.. The department consists of faculty members who possess doctorate degree from eminent institutes and have a common goal to encourage students to fulfill their potential and to excel in their work. We provide hands on experience and opportunity to students to explore them in their field

About BMESI

Biomedical Engineering society of India (BMESI) is a non-profit professional All India Organization having headquarters at Department of Biomedical Engineering, Manipal Institute of Technology, Manipal. It organizes symposia, conferences, lectures, study programs etc. covering broad areas of biomedical engineering. It establishes contacts with other learned and professional organizations, and publishes newsletters, official journals and magazines. Expert advisory panels are set and collaboration is made with pool of eminent researchers and scholars in the field of biomedical engineering throughout the country. It continuously strives to improve the standards, terminology, equipment, methods and safety practices for state of the art health care to the people.

About Workshop

The significance of Biological data and its effective analysis is unavoidable to have a good piece of research and to make a fruitful decision. From students to scholars, individual researchers to research institutes throughout the world come across this data analysis part to carry out their research. Statistics and statistical analysis plays a crucial role in research and analysing biological data. The aim of this workshop is to provide hands on training in understanding the concepts in data science and statistical analysis using R programming which is one of the most widely used open source package in the field of Data Science across the world. This workshop will help the

participants in applying proper research methodology and improving their analysis by applying various statistical techniques using R programming.

The Scope of workshop is to cover theoretical discussion and practical exposure on the following aspects of statistical analysis using R: Introduction to R & R-Studio; Data types in R; Importing and handling data in R; Working with functions in R; Exploratory Data Analysis using R (Data Visualization); Descriptive Statistics (summary Measures) using R; Simple and Multiple Linear Regression Analysis; Resampling methods in Biology (Model selection); Discussion of some Case studies from Biology.

At the end of the workshop, participants should be able to : Get familiar with R programming language; Understand statistical analysis using R programming; Explore how to analyse research biological data using R programming; Explore how to represent biological data using basic graphs in R.

Hands-On Committee

Shashikant Rathod	Asst. Prof., BME, MGM CET
Shweta Choudhari	Asst. Prof., BT, MGM CET
Suryapal Prajapati	Lab Technician
Nazim Momin	Lab Attendant
Bhaskar V Gaikwad	Lab Attendant

Student Committee

Jismi Easow	BE, BME, MGM CET
Akhildev Devdas	BE, BME, MGM CET
Prajakta Mhatre	TE, BME, MGM CET
Siddhant Ojha	TE, BT, MGM CET
Shrikant Patil	TE, BT, MGM CET
Aneesh Moza	TE, BT, MGM CET