

## Who can attend it

Faculty members, Research scholars, Technical Assistants, students (both UG and PG) of engineering colleges of streams Electronics and Instrumentation Engg., Electronics and Communication Engg., Chemical Engineering, Biomedical Engineering, Electrical Engineering, Electrical Electronics Engineering and Bio-technology, M.Sc Chemistry

## Registration Fees

Participants are requested to pay registration fees of Rs.600 by cash only.

Registration Fees must be paid within 16th July 2015.

Outside candidate (on request) may submit registration fees on 20th July, 2015 at workshop registration desk.

Participant's seats are limited and selection will be done on first come first serve basis.

## Contact Person

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## Organizing Committee

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Mr. Pitambar Mondal, TA, Chemistry



## Narula Institute of Technology

### Workshop on

### ***“Advancement in Bio-chemical and Bio-medical Engineering”***

*Under TEQIP phase-II*

**Dated: 20<sup>th</sup> July- 25<sup>th</sup> July 2015**



**Organized by  
Dept. of Chemistry  
&  
Dept. of Electronics and  
Instrumentation Engg.**

**Narula Institute of Technology  
Agarpara, Kolkata-109.**

## About Departments

### Department of Chemistry

The Department of Chemistry, Narula Institute of Technology, is one of oldest Departments since the inception of the Institute. Formerly being a part of Basic Science & Humanities, the Department emerged out as a single entity in the year 2010. The Department comprises of highly qualified and experienced faculty members who have significantly contributed to the research activities of the Institution. The faculty members have several publications in International journals and have attended and presented research articles in National and International Conferences held in India and abroad. The Department aims at relating Chemistry with core engineering branches in order to focus on the latest technology and growing prospects related to the subject.

### Department of Electronics and Instrumentation Engg.

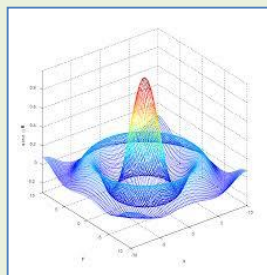
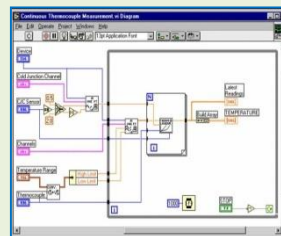
Dept. of Electronics and Instrumentation Engineering for under graduate students was established in 2010 and two successful batches have been passed out in 2014 and 2015. The department has seven sophisticated laboratories and dedicated students performing research based projects during their semesters. The department has young faculty members as well as experienced faculty members. The department has one UGC graded research based project. Total publications of the department are more than one hundred including faculty and students. The department is always aimed to organize events based on industrial needs, latest technologies for the benefit of the students.

## Workshop Coverage

- Biomedical Signal processing
- Biomedical Instrumentation
- Bioinformatics and computational biology
- Computational evolutionary biology
- Muscle/neuromuscular/musculoskeletal mechanics and engineering
- Biomedical/Bio chemical polymer materials
- Biomedical/Bio chemical composite materials
- Biomedical inorganic non-metallic materials
- Bio chemical Engineering/Bioprocess Engineering

### Hands on practice sessions on application of Labview and MATLAB software

#### Labview Programming



#### MATLAB Programming

## Course Objective

The course aims to introduce the world of bio chemistry and introduction to instrumental chemical analysis techniques. The course aims to understand the canonical structure of biomedical instrumentation systems. It will also help to learn the qualitative functions of the four primary system components (sensors, actuators, electronics interface, and computation unit).

### Resource Persons

- **Prof.(Dr.)D.K.Bhattacharyya**

Sir Rash behari Ghosh Professor, Department of Chemical Technology, Calcutta University.

- **Prof.(Dr.)D.K.Bhattacharya**

Ex. Head of the Department ,Pure Mathematics ,Calcutta Univ.,Emeritus Professor AICTE Jadavpur University, Emeritus Professor UGC Rabindra Bharti University

- **Prof.(Dr.)D.N.Tibarewala**

Ex. Director and Professor, School of Bio-Science and Engg.,Jadavpur University

- **Prof.(Dr.)Samir K Pal**

Professor, Department of Chemical, Biological & Macromolecular Sciences,S.N. Bose National Centre for Basic Sciences, Kolkata

- **Prof.(Dr.)Kunal Pal**

Professor,Department of Biotechnology & Medical Engineering,National Institute of Technology,Rourkela