



Bansilal Ramnath Agarwal Charitable Trust's  
**Vishwakarma Institute of Technology, Pune**  
(An Autonomous Institute Affiliated to  
Savitribai Phule Pune University)



### Three Days State Level Workshop on “Biomedical Devices, Signal and Image Processing: Challenges and Opportunities”

23<sup>th</sup> - 25<sup>th</sup> February 2017

**ORGANIZED BY**

**Instrumentation Engineering Department**

**Funded by**

**Savitribai Phule Pune University**



#### ABOUT THE INSTITUTE

Bansilal Ramnath Agarwal Charitable Trust's Vishwakarma Institute of Technology, Pune, a highly commendable private institute occupies a place of pride amongst the premier technical institutes of the western region of India. Established in the year 1983, financed and run by Bansilal Ramnath Agarwal Charitable Trust, it is an autonomous institute affiliated to Savitribai Phule Pune University. The Institute runs nine under graduate, eight post-graduate & six Ph.D. programs which are affiliated to the university. The Institution has been awarded ISO 9001-2008 certification by BSI, India and granted autonomous status since academic year 2008-09. The Institute is accredited ('A' Grade) by NAAC from July 2013 for the next five years. Within three decades, the institute has marched towards the pinnacle of glory through its remarkable achievements and laurels in the field of engineering education.

#### ABOUT THE INSTRUMENTATION DEPARTMENT

Vishwakarma Institute of Technology started undergraduate course in Instrumentation Engineering in 1992 and postgraduate course in 2004. The Doctoral Program in Instrumentation Engineering has been introduced from the academic year 2008. The department has well qualified and dedicated faculty and is known for its high academic standard, well-maintained discipline and complete infrastructure facilities.

#### ABOUT WORKSHOP

Today's world is said to be run by the intelligent human brains. So major concern naturally is of human being and their comfort. Because of this, Biomedical and Healthcare sector becomes a very important upcoming area in this era. Many research opportunities are available in different sectors of this field which are inclined to develop systems to provide comfort to the human beings. Research is carried out across the globe for the design and development of biomedical sensor and it's Signal Processing. This workshop aims to provide information about different research opportunities in biomedical field. This workshop presents the interaction of Doctors and Experts in biomedical field to the participants.

#### OBJECTIVES

- To create awareness about biomedical field among researchers
- To get acquainted about problems in medical field
- To get insight about opportunities available in the biomedical device development
- To get knowledge about recent developments and innovations in the biomedical field
- IPR awareness about medical field.

#### TOPICS

##### Scope/area to be covered:

- Sensor or Biomedical device development for physiological parameters such as Cardiovascular, Respiratory, Brain etc
- Endoscopy and Operation Theatre equipments
- Biomedical signal processing like ECG, Respiration, EEG etc
- Biomedical Image processing such as MRI, Ultrasound etc.
- Clinical research
- Nano biomedicine
- Role of computers in Biomedical field
- IPR issues in biomedical sector
- Funding opportunities and research proposal writing methods in biomedical sector
- Biomedical application using LABVIEW



## EXPERT SPEAKERS

- Dr. Kishore M. Paknikar, Director, Nano-Bioscience, Agharkar Research Institute, Pune
- Dr. Virendra C. Bhavsar, Honorary Research Professor, (former Professor and Dean) Faculty of Computer Science, University of New Brunswick, Canada
- Sanjeev Kubbakadi, Proprietor, ITIE Knowledge Solutions, Bangalore
- Dr. Niranjana Khambete, Manager, Clinical Engineering, Deenanath Mangeshkar Hospital and Research Centre, Pune
- Dr. Rahul Kodgule, Head, Academic Research, Director, Advanced Pulmonary Function Testing Program, Chest Research Foundation, Pune
- Mr. Mukund Joshi Director at Surgdent Medicare Pvt Ltd, Pune
- Dr. Ajay Deshmukh, Principal, Bajaj Institute of Technology, Wardha
- Dr. Makarand Deo, Asst Professor, Norfolk State University, USA.
- Dr. Siddharth Jabade, Professor and Dean, International Relation and Alumni, IPR agent.
- Dr. Manasi Patwardhan, Dean R&D and Industry Relations, VIT
- Mr. Rahul Chavanke and Harish Phutane, ARK Solutions, Pune (LabView Biomedical Applications)

### REGISTRATION FEES

- |                            |                  |
|----------------------------|------------------|
| • Student(UG/PG)           | <b>Rs. 500</b>   |
| • Faculty/Research scholar | <b>Rs. 1,000</b> |
| • Industry Personnel       | <b>Rs. 1,000</b> |

### REGISTRATION INFORMATION:

#### Demand Draft:

Participants can register by sending the registration form along with demand draft (appropriate amount) in favour of “**Vishwakarma Institute of Technology, Pune**” payable at Pune, on or before 22<sup>nd</sup> February 2017. Cash/Cheque payment is also accepted.

#### NOTE

- 1) Registration is compulsory for all participants.
- 2) Registration fee includes breakfast, tea and lunch.
- 3) Accommodation will be made available on request.
- 4) No TA/DA will be provided.

## CHIEF PATRONS

**Shri Rajkumarji B. Agarwal**

Chairman, BRAC, Pune

**Shri Bajrangdas B. Lohiya**

Vice Chairman, VI, Pune

**Shri Bharat R. Agarwal**

Managing Trustee, BRAC, Pune

**Prof. (Dr.) Rajesh M. Jalnekar**

Director, VIT, Pune

## CONVENER

**Prof. (Dr.) Shilpa Y. Sondkar**

Head, Instrumentation Engineering Department

## CO-ORDINATOR

**Prof. Manisha Rajesh Mhetre**

Assistant Professor, Instrumentation Engineering Department

Mobile: +91-9970377074,

Email: [manisha.mhetre@vit.edu](mailto:manisha.mhetre@vit.edu)

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## ORGANIZING COMMITTEE

**Prof. (Dr.) J. V. Kulkarni**

**Prof. P. M. Kanjalkar**

**Prof. (Dr.) Dilip K. Maghade**

**Prof. S. S. Patankar**

**Prof. Archana K. Chaudhari**

**Prof. Jitendra A. Gaikwad**

**Prof. Kapil G. Mudada**

**Prof. Vijay R. Bhanuse**

**Prof. Rajendra Patel**

**Prof. Anil B. Kadu**

**Prof. Sujit M. Deokar**

## REGISTRATION FORM

Three Days State Level Workshop on

**“Biomedical Devices, Signal and Image Processing:  
Challenges and Opportunities”**

23<sup>th</sup> – 25<sup>th</sup> February 2017

Name: .....

Gender: .....

Category: (Tick anyone)

Student  Research Scholar/Faculty  Industry

Institute Name: .....

Correspondence Address: .....

Phone: .....

Mobile: .....

E-mail: .....

D. Draft No: .....

Amount: .....

Date: .....

Bank: .....

Educational Qualifications: .....

Signature:

Place:

Date: