

## AICTE Sponsored

Two week  
Faculty Development Program  
on

### “Biomedical Signal Processing and Analysis for Cognitive Neuroscience Study”

From 1st to 12th January, 2018

#### Department of Electronics and Communication Engineering

**Poojya Doddappa Appa**

**College of Engineering, Kalaburagi**

- Name.....
- Date of Birth.....Sex: M/F.....
- Designation.....
- Institution.....
- Address for Communication.....  
.....  
.....
- Pin code.....
- Phone (std code)..... Mobile.....
- Email.....
- Highest Qualification.....
- Specilisation.....
- Years of experience.....
- Teaching.....
- Industry.....
- Area of work/interest.....
- Whether accommodation is needed ? Yes/No.....

The information furnished above is true & correct to the best of my knowledge. I agree to abide by the rules and the regulations governing the program. If selected, I shall attend the program for the entire duration. I also undertake the responsibility to inform the coordinator sufficiently in advance, in case I am unable to attend the program.

Place :

Date :

Signature of the Applicant

## Organizing Committee

Chief Patron

**Shri Basavaraj S Bhimalli**  
President HKE Society, Kalaburagi

Patrons

**Dr. Suryakant G. Patil**  
Vice President, HKE Society, Kalaburagi

**Sri R.S. Hosagouda**  
Secretary, HKE Society, Kalaburagi

**Sri Shivanand Mankar**  
Jt. Secretary, HKE Society, Kalaburagi

#### Governing Council Members HKE Society, Kalaburagi

**Sri G.D. Anakal**

**Sri B.G. Patil**

**Dr. Basavaraj G. Patil**

**Sri M. Veerannagouda**

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**Dr. A.V. Deshmukh**

**Dr. Ashok T. Patil**

**Sri Nitin B. Jawali**

**Sri Arunkumar M. Patil**

**Dr. S.N. Patil**

**Sri Udaykumar S. Chincholi**

**Dr. S.B. Kamareddy**

Chief Convener

**Dr S.S. Awanti**

Principal, PDA College of Engineering, Kalaburagi

Convener

**Dr Siddrama R. Patil**

Professor and Head, Department of E&CE

Coordinator

**Dr. Nagendra H.**

Associate Professor, Department of E&CE

Address for Communication

**Dr. Nagendra H.**

Associate Professor, Department of E & CE

PDA College of Engineering

Aiwan-E-Shahi Area - Kalaburagi - 585 102

Karnataka - India

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**Dr Siddarama R. Patil**

Co ordinator

**Dr Nagendra H.**

Co - Coordinator

**Prof. Arunkumar N. Kanthi**

Organized by

**Department of Electronics and  
Communication Engineering**

**Poojya Doddappa Appa  
College of Engineering**

Aiwan-E-Shahi Area, KALABURAGI - 585 102  
Karnataka, India



## ABOUT THE INSTITUTE

Poojya Doddappa Appa College of Engineering, Kalburgi is one of the premier institute of Karnataka state. It is the first institution established by H.K.E. Society in 1958, by Late Shri Mahadevappa Rampure, a great visionary and educationist. The college is an aided institution of Government of Karnataka, started with three core programs in Civil, Mechanical and Electrical with an intake of 120.

Presently, the Institute offers 11 UG programs, 10 PG programs and 13 Research Centers in various departments. All the programs are affiliated to Visveswaraya Technical University, Belagavi. At present total intake at UG is 980, PG is 193 and about 100 research scholars engaged with various departments. The institute is one among the six colleges in the State of Karnataka to have autonomous status for both UG and PG programs.

## DEPARTMENT OF E & CE

The vision of the department is to provide quality education through excellence in teaching and research in the contemporary areas of Electronics and Communication engineering to meet the local and global socio economic challenges.

The HKE Society's PDA College of Engineering was first to introduce the course in Electronics and Communication Engineering in Karnataka State way back in the year 1967. The department is having well equipped laboratories and highly qualified and experienced faculty and staff.

The department strives to produce excellent professionals through comprehensive educational programmes, promoting students with managerial skills to become competitive with industries and adaptive to ever changing technologies. The department provides active research in the field of communication, mobile and wireless communication, coding, speech signal processing, biomedical signal and image processing, cognitive neuroscience, computer vision, and power electronics.

The department offers PG course in Communication Systems and recognized as a research center under Visveswaraya Technological University, Belagavi.

The alumni of the department have attained high positions both at national & international levels and are placed in top positions of many companies around the globe and are bringing laurels to their department.

## ABOUT THE PROGRAM

The programs aims at giving a succinct introduction to Biomedical signals, processing and image processing algorithm techniques with balance coverage of cognitive Neuro science, applications and standards. It would render a wide coverage of Biomedical signal and image processing, analysis and clinical interpretation of physiological parameters. Supports an essential foundation for a

understanding of the Biomedical signal classification, processing and cognitive neuroscience concepts. Widespread applications in the field of cognitive neuroscience underlines the scope of biomedical processing to address the clinical and cognitive enhancement techniques.

## OBJECTIVES OF THE PROGRAM

The short term training aims at:

- ◆ To introduce with new techniques, approaches, algorithms and methods in the area of Biomedical signal processing and cognitive neuro science with analytical foundation and framework.
- ◆ Providing the in depth knowledge of signal processing to all for implementation of algorithms.
- ◆ Appraising the audience the higher cognitive functions from the prospective of brain functions.
- ◆ Un-leashing the hidden research potential in the domains of cognitive neuro science to the aspiring researchers.
- ◆ To introduce various physiological parameters and their clinical significance.

## EXPECTED OUTCOME

After completion of the course the participant will have in depth knowledge and hands-on experience in biomedical signals and their clinical significance, biomedical signal and image processing. The participants will also acquire the knowledge of cognitive enhancement using both conventional and non-conventional methods. The course will also provide the knowledge of data acquisition and analysis using data acquisition unit. The course will help to inculcate research oriented and innovative attitude among the participants. The course will provide omni-directional knowledge and information about the biomedical signals, their clinical interpretation, cognitive enhancement techniques.

## RESOURCE PERSONS

Invited experts from higher learning institutes such as IISc/IITs/NITs. Faculty experts from PDACE Kalaburagi. Experts from Industries/Corporate houses and Research Organizations, working in the field of multi-dimensional Biomedical Signal and Image Processing, Cognitive Neuroscience, Deep Learning/Intelligence.

## WHO SHOULD ATTEND

This programme is open to the faculty members of ECE/EEE/IT/BME/CSE/ISE departments of AICTE approved Engineering colleges, Polytechnic colleges and Institutions. The working professionals from Industries/Corporate Houses/R&D organizations and those who are associated with Biomedical Signal and Image Processing and Cognitive Neuroscience area, eligible to apply.

## SPONSORSHIP CERTIFICATE:

Certified that Mr/Ms/Dr.....is an employee of our institute and is hereby sponsored for the FDP on "**Biomedical Signal Processing and Analysis for Cognitive Neuroscience Study**" at Poojya Doddappa Appa College of Engineering, Kalaburagi during the period from **January 1-12, 2018**. He/She will be permitted to attend the course, if selected. It is also certified that our institute is an approved Institute of AICTE.

Place : \_\_\_\_\_ Name & Signature: \_\_\_\_\_  
Date: \_\_\_\_\_ (Head of the Institute)  
(Seal of the Institute/Organization)

## REGISTRATION FEES

- No registration fee for Teachers from AICTE approved institution/College
- Participation from Industries/Corporate/R&D/organization: 20,000/- (which includes registration, learning material and working lunch only). The registration fees shall be paid through crossed demand draft drawn in favour of "Principal, PDA College of Engineering, kalaburagi", payable at Kalaburagi.

## IMPORTANT INFORMATION

The selection will be based on first come first serve basis.

**Last Date for Receiving Applications: 16-12-2017**  
**Intimation of Selection on or Before: 22-12-2017**

## HOW TO APPLY

The overleaf application form or xerox of it can be used or may be downloaded from our college website <http://www.pda.hke.edu.in>. The scanned application form (duly filled and signed) can be mailed to [aictefdppda@gmail.com](mailto:aictefdppda@gmail.com) on or before 16-12-2017. The original should be submitted during the course registration

## ACCOMMODATION

Lodging and boarding of all selected out station participants from AICTE approved institutes will be provided at PDA College of Engineering hostels. Lodging and boarding for the industrial /R & D organization participant will be arranged in the nearby hotels on actual chargeable basis on prior request.

## TRAVEL

Outstation participants from AICTE approved institute will be given TA as per AICTE/Institute norms. (Maximum of 3AC on production of actual ticket)

