

TEQIP Sponsored
Short Term Training Program (STTP)
on
“Biosensors and Signal Processing”
22nd – 23rd December, 2016
REGISTRATION FORM

Name:

Designation:

Organization:

Qualification:

Correspondence Address:

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Tel (O) (R)

(M)

E-Mail:

Registration Fee is paid in the form of
Cash/DD/Online payment

Amount

DD/NEFT/RTGS No. Date

Name of the Bank.....

Date: Place:

Signature

Note: Demand draft should be made in favour of
 Director, NIT Raipur, payable at Raipur. Bank details for
 online transfer are attached below.

Chief Patron

Dr. S. Tiwari, Director, NIT Raipur

Patron

Dr. S. Sanyal, Dean (R&C), NIT Raipur

Convener

Prof. H. Bikrol

Department of Computer Applications

Prof. S. Ghosh

Department of Electrical Engineering

Coordinators

Dr. Narendra D Londhe

Dr. Mitul Kumar Ahirwal

Address for Correspondence

Dr. Narendra D. Londhe

Assistant Professor

Department of Electrical Engineering, NIT Raipur (CG)

Email: nlondhe.ele@nitrr.ac.in

Contact No.: 09039-898-860

Dr. Mitul Kumar Ahirwal

Assistant Professor

Department of Computer Applications, NIT Raipur (CG)

Email: mkahirwal.mca@nitrr.ac.in

Contact No.: 09981-216-927

IMPORTANT DATES

Last date of receipt of application: 10-December-2016. Notification
 about selection: By email.

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Short Term Training Program (STTP)
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“Biosensors and Signal Processing”
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Organized by

Department of Electrical Engineering and Department of
 Computer Applications



National Institute of Technology
 Raipur-492 010 (Chhattisgarh)

About the Institute:

National Institute of Technology Raipur (Formerly Government Engineering College Raipur), situated in the capital of a newly incepted state of Chhattisgarh, has proven to be "avant-grade" in the field of science and technology over past few decades in this region. With sweet memory of foundation ceremony by our president Hon'ble Dr. Rajendra Prasad on 14th September 1956. the institute started with two departments namely Metallurgical and Mining Engineering. Later the inauguration of the Institute building was done by our Prime Minister Hon'ble Pt. Jawahar Lal Nehru on 14th March 1963. From 1st December 2005, the institute has become the National Institute of Technology. It is well connected with Mumbai, Delhi, Hyderabad, Kolkata, Bhopal, Ahmedabad, Bangalore, Chennai and Chandigarh by regular flights and is on the main Howrah-Mumbai railway route. The institute is 5 km from the Raipur railways station and 18 km from airport on NH-6, the Great Eastern Road.

About Department:

The department of Electrical Engineering came in existence in 1958. The department offers undergraduate as well as postgraduate programs.

The department of Computer Applications was established in 1988. The department offers postgraduate course, Master of Computer Applications.

These are leading departments of NIT Raipur, running several sponsored projects from the government organizations. These departments provide an outstanding research environment and offers academic program leading to the award of Ph.D. degree. Various multidisciplinary research programs are running in these departments. The Academy is envisioned to become a central hub of research and training activity.

Objective:

The Objective of this short term training programme is to provide an exposure to both basics and recent advances in biomedical signal acquisition and processing to the students, teaching and research community associated with the Departments of Electrical Engg, Electronics Engg, Computer Science, IT, MCA, Bio Medical and Bio Technology etc.

Theme/Scope:

Biomedical Signal processing plays a significant role to develop biomedical and health-care technologies. Biomedical signals like ECG and EEG have great impact in detection and analysis of heart and brain deceases. At present day, automation and computation are required to enhance these biomedical technologies. Various types of sensors and computer methods have been adapted to record, automate and enhance such medical technologies. This course will provide a fundamental base on recent biomedical signals acquisition technologies their processing to develop practical and real time working System and Computer Aided Diagnosis Systems.

Expert lectures will be delivered by sensor expert with emphasize on the technology and recent development in signal acquisition and processing. Experts are from Washington State University, USA IIT Kharagpur and DRDO). Apart from this, expert faculty members of NIT Raipur Dr. Narendra D. Londhe & Dr. Mitul Kumar Ahirwal may deliver the lectures and share their research work.

Course contents:

- Wearable physiological monitoring system
- Dry Electrodes for EEG Acquisition and Processing
- Fetal-Electrocardiogram (FECG)
- Source Separation Algorithms
- Analog-front-end for Biomedical Signal Processing
- Systems-On-Chip (SoC)
- Sensor for different biometrics

Targeted Participants:

UG/PG/PhD Students, Research Scholars, Academicians, and Industry Professionals.

Registration Fee Details: Participants Amount (in Rs)

Participants	Reg. Fee
UG/ PG/ PhD Students	500.00
Faculty	750.00
Industry Delegates/ Others	2000.00

Applications in prescribed format with registration fee in the form of Demand Draft drawn in favour of "**Director, NIT Raipur**" must reach the coordinator on or before 10-Dec-2016. (Candidates may send scanned copy of the registration form along with scanned of DD/NEFT/RTGS transaction. Hard copy may then be submitted on the day of registration). Registration fee includes registration kit, tea and lunch during the programme. Fee is non-refundable. Since the number of seats is limited to 30, the selection will be made on first cum first serve basis and intimation will be sent to the candidates by email as per the schedule. Certificates will be issued to the participants only after attending the complete course. No TA/DA will be paid to the participants.

Guest Speakers

Dr. Subhanshu Gupta from Washington State University



Dr. Subhanshu Gupta received the B.E. degree from the National Institute of Technology, Trichy, India, in 2002, and the M.S. and Ph.D. degrees from the University of Washington, Seattle, WA, USA, in 2006 and 2010, respectively. From 2011 to 2014, he was a Staff Design Engineer in RFIC/Mixed Signal group at Maxlinear Inc., Irvine. At Maxlinear, Subhanshu worked on a broadband transceivers for cable/satellite systems. From 2015, he has been an Assistant Professor of Electrical Engineering at **Washington State University** where he is supervising over Systems-on-Chip Lab.

Dr. Gupta has been the recipient of the Analog Devices Outstanding Student Designer Award in 2008 and IEEE RFIC Symposium Best Student Paper Award in 2011. His current research interests include broadband reconfigurable architectures for wireless backhaul and millimeter-wave applications, signal and image processing paradigms for heterogeneous networks and sensors, flexible electronic circuits for smart goods and ultra-thin substrate IC design for low-power sensors.

Dr. Anirban Mukherjee from Indian Institute of Technology Kharagpur



Dr. Anirban Mukherjee completed his undergraduate studies in Electrical Engineering from Jadavpur University, Kolkata in 1998. He did his post-graduate and doctoral studies in the area of Image Processing at Indian Institute of Technology (IIT) Kharagpur. He accepted the offer of Tata Consultancy Services and worked in the Embedded Systems Group during 2004-2005. As a member of Sensors and Signal Processing group, currently, he is in the faculty of the Department of Electrical Engineering, **Indian Institute of Technology Kharagpur** and is the co-ordinator of Signal Processing and Machine Learning (SPML) research group.

Dr. P. S. Pandian from Defence Research and Development Organization (DRDO)



Dr. P S Pandian completed his B.E in Electronics and Communication Engineering from University of Madras, M.E in Medical Electronics from Anna University and PhD in Biomedical Engineering from IIT, Madras.

He has 20+ years experience as Scientist in **Defence Research and Development Organization (DRDO)**. He works in the areas of Biomedical Instrumentation, Wearable Physiological Monitoring Systems, Wireless Body Area Networks, Telemedicine, Nanotechnology, MEMS, Biomedical Signal Processing, Image Processing, Optical Imaging and Microelectronics.

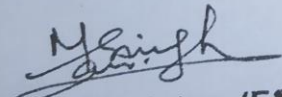
He about 50+ papers published in various reputed journals at both national and international levels and has 2 patents to his credit. He is a Fellow at IETE and Member of Biomedical Engineering Society of India and Institute of Smart Materials, Structures and Systems. He is a reviewer for various reputed national and international journals. He has received the DRDO Young Scientist Award in the Year 2004.

Bank Account Details of NIT Raipur for online fee payment

	राष्ट्रीय प्रौद्योगिकी संस्थान रायपुर NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR (Institute of National Importance) G.E. Road, Raipur – 492010 (C.G.)	Phone: (0771) 22 54 200 Fax: (0771) 22 54 600 Email: director.nitr@rediffmail.com Website: www.nitr.ac.in
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Bank Details of NIT Raipur is as under:

Bank Name:	State Bank of India
Bank Branch:	G.C.E.T. Branch
Bank Address:	G.E. Road, Raipur. (C.G.) Pin - 492010.
City:	Raipur (C.G.)
Country:	India
Account No:	30054181310
Account Name:	Director NIT Raipur
Bank Branch Code:	02852
IFSC Code:	SBIN0002852
Swift Code:	SBININBB646
Phone No. of Branch:	0771- 4040791/795


Dy. Registrar (F&A)
NIT Raipur (C.G.)

 23/03/15