One Week Short Term Course

On

"Biomedical Signal and Image Processing: Contemporary Methods and Applications"

(Under TEQIP-III)

July 29-Aug 02, 2019

Course Coordinators:

Dr. Omkar Singh
Dr Shahid Mehraj Shah

Organized By

Department of Electronics and Communication Engineering, National Institute of Technology, Srinagar - 190006, J&K

Website: www.nitsri.ac.in

Objectives of Course

Biomedical signal and Image processing has become a necessary tool to enhance useful information hidden in clinical data/ medical images. The objective of this short term course is to provide theoretical and practical knowledge of the fundamental and advanced techniques applied to analysis of medical signals and images. Currently, there is a need to advance the development of computer based diagnostic and monitoring systems which offer fully automated analysis. These diagnostic systems can help the physician in making well founded decisions and reduce the subjectivity of manual measurements and decision making process. During this course, the scientists and academicians from reputed institutes will discuss the contemporary methods for Biomedical Signal and image Processing

About the Institute

National Institute of Technology Srinagar, formerly Regional Engineering College, Srinagar, is a government engineering and research institution, located in Srinagar, Jammu and Kashmir, India. It is one among the 31 National Institutes of Technology (NITs) and as such falls under the aegis of the Ministry of Human Resource Development (MHRD), Govt. of India. The institute took birth way back in 1960 as one of several Regional Engineering Colleges established as part of the 2nd Five year plan (1956–61) by the Govt. of India. It is governed by the National Institutes of Technology Act, 2007 which has declared it as an Institute of National Importance.

About the Department of Electronics & Communication Engineering

The Department of Electronics and Communication Engineering was established in 1984 and offers B.Tech Degree in Electronics and Communication Engineering, M.Tech Degree in (1) Microelectronics (ME) and (2) Information and Communication Technology (ICT). The Department also offers the Doctoral programmes in the field of Biometrics, Communication, Microelectronics, Signal/Image Processing, Machine learning, network security and VLSI Design. The department has established state-of-art laboratories with sophisticated equipments for undergraduate, post graduate and PhD research work. The department is equipped with contemporary laboratory equipments required for the excellent growth of students. The department has state of art labs including VLSI Lab, Optical fiber communication Lab, Image Processing Lab, Information and Network Security Lab, Biometric Lab and machine learning Lab.

Registration Fee & Details

[Includes: Kit, Daily Refreshments & Lunch**]**

Student / Research Scholar**	Rs. 1500/-
Faculty* / Scientist	Rs. 3000/-
Industry Personnel	Rs. 4000/-

** Registration fees 50 % for internal students.

*: Registration is free for Internal Faculty (from NIT Srinagar). Maximum of 20% candidates (08 participants) can be registered as internal faculty participants, on first come first serve (FCFS) basis.

Payments to be made in the following account:

A/C Name:	**TEQIP-III**
A/C No:	**0391040100011025**
Bank Name:	**J&K Bank**
Bank Branch:	**REC Srinagar**
IFSC Code:	**JAKA0RECSGR (0 is 'zero')**

1. *Last date of Registration is **27th July 2019**.*
2. *The number of seats is limited to **40** (FCFS Basis)*
3. ***Accommodation** can be arranged in nearby hotels (on payment basis) at standard rates.*

The complete registration form should reach by speed post or email latest by July, 27, 2019 at the following address:

Corresponding Address:

Course Coordinators

Dr. Omkar Singh

Assistant Professor, Department of Electronics and Communication Engineering, National Institute of Technology, Srinagar, J&K-190006

E-mail: omkar.parihar@nitsri.ac.in

Contact: 9419279382

Dr. Shahid Mehraj Shah

Assistant Professor, Department of Electronics and Communication Engineering, National Institute of Technology, Srinagar, J&K-190006

Email: shahidshah@nitsri.net

Contact: 7889519497

Tentative Topics to be covered

Biomedical Signal Acquisition and analysis
Compressive Sensing
Wavelet Analysis
Adaptive data analysis techniques
Speech intelligibility
Medical Imaging
Adaptive Filtering
Heart Rate Variability Analysis
Signal/Image processing using Matlab and Python

Chief Patron

Prof. Rakesh Sehgal, Director NIT Srinagar

Patrons

Dr. Farida Khurshid, HOD, ECE
&
Prof. M. F. Wani, TEQIP-III Coordinator

Conveners

Prof. A H Mir, Dean Administration
&
Dr. Farida Khurshid, HOD, ECE

Organizing Committee

Prof G M Rather
Prof Najeeb-U-Din
Dr G R Begh
Dr Gausia Qazi
Er A A Mir
Er A G Mir
Dr S A Ahsan
Dr Amandeep Singh

National Institute of Technology Srinagar J&K-190006

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Registration Form

Name: ……..……
Designation: …….....
Department: ……..…....
Organization: ……..……
Address: ……..
……..…….....
Tel/Fax: ……..……
Email: ……..……
Accommodation: Required / Not required
Payment Reference No……
Bank Name: ……
Amount in Rs……
Dated: …….....
Signature with Date: ……

Sponsorship Certificate

The applicant is hereby sponsored and will be permitted to attend the short term course **"Biomedical signal and image processing: contemporary methods and applications"**, if selected.

Date: ……..

Signature and Seal of Sponsoring authority