

About NIT Silchar

National Institute of Technology (NIT) Silchar, an Institute of National Importance under the NIT Act, was established in 1967 as Regional Engineering College (REC) Silchar in Assam. In the year 2002, it was upgraded to the status of an NIT from REC. NIT Silchar is situated on the banks of river Barak and on a sprawling campus spread over 600 acres of land on the outskirts of Silchar. NIT Silchar is a fully residential Institution. At present it offers six undergraduate courses in Civil, Electrical, Mechanical, Electronics & Communication, Computer Science & Engineering and Electronics & Instrumentation Engineering. All the departments of the Institute also offer M. Tech. and Ph.D. programmes.

About the Department

The department offers core courses in Control Systems, Power Systems, Electrical Machines, Instrumentation, Switchgear and Industrial Protection, Microprocessors and Microcontrollers etc. The state-of-the-art Lab facility exists in the department like Machine Lab, Microprocessor & Embedded System Lab, Computational Lab and Advance Control Lab, etc. to name a few. Various research and development activities are taken up by the department to put the students on busy schedules enabling them to blend to the modern industrial requirements. The department regularly organizes seminars, workshops at national level.

About the Course

The workshop on "Fractional Order Systems and Their Applications (FOSTA – 2019)" is scheduled to be held during 16th – 20th August 2019. Experienced experts from IITs, NITs, BARC and reputed universities are invited to deliver talks on relevant topics. This course will open up several new paths of research and applications, in the direction of fractional order systems, for PG, Ph.D scholars and industry personals in the area of science and engineering.

Eligibility

This program is open to faculty members, industrial personnel and students including research scholars, PG and UG students of recognized technical institutions.

Course Objectives

Fractional calculus refers to derivatives and integrals of arbitrary real order. A fractional-order system is one which involves derivatives of real order. Modelling of many physical systems often lead to fractional order-systems. Integer-order modelling is its special case. The concept of fractional calculus and fractional-order system is not new. But because of its mathematical difficulty, development in this field is not good. This workshop will give a platform to interact with people working in the area of fractional-order systems. This course is designed to give a basic concept of fractional derivatives and their applications. The objectives of this course are to give a flavour of fractional-order system, their applications and control.

Invited Speakers

1. MR. SHANTANU DAS, BARC, India
2. PROF. AMITAVA GUPTA, Jadavpur University
3. DR. SUBHOJIT GHOSH, NIT Raipur
4. DR. SHYAM KAMAL, IIT-BHU Varanasi
5. DR. AVISHEK ADHIKARY, IIT Bhubaneswar

Highlights

- Viewing fractional order systems mathematically and scientifically.
- Fractional order control- an overview with applications.
- Fractional order modelling and parameter estimation of engineering systems.
- Physical significance of fractional operators.
- Realization and application of four quadrant factors.

FOSTA-2019

One Week Short Term Course on Fractional Order Systems and Their Applications

(A Programme Under TEQIP-III)

16th -20th August, 2019

Coordinators

Dr. N. Adhikary	Dr. A. Pati
Dr. A. Kumar	Dr. R.K. Biswas
Prof. B. K. Roy	Dr. P. Roy



Organized By:

**Electrical Engineering Department
National Institute of Technology, Silchar**

Committee

Chief-Patron Prof. Sivaji Bandopadhyay
Director, NIT Silchar

Patrons Prof. N. B. Dev Choudhury
HOD, EED, NIT Silchar
Dr. Sukumar Pati
Coordinator, TEQIP-III

Advisory Committee

Prof. S. Baisya Dean (Academic) Prof. M. A. Ahmed Dean (R&C)
Prof. N. Sinha Faculty (EE)

Organizing Committee

Prof. S. Choudhury Dr. J. P. Mishra
Dr. A. K. Goswami Dr. T. Malakar
Dr. L. C. Saikia Dr. P. K. Tiwari
Dr. D. C. Das Dr. N. Soren
Dr. R. Dey Dr. P. Roy
Dr. C. Bhattacharjee Dr. S. Ray
Dr. P. Kayal Dr. D. K Raju
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Electrical Engineering Department, NIT Silchar

Registration

All participants have to pay registration fees before submitting the application either
(i) Via DD in favour of Director NIT Silchar, Payable at State Bank of India, NIT Silchar branch or
(ii) Online transfer to the account of the Director, NITSilchar (A/C No.: 10521277057, Branch: NIT Silchar, IFSC: SBIN0007061).
Brochure and registration form can be downloaded from the institute website: <http://www.nits.ac.in>.

How to Register

Scanned copy of the signed registration form along with payment details to be sent to the email id fosta16820@gmail.com on or before 12th August, 2019. However, the original money receipt has to be submitted at the time of registration along with the registration form.

Fees Detail

Industry Persons:	Rs. 5000/-
External Faculty members:	Rs. 3000/-
External Students:	Rs. 1000/-
Internal Faculty members:	Rs. 1000/-
Internal Students (PG & PhD) :	Rs. 500/-
Internal Students (UG):	Rs. 500/-

Accommodation and Travel

Limited paid accommodation may be provided to the external participants on first come first serve basis in institute guest house or hostels subject to availability. For more details about guest house please visit NIT Silchar website. No TA and DA will be paid to the participants.

How to reach NIT Silchar

Silchar is well connected by air, rail & road. It is situated at a road distance of 334 km from Guwahati. NIT Silchar campus is 10 km away from Silchar railway station and 35 km away from Silchar airport.

REGISTRATION FORM

One Week Short Term Course
On

Fractional Order Systems and Their
Applications (FOSTA-2019)

(A Programme under TEQIP-III)

16th – 20th August, 2019

1. Name (Block Letter):

2. Designation:

3. Organization:

4. Address for Communication:

5. Phone No.:

6. E-mail:

7. Educational Qualification:

8. Accommodation Required: Yes/No

9. Payment Details:

(DD/Receipt No.)

Place: Date:

Signature of the Applicant:

Recommended by HOD/HOS

(Signature & Seal)