About the Department

Department of Electrical Engineering offers one B. Tech degree programme in Electrical & Electronics Engineering, and five regular M. Tech programmes, viz., Instrumentation & Control Systems, Power Systems, Power Electronics, Industrial Power & Automation and High Voltage Engineering. The research programme leading to Ph. D degree covers a variety of topics in electrical science, technology and engineering., systems and control, economics of power and energy systems, industrial automation, high voltage engineering, etc.

About NIT Calicut

National Institute of Technology Calicut (NITC), is fully centrally funded by MHRD and is governed by the NIT Act 2007. Institute has ten departments, three schools and nine research centers. It offers ten UG, and thirty PG programmes along with the Ph. D programme in various fields of Science, Technology and Engineering. Faculty members in the various Departments have active collaborations with universities and elite institutions within and outside India for research and have active consultancy for industries. For details, see the website: www.nitc.ac.in

About GEC, Bharatpur

Government Engineering College (GEC) Bharatpur is an autonomous institute under Bharatpur Society, Rajasthan, India. GECB was established in the year 2007. The college has six departments namely Mechanical Engineering, Civil Engineering, Electronics& Communication Engineering, Electrical Engineering, Computer Science & IT and Applied Science & Humanities. For details, see the website http://www.ecbharatpur.ac.in

About TEQIP III

Technical Education Quality Improvement Programme (TEQIP) was launched in December, 2002 by the Ministry of Human Resource Development, India with the World Bank assistance. The programme was conceived and designed as a long term project to be implemented in 10-12 years in 3 phases to support excellence and transformation in Technical Education in the country. Third phase of the programme namely TEQIP III was started in the year 2017 and will be ending in 2020. The main objective of TEQIP III is to improve the quality of Engineering Education in existing government institutions in the educationally backward states and also arrange for twinning them with other institutions such as NITs and a few Affiliating Technical Universities(ATU).

About Calicut

Calicut, also known as Kozhikode, is a blooming city in the region of Malabar, lying in the northern part of Kerala. This region is a major knowledge hub of Kerala and it proudly hosts many institutions of national eminence such as NITC, IIMK, NIELIT, CWRDM, Kerala School of Mathematics, IISR etc. Calicut is well connected by rail/road/air to major cities in India. Apart from the serene beaches on the west and the high ranges of the Western Ghats on the east, there are many landmark places that attract attention of the tourists. NITC is 22km off the city limits towards east.

Coordinators

Dr. Mija S. J. , Asst. Professor,

Dr. Jeevamma Jacob, Professor

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Co coordinator

Mr. Navneet Sharma,
Department of Electrical Engineering
Govt. Engineering College Bharatpur
Bharatpur, Rajasthan - 321303

Faculty Development Programme

Organized by

Department of Electrical Engineering
National Institute of Technology Calicut
NIT Campus P.O., Kozhikode – 673601

Under TWINNING with

Govt. Engineering College Bharatpur
Bharatpur, Rajasthan -321303

Sponsored by TEQIP –III, MHRD

Preamble:

In the modern era of fast growing technology, control engineers play a vital role in product design, plant operation, decision making etc. The design of the most suitable control strategy for the given plant and its execution, independently or in a supervisory mode, is an art and it requires wide knowledge of innovative control techniques. Advancements in control and instrumentation are driven by the new developments in the mathematical approaches as well as the technological developments. Many challenges in real life ranging from precise control of industrial production processes to control of single mission and reusable aerospace vehicles can be tackled with appropriate control techniques. We can also find innumerable other control applications in the day-to-day life as well. Thus, the topic of control techniques has potential application and is continuously evolving. Skill of control design and the knowledge of the foundations of systems design are very much essential in areas such as power conversion, signal processing, communications and so on.

The proposed one-week course on School on Systems and Control will provide an avenue for the professionals from academia and industries to interact with each other and to create a sound awareness on the various advanced topics pertaining to the Science and Engineering of control. The application of these control strategies is envisaged for continuous-time and discrete-time systems in both linear and nonlinear frameworks. This will help the participants to get familiarized with a variety of control system design challenges and thereby strengthen their academic and research activities.

Major Topics:

- Multi-agent systems and Control
- Robust, Adaptive and Optimal Control
- Sliding Mode Control and Applications
- Non-linear Systems and Control
- Fractional Order Systems and Control

Resource persons:

Sessions will be handled by Faculty experts from IITs/IISc/NITs and experts from R&D/Industry.

Eligibility:

Faculty members from various AICTE approved Engineering Colleges/Institutions can apply. Working professionals and practicing engineers from various Research Organizations and Industries, and Research scholars can also apply. **Maximum seats: 30**

Registration:

Registration Fee:

- Industry/ Research Organizations: Rs. 8000+18% GST
- Academic institutions: Faculty* Rs. 5000+18% GST
- Research scholars: Rs. 3000+18% GST.

***Twenty faculty members selected from the total applicants will be exempted from registration fee and food and accommodation charges.**

Boarding & Lodging:

All faculty and research scholars may be accommodated in the hostel /international hostel on payment basis if they request for it. Participants from industry /research organizations may be provided lodging in the Institute Guest house on payment basis, subject to availability.

Charges:

- International hostel: Rs. 450//day
- Ladies hostel: Rs. 250/day
- Boys hostel: Rs.250/ day
- Guest house: Rs. 350/day
- Breakfast, lunch and dinner: Rs. 250/day

For **provisional registration**, e-mail the scanned copy of the duly filled up registration form to the Coordinator on or before **15th November 2018**. Registration will be confirmed once the fee (if any) is paid after the intimation of selection. The registration fee has to be paid through online transfer. The bank details are given below for online transfer. Account Name: Director NIT Calicut, Continuing Education Programme, Account No: 37618269594; Branch: SBI NIT Calicut, IFSC code: SBIN0002207

Travel Expenses:

No TA/DA will be paid for any participant. Institutions are expected to provide the support.

Faculty Development Programme

School on Systems and Control (SSC – 2018)

REGISTRATION FORM

1. Name: ……
2. Date of birth: …… Gender(M/F): ...
3. Designation: ……
4. Department: ……
5. Institution: ……
6. Mobile: ……
7. e-mail: ……
8. Highest Qualification: ……
9. Specialization: ……
10. Experience (Number of years):

    Teaching: …… Industry: ……
11. Whether accommodation needed (Yes/No)……

Endorsement of the
Head of the Institution/Department

Certified that Mr./ Ms./ Dr. … …… is an employee of this institution and is hereby sponsored for the faculty development programme **School on Systems and Control (SSC 2018)** at NIT Calicut during 3rd – 8th December 2018. He/she will be permitted to attend the course, if selected.

Place: Name & Signature of the Sponsoring Authority
Date: *(seal of the institution)*