



**TEQIP SPONSORED
FACULTY DEVELOPMENT PROGRAMME
ON**

**ARM BASED EMBEDDED
SYSTEM DEVELOPMENT**

17th – 23rd JUNE 2018

Co-ordinators

LYLA B DAS, ECED

JAGADANANAD G, EED

Organised jointly by

**DEPARTMENT OF ELECTRONICS &
COMMUNICATION ENGINEERING
AND
DEPARTMENT OF ELECTRICAL ENGINEERING**

NATIONAL INSTITUTE OF TECHNOLOGY CALICUT
NIT Campus P.O. CALICUT, 673601. Kerala, India

UNDER TWINNING WITH
Govt. Engineering College Bharatpur
Bharatpur, Rajasthan - 321303
Coordinator at GECB: Dr. SUDHIR KESHARI

Important Dates

Last date for receipt of applications: 5th June 2018
Intimation of selection: on or before 8th June 2018.

About the Institution

NITC has twelve departments and seven centers. It offers ten undergraduate and twenty five postgraduate programmes apart from Ph. D. The institute has good infrastructure in computing, information technology, laboratories and central library including digital library. All departments have separate computing facility in addition to the central facility

About the Electrical Engg Dept.

Established in 1961, the Department offers an undergraduate programme in Electrical and Electronics Engg. , post graduate programmes in Power System, Instrumentation & Control Systems, Power Electronics, and Computer Controlled Industrial Power as well as research programmes leading to Ph.D. Degree.

About the Electronics & Communications Engg. Dept.

In 1997 ,the Electrical Engineering department was trifurcated as Electrical, ,Electronics & Communications, and Computer Science departments. The EC dept offers an undergraduate programme in Electronics & Communications, and four post graduate programmes –in VLSI , Electronics Design and Technology ,Telecommunications and Signal Processing. It also offers high quality research programmes at Ph.D. level in the areas of Signal Processing and Communications.

About Calicut

Calicut is a major center of higher education, learning and research in Kerala. It is the hometown of institutions of national importance including NITC, IIMK, CEDTI, CWRDM etc. Calicut is connected by direct trains/road/air to all major cities in India.

About GEC, Bharatpur

Government Engineering College (GEC) Bharatpur is an autonomous institute of Government of Rajasthan, under Engineering College 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 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. The third phase of the programme namely TEQIP III, was started in the year 2017 and will end 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 like NITs and a few affiliating technical Universities(ATU).

PREAMBLE

In the modern world, the role of embedded systems is all pervading and ubiquitous . In our day to day living, we encounter many embedded products in some form or the other – mobile phones, AC, washing machines, cars, medical equipment etc. are typical examples. Today, we are looking for everything 'Smart', which is nothing but embedded system entrenched form of the conventional systems, accomplishing astonishing revolution in the modern world, heading to 'IoT and AI on everything' kind of situation.

In this context, it is imperative that we, as engineers and academicians, become well versed in the art of designing and developing embedded systems. This course is meant to provide a starting point as well as a strong foundation for this endeavor.

Many universities offer courses in Embedded Systems in the PG as well as in UG levels. ARM Processors or Embedded processors, as they are designated, form the core of high end embedded systems. This course intends to provide an in-depth knowledge and practical know-how on ARM processor based embedded system development. Giving more emphasize to the hands-on, Lab sessions on each of the topics is the special feature of this course.

COURSE CONTENT

- ARM - 7 and CORTEX Architecture
- Assembly language programming of CORTEX M
- Peripheral programming of ARM7, CORTEX M0, M3 and M4 boards.
- Application Development using KL-25Z, STM32F, TIVA and LPC176x boards
- Raspberry-Pi based system development and programming.

Who Can Apply

Faculty members from various Engineering Colleges / Institutions can apply.

Working professionals and practicing engineers from various Research Organizations and Industries, and Research scholars can also apply.

The basic qualification should be in ECE/CSE/EEE/AE.

Maximum seats: 30, on first come first served basis.

Registration Fee:

- The course is free of cost for the first 20 faculty members from academic institutions.
- Registration fee for those not included in the above category is as follows:
 - ❖ Industry/ Research Organizations: Rs.4000+18%GST
 - ❖ Academic institutions: Faculty* Rs.2000+18%GST
 - ❖ Research scholars: Rs. 1000+18%GST

Boarding & Lodging

Faculty and research scholars may be accommodated in the hostel on chargeable 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 to be paid is given below.

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

- ***Twenty** faculty members will be exempted from registration fee and food and accommodation charges, on first come first served basis.

For Registration, fill the online form at <https://goo.gl/pFMiAM>

Or, Scan the QR code below.

Faculty members have to send the hardcopy of the signed sponsorship certificate along with DD for Rs1000/- by Courier / Speed Post to:

**Dr. Jagadanand G, Associate Professor , EED,
Programme Coordinator (ABESD),
National Institute of Technology Calicut
N.I.T. Campus P.O., Pin. 673601, Calicut, Kerala.**

For others, the registration fee has to be paid through online transfer and mail the scanned copy of the signed sponsorship certificate to jagadanand@nitc.ac.in . The bank details for online transfer are given below.

Account Name: Director NIT Calicut, Continuing education program.

Account No: 37618269594;

Branch : SBI NIT Calicut,

IFSC code : SBIN0002207

- No TA/DA will be paid for any participant. Parent institutions are expected to provide support

All queries about the programme may be addressed to Prof. Lyla B.Das,
Dept. of Electronics & Comm. Engineering /

Or

Dr. Jagadanand G , Dept. of Electrical Engineering,
National Institute of Technology - Calicut.

Ph – 09496118755 / 09447923071

or email: lbd@nitc.ac.in / jagadanand@nitc.ac.in



Scan QR code for online registration and mail the signed sponsorship certificate & DD to Dr. Jagadanand G , EED, NIT Calicut. Kerala - 673601
Ph – 09447923071

SPONSORSHIP CERTIFICATE

Certified that Mr./ Ms/ Dr

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is an employee of our institute and is here by sponsored for the FDP on *ARM BAESD EMBEDDED SYSTEM DEVELOPMENT* at **National Institute of Technology Calicut** during the period from 17th – 23rd JUNE 2018. He/she will be permitted to attend the course fully, if selected.

Place:
Date:
Authority

Name & Signature
of the Sponsoring

(institution)

(seal of the Dept /

Address for Correspondence:

**Prof. Lyla B.Das, Associate Professor , ECED /
Dr. Jagadanand G, Associate Professor , EED,
Programme Co-ordinators,
National Institute of Technology Calicut
N.I.T. Campus P.O., Pin. 673601, Calicut, Kerala.**
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09447415558(M) / 09447923071 (M)

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Visit: <http://nitc.ac.in>