

Registration Form

Name of the Participant:

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Designation:

Qualification:

Experience:

Name & Address of Institution:

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Email ID:

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Mobile number:

D.D. in favor of "Nitte Meenakshi Institute of
Technology" payable at Bangalore

D.D. Number:

D.D. Date:

Signature of the Applicant

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Please send a scanned copy of the DD over
mail and submit the same on 20/12/2016
during registration.

Last date for registration is 18/12/2016

Registration fees

Students/ Research scholars:	Rs 500.00
Faculty:	Rs 1500.00
Industry / Corporate:	Rs 2500.00

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Former Vice-Chancellor, Bangalore University

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NITTE MEENAKSHI
INSTITUTE OF TECHNOLOGY 

(A Unit of Nitte Education Trust ®, Mangalore)
An Autonomous Institution
approved by UGC/AICTE, Government of Karnataka,
Accredited by NBA (Tier-1) and NAAC (A-Grade),
Affiliated to
Visvesvaraya Technological University, Belgaum,
P.B. No. 6429, Gollahalli, Govindapura,
Phone: 080-22167800, Fax: 080-22167805

5-day Faculty Development Program on

*High Performance Embedded System
Design using
Multi-core/Multi-processor SoCs
20th -24th December 2016*

Under
Technical Education Quality Improvement Program



(TEQIP-II)

Organized by

**The Department of
Electronics and Communication
Engineering,
Nitte Meenakshi Institute of Technology**

About the Institute

Nitte Meenakshi Institute of Technology (NMIT) is an Autonomous Institution affiliated to the Visvesvaraya Technological University (VTU), with the approval of UGC and Accredited by the National Board of Accreditation (NBA) under Tier-1 and by the National Assessment and Accreditation Council (NAAC-UGC) with 'A' Grade.

NMIT is the only unaided private engineering college in Karnataka State selected by the Government of India for World Bank Funding under TEQIP Phase II - Subcomponent 1.1 in the year 2011.

NMIT has a strong focus on Excellence in Education, Research and Promotion of Innovation and Entrepreneurship. NMIT has Several Sponsored research Projects amounting to more than Rs. 7.3 Crores sanctioned by different reputed National Funding Agencies such as DST, DIT, AICTE, DRDO Labs, VGST, IIEEE, VTU, etc.

NMIT is a unique Institution which has established five inter-Disciplinary Research Centers: Small Satellite Research, Robotics Research, Nano-material & MEMS, Computational Fluid Dynamics and Design Engineering & Process Simulation.

NMIT offers wide range of academic programs comprising of Seven UG and Ten PG programs in Engineering besides MBA and MCA. Six departments of NMIT offer doctoral programs of VTU and University of Mysore.

Highly qualified and experience faculty comprising 55 Ph.Ds, primarily from IISc, IITs & NITs. An additional 70 Faculty are pursuing Ph.D in different research centers of NMIT as well as in other Institutions of Eminence.

NMIT is identified as Regional Nodal Centre of IIT-B/IIT-KGP for Faculty Development Programs under National Mission on Education through ICT (NMEICT), under MHRD, Government of India. NMIT offers on-line courses organized by IIRS, Dehradun.

About the Department of Electronics and Communication Engineering

The Department of Electronics and Communication Engineering was established in the year 2001, with an intake of 60 students and now the intake has been increased to 180 in the year 2012-13. The department has a well-equipped research center approved by VTU and University of Mysore. The Department has high-end lab with industry-standard tools like Cadence VLSI CAD Tool, MATLAB, HFSS, Xilinx, etc.

The Department of Electronics and Communication Engineering has 8 PhDs and 12 others pursuing PhD. The Department regularly conducts continuing education programs such as seminars, workshops and courses on current technical topics, related to the emerging trends of technology development.

About the Program

This program aims to focus on recent trends in embedded system development and applications. A mix of topics and speakers from the industry and academia is carefully chosen so as to enable the participants, particularly the faculty, get introduced to the aspects of system development using Multi-core / Multi-processor SoCs and their applications. Considering that such SoCs are currently playing a major role in the embedded domain and thus its imminent inclusion in the syllabus as well as use in the student projects, the focus of lecture and demo/hands-on sessions of the program would be on the widely used multi-core/multi-processor SoCs. Alongside, the speakers from the industry would be introducing different application domains such as automotive infotainment, ADAS (Advanced Driver Assistance System), and smart phones. This is the first time a FDP is being organized by an engineering institute on this topic.



Need for this Program

Embedded system designers have been using Microprocessor/Microcontroller, FPGA, and DSP for building real-world embedded systems. While these building blocks continue to be used, the recent trends show that designers are considering additional building blocks such as multi-core CPU chip & multi-core / multi-processor SoCs. The benefits are high performance and reliability, low cost, low power, and small board footprint. These features are essential for high-end applications like mobile devices and ADAS. In embedded space, use of homogenous/heterogeneous multi-core/multi-processor SoC is more common compared to multi-core CPU chip. Software development for multi-core devices is challenging. It is important to offer introductory courses to students in engineering colleges to bridge the gap between industry and academia. To make this happen, faculty members must first acquire basic knowledge about various aspects of embedded system development using Multi-core / Multi-processor SOCs. This FDP enables faculty members to deliver effective classroom lectures on this topic.

Topics to be covered

- Multi-core based embedded system
- Standardization efforts in multi-core domain
- System design, cache memory
- Software development, testing, tools
- Accelerators/GPUs
- Application/case study
- Device architecture, tools and application/case study for multi-core SoC from TI.

Target audience

Sessions are conducted by professionals working in industry and senior faculty members with rich industry experience from NMIT. Demo/hands-on lab are planned in the afternoon sessions. *The program is primarily targeted towards faculty members of engineering colleges. Research scholars and PG students, stand to gain by participating in this program.*