

# INDUSTRIAL TRAINING/INTERNSHIP @ NIELIT CALICUT

● Duration: 1/2/3/4 Weeks

● Fee per Student ₹ 2000/3500/5000/6000 for 1 week/ 2weeks/ 3 weeks/ 4 weeks

● Starting dates: Mutually convenient dates

● Target: Engineering/Diploma/Graduate students in Electronics/IT

## Information Technology

- Android Application Development
- Java , Ajax, MySQL, PHP Programming
- jQuery, Hadoop, System Security
- Big Data Analytics, Python Programming
- Object oriented programming,
- Linux Server Administration
- Windows Server Administration
- Virtualization and Cloud Computing
- Cloud Server (IaaS) using Citrix

## VLSI

- Hardware modeling using VHDL/Verilog HDL
- System Verilog
- RTL Design Using Programmable Logic
- FPGA Based Prototyping
- Security Engineering/ IP Core Design for Cryptography
- FPGA Based Embedded System Design
- VLSI Physical design
- IC Design Flow from Specifications to tape out
- MATLAB Programming
- Object Orient Programming for VLSI Verification
- Multimedia Compression Techniques.
- Analog VLSI Design Flow
- VLSI Architectures for Digital Signal Processing

## Workshops

IoT Primer, Python Primer,  
MATLAB Fundamentals, Patents & IPR,  
RTL Design, FPGA Based Prototyping

**Hostel and canteen facility available**

## Embedded Systems

- Linux Device Driver Development
- Linux internals & OS porting
- Linux Kernel & Driver Debugging
- Embedded Linux OS
- Yocto Embedded Linux BSP Development
- Internet of Things (IoT) Application Development
- Embedded System Design using Arduino
- Embedded System Design with Raspberry Pi
- Embedded System Design with ARM Cortex uControllers
- System Design using DSP
- RTOS - VxWorks/RT Linux/FreeRTOS
- RTOS Porting
- Embedded Sensors and interfaces
- Wireless Technology and protocols

## Product Engineering

- Industrial Drives
- Hardware System Design
- Embedded Product Design
- EDA Tools (OrCAD)
- Board bringup
- Computer Aided Design
- 3D printing

## Control & Instrumentation

- Programmable Logic Controllers (PLC)  
Allen-Bradley / Siemens / ABB Controllers  
IEC-61131-3 Program Language
- SCADA / HMI
- NI-LabVIEW
- Data Acquisition System (DAQ)

We also offer Faculty Development Program and Academic Projects

**Please mail your requirement to [trng@calicut.nielit.in](mailto:trng@calicut.nielit.in) with the following information**

1. Qualification details (College, Branch, Semester etc)
2. Topic of interest
3. Duration of training
4. Tentative starting date
5. No. of students
6. Contact details (name, phone no.)



**National Institute of Electronics and Information Technology, Calicut**

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