



**Sandip Foundation's
Sandip Institute of Technology & Research Centre, Nashik
Department of Electronics & Telecommunication**

Date: 11/1/2016

Industry-Academia Innovative Practices

Name of Event: Two Days National Level Workshop on “Hands on Linux Based Embedded System, using Open Source Tools” In collaboration with BCUD, Savitribai Phule Pune University, Pune.

Date: 8th – 9th January, 2016

Name of resource person:

Sr. No.	Name of Resource Person	Organization
1	Dr. Y. S. Rao	SPIT, Mumbai
2	Mr. Rikesh Gandhi	Emtron Technology Pvt. Ltd. Mumbai

Co-ordinators:

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Prof. P. S. Aswale (8805409139)

Prof. M. E. Ingale (9021550865)

Objectives:

1. This workshop is intended to provide opportunities for participants to gain knowledge and experience on design and implementation of linux based embedded system using Open source tools.
2. This workshop mainly covers the Integrated Development Environment using ARM, ARM cortex controllers and implementation of RTOS. Eclipse development environment, ARM GCC tool chain and debugging in Linux environment will be used for programming.
3. Hands on training on LPC2148, STM32F0 ARM cortex Trainer Kits. The program is an ideal foundation for faculty to conduct practical's for IT, Electronics, Electronics and Telecommunication programs for the courses Embedded Systems, Microcontrollers.
4. This workshop targets engineers who wish to use the Linux system in new embedded projects, and people supporting customers developing such systems. In two days, through theory and practical labs, the course makes you familiar with the architecture of an embedded Linux system, how to build such a system, how to take advantage of open source components to implement system features and reduce development costs, and details how to develop and debug your own applications in an embedded environment.

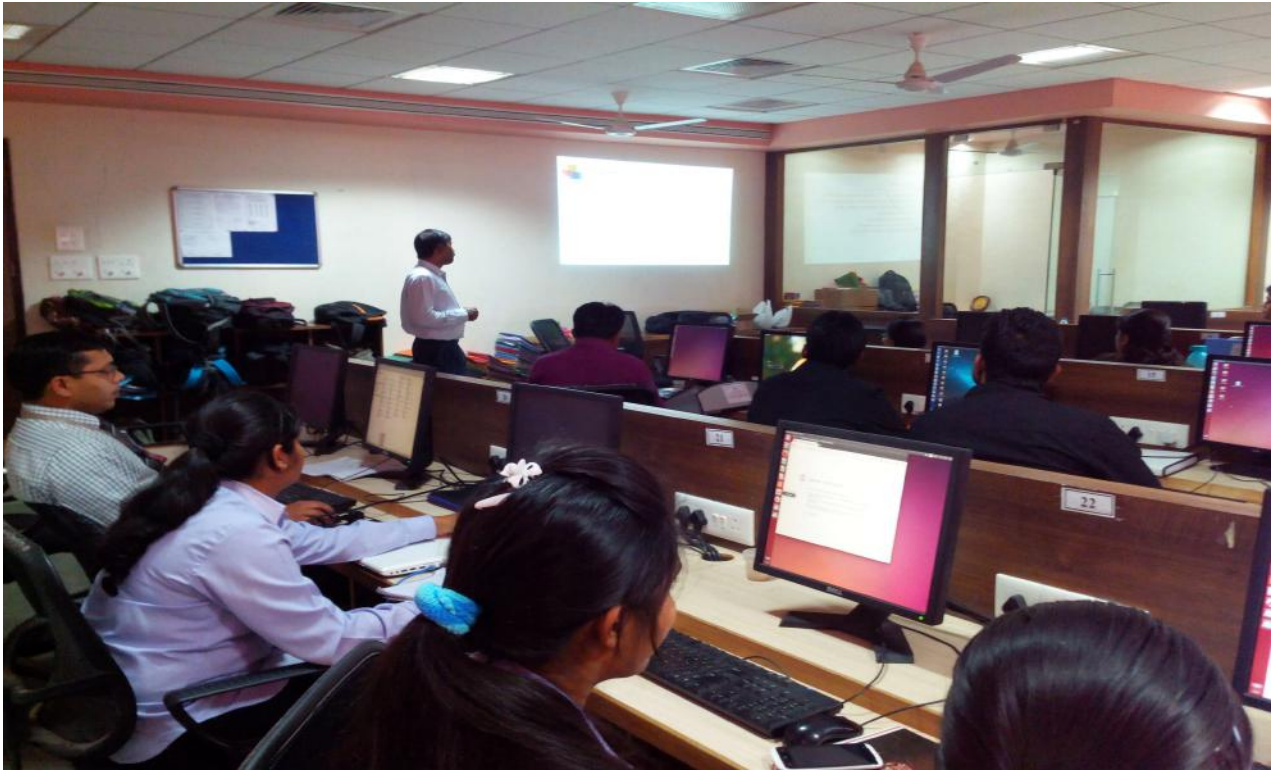
Outcome:

After successful completion of the workshop participants:

1. Understood and got the knowledge about the Software Hardware Co-design, open source tools, programming with linux environment, make file interaction, building and execution, assembler, complier, binutils.
2. Done Linux installation, GCC, MPS GCC installation.
3. Understand the use of open source tools for MSP, ARM applications.
4. Understood how to do BSL and JTAG interface to MSP in linux platform.
5. Understood how to development of Device Driver using ARM platform.

Photos:





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