

Embedded Software Labs



Embedded Software Labs (ESL) is started with a goal of providing a unique training facility to impart wide range of skills in ***Embedded Systems Development***.

Our training is considered the best in the industry. We have renowned Embedded System Experts

Dr.M.Venugopal and Mr. Rajesh associated with us, having

25+years of experience in Embedded industry. They guide the formation & delivery of our courseware.

The delivery of knowledge is enabled by experienced faculty drawn from our pool of talented developers, and also from our associate product development organization.

HANDS-ON TRAINING PROCESS

***Advance 'C' + UNIX INTERNALS + NETWORKING +RTOS+ uC (8/32-bit)
ARM.+PROJECT.***

***NOTE: DAILY 2-HRS OF CLASS FOLLOWED
BY 6.5 HRS OF LAB***

ESL Offers **highly application oriented training** with **TRUE** placement assistance.

Note: Total course duration at single stretch 109 days (1 - 2 hrs class room session/day- followed by lab assignment) → 10 weekends i.e., 20-25 days (7-8 hrs class room sessions).

Our training methodology is unique with trainings structured **100% around projects** which are close to real-life. This **unique methodology** is borne out of the vast experience of our founding team, and follows **our belief** in hands-on learning being the best method of gaining knowledge & experience.

➤ Course Objectives:

After completing this course, students will be able to:

- Expertise in C & C++ Programming with data structures.
- Hands on** debugging expertise on gdb debugger in Linux environment,
- Understanding of Real Time Operating Systems.
- Embedded Linux and embedded C Programming.
- 32-bit based target hardware - a true embedded environment.
- Develop an application to run on an embedded Linux system on 32-bit.

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· Practical set-up of Linux cross development environment, configure , compile, deploy and debug an embedded Linux OS on to our **Target Board of ESL** , having 32-bit ARM on it .
Embedded Linux device driver programming and Application development .

➤ Suitable for

Technical professionals; IT Professionals; students studying or researching Embedded technology.

➤ Prerequisites

UG/PG in Electronics/Electrical, Computer Science or IT.

➤ Trainer

The instructor has a **Real time experience of 25+years** in Embedded Systems and Mobile Communication. Our training is structured with Class Lecture followed by Practical Lab , worked examples, solutions are typically provided.

Overview of the Training Process is given below

- *(Guided sessions followed by self learning)*

Rapid Revision of the basics of Electronics & C Programming required to understand and devise Embedded Solutions

Guided Class room sessions

- **Advanced C programming & Common Data Structures: Disciplined C Programming and Debugging methods - in Linux environment** .
- **Linux / Unix Programming (Unix Internals) & TCP/IP protocol, socket programming using micro controllers**

- **Real Time Operating Systems (RTOS) with hands-on sessions**

*******Assignment to trainees*******

- *Fix bugs in code,*
- *Modify C codes to enhance the functionality /applications.*

Projects

Starts with Micro controller lab, where trainees will learn to develop small but complete solutions using 8 bit micros

Advanced Projects on 32-Bit micro controllers

in a more than one domain relating to the industry

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*****Embedded Linux Device Driver Development on 32-bit ARM:*****

*******GPIO,SDIO,LCD,Ethernet,*******

*******MTD Technology,Multimedia,*******

*******Serial(UART),Network,*******

*******USB,Keyboard,Mouse.*******

Duration: 3 Months(For Non-NRI's)

Fee 35,000/-

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