

A UTL GROUP COMPANY



EMBEDDED SYSTEMS

The Future . . .

 **UTL TECHNOLOGIES LTD**
BRIDGING ACADEMICS TO INDUSTRY

Telecom Embedded VLSI Wireless Web-Solutions

A U T L G R O U P C O M P A N Y

About Us

UTL Technologies Limited, a Group Company of United Telecoms Limited, is a front runner in providing professional training on emerging technologies like Embedded Systems Design, VLSI Design, Mobile Communications and Networking. UTL Technologies was started in June 2001 with an aim to Bridge the Gap between the academics and industry. The course content is designed keeping in mind the current and future requirements of the industry. Major contribution in terms of content, curriculum design, hands of experiments and projects come from the UTL group companies. Acceptance of our trained students by various prominent industries talks about the quality sustenance and the success of our programs. In the last six years of our existence we have trained more than 6000 candidates and have contributed more than 4500 candidates to the Semiconductor and Telecommunication industry. We have also trained more than 120 batches of corporate clients starting from entry level training to high -end project specific training. All these features confirm the acceptability of our training quality by the industry both the terms of manpower recruitment and training. This encouragement from the UTL group and the industries has contributed to establish ourselves as one of the top training institutes in India.

Overview

Over the past few years the information technology industry has seen a sea change in its attitudes and the types of products it sells. There was a time when eager buyers snapped up everything and anything that claimed to be high-tech, without much regard to its functionality or usefulness. However, with the technology crash and the subsequent awakening, consumers have become more watchful and less willing to believe the claims of the techno evangelists. As a result, the focus in all areas of the industry is shifting from a search for 'the next high-tech gizmo' to a search for 'the product that will make a difference in people's lives'. This has lead to development in the newer fields of it, such as embedded systems. The embedded technology sector is currently amongst the fastest growing sectors within it's segment and is likely to remain so for a long time to come. As a consequence, there is a rising demand in this field for professionals who can deliver on the challenging requirements in this field.

Embedded system is an exciting and competitive discipline. This technology focuses on the boundary between hardware and software and explore the levels of hardware software in the vicinity of this boundary. An enthusiast in this field should realize this boundary as the central to this discipline, it is where compilation in software ends and interpretation in hardware begins.

Certification

After successful completion of the program the eligible graduates will be awarded Diploma in Embedded Systems by UTL Technologies.

Objective

So what does it take to become an Embedded engineer?

It is obvious that such an engineer would need to have intimate knowledge of the innards of the digital domain. Even if he aimed to become an embedded systems programmer, He would need to have much greater familiarity with the hardware subsystem than any applications programmer could hope to have. He would also need to have a close familiarity with the tools that he uses to generate code. This course will enable a engineer to continue the lifetime of learning necessary for staying at the forefront of this competitive discipline.

Course highlights

- Exposure to the complete design process of embedded system with wide range of controllers and RTOS
- Thorough understanding of the fundamentals , especially Digital Electronics and C programming.
- Providing hands on experience on wide range of tools used in the embedded industry.
- Equal weight age for theoretical and practical sessions.
- The arrangement of the course into 4 levels provides a great advantage for the student to analyze the skills imbibed and thus to thoroughly master the technology.

Our Credentials

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| ◆ 6000+ Students trained | ◆ 4500+ Placed in top notch IT Companies |
| ◆ 3000+ Strong Alumni | ◆ 100+ Companies employing our students |
| ◆ 100+ Corporate batches | ◆ 14 group companies supporting us |
| ◆ 45 In-house technical team | ◆ 6 Years of rich experience |

Module 1

Embedded Systems Essential (ESE)

Concepts of Embedded Systems comparing with Desktop PC. C & Data structures, hardware related C, Communicating through the I/O Ports from Turbo C etc., Electronics Basics through Digital. Introduction to VHDL programming, CPLD, FPGA.

Module 2

Embedded Systems Design (ESD)

Design and development process of Embedded System using 8051, uController, Design of 8051 flash programmer, 8051 Interfaces to ADC/DAC/LCD/EEPROM/DS1307RTC etc., UART/I2C protocols and motor & object motion control using 8051, CMX scheduler, RTOS coding techniques. Embedded Networking with RCM3000 rabbit semiconductor. Dynamic C programming, Protocol development using TCP/IP libraries, Network application development using RCM3000 and Dynamic C.

Module 3

Embedded Systems Advance (ESA)

Object oriented programming, Working with Cygwin cross compilers for POWERPC Hands on experience on working with protocol converters like BDM, Architecture, instruction set programming, Firmware development using MPC 850 (POWERPC), Boot code implementation, working on basic communications protocols like UART / ETHERNET, ARM architecture & instruction set programming.

Module 4

Embedded Systems Building OS (ES-BO)

Kernel programming-IPC, System calls, process handling threads, management, Modular programming- Device driver development, Kernel configuration cross tool chain development for POWERPC/ARM on Linux, Porting Techniques, RTLinux Architecture, advantages, its significance, Real Time coding techniques on RTLinux.

Project Work

The Project work is an integrated part of the course and it is carried out along with the course. Students are encouraged to implement their innovative ideas in the project.

Course Duration: 99 Working Days (4 Hrs per day)

Eligibility

BE / B.Tech (ECE / Telecommunications / Instrumentation / Computer Science / Electrical). Final year students from the above streams can also apply.

Placements

We have a dedicated placement cell with a goal of making every trained student employable by assisting them to attend and succeed in interviews. Most of the students are placed with good IT companies through our placement cell and we have achieved 50 placements in a single day with a MNC and have placed more than 250 students in the last six months. The placement cell will also work closely with the students to make them industry ready by providing guidance about the industry expectations and preparations required to meet it through a series of Value Added Sessions (VAS) and the screening for interviews happens through a Placement Qualifying Test (PQT)

Our students are gainfully employed with various top notch IT companies across the globe like Wipro, Texas Instruments, Satyam, IBM, Intel, Synopsis, KPIT, Sasken Networks and Engineering, Dixel Designs, Fortuna Technologies, Futuresoft, Aerospace Systems Ltd., Infinite Computer Solutions, ZTE, Exsilicon, Honeywell, AIRTEL, Convergys, Robert Bosch, VSNL, Huawei Technologies, Ericsson, Nokia Etc.,

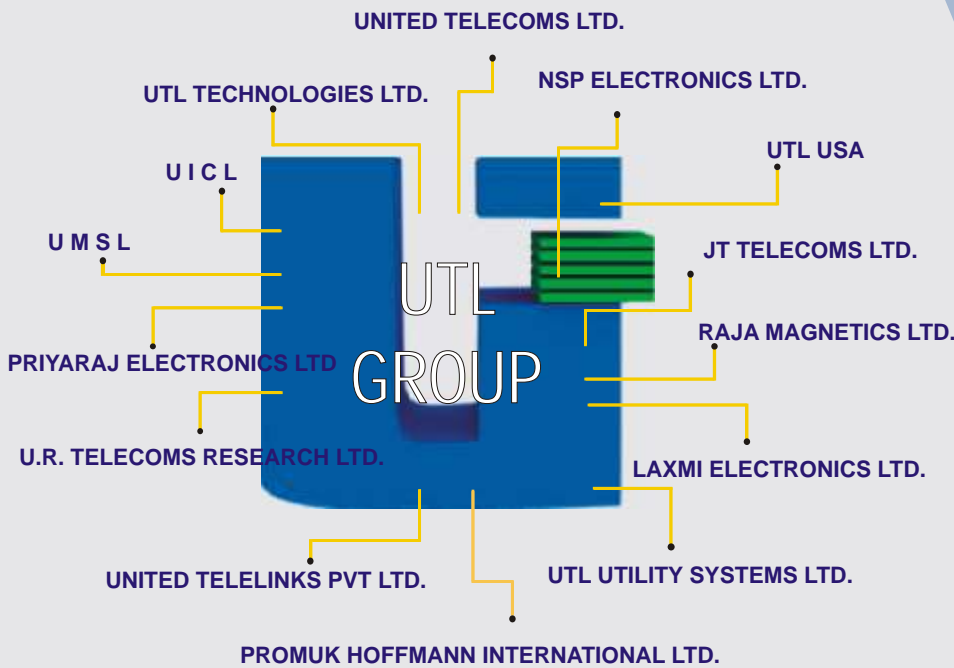




UTL Technologies Ltd

- Mission -

"To be a Premier Institute with continuous improvement and achieve excellent customer satisfaction in providing high end skilled training and development on emerging technologies by Bridging the Gap between Academics and Industry in the fields of Information Technology and Communication ..."



www.utltraining.com

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