



Information Technology Institute



Embedded Systems

Intake 35

Historical Background

The Embedded Systems department was established in 2006

■ The total number of graduates was 192

Track Purpose

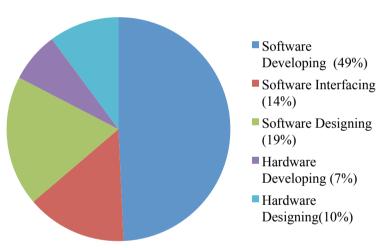
- Embedded Systems Platform aims to graduate professional, world-class, and well educated Embedded Systems graduates.
- The embedded systems engineer will be able to:
 - Design and develop in devices "Hardware" and write their own programs "Software" to reach the best model possible performance.

Graduate Profile

Graduates of this track should be able to:

- Design the hardware component of Embedded microcontroller-based, DSP-based, or SoC systems.
- Develop the Embedded software needed for any of these systems.
- Configure an embedded system for a given application.
- Make an initial selection of the tools needed to complete an embedded system design.
- Select a suitable processor for a given computational task.
- Design and develop device drivers for use with custom application specific hardware.

Technical Skills



List of Courses

Essential Courses:

- Operating Systems Fundamentals
- C Programming Language
- Data Structures and Algorithms
- Object-Oriented Programming Using C++
- Embedded Java Programming
- Java Programming For Industrial Engineering

Embedded Systems Software:

- Microcontrollers Assembly Programming
- Introduction to Embedded Systems
- Embedded C Programming
- Real Time Systems and RTOS
- Embedded Java Programming
- Introduction to Software Engineering
- VLSI Design: Programmable Devices
- MATLAB for Embedded Engineers

Embedded Hardware:

- Uniprocessor Architecture
- Computer Interfacing
- Microprocessors and Microcontrollers
- Advanced Microprocessor
- PCB Design

Embedded Systems Knowledge:

- Embedded System Development Tools
- Verification and Testing of Embedded Systems
- Embedded Linux

• Automotive Application:

- Automotive Bus Technology Standards
- Device Drivers
- Real Time Control Systems

Consumer Appliances:

- Wireless Communication Systems
- Digital Signal Processing for Embedded Systems

Soft Skills:

- Effective Communication Skills
- Effective Presentation Skills
- Interviewing Skills
- Creative Thinking
- Marketing Management
- Time and Stress Management
- Leadership and Motivation
- Team Building

Graduate Domain





























Our Staff

Staff Members

Department staff consists of 1 well-qualified Teaching Assistant.

Technical Committee

Includes:

Dr. Serag El-Den Habeb (Cairo University Professor).

Embedded Systems Committee (ESC).

Contact Us

Room:

3034

Tel:

(202) 35355581

Email:

ES4ITI@gmail.com

Website:

http://www.iti.gov.eg/en-gb/services/capacitybuilding/9monthprofessionaldiploma.aspx

ITI Links



Common FAQs

URL: http://www.iti.gov.eg/faq



Connect with ITI: Ask iTi

URL: http://www.facebook.com/Ask.iTi.gov



Tracks Information

URL: http://www.iti.gov.eg/students/53/9-month-professional-diploma

Thank You