

PG-Diploma in Embedded Systems and Design (PG-DESD)

Program Objectives:

Realizing the growth of embedded systems in day-to-day life and the need for trained manpower in this promising area, C-DAC has launched a Diploma in Embedded Systems Design (DESD) for Engineers in computers, electronics and IT. Embedded Systems is a unique field, where engineers need to have sound knowledge in hardware and software design. Keeping this aspect in view, C-DAC has designed the diploma giving equal emphasis to hardware and software, enabling engineers to face challenges in the design and development of state-of-the-art embedded systems. The latest curriculum includes a module on wireless embedded systems design, specifically focusing on wireless technologies and Wireless Sensor Networks (WSN).

Qualification & Experience: BE / ME or Equivalent (AMIE, AIETE), B.Sc. (Engg'.), MCA

Pre-requisites:

Candidate should have sound knowledge of Fundamentals of Electronics, Fundamentals of Programming, Operating System Concepts and basics of Linux command.

The major modules covered in PG-DESD are:

- Embedded Systems Concepts, Design and Tools
- Embedded C Programming
- Data Structures and Algorithms
- Microcontroller Programming and Interfacing
- Embedded Operating Systems
- Embedded Linux Device Drivers
- Real-Time Operating Systems
- Internet of Things (IoT)
- Aptitude & Effective Communication
- Project and Seminar