


**ESD**

## PG Certificate Programme in Embedded Systems Design

### Course Highlights

- Well established courses with excellent placement records.
- 24-week full-time courses with 900 hours' theory + lab + project + 300 hours self study.
- 6-8 hours per day theory + lab sessions on 6 days a week in most centres.
- Continuous lab and internal assessments during the course.
- Centralised course-end theory exams across all centres.
- Courses designed and developed in consultation with the domain experts in C-DAC, academia and ICT industry.
- Expert faculty from C-DAC and ICT industry with widespread domain knowledge.
- Tutorials, hands-on and projects relevant to the standards of the ICT industry.
- Special training in aptitude, effective communication and interview skills.
- Extensive placement orientation and region-wise common campus placements.

**Core Modules:** Embedded C, RTOS, STM32, ARM, SPI, UART, CAN, Firmware

The PGCP-ESD course equips the students with a strong foundation in both theoretical and practical aspects of embedded systems design, preparing them for careers in fields such as automotive systems, consumer electronics, industrial automation etc.

### Course Modules

- Embedded C Programming
- Data Structures and Algorithms
- Microcontroller Programming and Interfacing
- Embedded Operating Systems
- Embedded Device Driver
- Real-time Operating Systems
- Internet of Things (IoT)
- Aptitude & Effective Communication
- Project