

ADVANCE DIPLOMA IN EMBEDDED SYSTEMS (ES)

Affiliated to Maharashtra State Board of Technical Education Recognized by Government of Maharashtra

For Admission Call or What's App on: 7057676587

About the Program:

Realizing the growth of embedded systems in day-to-day life and the need for trained manpower in this promising area, MSBTE has launched a Post Graduate Diploma in Embedded Systems (ES) for Diploma Engineers in Electronics, Computers, Mechanical and Electrical Streams. It is also designed for BSc students with Physics/ IT/Computer Science or Higher streams. Embedded Systems is a unique field, where engineers need to have sound knowledge in hardware and software design. Keeping this aspect in view, MSBTE has designed this program giving equal emphasis to hardware and software, enabling engineers to face challenges in the design and development of embedded systems. The latest curriculum includes a module on communication interfaces, Real Time Operating System, RISC Microcontrollers, and their applications with Embedded C programming Skills.

Recognition of Program:

Advance diploma in Embedded Systems is affiliated to Maharashtra State Board of Technical Education and Recognized by Government of Maharashtra. Program Certificate will be provided by Maharashtra State Board of Technical Education, Mumbai.

Program Outcome:

After completing this program students will be able to:

- Work with Integrated development environment like Keil & MPLAB IDE.
- Work with Hardware, Test functionality, Debug, and check for performance.
- Gain the knowledge about different Microcontrollers, their architecture and will also get knowledge about specific controller to be used for specific application.
- Work as System Design Engineer.

- Become an Embedded engineer with good knowledge of Microcontroller and Microprocessor based design, Device driver and RTOS.
- Students can start career as Embedded Developer, Tester and leads to Project Manager after having relevant experience.

Teaching Methodology:

Our approach for Teaching of this program is based on

- Live Classes by Experienced teaching and Industry experts. Lectures will be organized by Online and Offline modes as per the requirements.
- Industrial Project is the key aspect of the program. Students are encouraged to take up projects from Industry to get exposure to the practical aspects of Embedded Systems.
- Hands on training will be provided through Demo Kits present in Laboratory and check the output achieved. Also Simulation software is used for design and Testing purpose.

Who can Join the Program(Eligibility):

As it is a Post Diploma course, any student who have completed Diploma in Electronics/ Computer/ Mechanical/ Electrical stream and also students who have completed their BSc in Physics/ IT/ Computer Science can join this short term certification course.

Duration: One Year Part Time - Semester

Carrier Opportunities:

As technologies advance and become more complex, manufacturers are placing software into vehicles, houses, appliances and other products customers use daily.

These Embedded Systems can be used to control something as simple as a digital calculator or as complex as an industrial robot or a guided missile.

As an embedded developer or embedded engineer, you can find your calling in sectors like consumer electronics, aerospace, medical science and the automotive industry.

- A developer focuses on creating functional programs – writing and tweaking the code and getting the software or application to work.
- An engineer applies engineering concepts to embedded development, looking at the big picture of how the software and hardware work together. This includes design, development, maintenance, testing and evaluation.
- Finally with this certification course, you can become Software Test Engineer. Embedded Hardware Engineer. Embedded System Trainer, Marketing & Sales Executive.

Program Structure:

SEM-I	SEM-II
Embedded 'C' for Microcontroller	PC Communication Interfaces
RISC Microcontroller(8 bit)	RISC Microcontroller(32 bit)
Introduction to Embedded Systems	Introduction to Real Time Operating System(RTOS)
Mini Project	Industrial Project

Fee Structure:

Course Fee: Rs. 45000/-

Enrolment and Examination Fee:- As prescribed by MSBTE, Mumbai

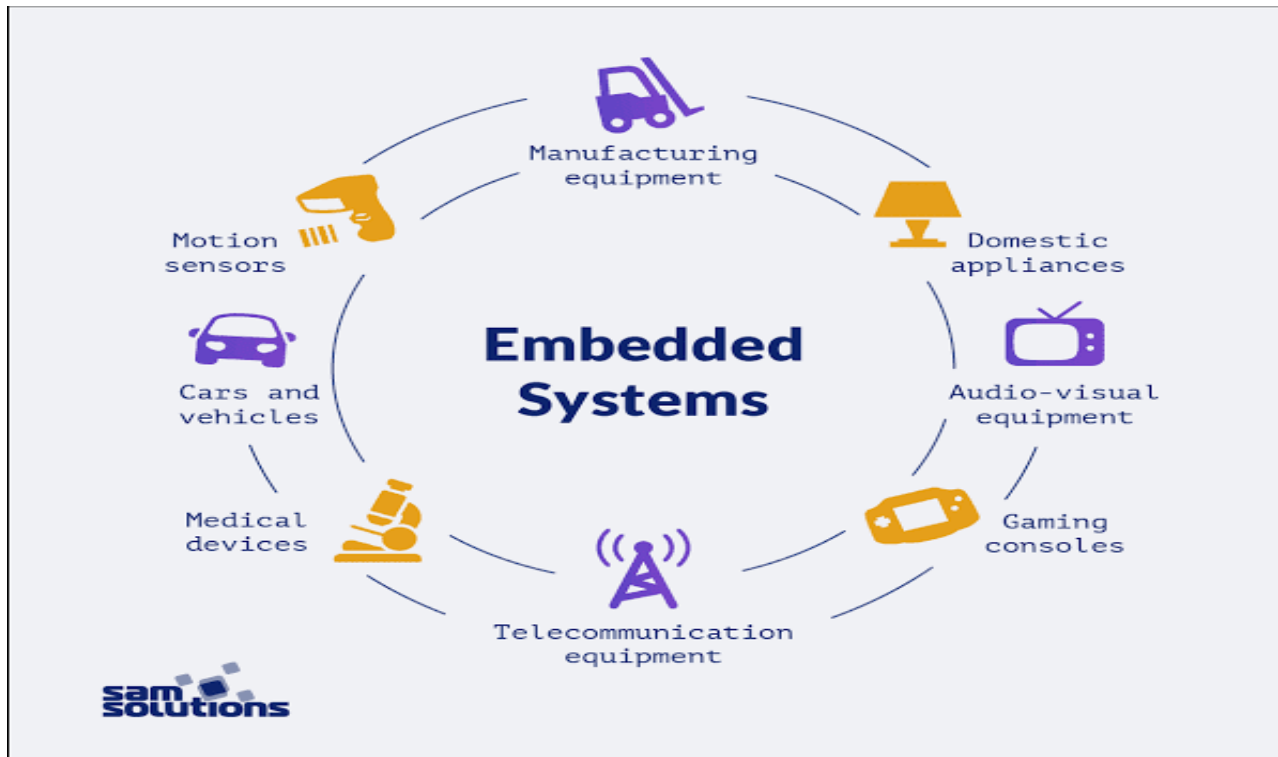
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- As carrier opportunities



- Program outcome or about the program

Examples of Embedded Systems



Many Different Products Depend on Embedded Systems