

CENTRE OF EXCELLENCE IN EMBEDDED SYSTEMS

Embedded Systems is the need and trend of the day and the future. Today 90% of computing devices are in Embedded Systems. It has more than 10 % growth rate per annum and over 40 billion devices are forecasted by 2020. This means 5 to 10 embedded devices per person on earth. The application areas start from tiny toys to aerospace applications, including consumer electronics, medical electronics, remote automation, industrial controls, automotive electronics, telecom, military applications and so on. This significance makes the Centre of Excellence in Embedded Systems a vital requirement for training the future Engineers.

The objective of the Centre of Excellence is to connect the students with the industry and make them industry ready when they complete their engineering programme. The requirement in the industrial scenario is gathered and we bridge the gap between the university curriculum and industry requirement, thereby engineering the Engineers to face the real time technical world.

Any industry needs the fusion of hardware and software and our Embedded Systems Engineers have a wide scope of placement opportunities in an ever progressive list of companies which includes WIPRO, Valeo, EmbeddedUR, Siemens, Honeywell, General motors, Cisco systems, L&T infotech and the list continues. They can exhibit their talents in product development, product engineering services and research.

The Centre of excellence is being established in collaboration with Wipro Technologies. The technical facilities is to be utilized to make the students equip themselves with the technical know-how in the area of embedded systems, develop products and to disseminate knowledge to the interested Engineers.

Benefits of Embedded Systems Training

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- Embedded systems training will provide essential ideas of hardware design, programming concepts, understanding of systems setup and processes with possible hands-on sessions.
- This coverage in the training is most preferred by corporates during recruitment as students are made company ready.
- Embedded systems is the technology in demand which will give an edge over others in a competitive working environment.
- Training in this technology can pave way to enter more related technologies like robotics, automation etc.

CORE TEAM MEMBERS

FACULTY NAME	DEPARTMENT	DESIGNATION
Dr. S. Anita (SPoC)	E.E.E	Associate Professor
Mr.J.Bharath Singh	E.I.E.	Assistant Professor
Ms.K.Jeevitha	E.C.E.	Assistant Professor

MEETING WITH WIPRO PRODUCT ENGINEERING SERVICES TEAM AT ELECTRONIC CITY, BANGALORE, ON 01.09.2016.



The meeting was attended by Dr.K.K.Sivagnana Prabhu, Head-Training and Corporate Affairs and Dr.Geetha Ramadas, Head-Department of Electrical and Electronics Engineering.

TRAINING ACTIVITIES

1. WIPRO Embedded Systems Recruited Students 2017 Batch (Passed Out)

- **Trained by C-DAC, Chennai with course content given by WIPRO for 30 days**
- **Project assigned by C-DAC, Approved by WIPRO**
- **C-DAC conducted project reviews.**
- **C-DAC certified the students**

2. FINAL YEAR STUDENTS (2014-18)

- Online selection test conducted on March 22nd, 2017
- 70 students from EEE,ECE and EIE selected
- TRAINING

Phase –I : Introductory Session , Project Orientation Programme (08.07.2017 & 10.07.17)



Phase –II : Mini Projects Display (17.08.17 & 18.08.17.)



Phase –III: Customized training programme

TRAINING COURSE CONTENT

Programming Concepts, Microcontrollers and Interfacing, Embedded Operating Systems

Real-Time Operating Systems, Internet of Things, Mobile Programming

Embedded Hardware Design & Development

3.THIRD YEAR STUDENTS (2015-2019)



SELECTION OF STUDENTS

Identification of interested students

Phase I

Submission of individual project titles with abstract and possible methodology / process (12.09.17)

Phase II

Project reviews (19.09.17 & 20.09.17)

Phase III

Coding skills Evaluation (23.09.17)

4.SECONDYEAR STUDENTS (2016-2020)



SELECTION OF STUDENTS

Identification of interested students

Phase I

Submission of individual project titles with abstract and possible methodology / process (September 2017)

Phase II

Project reviews (September 2017)

Phase III

Coding skills Evaluation (September 2017)

