



JAIN
DEEMED-TO-BE UNIVERSITY

FACULTY OF
ENGINEERING
AND TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING

Skill Development Program

Course Objectives

- ❖ Develop proficiency in programmable logic design and analysis.
- ❖ Increase understanding of real-time operating systems.
- ❖ Explore the latest embedded technologies.
- ❖ Utilize EDA tools to optimize embedded system designs.

Course outcomes

After completing each module the student should be able to:

S.No	Course outcomes
CO-1	Demonstrate the knowledge of Fundamentals of Digital Electronics and computer architecture and organization that address a real time scenario.
CO-2	Development of small scale projects on ARM processor family.
CO-3	Select and apply appropriate Embedded firmware design tools to Increases understanding of the essential embedded language.
CO-4	To address issues as to why the usage of Real-Time Operating Systems becomes more important for many applications and Gain a comprehensive understanding of Field Programmable Gate Arrays (FPGAs) architectures.
CO-5	Develop the understanding of how to use embedded & wireless hardware and programming skills to realize an IoT application.
CO-6	To have professional skills and team work to implement an integrate complex systems on a single chip and interface to various peripherals.

Programme Structure

- ❖ 6 modules (1st to 6th Sem) – 6 Semesters
- ❖ Each module is of 30 Hrs
- ❖ 5 days in a semester
- ❖ 5 to 6 Hrs per day
- ❖ Certification at 3 levels
 - ✓ Foundation(1st and 2nd Module)
 - ✓ Intermediate(1st to 4th Module)
 - ✓ Advanced(1st to 6th Module)

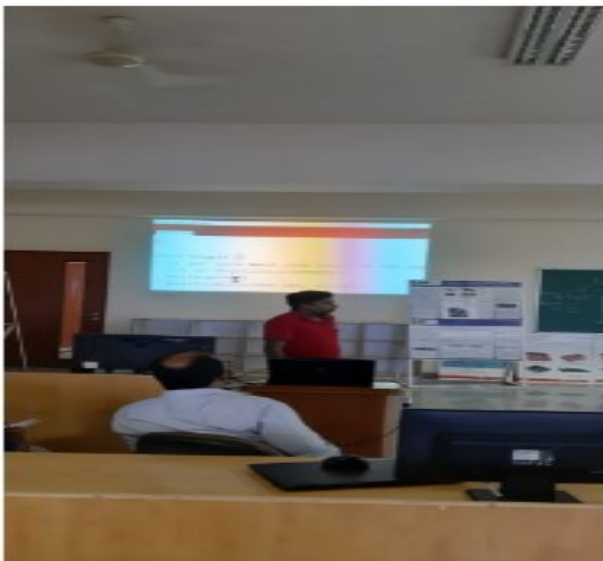
Modules and Mapping with PO

Module	Module Name	Hrs	Credits	Program Outcomes
M1	Fundamentals of Computer architecture and Electronics	30	2	P11
M2	Embedded Controllers	30	2	PO9,PO10
M3	Embedded Programming Using C	30	2	PO5
M4	RTOS/VHDL and Verilog -FPGA	30	2	PO6,PO7
M5	Sensors and Actuators-IoT	30	2	PO9,PO10
M6	System on Chip	30	2	PO8,PO9,PO12

Activities under Skill Development Program



SDP modules conducted in the department of ECE



Internet of Things (IoT) Applications held on 23rd of November 2021

Certification under Skill Development Program



EdGate®
UNIVERSITY PROGRAM

JGI JAIN
FACULTY OF
ENGINEERING
AND TECHNOLOGY
Department of Electronics and Communication

TEXAS
INSTRUMENTS

CERTIFICATE OF PARTICIPATION

This is to certify that T. Chinmaye Sai Priya of JAIN (Deemed to be University) has successfully participated in the Online Workshop for Three days from 13th to 15th May 2020 on Android App Development for Embedded System under Texas Instruments India University Program in association with EdGate Technologies Pvt Ltd Bangalore.

Mahesh Kumar
EdGate Technologies Pvt Ltd



EDGATE PARTNERS