



AICTE TRAINING AND LEARNING (ATAL) SPONSORED
FACULTY DEVELOPMENT PROGRAMME (FDP)

On

“Wearable Devices”

(1-2-2021 to 5-2-2021)

Organized by

Dept. Of Electronics and Communications Engineering
G. Narayanamma Institute of Technology & Science (For
Women)

(Autonomous)

PRINCIPAL
G. Narayanamma Institute of
Technology & Science (for women)
(AUTONOMOUS)
Shaikpet, Hyderabad - 500 104

PRINCIPAL
G. Narayanamma Institute of
Technology & Science (for women)
(AUTONOMOUS)
Shaikpet, Hyderabad - 500 104



WD

About the Institute

G. Narayanamma Institute of Technology & Science, a leading engineering college in Hyderabad for women founded by Late Sri G. Pulla Reddy garu in 1987 with the objective of providing an excellent learning facility for women to pursue education in engineering. The institute aims to promote Technical Education among Women to enhance and build-up a new generation of thinkers, innovators and planners in the technical realms of Science & Technology. GNITS received UGC autonomous status for 10 years from 2018 and is affiliated to Jawaharlal Nehru Technological University (JNTU-H), Hyderabad. It is approved by All India Council for Technical Education (AICTE), accredited by NAAC & NBA (AICTE) and ISO 9001:2015 Certified Institution.

About Dept. of ECE

ECE Department was started in 1997 with an intake of 60 and in a short period, the intake was increased to 180. The Department introduced M. Tech. with specialization in Digital Electronics & Communication Engineering in 2007 with intake of 18 students. There are 8 Doctorates in the Department. Amount of 2 crores is spent for establishment of labs. For the academic year 2018-19, the department got 25 lakhs of funding through AICTE. The infrastructural facilities have been upgraded in the department with the extension of existing

IS

and new laboratories in VLSI, Communications, Microwave and Signal processing domains.

The companies that have made good offers and absorbed our students are Deloitte, Infosys, Accenture, Powerwave, CAP Gemini, ADP, Apps Associates, Areva T & D, Broadcom, BTBP, CMC, Convergys, DuPont, HP, HSBC, MAQ Software, OSI Technologies, Redpine Signals, Satyam BPO, Sonata, TCS, Value Labs and Virtusa.

About ATAL-FDP

AICTE Training And Learning (ATAL) Academy Faculty Development Programme (FDP) intends to conduct faculty trainings through financial assistance from AICTE to enable faculty members in the field of technical education to introspect and learn techniques that can help prepare students for active and successful participants in a knowledge society.

Objectives of this FDP:

- ♦ To provide an extended knowledge on Wearable devices using Internet of Things.
- ♦ To provide insight of various communication networks for wearable devices
- ♦ To explore recent research work in the field of Wearable Devices in association with IOT
- ♦ Applications of Wearable Devices with IOT

FUTURE

Contents

- > Introduction to IoT and Wearable Devices
- > Architecture of Wearable IoTs
- > Low Power Embedded Systems in wearable Devices
- > Communication Technologies for Wearable Devices
- > Performance Analysis of Wireless Sensor Networks
- > LoRaWAN Devices
- > Flexible and Stretchable electronics
- > Wearable body Area Sensors
- > Wearable Medical Devices
- > Management of wearable systems

Resource Persons

- ✓ Professors from IITs
- ✓ Professors from IITs
- ✓ Professors from NITs
- ✓ Leading industry technocrats from industry handling the wearable devices and IO

PRINCIPAL

Narayanamma Institute of Technology & Science (for women)

PRINCIPAL (AUTONOMOUS)

G. Narayanamma Institute of Technology & Science (for women) (AUTONOMOUS)
Shaikpet, Hyderabad - 500 104



**G.NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE (For Women)
(AUTONOMOUS)
Shaikpet, Hyderabad – 500104**

Department: Mechanical Engineering

2020-21

REPORT

AICTE ATAL FDP on “Wearable Devices”

Date of program: 01-02-2021 to 5-2-2021

Resource person: Dr.N C Shivaprakash, IISc, Bangalore, Dr. Balwinder Singh National Institute of Technical Teachers Training and Research (NITTTR), Dr. M. Malini Professor Dept. of BME,OU, Dr. Neeraj Sharma Professor, ,BHU

About the Program: This AICTE ATAL FDP provided extended knowledge on Wearable devices using Internet of Things. Some sessions provided insight of various communication networks for wearable devices. Many recent research work in the field of Wearable Devices in association with IOT were discussed. Applications of Wearable Devices with IOT are also discussed. This helps me to explore more techniques in my Ph. D work.

Signature of the Faculty member

PRINCIPAL

G.Narayanamma Institute of
Technology & Science (for women,
(AUTONOMOUS)
Shaikpet, Hyderabad - 500 104