

**CHIEF PATRON**

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Smt. G. Srividya Reddy, Secretary*

**PATRON**

*Dr. K. Ramesh Reddy, Principal*

**PROGRAMME ADVISORS**

*Dr. P.V.D. Soma Sekhar Rao, Professor,  
Dean Academics*

*Dr. P. Sudhakar Rao, Professor, Dean  
R&D*

**ORGANIZING COMMITTEE**

**Convener:**

*Dr. B. Venkateshulu, Professor, HOD-ECE*

**Coordinator:**

*Dr. K. Ragini, Professor, ECE*

**Co-coordinator:**

*Dr. C. Padmaja, Assistant Professor, ECE  
M. Bhavana, Assistant Professor, ECE*

**Online Registration Link:**

<https://atalacademy.aicte-india.org/login>

Address for all Correspondence

**Dr. K. Ragini** (Coordinator)

Techno Park, JNTUH, Shaikpet,  
Telangana, India - 500072-161

Techno Park, JNTUH, Shaikpet,  
Telangana, India - 500072-161

Mobile: 9882507038

**Important dates:**

**Last Date of Registration:**

**20<sup>th</sup> Jan'21**

**Announcement of selected candidates:**

**25<sup>th</sup> Jan'21**

**Schedule of the event: 1<sup>st</sup> Feb - 5<sup>th</sup> Feb'21**

**Eligibility:**

- ❖ Academicians: Faculty in any discipline from the engineering institutions.
- ❖ Industry personnel
- ❖ Research Scholars

**Registration:**

*No registration fee is charged for the programme, since the program is fully sponsored by AICTE, New Delhi.*

*Registration will be based on First Come First Serve basis.*

*Interested candidates are requested to complete online registration as early as possible; selection of candidates will be intimated by e-mail only. Digital certificate will be issued by the ATAL academy to the participants, who maintain an attendance of minimum 80% and score more than 60% in the assessment test that will be conducted on the last day of*



**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)**

Approved by AICTE, New Delhi &  
Affiliated to JNTUH, Accredited by NBA  
& NAAC, ISO 9001:2015 Certified,  
Shaikpet, Hyderabad, T.S.

### 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 1997, 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

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

### 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 IIIT's
- ✓ Professors from IIT's
- ✓ Professors from NIT's
- ✓ Leading industry technocrats from industry handling the wearable devices and IO



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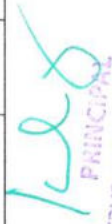
Shaikpet, Hyderabad - 500 104.

AICTE Training And Learning (ATAL) Academy Faculty Development Programme (FDP) 2020-2021 on "Wearable Devices" (01-02-2021 to 05-02-2021)

S.No/Date	10 AM to 11.15 AM Session - I	11.15 AM to 11.30 AM	11.30 AM to 12.45 PM Session - II	12.45 PM to 1.45 PM	2 PM to 3.15 PM Session - III
01-02-2021	Inaugural function Chief Guest: Dr. N C Shivaprakash		Recent Emerging Trends in Biomedical Engineering and Health care Dr.N C Shivaprakash, IISc, Bangalore		Wearable Electronics, Present and Future Dr. P. Sudhakar Rao, Professor, Dean R&D, GNITS
02-02-2021	A Technology Overview of Wearable's Mr. N. Venkatesh, Senior Director, Engineering at Silicon Labs, Hyderabad.		Overview of flexible wearable antennas Dr. Balwinder Singh National Institute of Technical Teachers Training and Research (NITTTR)	L U N C H	Communication Technologies in wearable devices Dr. Sachin Chaudhari, Asst. Professor, IITH
03-02-2021	Implantables in Health care Amol Kodag, Leader for the MEIC CVG Portfolio	B R E A K	LoRaWAN Devices Dr. Aftab M. Hussain, IITH, Hyd.	B R E A K	Wearable Devices And Sensors Supraja, Research Scholar, IITH
04-02-2021	Wearable Medical Devices Dr. M. Malini Professor Dept. of BME, OU		EMG based hand prosthetic Dr. Neeraj Sharma Professor, BHU		BIOMEMS Prof. S. Raghavan, Dept. of ECE, NITT
05-02-2021	Signal Processing in Wearable Devices Dr. Bikash chandra sahana, NIT Patna		Stress Management Dr. N.S. Murthy, Professor Vasavi College of Engg, Hyderabad		Examination Valedictory Function

Coordinator

Dr.K.Ragini, Professor, ECE, GNITS



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No:ATAL/2021/1610962438



**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

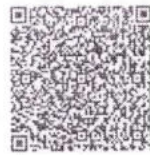
Nelson Mandela Marg, Vasant Kunj, New Delhi - 110 070

**AICTE Training And Learning (ATAL) Academy**

*Certificate*

This is certified that M.Bhavana, Assistant Professor of G Narayanamma Institute of Technology and sciences participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Wearable Devices" from 2021-2-1 to 2021-2-5 at G.Narayanamma Institute of Technology&science.

Director ATAL Academies



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