

**CHIEF PATRON**

Sri. P. Subba Reddy, Chairman  
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)

Institute of  
Technology & Science (For women)

9849627161

Padmaja (Co-coordinator)

9849627161

**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 FDP.



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

On

**"Wearable Devices"**  
(0-2-2021 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.

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Agenda for ATAL AICTE  
WORKSHOP

Day -1 Schedule

10AM to 10:05AM	Welcoming of all dignitaries on to the stage and Lighting the Lamp.
10:05AM to 10:15AM	Prayer Song
10:15AM to 10:25AM	Welcoming of all the participants ATAL AICTE FDP on Wearable Devices by the Coordinator Dr. K. Ragini, Professor, ECE, GNITS
10:25AM to 10:35AM	Address by Convener Dr. B. Venkateshulu, Prof. & HoD, ECE, GNITS
10:35AM to 10:45AM	Address by the Principal, Dr. K. Ramesh Reddy, GNITS
10:45AM to 10:55AM	Chief Guest introduction by Dr. C. Padmaja
10:55AM to 11:10AM	Speech by Chief Guest
11:10AM to 11:15AM	Thanks to Chief Guest
<b>Tea Break</b>	
11:30 AM to 12:45AM	Keynote Session by Chief Guest
<b>Lunch Break</b>	
2:00PM to 03:15PM	Introduction to Session Speaker
2:00PM to 03:15PM	Session Topic: Wearable Electronics Present and Future Dr. P. Sudhakar Rao, Dean- R&D, GNITS, Hyderabad
3:15PM to 3:20PM	Thanks to Session Chair



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Institute of  
(for woman)  
GNITS  
500 104

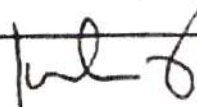



Day -2

10:00AM to 10:05AM	<b>Introduction of speaker</b>
10:05AM to 11:15AM	Topic: A Technology Overview of Wearable's Speaker: Mr. N. Venkatesh, Senior Director, Engineering at Silicon Labs, Hyderabad.
<b>Tea Break</b>	
11:30AM to 11:35AM	<b>Introduction of speaker</b>
11:35 PM to 12:45 PM	Topic: Overview of flexible wearable antennas Speaker: Dr. Balwinder Singh National Institute of Technical Teachers Training and Research (NITTTR)
12:45PM to 1:45PM	Lunch Break
2:00PM to 2:05 PM	Introduction to session chair
2:05PM to 3:15PM	Topic: Communication Technologies in wearable devices Speaker: Dr. Sachin Chaudhari, Asst. Professor, IITH

Day -3

10:00AM to 10:05AM	<b>Introduction of speaker</b>
10:05AM to 11:15AM	Topic: Wearable Devices And Sensors Speaker: Supraja, Research Scholar, IITH
<b>Tea Break</b>	
11:30AM to 11:35AM	<b>Introduction of speaker</b>
11:35 PM to 12:45 PM	Topic: LoRaWAN Devices Speaker: Dr. Aftab M. Hussain, IITH, Hyd.
12:45PM to 1:45PM	Lunch Break
2:00PM to 2:05 PM	Introduction to session chair
2:05PM to 3:15PM	Topic: Speaker: Amol Kodag, Leader for the MEIC CVG Portfolio

  
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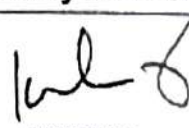
  
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### Day -4

10:00AM to 10:05AM	<b>Introduction of speaker</b>
10:05AM to 11:15AM	Topic: Wearable Medical Devices Speaker: Dr. M. Malini Professor Dept.of BME, OU
<b>Tea Break</b>	
11:30AM to 11:35AM	<b>Introduction of speaker</b>
11.35 PM to 12.45 PM	Topic: Speaker: Dr. Neeraj Sharma Professor, BHU
12:45PM to 1.45PM	Lunch Break
2:00PM to 2:05 PM	Introduction to session chair
2:05PM to 3:15PM	Topic: BIOMEMS Speaker: Prof. S. Raghavan, Dept. of ECE, NITT

### Day -5

10:00AM to 10:05AM	<b>Introduction of speaker</b>
10:05AM to 11:15AM	Topic: Signal Processing in Wearable Devices Speaker: Dr. Bikash chandra sahana ,NIT Patna
<b>Tea Break</b>	
11:30AM to 11:35AM	<b>Introduction of speaker</b>
11.35 PM to 12.45 PM	Topic: Stress Management Speaker: Dr. N.S. Murthy, Professor Vasavi College of Engg, Hyderabad
12:45PM to 1.45PM	Lunch Break
2:00PM to 3:00 PM	EXAM & Feedback collection
3:00PM to 3.10PM	Valedictory Speech
3.10PM to 3.40PM	Vote of Thanks by ECE Department

  
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**Report on**  
**AICTE Training And Learning (ATAL) Academy Faculty Development Programme**  
**(FDP) 2020-2021 on Wearable Devices (01-02-2021 to 05-02-2021)**  
**Organized by Department of ECE, GNITS, Hyderabad.**

**Day 1: 1<sup>st</sup> February 2021**

The FDP started with an introductory session, the Chief Guest Dr. N C Shivaprakash articulated the importance of faculty development programme conducted in latest technologies by ATAL Academy. After the inaugural session, Dr. N C Shivaprakash, IISc, Bangalore conversed about Recent Emerging Trends in Biomedical Engineering and Health. The speaker has given deep insights on Internet of Medical Things (IoMT), Medical imaging using IoT. Later, Dr. P. Sudhakar Rao, Professor, Dean R&D, GNITS, enunciated the Wearable Electronics, Present and Future Trends: Smart Grid Environment, Artificial Intelligence Trend, Robotics, Cyber Security, Block chain, Quantum Computing, Augmented-Virtual Reality, 3D Printing-Design and Venture Capital.

**Day 2: 2<sup>nd</sup> February 2021**

Mr. N. Venkatesh, Senior Director, Engineering at Silicon Labs, Hyderabad continued talk on A Technology Overview of Wearables: Choosing- Sensors, MCU, Display, Battery and Choice of Feature, Connectivity. In the afternoon session, Dr. Balwinder Singh, NITTTR, delivered a lecture on Overview of flexible wearable antennas Types, Fabrication Methods, Requirements and Applications in Wearable Devices. Later, Dr. Sachin Chaudhari, Asst. Professor, IITH, presented a topic entitled Communication Technologies in wearable devices: Enlighted Real-time Use Cases.

**Day 3: 3<sup>rd</sup> February 2021**

The presenter Mr. Amol Kodag, Leader for the MEIC CVG Portfolio has delivered understandings on Implantable in Health care: Properties of medical implants, Procedure such as Surgery and is intended to stay there after the procedure. Later, Dr. Aftab M. Hussain, IITH, Hyderabad enunciated the importance of LoRaWAN Devices. In the afternoon session, Mrs. Supraja, Research Scholar, IITH covered Wearable Devices and Sensors.

  
G. Narasimha Murthy, Head of  
Department of ECE, GNITS  
(Hyderabad - 500030)  
Shaikpet, Hyderabad - 500 104


#### Day 4: 4<sup>th</sup> February 2021

In the morning session Dr. M. Malini Professor Dept. of BME, OU delivered session on **"Wearable Medical Devices"** in which she explained about the trend toward the development and use of wearable medical devices which has exploded in the past few years and also gave brief idea about wearable technology which could help improve a patient's quality of life by enabling continuous monitoring of various conditions. Later, Dr. Neeraj Sharma Professor, BHU covered the topic on **"EMG based hand prosthetic"** and gave the detailed description about different types in EMG based hand prosthetic along with the functionality / usage of the prosthetic hand. And in afternoon session Prof. S. Raghavan, Dept. of ECE, NITT has delivered on **"BIOMEMS"** during his session he gave the outlining and contrasting some aspects of the fields of bio-MEMS.

#### Day 5: 5<sup>th</sup> February 2021

Dr. Bikash Chandra Sahana, NIT Patna delivered session on **"Signal Processing in Wearable Devices"**, gave detailed explanation on how signal processing plays a significant role in wearables and also gave brief idea about techniques applied on the acquired sensor data. real-time and off-line continue to enhance the value and progress of healthcare monitoring which is crucial for use by the public. Final session was delivered by Dr. N.S. Murthy, Professor, Vasavi College of Engg, Hyderabad on **"Stress Management"**. In this he explained different types of stress and how to overcome the stress with yoga, meditation, and laughing.

  
HOD, CSE

  
G. M. ...  
Technician (A) ...  
Shaikpet, Hyderabad - 500 104