

AICTE sponsored Two Week Faculty Development Programme on

**ENGINEERING CHALLENGES FOR MAKING DIGITAL INDIA: INTERNET OF THINGS & APPLICATIONS**

11<sup>th</sup> – 24<sup>th</sup> June, 2019  
ANITS, Visakhapatnam (A.P)-531162

**REGISTRATION FORM**

Name: .....

Is the institution approved by AICTE? YES/NO

Designation: .....

Institution .....

Department .....

Educational Qualification .....

Specialization: .....

Contact No. ....

Email ID .....

**Payment Details:**

DD No & Date : .....

Amount Rs : .....

Bank Name & Branch : .....

Accommodation required : YES / NO

Signature of the Participant with Date

**Declaration**

It is here by Certified that Mr. / Ms. \_\_\_\_\_ is a faculty member / scholar /employee of \_\_\_\_\_ Institution /College /Organization

Principal / Director  
(Signature with Seal)



AICTE SPONSORED TWO WEEK FACULTY DEVELOPMENT PROGRAMME

ON

**ENGINEERING CHALLENGES FOR MAKING DIGITAL INDIA: INTERNET OF THINGS & APPLICATIONS**

11<sup>th</sup> – 24<sup>th</sup> June, 2019

Coordinator

**Dr. V. Rajya Lakshmi**  
Prof & HOD, ECE

Organized by  
*Department of Electronics & Communication Engineering*



**ANIL NEERUKONDA**

**INSTITUTE OF TECHNOLOGY AND SCIENCES**

Approved by AICTE, Permanently affiliated to AU, Accredited & Reaccredited by NBA and Accredited by NAAC with "A" Grade ) Sangivalasa, Bheemunipatnam (Md), Visakhapatnam-531162  
Phone: 08933- 225084,226395 [www.anits.edu.in](http://www.anits.edu.in)

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Mrs. Ch. Padmasree, Asst. Prof. ECE

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## ABOUT ANITS

**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY AND SCIENCES (ANITS)** was founded by Dr. N. B. R. Prasad, an NRI Philanthropist from USA and Sri V. Thapovardhan, an industrialist, in memory 'of Late Anil Neerukonda, son of the Chairman Dr. N. B. R. Prasad. Its humble journey started in 2001 with an intake of 220 students into four undergraduate B.Tech programs. Within 14 years of its establishment, the institute has registered phenomenal growth and has been accredited by NAAC with 'A' and by NBA for the third time. It has been accorded the status of "Centre for Research" for guiding PhD scholars and permanently affiliated to Andhra University. It has achieved autonomous status in 2015. Further, the institute has been currently ranked as 4th among the private engineering colleges in A.P by APSCHE. It has also been recognized as "Centre for Excellence" by Infosys.

Today, the institute offers seven B. Tech programme and four M. Tech programme with an annual total intake of about 1100 students. The institute offers amenities like separate hostels for boys and girls, indoor and outdoor games, transport A/C Buses covering all the major locations of Visakhapatnam and medical aid provided by Anil Neerukonda hospital and NRI Institute of Medical Sciences, another educational institution of ANES.

### ABOUT THE DEPARTMENT OF ECE

The Department of Electronics and Communication Engineering, established during the academic year 2001-02 with UG program, had an initial intake of 60 and the intake was increased to 180 in the year 2014. M.Tech programme (PG) in Communication Systems with an intake of 18 commenced from 2011-2012. The UG program has been accredited twice by NBA. The department has national and international affiliations with professional bodies like IETE, IEEE, etc. The department has highly qualified and experienced faculty with

specializations in Wireless & Mobile Communications, Signal Processing, Radar & Microwave Engineering, EMI/ EMC, Antennas, Microelectronics & VLSI Design, Image Processing & Computer Vision, Electronic Instrumentation, Digital Electronics, Embedded systems. The department has good infrastructural facilities and has nine full-fledged laboratories equipped with adequate hardware and software. The department has successfully completed one Research Promotion Scheme (RPS) project funded by AICTE. The faculty members are actively involved in research and are publishing papers in reputed national and international conferences/ journals

### ABOUT THE PROGRAMME

Well connected nations are well served nations and hence connecting India will provide the much needed bridge between urban and rural India. The era of IoT is pegged to be the next big transformation set to revolutionize our lives. This eco system of interconnected things and technology results in a wide range of solutions for almost every aspect of human life and endeavor. This FDP serves as a platform for academicians, researchers and industry experts to interact on cutting edge technologies in IoT.

This program aims

1. To create awareness and to educate, inform and engage participants on all aspects of the Internet of Things (IoT) including components, technologies, products, application, consumer usage and societal impact.
2. To equip the faculty with knowledge of
  - Basics, Architecture and Challenges in IoT
  - Power supply design- Energy harvesting, calculation of battery life,
  - Wireless interfaces and Protocols
  - IoT System design, App development
  - Prototyping & Testing
  - Privacy & Security aspects
3. To address the challenges and key scientific problems involved in IoT development.

Note: All theory sessions are followed by Hands-on sessions

### RESOURCE PERSONS

1. Dr. T.V. Prabhakar, Principal Research Scientist, Department of Electronic Systems Engineering, IISc Bangalore.
2. Dr. Kodali Ravi Kishore, Associate Professor, Department of Electronics & Communication Engineering, NIT Warangal.

3. Dr. Karunakar Reddy Bireddy, Performance Architect, ARM, Bangalore,
  4. (Dr) V. Naresh, Completed PhD from Dept of EE of IITH (Selected as Principle Engineer in TSMC Taiwan).
- and experienced faculty of ANITS, other premier institutions and experts from industries and R&D laboratories will handle the sessions.

### REGISTRATION

Registration fee details for various types of participants are given below.

Faculty participants from AICTE approved Institutions	Rs. 1500/- (Refundable)
Participants from Industry/R&D Organizations	Rs. 3000/-

Registration form in the prescribed format approved by a competent authority should reach the Convener on or before May 30th, 2019 by hand/post/E-mail along with the Demand Draft to be drawn in favor of "THE PRINCIPAL, ANILNEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES", payable at VISAKHAPATNAM.

The total number of seats is 40, out of which 4 (maximum) are reserved for persons from industry.

Accommodation will be provided free of cost in the college hostels for eligible outstation participants on prior request.

TA to outstation participants as per AICTE norms.

The selected participants will be intimated through mail by June 3<sup>rd</sup>, 2019.

### CONDUCT OF TEST AND ISSUANCE OF CERTIFICATE

As per AICTE norms, a test will be conducted by Program Evaluation Committee (PEC) at the end of the program and certificates shall be issued to those participants who have attended the program and qualified in the test.

### TRANSPORTATION

Participants can avail college bus facility from RTC complex, Visakhapatnam. ANITS can be reached by RTC buses starting from RTC complex (Bus no. 222, 211 A/C).

### ADDRESS FOR CORRESPONDENCE

#### The Coordinator

FDP on Engineering Challenges for Making Digital India:

Internet of Things & Applications,

Department of ECE, Anil Neerukonda Institute of Technology and Sciences, Sangivalasa, Visakhapatnam- 531162, A.P

Email: aicteiotfpanits@gmail.com

Mobile :;9502236570,9948581434, 9533144444

**PEC REPORT**

On

**AICTE sponsored two week**

**Faculty Development Programme**

ON

**ENGINEERING CHALLENGES FOR MAKING DIGITAL INDIA: INTERNET OF THINGS & APPLICATIONS**

**11<sup>th</sup>-24<sup>th</sup> June, 2019**

Anil Neerukonda Institute Of Technology And Sciences (ANITS), Department of ECE, has organized AICTE sponsored two week faculty development programme on "ENGINEERING CHALLENGES FOR MAKING DIGITAL INDIA: INTERNET OF THINGS & APPLICATIONS" from 11th – 24th June, 2019. The FDP program received an overwhelming response from participants hailing from various institutes/colleges approved by AICTE and affiliated to Universities such as JNTU Pulivendula, JNTU Vizianagram etc., from across the states of Andhra Pradesh and Telangana. A total of 43 participants were shortlisted for the program, out of whom, 35 were outstation participants and 8 were internal participants. A total of 10 resource persons handled all the sessions, in this FDP, out of whom 7 were from various premium academic institutions & industries across India and 3 were from ANITS (Preapproved by AICTE). In order to give practical exposure, a majority of the theory sessions were followed by hands-on sessions.

This program aimed to introduce the participants to the amazing world of IoT and its fascinating applications. IoT is the idea of making devices and objects smarter by linking them to the internet. This technology frontier (IoT) with immense engineering applications is the need of today's industry and academia. This FDP served as a platform to create awareness among participants by engaging them in all aspects of IoT, including components, technologies, products, Application, consumer usage and societal impact. Day wise details of happenings reported as follows.

**Day-1:**

The FDP was inaugurated on 11<sup>th</sup> June 2019 with key note speaker Mr. Bapuji.K, C. E. O, Appleton Innovations pvt ltd., and Dr. V. Rajya Lakshmi, Professor & HOD along with Co-coordinators Dr. S. Srinivas and Mr. N.Srinivasa Naidu, delivering their speeches.



On this occasion, the Principal recounted all the previous academic events organized by the institute and the achievements of the alumni. Dr. V. Rajya Lakshmi, Professor & HOD welcomed all the dignitaries

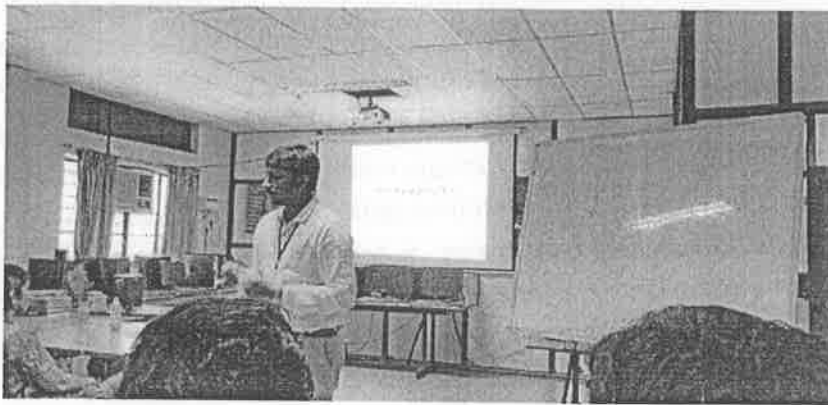
and delegates. In her welcome speech, she highlighted the importance and objectives of organizing this faculty development program. She explained how IOT is penetrating every aspect of our lives.

#### **Technical Session-1:**

**Topic: Introduction to Internet of Things**

**Resource Person: Mr. Bapuji.K, C. E. O, Appleton Innovation Pvt. Ltd.**

**Mr. Kamal Kumar Mukiri, Freelance trainer, Appleton Innovation Pvt. Ltd**



The first technical session started with formal welcome note by Dr. S. Srinivas, Associate professor, Dept. of ECE, ANITS. The resource person of this session, **Bapuji.K, C. E. O, Appleton Innovation Pvt. Ltd**, started his discussion with a detailed introduction to Internet of

Things (IoT), in which he detailed IOT Applications, IOT Network Architecture, IOT Device Architecture, IOT Communication Protocols and IOT Product Development Overview. He further introduced the participants to different peripherals like Analog Sensors: Temperature, Light Sensor, Potentiometer, Digital Sensors: Soil Moisture sensor, Motion Sensor, DHT11 sensor, Button, Digital Signals, Basic electronics: resistors, capacitors, diodes, transistors and etc., and actuators and their interfacing like Interfacing Piezo Buzzer Interfacing LED's, Interfacing RGB LED's Interfacing Relay, Interfacing Motor pump.

Mr. Kamal Kumar. M has made the participants work on Arduino platform in a very productive hands-on session.

The session ended by a formal vote of thanks by, Dr. S. Srinivas, Associate professor, Dept. of ECE, ANITS.

**Day 2:12<sup>th</sup> June 2019**

#### **Technical Session-2:**

**Topic: Wireless Communication Technologies**

**Basic networking with Node MCU**

**Resource Person: Mr. Bapuji.K, C. E. O, Appleton Innovation Pvt. Ltd.**

Dr. K. Muralikrishna, Professor, ECE, ANITS commenced the session by welcoming the resource person and delegates. After that, the resource person of this session, Mr. Bapuji. K, appraised the participants of the objective. He discussed about various topics in Wireless

#### **Technical Session-4:**

**Topic: Smart applets using IFTTT**

**Resource Person: Mr. Bapuji.K, C. E. O, Appleton Innovation Pvt. Ltd.**



On the 4<sup>th</sup> day, technical session, welcome note was presented by, Dr. B. Somasekhar, Associate Professor, ECE, ANITS. Mr. Bapuji. K, a resource person of the session, explained designing of Smart Applets using IFTTT. In this, he

showed us how to automate day to day activities through IFTTT, tweeting from an Arduino board, posting updates on Facebook, automation with IFTTT, sending push notifications, sending text message notifications and storing data on Google Drive. In the second half of the session he mentored the participants on executing projects like Panic Alarm Health product using NodeMCU with IFTTT, and Controlling Home Appliances using Bluetooth and Android application.

Dr. B. Somasekhar ended the session with, a vote of thanks to the resource person and delegates.

**Day 5:15<sup>th</sup> June 2019**

#### **Technical Session-5:**

**Topic: Security Aspects in IoT**

**Resource Person: Dr. Kodali Ravi Kishore, Associate Professor, ECE, NITW**

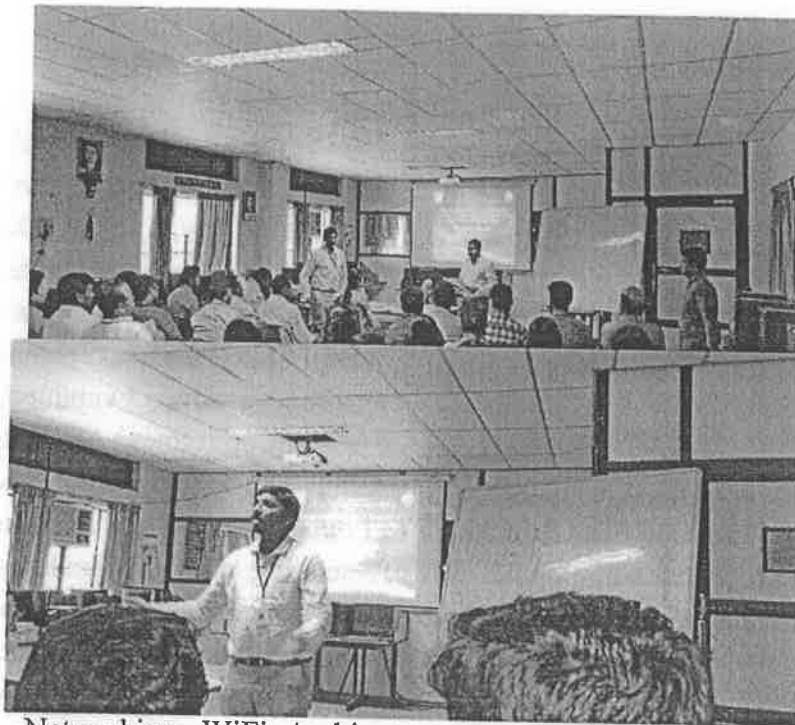


The fifth day technical session was started with a formal welcome note by Dr. P. Murugu Pandiyan, Associate Professor, ECE, ANITS. Resource person of the technical session, Dr. Kodali Ravi Kishore, emphasized on the security aspects of IoT. He narrated different possible attacks on

IoT platform and also presented some case studies.

The session ended with the vote of thanks by Dr. P. Murugu Pandiyan, Associate Professor, ECE, ANITS.

**Day 6:16<sup>th</sup> June 2019**



Communication Technologies like WiFi, Bluetooth, Ethernet, LoRaWAN, WiMAX and ZigBee. Mr. Bapuji, further trained the participants in Interfacing ESP8266 WiFi Shield, Interfacing Bluetooth Module and Interfacing Ethernet Shield using Arduino platform. He also discussed about Basic Networking with NodeMCU. He covered Hardware overview, Install ESP8266 Libraries, Controlling LED with NodeMCU, Collecting Temperature and Humidity data with NodeMCU, Basic Wireless

Networking, WiFi Architecture and networking, Creating Webpage Button, Adding up required Webpage Elements, Controlling Devices. The session ended by a formal vote of thanks by, Dr. K. Muralikrishna, Professor, ECE, ANITS.

**Day 3:13<sup>th</sup> June 2019**

**Technical Session-3:**

**Topic: Cloud Data Monitoring using Arduino**

**Resource Person: Mr. Bapuji.K, C. E. O, Appleton Innovation Pvt. Ltd.**

Dr. G. Manmadharao, Professor, ECE, ANITS, welcomed the resource person of the session on the 3rd day and then, the technical session was continued by Mr. Bapuji. K, on Cloud Data Monitoring using Arduino. In this session, the resource person threw some light and made the participants acquainted with the following; Concept & Architecture of Cloud, Role of Cloud Computing in IoT, Tools, API and Platform for integration of IoT devices with Cloud, Internet of Things platforms for Arduino, Posting the sensor data online, Retrieving your online data, Securing your online data, Monitoring sensor data from a cloud dashboard, IoT cloud platform and integration with Gateway, Working with Thingspeak platform. He further mentored the participants on the following projects, using Arduino to upload free data from Environmental Sensors to Cloud Server, Automatically Tweeting Sensor Data on Twitter, IOT Based Smart Irrigation controller and IoT based Plant Monitoring System.

At the end of the session, Dr. G. Manmadharao, Professor, ECE, ANITS, presented the vote of thanks.

**Day 4:14<sup>th</sup> June 2019**

**Technical Session-8:**

**Topic: Challenges in powering IoT devices, Research segments in IOT and VLSI**

**Resource Person: Prof. T. V. Prabhakar, Principle Research Scientist, DESE, IISc Bangalore.**

**Dr . S. Srinivas, Associate professor, Dept of ECE, ANITS**



Mr. V. Vijay Kumar Raju, Assistant Professor, ECE, ANITS, welcomed the resource person and delegates of the 8<sup>th</sup> technical session. Prof T. V. Prabhakar, resource person of the session presented to the participants, the challenges involved in power management for the IoT devices. He also explained different

sources of energy wastage like code bugs, regulators, etc., and demonstrated how energy can be harvested from them.

Dr. S. Srinivas presented different areas of research opportunities and scope in IoT and Cyber Physical Systems. He explained the role of each domain-specific engineers in the successful realization of IoT.

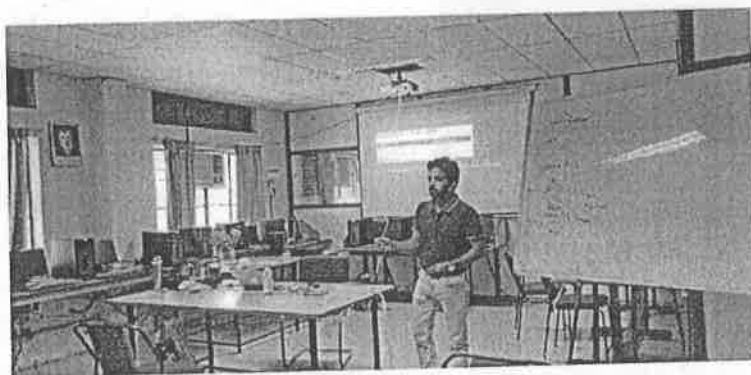
The session ended with a vote of thanks by Mr. V. Vijay Kumar Raju, Assistant Professor, ECE, ANITS.

**Day 9:19<sup>th</sup> June 2019**

**Technical Session-9:**

**Topic: Python Programming**

**Resource Person: Mr. Kamal Kumar Mukiri, Freelance trainer, Appleton Innovation Pvt. Ltd**



In the 9<sup>th</sup> technical session, a welcome note was presented by Mrs.

P. Chayadevi, Assistant Professor, ECE, ANITS. Resource person of the day Mr. Kamal, introduced Python programming to the participants. He presented the comparative study of Embedded C

vs Python. He further explained Execution Steps, Basics of Python, Understanding Python, Interpreted Languages, Variables, Keywords, Operators and Operands, Data Types in Python, Flow Control, Condition Statement, Loops, Importing Libraries, Functions, Classes, Python and Hardware Access, LED Blinking using Python Raspberry pi library, Temperature and

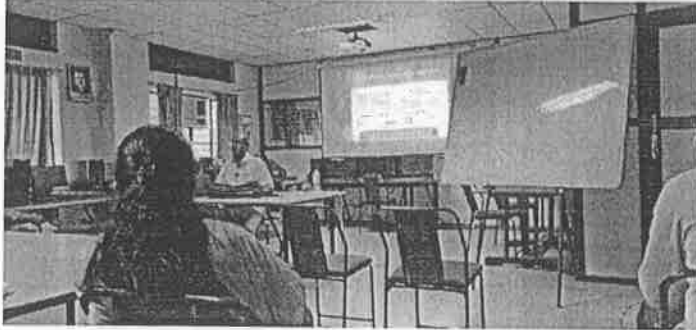
### **Technical Session-6:**

**Topic: Security Aspects in IoT**

**Resource Person: Dr. Kodali Ravi Kishore, Associate Professor, ECE, NITW**

**Mr. N. Srinivas Naidu, Assistant Professor, ECE, ANITS.**

Mr. N. Srinivas Naidu, Assistant Professor, ECE, ANITS, welcomed the resource person of the 6<sup>th</sup> session. Resource person of the technical session, Dr. Kodali Ravi Kishore, emphasized on



the security aspects of IoT. He narrated different possible attacks on IoT platform and also presented some case studies.

Mr N. Srinivas Naidu, briefed about a few data securing techniques with which the invaders and intruders can be blocked at the very beginning itself.

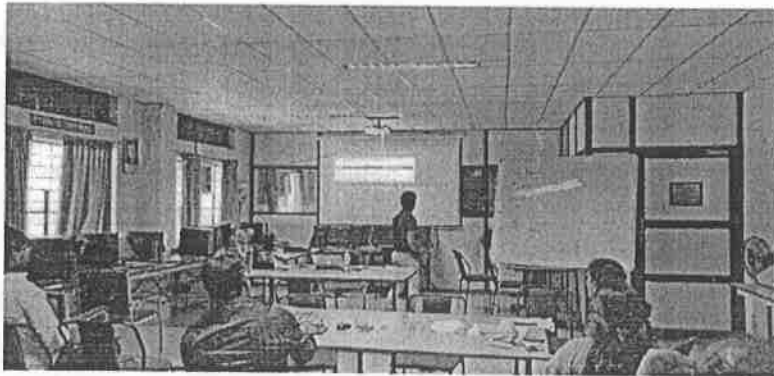
The session ended with the vote of thanks by Dr. P. Murugu Pandiyan, Associate Professor, ECE, ANITS.

**Day 7:17<sup>th</sup> June 2019**

### **Technical Session-7:**

**Topic: Working with raspberry Pi**

**Resource Person: Mr. Kamal Kumar Mukiri, Freelance trainer, Appleton Innovation Pvt. Ltd**



On the beginning of 7<sup>th</sup> technical session, a welcome note was presented by, Mrs. D. Nagamani, Assistant Professor, ECE, ANITS. Then Mr . Kamal Kumar Mukiri, as a resource person of the session, introduced the Raspberry Pi to the participants, and explained, Hardware Basics

and Architecture of Raspberry Pi, Booting the Raspberry Pi 3 and OS Options Overview. Mr. Kamal, further made the participants learn about Interfacing Hardware with the Raspberry Pi. He also discussed using Raspberry Pi as PC, Raspberry Pi Remote Access, Bash Command-line, Basics of electronic components and Interfacing LED, Buzzer, Switch, etc. He also gave Raspberry Pi LED Blink Example and Linux Overview and Device Drivers.

Ms. D. Nagamani, Assistant Professor, ECE, ANITS, ended the session by presenting the vote of thanks for the session.



and Hardware Access, LED Blinking using Python Raspberry pi library, Temperature and Humidity sensing using DHT-11 sensor, Motion detection using Raspberry pi, Sending email alerts when Motion detected using PIR sensor and Configuring web server the following during the session. He also trained the participants on projects like LED Blinking using Python Raspberry pi library, Temperature and Humidity sensing using DHT-11 sensor and Raspberry Pi, Motion detection using Raspberry pi, Sending Sensor Data to Cloud using Raspberry Pi, Sending emails through your Gmail account, Sending email alerts when Motion detected using PIR sensor and Uploading Raspberry Pi sensor data to Cloud.

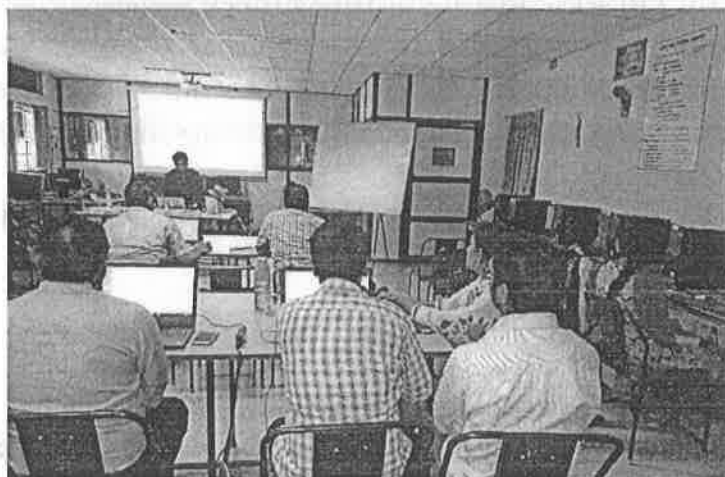
With the formal vote of thanks, Mrs. P. Chayadevi, Assistant Professor, ECE, ANITS ended the session.

**Day 10:20<sup>th</sup> June 2019**

**Technical Session-10:**

**Topic: GUI Development using Python and Tkinter, GPIO Control using Python and Flask Framework**

**Resource Person: Mr . Kamal Kumar Mukiri, Freelance trainer, Appleton Innovation Pvt. Ltd**



Mr. B. Jena, Assistant Professor, ECE, ANITS, welcomed the resource person and the delegates of the session. Resource person of the technical session, Mr . Kamal Kumar Mukiri, discussed in detail GUI Development using Python and Tkinter, Installing Tkinter, Basics of Tkinter, Home Automation GUI Application, RGB led control Application, GPIO Control using Python and Flask framework,

Intro to Flask(Python Framework), Installing Flask and Programming and Controlling LED over Internet. He also handled the project-based hands-on session where he dealt with Home Automation GUI Application using Python and Tkinter, RGB led control Application using Python and Tkinter, Flask and Python based Web Application to control GPIO over Internet and Flask and Python based Web Application to plot and analyse sensor data.

Mr. B. Jena, Assistant Professor, ECE, ANITS, delivered vote of thanks to the resource persons and all the participants.

**Day 11: 21<sup>st</sup> June 2019**

**Technical Session-11:**

**Topic: IoT using Blynk Mobile Platform Node-Red: M2M and Gateway, IoT security issues**

**Resource Person: Mr. Bapuji.K, C. E. O, Appleton Innovation Pvt. Ltd.**

**Mr. J Bhaskar, Assistant Professor, Dept of ECE, ANITS.**



In the 11th technical session, welcome note was presented by Mrs. Ch. Anoosha, Assistant Professor, ECE, ANITS.

Mr. Bapuji, as a resource person of the session, discussed about Node-Red: M2M and Gateway in which he walked us through how

to install Node-Red, Node Operations, install Dashboard Nodes, Raspberry Pi GPIO Nodes, controlling LEDs with Node-Red and Sensor data visualization on dash board. He also detailed the security aspects and explained about IoT and security, Network Security, Web scrapping, Forensics, Malware Analysis and Scapy for network security. Mr. Bapuji, further conducted the hands on sessions for the participants on different projects like, Controlling LIGHTS with Node-Red dash Board, Sensor data visualization on Node-Red dash board and SYN Flood attack using Python and Scapy.

Another resource person for the day Mr. J Bhaskar, narrated installing Blynk application, setting up Blynk project, install Blynk Library, exploring various control widgets: Button, slider, zeRGBa, and timer, Exploring various display widgets: Value display, Labelled value, Virtual LED, Widget and Gauge Widget, Notification widgets: Twitter, email, working with virtual pins, writing code and working with each widget.

With the formal vote of thanks, Mrs. Ch. Anoosha, Assistant Professor, ECE, ANITS, ended the session.

**Day 12:22<sup>nd</sup> June 2019**

**Technical Session-12:**

**Topic: Run time management for self powered-embedded multi-core systems.**

**Resource Person: Dr. Karunakar Reddy Basireddy, Principle Architect, ARM, Bangalore**



Mr. R. Chandrasekhar, Assistant Professor, ECE, ANITS, welcomed the resource person and the delegates of the session. Resource person of the technical session, Dr . Karunakar Reddy Basireddy, discussed in detail about the different runtime management schemes

deployed in embedded architectures. He also demonstrated how the power can be managed within the core of arm processors. He gave the insight of architecture level and block level optimizations for run and power management .

Mr. R. Chandrasekhar, Assistant Professor, ECE, ANITS, delivered a vote of thanks to the resource persons and all the participants.

**Day 13:23<sup>rd</sup> June 2019**

**Evaluation Session**

On 13th day of the programme, a test was conducted to check the knowledge take away of the participants. Out of the 43 participants, 37 were successful in the test. The grades were awarded based on their performance and for this evaluation was done by the program evaluation committee comprising of Prof .T. Subramanyam, Principal, ANITS, Chair Person, Dr. V. Rajya Lakshmi, HOD-ECE, ANITS, Member Secretary, Dr. Ch. Suresh, HOD-IT, ANITS, Member Dr. R. Sivaranjani, HOD-CSE, ANITS, Member and Dr. S. Srinivas, Assoc. Prof, ECE, ANITS, Subject Expert.

**Day 14:24<sup>th</sup> June 2019**

**Technical Session-13 and Valedictory:**

**Topic: An IoT based Personalized Wearable ECG Monitoring System**  
**Resource Person (Dr). V. Naresh, Principle Engineer, TSMC, Taiwan**

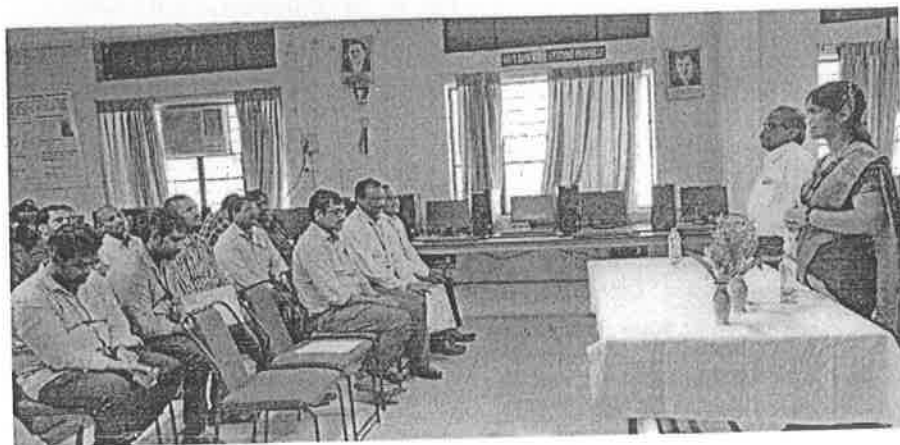


Mrs. Ch. Padmasree, welcomed the delegates and the resource person of the session on 14<sup>th</sup> day of the programme. Mr. V Naresh, the resource person, demonstrated the role of IoT in Health care and demonstrated how real time monitoring can be possible with IoT

to avoid cardiac failures. He explained to the participants how to effectively utilize the resources in IoT plat form for specific health care applications by hardware software-codesign.

**Day 14:24<sup>th</sup> June 2019**

**Valedictory:**



During the valedictory ceremony, Prof. T. Subramanyam, Principal, ANITS, and Chair Person, joined the session as a chief guest, along with Dr. V. Rajya Lakshmi, HOD-ECE, ANITS, coordinator of the Programme.

Dr. V. Rajya Lakshmi, HOD-ECE, ANITS, coordinator of the Programme, welcomed, T. Subramanyam, chief guest of the valedictory function and resource person of the session Mr. V. Naresh and all the dignitaries and delegates present during valedictory session.




On this occasion, T. Subramanyam, in his address, appreciated Dr. V. Rajya Lakshmi, Programme-coordinator, for the successful organization of the FDP. Further, he appreciated the ANITS management for promoting such development programmes for faculty members. He also motivated the


researchers and faculties about how to keep continuous interest in research. Certificates were given away to the qualified participants.




In the end, the valedictory session was concluded with a vote of thanks by Dr. V. Rajya Lakshmi, HOD-ECE, ANITS, coordinator of the Programme, in which she thanked all the dignitaries who had given their time and come from far-off


places to share their expertise with the participants.

  
 Prof. T. Subramanyam, Principal  
 Chair Person  
**Principal**  
**Anil Neerukonda Institute of**  
**Technology & Sciences**  
 Sangivalasa-531 162  
 Visakhapatnam Dist

  
 Dr. Ch. Suresh, HOD-IT  
 Member

  
 Dr. S. Srinivas, Assoc. Prof, ECE  
 (Subject Expert) Member

  
 Dr. V. Rajya Lakshmi, HOD-ECE  
 Member Secretary  
**Head of the Department**  
**Department of ECE**  
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 Sangivalasa-531 162

  
 Dr. R. Sivaranjani, HOD-CSE  
 Member



	11/6/2019	12/6/2019	13/6/2019	14/6/2019	15/6/2019	16/6/2019	17/6/2019
23	M. Nagesh Reddy	ATTIACED					
24	P. Thiruv's Kumar	ATTIATM					
25	P. Simha Kumar	A2ATTM					
26	V. Srinivas Rao	ATTIATM					
27	S. Umamaheswari Rao	ATTIATM					
28	P. Vasu Rao	ATTI					
29	T. George Kumar	VITV					
30	Dr. V. S. Chakravarthy	RT					
31	B. S. Srinivas	RT					
32	R. Shiva Srinivas	SRKR					
33	L. Srinivas	SRKR					
34	Dr. Ch. Somena	SRKR					
35	A. Menikandan	WISTM					
36	B. P. Pradeep Kumar	WISTM					
37	M. Ramamurthy	WISTM					
38	P. Srinivas	WISTM					
39	B. Satish Naidu	WISTM					
40	Ch. Mohan Krishna	WISTM					
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Handwritten notes and signatures in blue and red ink, including names like 'Srinivas', 'Kumar', and 'Rao', and dates like '11/6/2019'.



