

# DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to JNTUK, Kakinada)

**NAAC Accredited Institute**

ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

NH-16, Anakapalle – 531002, Visakhapatnam, A.P.

Phone: 9963981111, www.diet.edu.in, E-mail: [info@diet.edu.in](mailto:info@diet.edu.in)



## A Five Day Workshop on “Internet of Things”

13/09/2022 to 17/09/2022

Organized by

Department of Electronics & Communication Engineering

in association with

DIET IETE Student Forum & Krinydi Technologies, Hyderabad

The Department of Electronics and Communication Engineering (ECE) of DIET in association with DIET IETE Student Forum & Krinydi Technologies, Hyderabad has organized a five day workshop on “Internet of Things” for IV B.Tech ECE & EEE students & faculty during 13-09-2022 to 17-09-2022 . Internet of Things (IoT) is a new revolution of the Internet and a hot technology worldwide. Government, academia, and industry are involved in different aspects of research, implementation and business with IoT. IoT cuts across different application domain verticals ranging from civilian to defense sectors. These domains include agriculture, space, healthcare, manufacturing, construction, water, and mining, which are presently transitioning their legacy infrastructure to support IoT. Now a days there are many android and server based application. The main aim of this workshop is to explore the state-of- art technologies in the area of Internet of Things (IoT) through a series of lectures delivered by eminent persons working in this field and to provide some hands on experiences in setting up IoT platform with open source software's.

### 🚩 Objectives :-

- Provide introduction to Internet of Things (IoT)
- Exposure to various sub-fields and technology stacks of IoT
- Enable people to convert their IoT product idea into a working prototype
- Provide thorough working knowledge of the Raspberry Pi Platform & Node MCU
- Bring-up entrepreneurs and innovators by supporting them with investment and mentorship

### 🚩 Resource Persons :-

- Mr B. Ramesh, Application Engineer, Krinydi Technologies, Hyderabad.
- Mr Vamshi Krishna T, Sr. Product Engineer, Krinydi Technologies, Hyderabad.

#### Attendees :-

- IV B.Tech ECE Students – 63
- IV B.Tech EEE Students – 77
- Faculty – 12

#### Venue :-

- Seminar Hall – 2
- IoT Lab

#### Topics Covered :-

- Introduction to the Internet of Things
- Elements of IoT
- Bluetooth Smart Connectivity
- Solution framework for IoT applications
- Applications of IoT
- Introduction to Arduino
- Arduino Software Platform
- Interfacing sensors with Arduino
- Connecting Arduino with Bluetooth Module & WiFi Module
- Hands on practice with IoT Development Board
- Understanding and Introduction to RPi
- Raspberry pi 3 Model b+ GPIO Pins
- Programming concepts of RPi
- Raspberry pi connectors
- Applications of Raspberry pi
- Introduction to PSoC
- Specifications of PSoC 4 BLE Chip (CY8C4248LQI-BL583)
- PSoC 5LP programmer and debugger
- Placing of PSoC 4 BLE Module on Baseboard
- Debugging an application on the PSoC 4 BLE chip and perform necessary software installation.
- Introduction to Node MCU

#### Programs Performed on IoT Development Board :-

- Automatic street light control to control the street light (Turn on and off based on the light) using Arduino
- Smoke Detection using MQ-2 Gas Sensor
- Detecting obstacle with IR Sensor and Arduino
- Arduino board interfacing with the temperature and humidity sensor and prints the output on LCD / serial monitor
- Interfacing Arduino board with the Ultrasonic sound sensor and print the output on Serial monitor.
- Interface capacitor sensor (touch sensor) with smart phone and write a program to turn RGB LED ON/OFF when '1'/'0' is received from smart phone using Bluetooth.
- Interface Push button/Digital sensor (IR/LDR) with ARM keil MDK on PSoC 4 BLE chip and to turn ON LED when push button is pressed or at sensor detection.
- Set up a Bluetooth Low Energy (namely Bluetooth Smart) connection between the PSoC BLE kit and a smart phone and use an app to send and receive data to and from the BLE Pioneer kit.

#### Outcomes of the Program Workshop :-

- Current scenario/job opportunities of embedded industries.
- Understanding the skill set required in a new employee in embedded industry.
- Understanding the robotics future and scope Understanding the different microcontroller available in the industry & their use.
- In-depth knowledge on design, construction and programming concepts involved in building an autonomous robot Learn & Interact with renowned Industry Experts.
- Student came with innovative ideas and aspire to become an entrepreneurs

Poster :-

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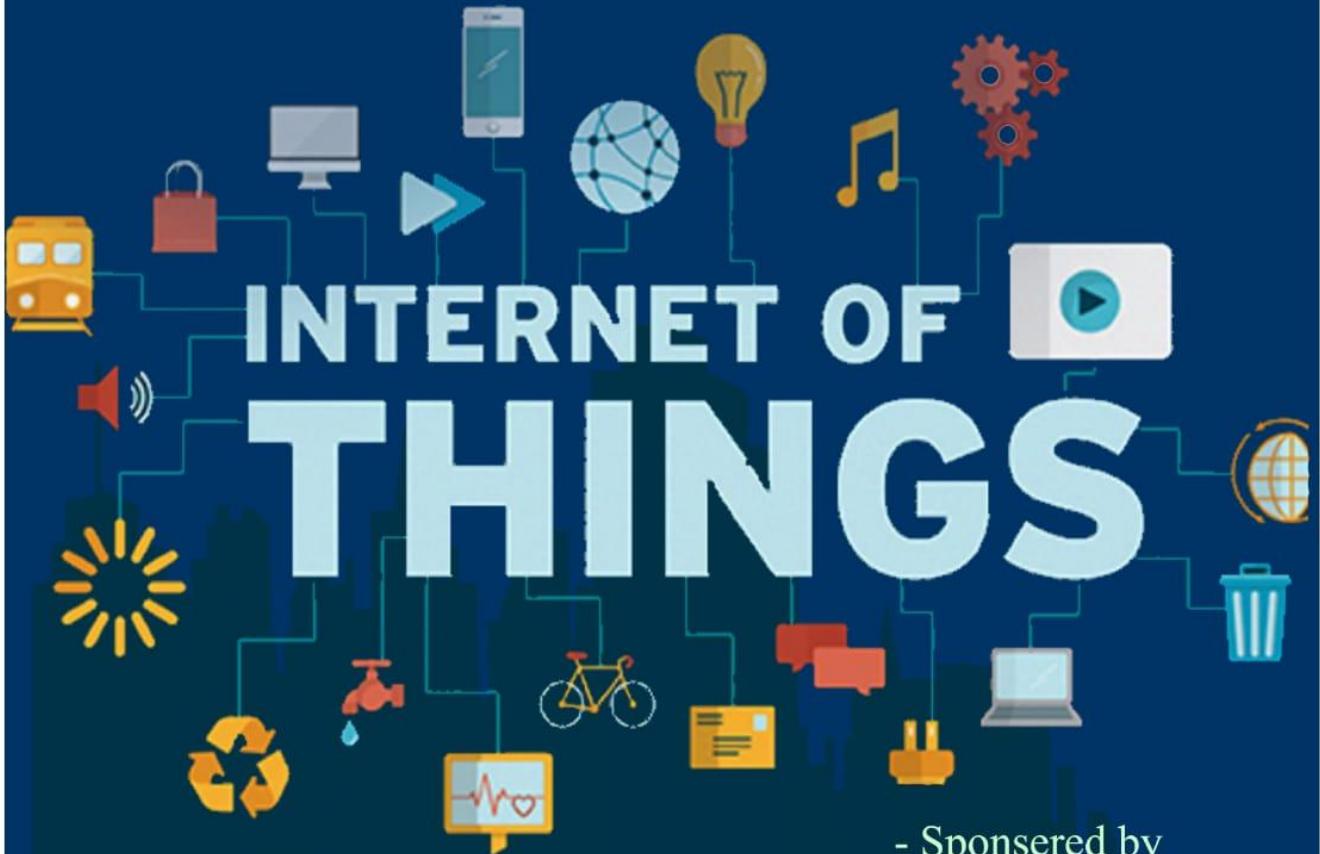
## Department of ECE

in association with

## DIET IETE STUDENT CHAPTER

Organizes

### A five Day workshop on



# INTERNET OF THINGS

- Sponsored by

## Krinydi Technologies

 **13-09-2022 to 17-09-2022**

 **9AM Onwards**

 **Seminar Hall - 2, DIET**





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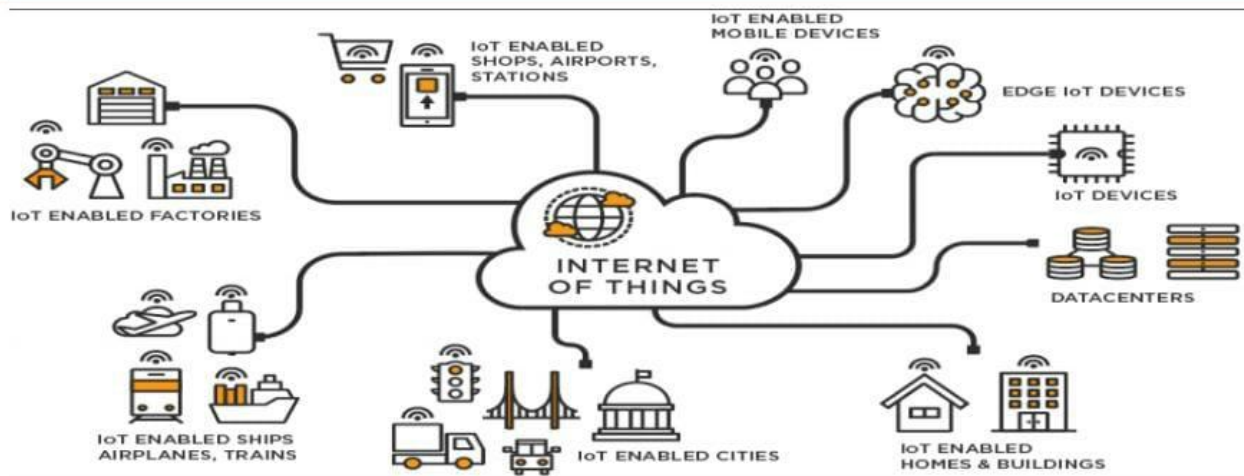
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## A Five Day Workshop on “IoT”

### Schedule - 13/9/2022 ( Tuesday )

8:30 AM - 9:30 AM	Students Registrations followed by Inaugural
09:30 AM - 09:40 AM	Welcoming Dignitaries
09:40 AM - 09:50 AM	Highlights of DIET, ECE
09:50 AM - 10:00 AM	Opening note by IETE Student Chair–Mr. M V S Snehit, IV B.Tech ECE
10:00 AM - 10:10 AM	Speech by workshop Coordinator – Er. A S N Varma, Asst Prof, ECE
10:10 AM - 10:20 AM	Speech by Deputy HOD – Mrs. D L Mythri, Asst Prof, ECE
10:20 AM - 10:30 AM	Speech by Principal– Prof. Dr. Challa Narasimham
10:30 AM - 10:40 AM	Address by Resource Person Mr Vamshi Krishna T, Sr. Product Engineer, Krinydi Technologies, Hyderabad.
10:40 AM - 10:50 AM	Address by Resource Person Mr B. Ramesh, Application Engineer, Krinydi Technologies, Hyderabad.
10:50 AM - 11:00 AM	Tea Break
11:00 AM - 12:40 PM	Session – 1 @ Seminar Hall – 2
12:40 PM - 01:30 PM	Lunch Break
01:30 PM - 04:00 PM	Session – 2 @ MPMC Lab



Welcome Banner :-

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## Department of ECE

in association with

**DIET IETE STUDENT CHAPTER**

Organizes

## A five Day workshop on INTERNET OF THINGS

Resource Persons



**Vamshi Krishna T**

Sr. Product Engineer  
Krinydi Technologies,  
Hyderabad



**B.Ramesh**

Application Engineer  
Krinydi Technologies,  
Hyderabad

**Dr.P.Poorna Priya**  
HOD, ECE

13-09-2022 to 17-09-2022

9AM Onwards

Seminar Hall - 2, DIET

**Dr.Challa Narasimham**  
Principal, DIET

Mementos to Resource Persons as token of remembrance :-

Department of ECE in association with  
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**Sri VAMSHI KRISHNA T**  
Sr. Product Engineer  
Krinydi Technologies  
Hyderabad

Department of ECE in association with  
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**Sri B.RAMESH**  
Application Engineer  
Krinydi Technologies  
Hyderabad



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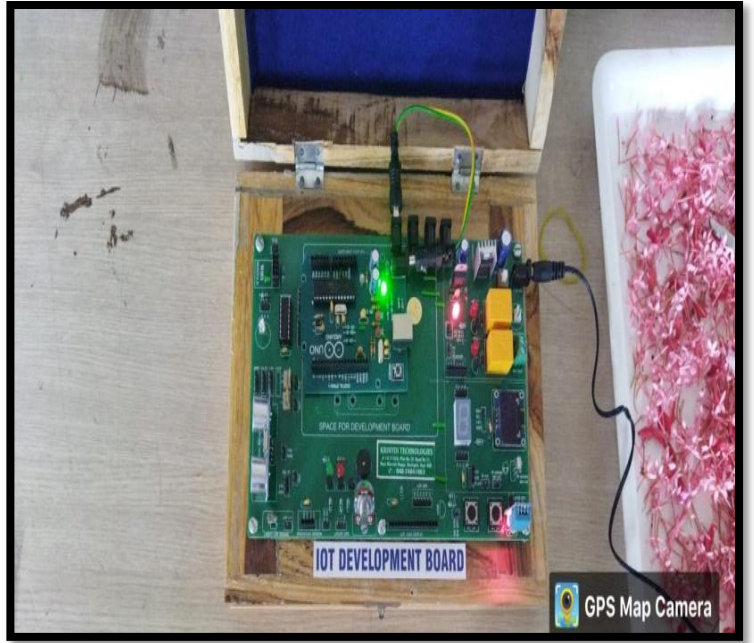
 Glimpse of Photographs :-





















✚ Press Clippings :-

**వర్క్ షాప్ లో పాల్గొన్న విద్యార్థులు**

## ఇంటర్నెట్ ఆఫ్ థింగ్స్ పై వర్క్ షాప్

**ప్రజాశక్తి-అనకాపల్లి**

స్థానిక డైట్ ఇంజనీరింగ్ కళాశాల ఈసీఈ డిపార్ట్మెంట్ ఆధ్వర్యంలో ఇంటర్నెట్ ఆఫ్ థింగ్స్ పై మంగళవారం వర్క్ షాప్ నిర్వహించారు. ముఖ్య అతిథులుగా క్రెనిడి టెక్నాలజీ సీనియర్ ప్రొడక్ట్ ఇంజనీర్ వంశీకృష్ణ, అప్లికేషన్ డెవలప్మెంట్ ఇంజనీర్ బి.రమేష్ పాల్గొని ప్రసంగించారు. ఇంటర్నెట్ మన నిత్య జీవితంలో, కార్యాలయాల్లో ఎలా ఉపయోగపడుతుందో వివరించారు. ఈ కార్యక్రమంలో కళాశాల ప్రిన్సిపాల్ డాక్టర్ చల్లా నరసింహం, వైస్ ప్రిన్సిపాల్ వైకుంఠం, కళాశాల ఈసీఈ డిప్యూటీ విభాగాధిపతి మైత్రి, వర్క్ షాప్ కోఆర్డినేటర్ సత్యనారాయణ తదితరులు పాల్గొన్నారు.





## డైట్ కళాశాలలో 'ఇంటర్నెట్ ఆఫ్ థింగ్స్" వర్క్ షాప్

 Purna 

2 hours ago

 177 వీక్షించారు

పట్టణంలోని డైట్ కళాశాలలో 'ఇంటర్నెట్ ఆఫ్ థింగ్స్" అనే అంశంపై మంగళవారం వర్క్ షాప్ జరిగింది. ఈ కార్యక్రమానికి క్రీనిడి టెక్నాలజీ సీనియర్ ప్రాజెక్ట్ ఇంజనీర్ మరియు వంశీకృష్ణ మరియు అప్లికేషన్ డెవలప్మెంట్ ఇంజనీర్ బీ రమేష్ లు హాజరై భవిష్యత్తులో ఇంటర్నెట్ రంగంలో చోటు చేసుకోబోతున్న మార్పుల గురించి వివరించారు. ఈ కార్యక్రమంలో కళాశాల ప్రెన్సిపల్, అధ్యాపకులు, విద్యార్థులు పాల్గొన్నారు.


అనకాపల్లి



## డైట్ కళాశాలలో ఇంటర్నెట్ ఆఫ్ థింగ్స్ వర్క్ షాప్

 Purna 

6 hours ago

 168 వీక్షించారు

అనకాపల్లి పట్టణము లోని డైట్ కళాశాలలో ఇంటర్నెట్ ఆఫ్ థింగ్స్ పై వర్క్ షాప్ జరిగింది. శనివారం జరిగిన ఈ కార్యక్రమం లో క్రినిడి టెక్నాలజీ సీనియర్ ప్రొడక్ట్స్ ఇంజనీర్ టి. వంశీకృష్ణ, కళాశాల అధ్యాపకులు, విద్యార్థులు పాల్గొన్నారు.


అనకాపల్లి



**Feedback :-**

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Department of Electronics & Communication Engineering FEEDBACK FORM A Five Day Workshop on "Internet of Things" 13/09/2022 TO 17/09/2022		Department of Electronics & Communication Engineering FEEDBACK FORM A Five Day Workshop on "Internet of Things" 13/09/2022 TO 17/09/2022	
1. Workshop was relevant to my needs <input checked="" type="checkbox"/> Strongly agree <input type="checkbox"/> Agree <input type="checkbox"/> Neutral <input type="checkbox"/> Disagree <input type="checkbox"/> Strongly disagree	2. Instructions were clear and understandable <input type="checkbox"/> Strongly agree <input checked="" type="checkbox"/> Agree <input type="checkbox"/> Neutral <input type="checkbox"/> Disagree <input type="checkbox"/> Strongly disagree	1. Workshop was relevant to my needs <input type="checkbox"/> Strongly agree <input checked="" type="checkbox"/> Agree <input type="checkbox"/> Neutral <input type="checkbox"/> Disagree <input type="checkbox"/> Strongly disagree	2. Instructions were clear and understandable <input checked="" type="checkbox"/> Strongly agree <input type="checkbox"/> Agree <input type="checkbox"/> Neutral <input type="checkbox"/> Disagree <input type="checkbox"/> Strongly disagree
3. Was the Duration of the training sufficient. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4. Has the Workshop attained its objectives <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3. Was the Duration of the training sufficient. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4. Has the Workshop attained its objectives <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Content was well organized <input checked="" type="checkbox"/> Strongly agree <input type="checkbox"/> Agree <input type="checkbox"/> Neutral <input type="checkbox"/> Disagree <input type="checkbox"/> Strongly disagree	6. Resource persons were effective. <input checked="" type="checkbox"/> Strongly agree <input type="checkbox"/> Agree <input type="checkbox"/> Neutral <input type="checkbox"/> Disagree <input type="checkbox"/> Strongly disagree	5. Content was well organized <input checked="" type="checkbox"/> Strongly agree <input type="checkbox"/> Agree <input type="checkbox"/> Neutral <input type="checkbox"/> Disagree <input type="checkbox"/> Strongly disagree	6. Resource persons were effective. <input checked="" type="checkbox"/> Strongly agree <input type="checkbox"/> Agree <input type="checkbox"/> Neutral <input type="checkbox"/> Disagree <input type="checkbox"/> Strongly disagree
7. Queries were encouraged <input checked="" type="checkbox"/> Strongly agree <input type="checkbox"/> Agree <input type="checkbox"/> Neutral <input type="checkbox"/> Disagree <input type="checkbox"/> Strongly disagree	8. Overall how would you rate this event <input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Very good <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	7. Queries were encouraged <input type="checkbox"/> Strongly agree <input checked="" type="checkbox"/> Agree <input type="checkbox"/> Neutral <input type="checkbox"/> Disagree <input type="checkbox"/> Strongly disagree	8. Overall how would you rate this event <input checked="" type="checkbox"/> Excellent <input type="checkbox"/> Very good <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor
9. Any additional remarks <div style="border: 1px solid black; padding: 5px; width: fit-content;">need more hard on time practice.</div>	10. Propose the name of training program you will be interested in participating in future. <div style="border: 1px solid black; padding: 5px; width: fit-content;">Embedded systems workshop.</div> <i>Devi Dya</i>	9. Any additional remarks <div style="border: 1px solid black; padding: 5px; width: fit-content;">No Remarks</div>	10. Propose the name of training program you will be interested in participating in future. <div style="border: 1px solid black; padding: 5px; width: fit-content;">Embedded Systems</div> <i>P. Shavani</i>

**Sample Certificate :-**



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### Certificate of Participation

This is to certify that Ms/Mr \_\_\_\_\_  
bearing H.T No \_\_\_\_\_ has participated in "A Five Day  
Workshop on Internet Of Things" organised by the Department of ECE  
in association with DIET IETE student chapter & Krinydi Technologies  
Hyderabad from 13-09-2022 to 17-09-2022 .

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Co-ordinator

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HoD

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Principal