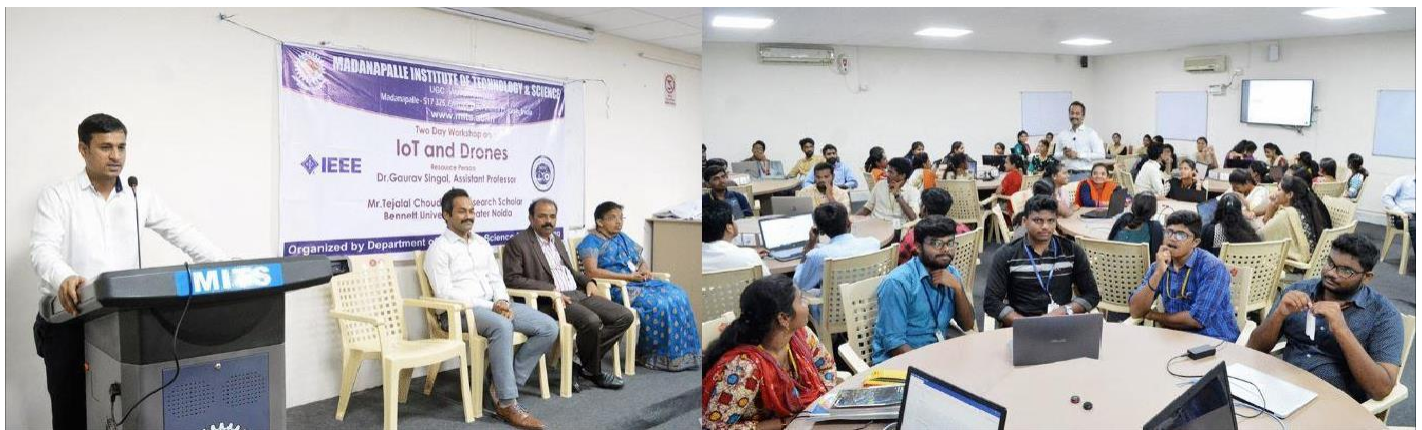


MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE (UGC - AUTONOMOUS)

Report on

A Two-day Workshop on IoT and Drones

20 - 21 April 2019



Submitted by: Dr Y C A Padmanabha Reddy, Assistant Professor, Dept. of CSE.

Dates: 20-21, April 2019

Venue: Scale-up Classroom (East Block)

Audience: II & III B. Tech Students

Resource Persons:

1. Dr Gaurav Singal, Assistant Professor in CSE Dept., Bennett University, Greater Noida
2. Mr Tejalal Choudary, Research Scholar, Bennett University, Greater Noida.

Entrepreneurship Development Cell is organized workshop on IoT and Drones association with Department of Computer Science Engineering from 20 to 21 April 2019 as MITS having MoU Bennet University under the program leadingindia.ai. The inaugural session was started by 10 am and Principal Dr C Yuvaraj addressed the students. He advised the students to make use of this two-day workshop to grab the opportunities and advised our students to upgrade skills in the current technologies such as AI, Machine learning, IoT Big Data, Cloud computing etc. The HoD of CSE Dr Kalpana explained about the MOU with Bennet University as a Lead Collaborator and also stated about the activities performed under it.

The resource persons Dr Gaurav singal explained about the importance of IoT and its applications and Mr Tejalal Choudary adviced students to form teams with size 3 for effective hands-on session.

It was a hand-on workshop in which the theoretical and practical concepts were covered. They divided 60 students in to 20 batches. The outcome of the workshop is to make the students help identify their mini-projects. The workshop was attended by 60 students and 6 faculty members from AI-team.

The first day of the workshop focused on teaching fundamentals of IoT with a practical exposure by using Arduino kits. Topics covered in each session are as follows: -

(Day-1) Session1(10:30 to 1:00 pm): -

- Introduction to IoT
- IoT Evolution
- Applications of IoT
- Working of IoT
- Implementations
- Sample Source codes

Session1(1:30 to 5:00 pm): -

- Introduction to Arduino
- Arduino types
- Arduino mega 2560
- Experiments on Arduino
- Sample Codes Execution
- Hands-on experience with single & Multiple LED Blinking
- Sensors and their types

The Second day of the workshop focused on the applications of IoT and Drones.

Day-2) Session1(09:30 to 1:00 pm): -

- Introduction to Raspberry PI
- Practice on some sample programs
- Object Motion Detection
- Introduction to Drones
- Types of Drones
- Materials Used for Drones
- Gestures and Tracking Application.

Day-2) Session1(01:30 to 4:00 pm): -

- Demonstration of Drone in front of East Block
- Taken photos through drone
- Clarification of doubts for students about Drones
- Problem identification from each team
- Online feedback taken
- Discussion about the problems identified by students.

An online test was conducted on the second day that covered the concepts dealt in two days. Digital certificates were issued based on the performances of the participants.

Finally, the session ended with vote of thanks by Dr. Mohan Krishna Verma. We thank the management for the making session viable which helped the students in understanding fundamentals of IoT with a practical exposure by using Arduino kits and on the applications of IoT and Drones.

Press Release

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డ్రోన్ టెక్నాలజీపై పరిశోధనలు చేయండి

కురబలకోట, న్యూస్టుడే: డ్రోన్ టెక్నాలజీపై పరిశోధనలు చేయాలని చెన్నైకి యూనివర్సిటీ (గ్రేటర్ నెయిడ) ప్రొఫెసర్ గౌరవ్ సింఘాల్ స్పష్టం చేశారు. మిట్స్ కళాశాల సీఎస్ఈ విభాగం ద్వితీయ, తృతీయ సంవత్సరం విద్యార్థులకు మంగళవారం ఆవగాహన కార్యక్రమం అరిగింది. ఐఐఐటీ, డ్రోన్ టెక్నాలజీలపై నిర్వహించిన కార్యక్రమానికి డాక్టర్ గౌరవ్ సింఘాల్, డాక్టర్ తేజ్ లాల్ చౌదరి రిపోర్టు పర్చసల్లుగా వ్యవహరించారు. ఈ సందర్భంగా సింఘాల్ మాట్లాడుతూ హాంకాంగ్ లో అప్లికేషన్స్ లో ఐఐఐటీ పరిజ్ఞానం దోహదం చేస్తోందన్నారు. ఈ పరిజ్ఞానంతో రిమోట్ సెన్సార్ల ద్వారా ప్లాన్, ఏస్, డీపీ తదితర అన్విలకల ఎలక్ట్రోనిక్, ఎలక్ట్రానిక్స్ వస్తువులను ఆపరేట్ చేయవచ్చన్నారు. ప్రస్తుత కాలంలో దీని ప్రాధాన్యం అధికంగా ఉందన్నారు. వ్యవసాయం, బ్యాంకింగ్, రక్షణ, పారిశ్రామిక రంగాల్లో డ్రోన్ పరిజ్ఞానం కీలకపాత్ర పోషిస్తుందన్నారు. డ్రోన్ల ద్వారా

కార్యక్రమంలో మాట్లాడుతున్న గౌరవ్ సింఘాల్

వ్యవసాయంలో వచ్చే మార్పులు, చీడపీడలు తదితర వాటిని ఎప్పుడెప్పుడు తెలుసుకునే సౌలభ్యం ఉండవచ్చన్నారు. ఆధునిక టెక్నాలజీలపై ఇంజనీరింగ్ యువత దృష్టి సారించాలన్నారు. కార్యక్రమంలో ప్రెస్మీపల్ డాక్టర్ యువరాజ్, విభాగాధిపతిని డాక్టర్ కల్పన, అధ్యాపకులు పాల్గొన్నారు.

Date : 01/05/2019 EditionName : ANDHRA PRADESH(CHITTOOR, THAMBALLAPALLE) PageNo : Page 02

TITLE: DO RESERACH USING DRONE TECHNOLOGY AND IoT

Content:

Department of Computer Science Engineering along with ED cell conducted a two day hands-on workshop on IoT and Drone technology. Dr. Kalpana, HoD CSE, organised this workshop to benefit the MITS students and faculty members who are interested in IoT and Drone technology. Resources persons from Bennett University Dr. Gaurav and Mr. Tejal gave a mind proviking talk and hands- on session on IoT and Drone technologies. Dr. Gaurav explained the need of the hour on these technologies and how they can be implemented in various fields of research including agriculture. The have provided training on fast coding of IoT devices and complete use of those devices on drone technology. The two day session was chaired by Prof. C. Yuvaraj, Principal MITS and Dr. Mohan Krishna verma of CSE concluded the session with closing remarks.