About JNTUACEA:

JNTUA College of Engineering, Anantapur stands aloft on a solid foundation of past glory and prestige. This college was started in the year 1946, under the post war reconstruction program and functioned at Guindy campus, Madras for two years and was shifted to Anantapur in 1948. It was in the year 1958 that the college was shifted to the present permanent buildings accommodating the Administrative block, Laboratories, the Engineering Departments, Library and the Hostel blocks.

About University College of Engineering & Technology, Bikaner:

Judging by the date of establishing year, CET is relatively a new arrival in the arena of technical institutions. It was established in 2007, as an autonomous body of Govt. of Rajasthan, amidst the brown blooms of desert island, Bikaner. It has made its mark by inspiring quality education. Total intake of College is 420 students in branches (CSE, ECE, EE, ME, CE, CRE) of Engineering and 60 students in MBA per year. Institute has become the Constituent College of Bikaner Technical University in 2018.

About Workshop:

Internet of things refers to a network of things that are connected. A thing in the internet of things can be many different types of things. It can be smartphones, tablets or sensors, but we should not limit ourselves to simply phones and tablets because with the development of the internet and telecommunication technologies in general, the types and numbers of different devices which are capable of communicating and connecting with each other are constantly growing. These devices are playing an increasingly important role in various areas such as automatic controls, logistics and robotics.

Our Mission

To achieve the goals by continuously upgrading the curriculum catering to the societal needs and industrial requirements, by conducting research in intra, inter, multi and trans-disciplinary areas, and by imparting quality education for enhancing knowledge, employability skills and entrepreneurship capabilities through start-up environment

Our Vison

To be a world-class Technological University to excel in teaching, innovative research and consultancy in the disciplines of Engineering, Science & Technology, Pharmaceutical Science and Management thereby empowering the stakeholders to compete globally

Objectives

- Understanding the rudiments of IoT
- Familiarise coding structures in python programming
- Understanding NodeMCU
- Controlling the Device through Cloud
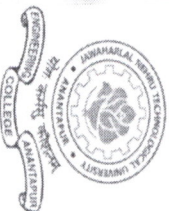- Creating a Channel in IoT Data Cluster

Two –Day Workshop
On
Internet of Things & Its
Applications
26th- 27th August, 2019

Under
TEQIP III
Twinning Programme

Department of Electronics and Communication Engineering
JNTUA College of Engineering Anantapur
(Autonomous)
Ananthapuramu
AP. INDIA-515002

University College Of Engineering& Technology, Bikaner
(Constituent College of Bikaner Technical University)

Venue
Department of Electronics and Communication Engineering
University College of Engineering& Technology, Bikaner
Rajasthan

Registration Form

Two Day Workshop under Twinning Program
On
Internet of Things
26th -27th August, 2019
(Sponsored by TEQIP-III)

Name:

Organization:

Mobile No:

Are you a JNTUA student?

☐ Yes ☐ No

Are you a UCET Bikaner student?

☐ Yes ☐ No

Email-id:

Accommodation required?

☐ Yes ☐ No

Signature of Participant   Signature of Principal

Note:

1. No registration Fee

Topics of the Workshop:

Day 1:

- Introduction to IoT architecture and building blocks with examples
- Introduction to the basics of python programming
- Getting started with Node MCU and programming it with python
- Interfacing components like sensors, buttons.

Day 2:

- Creating an account in cloud and uploading data to it.
- Interfacing Node MCU to the cloud with API requests.
- Intro to IFTTT Cloud and Google Assistant Control
- Device Communication MQTT Protocol.

Target Audience:

All the UG students studying in the ECE and CSE branches of JNTUACEA and UCET Bikaner.

Important Date:

Scanned copy of Registration form along with principal attestation to be sent to gmamatha.ece@jntua.ac.in on or before 23rd August 2019

Convenor

Dr.Sundar Lal Sharma,
Assistant Professor,
Department of ECE,
University College of Engineering and Technology,
Bikaner.
Rajasthan.

Resource Persons:

- Mr.Madhu P, ORL Industries.
- Dr S Chandra Mohan Reddy
- Dr D. Vishnuvardhan
- Dr G. Mamatha

Coordinators

Dr. D. Vishnuvardhan
Assistant Professor,
Dept. of ECE, JNTUACEA
Ph.No. 9440221392
vishnu.ece@jntua.aca.in

Dr. G. Mamatha
Assistant Professor,
Dept. of ECE, JNTUACEA
Ph No. 9490446399
mamathasashi@gmail.com

PROCEEDINGS OF THE PRINCIPAL, JNTUA COLLEGE OF ENGINEERING ANANTHAPURAMU (AUTONOMOUS):: JNTUACEA ANANTHAPURAMU
PRESENT: Prof. K. GOVINDA RAJULU: PRINCIPAL

TEQIP-III

Procs. No. TEQIP-III/NPIU/Academics/1.3-2(vii)/60/2019-20   Date 05-09-2019

Sub: JNTUACEA - TEQIP-III - Academics – Permission to attend as a Resource Person in connection with Two day Workshop on "IOT and its Real Time Applications" at UCET, Bikaner during 5-6 September 2019 – Orders - Issued.

Ref: Letter dt: 30-08- 2019 from Dr. S.Chandra Mohan Reddy, Assoct.Prof. Dept. of ECE, JNTUACEA.

***

Dr. S.Chandra Mohan Reddy, Assoct.Prof., Dept. of ECE, JNTUACEA submitted a letter requesting the Principal for permission to attend as a Resource Person in connection with Two day Workshop on "IOT and its Real Time Applications" at UCET, Bikaner during 5-6 September 2019 and requested to meet the expenditure from TEQIP-III funds.

Title of the Programme	IOT and its Real Time Applications
Conducted at	UCET, Bikaner
Dates of Workshop	05-09-2019 to 06-09-2019
Resource Person	S.Chandra Mohan Reddy, Assoct.Prof., Dept. of ECE

The requisition submitted is approved and the Principal is pleased to accord permission to Dr. S.Chandra Mohan Reddy, Assoct.Prof., Dept. of ECE, JNTUACEA to attend as a Resource Person the above said programme on the date(s) noted. The expenditure will be met from TEQIP-III funds under Academics SC 1.3-2(vii) head of account.

It is requested to follow the rules and regulations in incurring the expenditure and requested to submit the vouchers in original as per the guidelines provided by NPIU. And also requested to submit Photographs, certificates as per TEQIP-III norms in Performa provided

PRINCIPAL

PRINCIPAL
J.N.T.U.A College of Engineer
(Autonomous)
ANANTHAPURAMU-515...
A.P. INDIA.

To
Copy to Dr. S.Chandra Mohan Reddy, Assoct.Prof., Dept. of ECE
Copy to Prof. M. L.S. Deva Kumar, Nodal Officer (A) (TEQIP-III)
Copy to Dr.A P. Siva Kumar, TEQIP-III Co-ordinator & Nodal Officer (P)
Copy to Dr.K. Jithendra Gowd, Nodal Officer (F) & TEQIP MIS officer
Copy to Bills

REGISTRAR
J.N.T.U. Anantapur
ANANTAPURAMU-515002

Scanned by CamScanner

A Two Day Workshop on
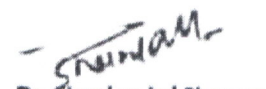
"Internet of Things & Its Real Time Applications"

Organized by

Department of E.C.E, JNTUA CEA (Autonomous), Ananthapuramu, A.P.

&

Department of E.C.E, University College of Engineering & Technology, Bikaner, Rajasthan

under TEQIP-III Twinning Programme during 5th - 6th September, 2019

Detailed Programme Schedule:

Day/Date	Time	Programme
Thursday 05-09-19	09:00 - 09:30	Inauguration of the Programme
	09:30 - 11:00	Introduction to Microcontrollers and its importance in IoT by Dr. S. Chandramohan Reddy , Assoc. Prof. of ECE, JNTUACEA
	11:00 - 11:15	TEA BREAK
	11:15 - 12:45	Basics of IOT+ Different types of applications in IOT by Mr. M. Bhargav, WnP Technologies, Hyderabad
	12:45 - 13:30	LUNCH BREAK
	13:30 - 15:00	Introduction to ESP8266 (Wi-Fi Module) by Mr. R. Durga Prasad, WnP Technologies, Hyderabad
	15:00 - 15:15	TEA BREAK
	15:15 - 16:45	Introduction to Node MCU by Dr. D. Vishnu Vardhan, Asst. Prof. of ECE, JNTUACEA
	16:45 - 18:15	Tools required for programming the Node MCU module by Dr. G. Mamatha, Asst. Prof. of ECE, JNTUACEA
Friday 06-09-19	09:00 - 10:30	Arranging the setup for conducting demo using Node MCU by Mr. M. Bhargav, WnP Technologies, Hyderabad
	10:30 - 10:45	TEA BREAK
	10:45 – 12:15	Writing program for Node MCU and flashing the code by Dr. S. Chandramohan Reddy , Assoc. Prof. of ECE, JNTUACEA
	12:15 - 13:15	Programming concepts to interface Node MCU with peripheral devices by Dr. D. Vishnu Vardhan, Asst. Prof. of ECE, JNTUACEA
	13:15 – 14:00	LUNCH BREAK
	14:00 - 15:30	Project Implementation – Node MCU with LED's, Stepper Motor, Street lights, Wi-Fi module by Mr. R. Durga Prasad, WnP Technologies, Hyderabad
	15:30 - 15:45	TEA BREAK
	15:45 - 16:45	Conducting competition to students by Dr. G. Mamatha, Asst. Prof. of ECE, JNTUACEA
	16:45 - 17:00	Concluding for the day and clarification of doubts or queries by Subject and Industry experts
	17:00 - 17:30	Feedback from the participants and Certificate distribution

Dr. G.Mamatha
(Co-ordinator)

Dr. D.Vishnu Vardhan
(Co-ordinator)

Dr. Shankar Lal Sharma
(Convener)

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ANANTAPURAMU-515002

TEQIP – III

Technical Education Quality Improvement Programme

JNTUA College of Engineering Anantapur (Autonomous)
Ananthapuramu – 515002, Andhra Pradesh

&

University College of Engineering & Technology,
Bikaner – 334 004, Rajasthan

Participation Certificate

This is to certify that Mr. / Ms. _____Ashish Kumar Ojha_____ of

_____ECE UCET, Bikaner_____ has participated

in TEQP-III sponsored a Two day Workshop on "*Internet of Things & Its Real Time Applications*"
during 5th - 6th September, 2019 organised by JNTUA College of Engineering Anantapur,
Ananthapuramu under Twinning Programme.

Dr. Samatha
Coordinatior,
JNTUACEA, Ananthapuramu

Dr. D. Vishnuvardhan
Coordinatior,
JNTUACEA, Ananthapuramu

Dr. Shankar Lal Sharma
Convener,
UCET, Bikaner

Dr. S. K. Bansal
Principal,
UCET, Bikaner

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ANANTAPURAMU-515002

Two –Day Workshop On Internet of Things & Its Applications
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JNTUA College of Engineering Anantapur
&
University College Of Engineering& Technology, Bikaner
(Constituent College of Bikaner Technical University)

Report

Day 1 (26/08/2019):

On 26th of August, the event began with the inaugural function at University College of Engineering& Technology, Bikaner. The innovations, creativity and ability of students were driven out by the motivational address by the guests from JNTUA CEA and UCET Bikaner.

After Inaugural Orange research lab experts took the session to give a brief about IoT and its real time applications. This program was done in association with the WnP manufacturing Private Limited. Experts from WnP has shared about Introduction to the basics of python programming, Getting started with Node MCU and programming it with python and Interfacing components like sensors, buttons.

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ANANTAPURAMU-515002

Day 2 (27/08/2019):

Industrial experts from wnp was focused on practical aspects of IOT. Students got opportunity to work on Creating an account in cloud and uploading data to it, Interfacing Node MCU to the cloud with API requests, Intro to IFTTT Cloud and Google Assistant Control and Device Communication MQTT Protocol.

The workshop received positive feedback from students. Participants praised the event for its practical approach and the opportunity to interact with industry experts.