

ABOUT INSTITUTION:

Global Institute of Engineering and Technology, Hyderabad, Telangana is affiliated to JNTUH & approved by AICTE. GIET was established in the year 2006 with a vision To produce technologically skilled Engineers of world class competency to address global challenges. GIET nurtures and supports a unique system of education structure on values and combines the tenets of the academic excellence with corporate professionalism. The primary objective at Global Institute of Engineering and Technology is to impart quality education which leads to quality living. Located at Moimabad, the sprawling campus spread over 28 acres of lush greenery creates the most conducive environment for education. GIET offers undergraduate programmes in ECE, EEE, CSE, CE, ME, CSE(AIML), CSE(DS)* and postgraduate programmes Embedded Systems & Structural Engineering.

The system of education at Global Institute of Engineering & Technology grows the students to rise into professionals and leaders of high academic caliber with unblemished character. Dedicated, experienced and qualified faculty help in honing the skills of students at early level of their learning.

ABOUT THE ECE DEPARTMENT:

The Department has good infrastructural facilities and is equipped with full-fledged laboratories. The Department also has audio-visual teaching aids with LCD for effective teaching. Keeping pace with the Global Trends GIET has established advanced labs in Digital Electronics, Mobile Communication, Embedded Systems, VLSI Design, Microwave Engineering etc. Main thrust of ECE Department is to provide better quality education required by the present industry and train the students in new technologies to equip them to cater to the present global requirements. The Department is offering M.Tech in Embedded Systems.

*Waiting for approval from JNTU

ABOUT THE CERTIFICATE COURSE:

This course elucidates concepts related to Internet of Things. The students will get hands on experience in working with Raspberry Pi and exploring IoT. Internet of Things (IoT) is presently 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 defence sectors.

Speakers:

- Mr. G. Ahmed Zeeshan Assistant Professor & Head, Dept. of ECE, GIET.
- Dr. Padam Priyal, Professor, Dept. of ECE, GIET.
- Mrs. Nuzath Ummisa Begum Asst Prof. & Assoc Head ECE
- Dr. Syed Abdul Sattar Professor, Dept of ECE, NSAKCET.
- Mrs Neha Ullal, Technical Lead, Capricot Technologies, Hyderabad.
- Mr. Satish Sahiti, Technical Engineer, Capricot Technologies Pvt. Ltd, Hyderabad

TOPICS TO BE COVERED:

- Introduction to IoT
- Basics of Networking
- Communication Protocols
- Interoperability in IoT
- Introduction to Python programming
- Introduction to Raspberry Pi
- Implementation of IoT with Raspberry Pi

Below are the means to help you with your self-reflection, self-verification:

1. Attendance: This Certificate Course is like a sentence spoken over 6 days. with Hands on. Participation in all sessions is desirable to get all the proposals being put forth.
2. Assignments: There will be session wise assignment which need to be submitted.
3. Course Outcome Evaluation: Exam Will Be Conducted On last of Course For Which You Need To Get 80% In Order To Receive Certificate.
4. Feedback

ORGANIZING COMMITTEE:

Chief Patron:

Mr.KM Arifuddin

Secretary MEWS

Patron:

1. Mr. K M Fasihuddin,

Director GPC

Co-Patrons:

1. Prof. Ravindra Tiwari,

Dean GPC

2. Prof. K Sivalingam,

Principal GIET

Organizing Secretary:

Mr.G.Ahmed Zeeshan

BE., M.Tech., (Ph.D.), LMISTE

Head ECE & Vice Principal

Convener:

1. Mr. Md Allaf Ur Rahman

Asst. Prof. Dept of ECE

2. Dr. Ch. Venkateswara Rao

Prof. Dept of ECE

3. Mrs. Nuzath Unnisa Begum

Asst.Prof, Dept of ECE

4. Mr.D.Kamalakar Reddy

Asst.Prof, Dept of ECE

5. Mr. Faizur Rahman Babul

Asst.Prof, Dept of ECE

6. Ms. Imrose Basha

Asst.Prof, Dept of ECE

7. Mr. Shabnam Kaleem

Asst.Prof, Dept of ECE

8. Ms. M Sai Chandana

Asst.Prof, Dept of ECE

9. Mrs Ishrath Unisa

Asst.Prof, Dept of ECE

10. Ms. Sana Fatima

Asst.Prof, Dept of ECE

11. Ms. Inkehsaf Unnisa

Asst.Prof, Dept of ECE

12. Ms. Shaik Asra Tabassum

Asst.Prof, Dept of ECE

13. Mrs. P Udayasree

Asst.Prof, Dept of ECE

14. Mr. S. Ravi

Asst.Prof, Dept of ECE

How to Apply:

Interested students are required to fill Registration Form given and Submit to the Coordinator.

Registration should be done between

13/09/2019 to 29/09/2019

Limited Registrations. First Come First Serve

WHO SHOULD ATTEND?

The Course is designed for B.Tech students of ECE

For any query regarding this programme, please contact

Mr. Md Allaf ur Rahman,

Convener

Assistant Professor, Dept. of ECE

GIET, Hyderabad

Mobile: +91 7207941916

Email: alafrahman76@gmail.com

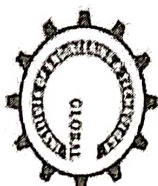
COORDINATOR:

Mr.D. Kamalakar Reddy

Asst. Prof,Dept of ECE

Mobile:8639864291

GLOBAL INSTITUTE OF ENGINEERING & TECHNOLOGY



A Certificate Course

On

“Internet of Things”

(14th -19th October, 2019)



Organized by

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

GLOBAL INSTITUTE OF ENGINEERING

& TECHNOLOGY

(A NAAC Accredited Institution, Approved by

AICTE & Affiliated to JNTUH)

Recognized under section 2(f) of UGC Act 1956

An ISO 9001:2015 Certified Institution

Chilkar (V), Moinabad (M), RR Dist - TS

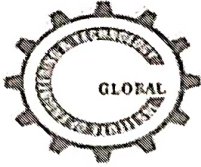
Phone No: +91-9985-359-601

+91-879-010-1015 +91 +91 99592 50205

E-mail: principal.giet.ug6@gmail.com

gieteng@gmail.com

Website: www.globalhyd.edu.in



GLOBAL Institute of Engineering & Technology

(Approved by AICTE & Affiliated to JNTUH)

Survey No. 179, Chillkur (V), Moinabad (M), Ranga Reddy Dist. TS.

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JNTUH Code(U6) CIVIL - CSE - MECH - ECE - EEE - MBA - MTech, EAMCET Code- GLOB

Department of Electronics and Communication Engineering

G Ahmed Zeeshan

BE.,M.Tech.,MBA.,(Ph.D)

MISTE.,MISOI.,MIEEEE(USA)

Assistant Professor & Head

Lr.No: ECE/B.Tech/SA/ CC-IoT /2019-001

Date 09/09/2019

To

The Principal
GIET

Sir,

Sub: Hosting a One Week Certificate Course on **Internet of Things** – Reg.

The Department of Electronics and Communication Engineering is planning to host a **One Week Certificate Course on Internet of Things** from 14/10/2019 to 19/10/2019 in Room No. 04. I would like to request for your permission and support to conduct the Course. It will be ensured that information delivered to students is standardized.

The objectives of the course are to enable the participating students to understand the concept of **Internet of Things** and its applications. It is therefore important for students to have a deep understanding of concept, to determine the objective, to decide on a key project and to enhance knowledge. This Certificate Course will be very key as it will bring new ideas for the projects of students of the Department.

Kindly accord approval so as to make necessary arrangements for hosting a One Week Certificate Course on **Internet of Things**.

Thanking you.

Zeesh

HEAD

K. S. V.



GLOBAL Institute of Engineering & Technology

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Phone: 8790101015 / 9959250205

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JNTUH Code (U6) CIVIL - CDR - MECH - ECE - BBA - MBA - M.Tech. EAMCET Code- GLOB

Department of Electronics and Communication Engineering

Date: 13/09/2019

CIRCULAR

All the students of department of ECE are informed to express their interest by enrolling their name for the One week Certificate course on “**Internet of Things**” starting from 14/10/2019 to 19/10/2019 .

The detailed syllabus for the course is attached for your information and the enrolled students will be certified accordingly based upon the test conducted at the end of the course.

Concerned class in charges is instructed to submit the list of students enrolled within two days to the undersigned. For further information, you can contact the Course Coordinator Mr. D Kamalakar Reddy or the Head of the Department.

HOD ECE



GLOBAL Institute of Engineering & Technology

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SURVEY NO 179, CHILKUR(V), MOINABAD(M), RANGAREDDY DIST, T.S

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A One Week Certificate Course

On

Internet of Things

(14th to 19th October, 2019)

PROGRAMME SCHEDULE

	Forenoon		Afternoon
Day1	Inauguration	Introduction to IoT Mr. G Ahmed Zeeshan Assistant Professor & Head, Dept of ECE, GIET	Sensing Actuation Mrs. Nuzath Unnisa Begum Assistant Professor & Associate Head, Dept of ECE, GIET
Day2	Basics of Networking Mrs. Nuzath Unnisa Begum Assistant Professor & Associate Head, Dept of ECE, GIET		Communication protocols Dr. Padam Priyal Professor, Dept of ECE, GIET
Day3	Machine to Machine Communications Dr Syed Abdul Sattar Professor, Dept of ECE, NSAKCET		Interoperability in IoT Dr Syed Abdul Sattar Professor, Dept of ECE, NSAKCET
Day4	Introduction to Arduino Programming Mrs. Neha Ullal, Technical Lead, Capricot Technologies Pvt. Ltd, Hyderabad		Integration of Sensors and Actuators with Arduino Programming Mrs. Neha Ullal, Technical Lead, Capricot Technologies Pvt. Ltd, Hyderabad
Day5	Introduction to Raspberry Pi Mr. Satish Sahiti, Technical Engineer, Capricot Technologies Pvt. Ltd, Hyderabad		Implementation of IOT with Raspberry Pi Mr. Satish Sahiti, Technical Engineer, Capricot Technologies Pvt. Ltd, Hyderabad
Day6	Arduino programming (Hands on) Mrs. Neha Ullal, Technical Lead, Capricot Technologies Pvt. Ltd, Hyderabad		Exam Valedictory, Feedback & Certificate Distribution

Kamal
Co-Ordinator
D. Kamalakar Reddy
Assistant Professor
Department of ECE



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JNTUH Code (U6) CIVIL - CSE - MECH - ECE - EEE - MBA - M.Tech. EAMCET Code- GLOB

Department of Electronics and Communication Engineering

LIST OF STUDENTS REGISTERED FOR Internet of Things

S.NO	ROLL.NO	NAME OF THE STUDENT
1.	15U61A0417	L SRIKANTH REDDY
2	15U61A0427	VEM VAMSHI
3	16U61A0401	AFREEN BEGUM
4	16U61A0405	BADDAMOLLA SHIREESHA
5	16U61A0410	DESIBOYINA BHARGAV SAI
6	16U61A0413	JANGAM VIKAS KUMAR
7	16U61A0414	KAUSER BEGUM
8	16U61A0418	MOHD KAZIM SHARIF
9	16U61A0419	N SOWMYA
10	16U61A0420	NALLA POOJA REDDY
11	16U61A0421	NANDAMURI NARENDRA
12	16U61A0424	SHEELAM RAMAKRISHNA
13	16U61A0425	SUMMAIYA
14	16U61A0426	YANAGANDULA SURESH
15	17U65A0401	A YAMUNA
16	17U65A0402	KARUPURAM BHAVANA
17	17U65A0403	MOHAMMED ABDUL BARI KHAN
18	17U65A0405	SANKOJI KRISHNAVENI

Kamal
Co- Ordinator
Mr.D Kamalakar Reddy
Assistant Professor
Department of ECE



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A One Week Certificate Course

On

Internet of Things

(14th -19th October, 2019)

REGISTRATION FORM

(Please Fill in CAPITAL LETTERS)

Name : AFREEN BEGUM
Roll No : 16U61A0401
Course/Year : IV ECE
Department : ECE
E-mail : afreenbegum4@gmail.com
Phone No : 9490122652


Signature of Participant



GLOBAL Institute of Engineering & Technology

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Survey No. 179, Chilkur (V), Moinabad (M), Ranga Reddy Dist. TS.

Phone: 8790101015 / 9959250205

e-mail: principal.giet.u6@gmail.com

JNTUH Code (U6) CIVIL - CSE - MECH - ECE - EEE - MBA - M.Tech. EAMCET Code- GLOB

Department of Electronics and Communication Engineering

A One Week Certificate Course

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Internet of Things

(14th to 19th October, 2019)

Attendance Sheet

S.No.	NAME	ROLL No.	14-10-19		15-10-19		16-10-19		17-10-19		18-10-19		19-10-19	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	L SRIKANTH REDDY	15U61A0417	P	P	P	P	P	P	P	P	P	P	P	P
2	VEM VAMSHI	15U61A0427	P	P	P	P	P	P	P	P	A	A	P	P
3	AFREEN BEGUM	16U61A0401	P	P	P	P	P	P	P	P	P	P	P	P
4	BADDAMOLLA SHIREESHA	16U61A0405	P	P	A	A	P	P	P	P	P	P	P	P
5	DESIBOYINA BHARGAV SAI	16U61A0410	A	A	P	P	P	P	P	P	P	P	P	P
6	JANGAM VIKAS KUMAR	16U61A0413	P	P	P	P	A	A	P	P	P	P	P	P
7	KAUSER BEGUM	16U61A0414	P	P	P	P	P	P	P	P	P	P	P	P
8	MOHD KAZIM SHARIF	16U61A0418	P	P	P	P	P	P	P	P	P	P	P	P
9	N-SOWMYA	16U61A0419	P	P	P	P	P	P	A	A		P	P	P
10	NALLA POOJA REDDY	16U61A0420	P	P	P	P	P	P	P	P	A	A	P	P
11	N.NARENDRA	16U61A0421	P	P	A	A	P	P	P	P	P	P	P	P
12	RAMAKRISHNA	16U61A0424	P	P	P	P	P	P	P	P	P	P	P	P
13	SUMMAIYA	16U61A0425	P	P	P	P	P	P	P	P	P	P	P	P
14	Y SURESH	16U61A0426	P	P	P	P	A	A	P	P	P	P	P	P
15	A YAMUNA	17U65A0401	P	P	P	P	P	P	A	A	P	P	P	P
16	K. BHAVANA	17U65A0402	P	P	P	P	P	P	P	P	P	P	P	P
17	Md ABDUL BARI	17U65A0403	P	P	P	P	P	P	P	P	P	P	P	P
18	SANKOJI KRISHNAVENI	17U65A0405	P	P	P	P	P	P	P	P	A	A	P	P

Kavul
Coordinator



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A One Week Certificate Course
On

Internet of Things

(14th -19th October, 2019)

FEEDBACK FORM

Please evaluate your rating of the course by placing a tick in the appropriate box.

1. Poor 2. Satisfactory 3. Good 4. Very good 5. Excellent

Branch and Year: EEE IV year

Date: 19/10/2019

ASPECTS	RATING				
	Excellent 5	Very good 4	Good 3	Satisfactory 2	Poor 1
Relevance of contents	✓				
Trainer was knowledgeable and skillful	✓				
Quality of input provided		✓			
Quality of presentations		✓			
Adherence to the time schedule		✓			
Opportunity given to participant to clear doubts	✓				
Identify ways to build on current skills and knowledge			✓		
Overall learning experience		✓			
How has the course enhanced your skills or understanding of this topic?					
<u>Gained knowledge on Internet of things</u>					
Specify problems faced by you during the course?					
-					
Any Other Comments:					
-					

REPORT

ON

ONE WEEK CERTIFICATE COURSE

“INTERNET OF THINGS”

A One Week Certificate course on **Internet of Things** was organized by the Department of Electronics and Communication Engineering in the Conference Room of GIET from 14th to 19th October, 2019 and its objective was to further enhance and strengthen the technical skills of the students in the field of Internet of Things. This certificate course was organised for B.Tech ECE IVth year (A.Y. 2019-20) and total 18 students were attended. Evaluation forms were filled by each participant and certificates were also distributed the end of the course.

Day 1:

The course started off with the inaugural ceremony and the coordinator of this course, Mr. D Kamalakar Reddy, Assistant Professor, Department of ECE welcomed the gathering. Later in the inauguration Mr. G Ahmed Zeeshan Head, Dept of ECE ,GIET delivered his inaugural and introductory speech and also he delivered his lecture on '**Introduction to IoT**'. He emphasized with a brief lecture on the field of IoT and its applications in health care, smart homes and smart cities. The next session was taken by Mrs. Nuzath Unnisa Begum Asst.Professor, Dept of ECE, GIET , on '**Sensing Actuation**'. In this session madam has explained about different type of sensors like temperature sensors, proximity sensor, pressure sensor, water quality sensor, chemical sensor, gas sensor, smoke sensor and the differences.

Day 2:

On second day, morning session was taken by Mrs. Nuzath Unnisa Begum Asst.Professor, Dept of ECE, GIET delivered a lecture on '**Basics of Networking**'. In this session she has given a basic knowledge of networking. It was followed by another lecture by Dr.Padam Priyal, Professor, Dept of ECE, GIET lectured on '**Communication protocols**' in the afternoon session. In the aftersession madam has elaborated on types of communication protocols. She explained about, Transmission Control Protocol (TCP), Internet Protocol (IP), User Datagram Protocol (UDP), Post office Protocol (POP), Simple mail transport Protocol (SMTP), File Transfer Protocol (FTP), Hyper Text Transfer Protocol (HTTP), Hyper Text Transfer Protocol Secure (HTTPS).

Day 3:

On third day, morning session was started on '**Machine to Machine Communications**' by Dr. Syed Abdul Sattar Professor, Dept of ECE, NSAKCET. In this session sir spoke on M2M communication and its applications. The major fields sir has stressed on are manufacturing, home appliances, health care device management & smart utility management. Then the next session has continued by sir, on '**Interoperability in IoT**'. In this session sir has explained about interoperability. Interoperability is basically the ability for systems or components of systems to communicate with each other, regardless of their manufacturer or technical specifications. This is the reason why interoperability is essential for the correct development of **IoT**. This session has continued till end of the day.

Day 4:

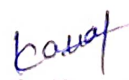
On fourth day, morning session was started on '**Introduction to Arduino Programming**' by Resource Person Mrs. Neha Ullal, Technical Lead, Capricot Technologies Pvt. Ltd, Hyderabad. In which madam spoke about Arduino and its working. Arduino is an open-source electronics platform based on easy-to-use hardware and software. Arduino boards are able to read inputs - light on a sensor, a finger on a button, or a Twitter message - and turn it into an output - activating a motor, turning on an LED, publishing something online. You can tell your board what to do by sending a set of instructions to the microcontroller on the board. To do so you use the Arduino programming language (based on Wiring), and the Arduino Software (IDE), based on processing. This session was continued till lunch break after that next session has also been taken by madam on '**Integration of Sensors and Actuators with Arduino Programming**'. In this session madam has explained about sensors, actuators and the difference between sensors and actuators, its area of applications.

Day 5:

On fifth day, morning session was started on '**Introduction to Raspberry Pi**' by Resource person Mr. Satish Sahiti, Technical Engineer, Capricot Technologies Pvt. Ltd, Hyderabad. Sir focused on Raspberry Pi. Raspberry Pi is a small single board computer. By connecting peripherals like keyboard, mouse, display to the Raspberry Pi, it will act as a mini personal computer. Raspberry Pi is popularly used for real time Image/Video processing, IoT based applications and Robotics applications. Raspberry Pi is slower than laptop or desktop but is still a computer which can provide all the expected features or abilities, at a low power consumption. Raspberry Pi foundation officially provides Debian based Raspbian OS. Also, they provide NOOBS OS for Raspberry Pi. After this next session has continued by sir on '**Implementation of IOT with Raspberry Pi**' till end of the day.

Day 6:

On sixth day, morning session was taken by Mrs. Neha Ullal, Technical Lead, Capricot Technologies Pvt. Ltd, Hyderabad on **Arduino programming(Hands on)**. As it was a hands-on session madam has explained how Arduino works practically. Students were also executed programs with Arduino. In the afternoon session written test was conducted for students, and all the questions were given in multiple choice basis. The next session was a valedictory, in that feed back was taken from all the students and certificates were distributed to all the participants.


Co-Ordinator
Mr. D Kamalakar Reddy
Assistant Professor
Department of ECE





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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A One Week Certificate Course

On

Internet of Things

(14th– 19th October, 2019)

CERTIFICATE OF PARTICIPATION

This is to certify that Ms./Mr. MOHAMMED ABDUL BARI KHAN

bearing roll number 17U65A0403 has attended One Week Certificate Course on “*INTERNET OF THINGS*” held from 14th October 2019 to 19th October 2019 at Global Institute of Engineering and Technology.

Co Ordinator
(Mr. D Kamalakar Reddy)

Head of the Department
(Mr. G Ahmed Zeeshan)

Principal
(Dr. K Sivalingam)