GLOBAL
Institute of Engineering & Technology

(Approved by AICTE & Affiliated to JNTUH)
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 Mechanical Engineering

Mr. A. Sohail
B.Tech , M.Tech
Assistant Professor & Head

Lr.No: GIET/ME/Brdg Cour/001/05/2018-19

Date :1/07/2018

To

The Principal
Global Institute of Engineering &Technology
Moinabad

Madam,

Sub: Permission to Conduct Bridge Course for Students of ME-III Semester reg..
*****

This is to get it to your kind notice that we Department of Mechanical Engineering are interested to conduct a Bridge Course On **Internet Of Things (IoT)** to the students of ME-III Sem from 9/07/2018 to 13/07/2018, which is undertaken for students benefit as a value addition to curriculum of course.

These classes help students to strengthen their basics and bridge gap between intermediate and engineering. These classes give them a brief idea of Mechanical Engineering.

Kindly accord approval so as to make necessary arrangements for conducting the classes for students of Mechanical Engineering –III Sem – Academic Year: 2018-19.

Thanking you.

H.O.D

HEAD
Department of Mechanical Engg.
Global Institute of Engineering & Technology
Chilkur (V)., Moinabad(M)., R.R. Dist.T.S.-501504.

Cc to :

Director – *for information*

Dy. Director- *for information*

Dean – *for information*

Head H&S - *for information*

Department of Mechanical Engineering

Lr.No: GIET/ME/Brdg Cour/002/04/2018-19

Date :02/07/2018

OFFICE ORDER

Sub : Appointment of Coordinator for Bridge Course Students of ME-III-Reg

This is to state that **Mr.V Sai Chandra** is appointed as Coordinator for Bridge Course Classes for students of Mechanical Engineering- III Sem from 9/07/2018 to 13/07/2018. Further you will be responsible for checking the status of classes, strength of students and Syllabus coverage status and all other issues related to the conduct of classes.

It is here by informed to take charge immediately and initiate the work accordingly.

Principal 2/7/18

PRINCIPAL
Global Institute of Engg. & Tech
Chilkur (V), Moinabad (M)
R. R. Dist

To
Mr.V Sai Chandra
Asst. Professor
Department Mechanical Engineering
Global Institute of Engineering & Technology.

Cc to

Principal- *for information*

Dean- *for information*

Dy Director- *for information*

Director- *for information*
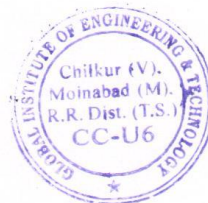
Department of Mechanical Engineering

Secretary :
K.M. ARIFUDDIN B.A., LL.M

Principal:

Lr.No: GIET/ME/Brdg Cour/003(a)/05/2018-19

Date :3/07/2018

To

Mr. Yogi manasa Reddy
Assistant Professor,
MVSR, Hyderabad
.

Respected Sir,
        SUB: Invitation as a Speaker for Bridge Course on '**Internet Of Things (IoT)"**-Reg
                        Academic Year: 2018-19
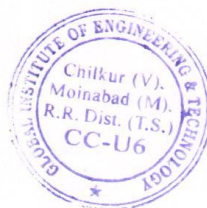   *****

Global Institute of Engineering and Technology is a self financed Non-Minority Institution established in the year 2006 with a vision to promote quality education.

Global Institute of Engineering and Technology is managed by Madina Education and Welfare Society which is a four decades old society. Global Institute of Engineering and Technology offers B.Tech in Civil Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Mechanical Engineering,Computer Science and Engineering and Masters in Embedded Systems,Electrical Power Engineering, Computer Science and Engineering,Structural Engineering and MBA.GIET is also approved Nodal Center for running skill development courses under Pradhan Mantri Kaushal Vikas Yojana.

It is to humbly invite you to Speaker for Bridge Course on '**Internet Of Things (IoT)"**--in the Institution for our students of ME-III Sem, which is undertaken for students benefit as a value addition to curriculum of course.

I on behalf of the students of department of Mechanical Engineering request you grace the occasion as Speaker on 09/07/2018 to 13/07/2018 At College Campus Moinabad to take a Session on **Internet Of Things (IoT)"**.

It is humbly requested to accept our invitation.
Thank you for your time and consideration.

Yours sincerely

PRINCIPAL
Principal
Global Institute of Engg. & Tech
GIET
Chilkur (V), Moinabad (M)
R. R. Dist

Department of Mechanical Engineering

Secretary :
K.M. ARIFUDDIN B.A., LL.M

Principal:

Lr.No: GIET/ME/Brdg Cour/003(a)/05/2018-19

Date :3/07/2018

To

Ms. Vijayalaxmi C H
Assistant Professor,
MGIT, Hyderabad

.

Respected Sir,

SUB: Invitation as a Speaker for Bridge Course on 'Internet Of Things (IoT)"-Reg
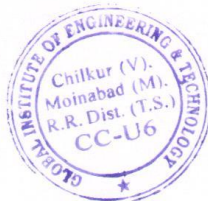
Academic Year: 2018-19

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Yours sincerely

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Global Institute of Engg. & Tech.
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Department of Mechanical Engineering

Secretary :
K.M. ARIFUDDIN B.A., LL.M

Principal:

Lr.No: GIET/ME/Brdg Cour/004(a)/05/2018-19

Date :13/07/2018

To
Mr. Yogi manasa Reddy
Assistant Professor,
MVSR, Hyderabad

SUB: Thanking for accepting invitation as a Speaker- Reg.
*****

Respected Sir,

With all our due respect, we would like to thank you for your kind acceptance of invitation as a Speaker for Bridge Course on **"Internet Of Things"**. Presence of a Speaker like you certainly will enhance the moral of our students and give them a new perspective on this topic.

It would be a pleasure to have you with us in this course and for our students to extract maximum possible information. Hope you will have a great time with us.

Thanking you.

Yours Sincerely

Principal 13/7/18
PRINCIPAL
Global Institute of Engg. & Tech.
Chilkur (V), Moinabad (M)
R. R. Dist.

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Code- GLOB

Department of Mechanical Engineering

Lr.No: GIET/ME/Brdg Cour/005/05/2018-19

Date 05/07/2018

To
The Convener
Co curricular Committee
GIET

Respected Sir,

SUB: Information on Bridge Course on **"Internet Of Things"**. - Reg.

****

This is to inform you that the Department of Mechanical Engineering is going to conduct Bridge Course on **"Internet Of Things"**. for ME-III Sem (A.Y. 2018-19) students from 09/07/2018 to 13/07/2018 in Room No.65

Thanking You.

Yours Sincerely

Mr. V Sai Chandra Vundi
Course Coordinator
Assistant Professor-Department of ME
Global Institute of Engineering & Technology

Cc to

Head - *for information and filing.*
Principal- *for information*
Coordinator IQAC - *for information*

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

Department of Mechanical Engineering

Mr. A Sohail
  B.Tech , M.Tech
Assistant Professor & I/C Head

Lr.No: GIET/ME/Brdg Cour/006/07/2018-19

Date : 6/07/2018

CIRCULAR

All the students of ME-III Sem are informed to express their interest by enrolling their name for the One week Bridge course on **"Internet Of Things"**. starting from 09/07/2018 to 13/07/2018. The detailed syllabus for the course is attached for your information. Concerned mentors are instructed to submit the list of students enrolled within two days to the undersigned. For further information, you can contact the Course Coordinator.

H.O.D

HEAD
Department of Mechanical Engg.
Global Institute of Engineering & Technology
Chilkur (V)., Moinabad(M)., R.R. Dist.T.S.-501504.

Cc to :

Principal *– for information*

IQAC- *for information*

Mentor— *for information*

Head H&S - *for information*

Notice board

File

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Department of Mechanical Engineering

Secretary :
K.M. ARIFUDDIN B.A., LL.M

Principal:

Lr.No: GIET/ME/Brdg Cour/004(b)/05/2018-19

Date :13/07/2018

To

Ms. Vijayalaxmi C H
Assistant Professor,
MGIT, Hyderabad

Respected Sir,

SUB: Thanking for accepting invitation as a Speaker- Reg.
*****

With all our due respect, we would like to thank you for your kind acceptance of invitation as a Speaker for Bridge Course on "**Internet Of Things**". Presence of a Speaker like you certainly will enhance the moral of our students and give them a new perspective on this topic.

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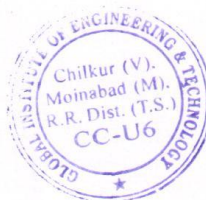
Yours Sincerely
13/7/18

Principal
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Code- GLOB

Department of Mechanical Engineering

COURSE SYLLABUS FOR "INTERNET OF THINGS"

S.no	Topics to delivered	Duration Class work +Lab Practice (in hours)
1	**Introduction**	6
2	**System Overview**	6
3	**System Hardware**	6
4	**System Software**	6
5	**Conclusion and Future Work**	6

Coordinator

H.O.D
HEAD
Department of Mechanical Engg.
Global Institute of Engineering & Technolo
Chilkur (V)., Moinabad(M)., R.R. Dist.T.S.-50150

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Department of Mechanical Engineering

LIST OF STUDENTS ENROLLED FOR BRIDGE COURSE

ACADEMIC YEAR: 2018-2019

S.No	Roll no	Name of the student	Year	Dept
1	16U61A0304	ALI AFSAR	II	ME
2	16U61A0310	D NITIN RAJ	II	ME
3	16U61A0313	KHURSHED ALAM	II	ME
4	16U61A0331	MOHD AKBAR	II	ME
5	16U61A0340	SONU ANSARI	II	ME
6	17U61A0301	BASITH HUSSAIN KHAN	II	ME
7	17U61A0302	ISMAIL HABEEB AHMED	II	ME
8	17U61A0304	KHAJA NASEER UDDIN SIDDIQUI	II	ME
9	17U61A0306	MIR GHUFRAN ALI	II	ME
10	17U61A0307	MOHAMMED AKIF ALI KHAN	II	ME
11	17U61A0308	MOHAMMED IMRAN	II	ME
12	17U61A0309	MOHD RIZWAN BIN KHALID	II	ME
13	17U61A0310	SYED KHALID MOHD	II	ME
14	17U61A0311	SYED MUBARIZ UDDIN AHMED	II	ME
15	17U61A0312	SYED SAFI UDDIN	II	ME
16	17U61A0313	SYED SUBHAN	II	ME
17	17U61A0314	YATA SAI SHIVA PRASAD	II	ME
18	18U65A0301	BODDU RAMESH KUMAR	II	ME
19	18U65A0302	DHANSARI NAVEEN	II	ME
20	18U65A0303	DHARMANI ANIL KUMAR	II	ME
21	18U65A0304	GADDE BALA YOGESHWAR	II	ME
22	18U65A0305	KUCHANA AKASH	II	ME
23	18U65A0306	PASULADI VENKATESH	II	ME
24	18U65A0307	RAVURI LOKESH	II	ME
25	18U65A0309	SHINDE SACHIN	II	ME
26	18U65A0310	WAGMARE SURAJ	II	ME

Coordinator

Department of Mechanical Engg.
Global Institute of Engineering & Technology
Chilkur (V)., Moinabad (M)., R.R. Dist.T.S.-501 50.

H.O.D

Department of Mechanical Engineering

Bridge Course
On
Internet of Things
(9th July to 13th July 2018)

PROGRAMME SCHEDULE

	Programme	
Day1	INAUGURATION	Introduction Mr. Yogi manasa Reddy Assistant Professor, MVSR, Hyderabad
Day2	System Overview Ms. Vijaya laxmi C H Assistant Professor, MGIT, Hyderabad	
Day3	System Hardware Mr. Yogi manasa Reddy Assistant Professor, MVSR, Hyderabad	
Day4	System Software s. Vijaya laxmi C H Assistant Professor, MGIT, Hyderabad	
Day5	Conclusion and Future Work Mr. Yogi manasa Reddy Assistant Professor, MVSR, Hyderabad	

Co- Ordinator

Mr V Sai Chandra

Assistant Professor
Department of ME

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Department of Mechanical Engineering

Bridge Course
On
INTERNET OF THINGS

(9th July – 13th July 2018)

FEEDBACK FORM

Please valuate 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: ME, II-I   **Date:** 13 July 18

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?

EXCELLENT

Specify problems faced by you during the course?

NO PROBLEMS

Any Other Comments:

HEAD
Department of Mechanical Engg.
Global Institute of Engineering & Technology
Chilkur (V)., Moinabad(M)., R.R. Dist.T.S.-501504.

Bridge Course
On
INTERNET OF THINGS (IoT)

ATTENDANCE SHEET

S.No	Roll Number	Name of the Participant	Programme	Year	ATTENDANCE									
					Day-1 (09/07/2018)		Day-2 (10/07/2018)		Day-3 (11/07/2018)		Day-4 (12/07/2018)		Day-5 13/7/2018	
					FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	16U61A0304	ALI AFSAR	B.Tech	II										
2	16U61A0310	D NITIN RAJ	B.Tech	II										
3	16U61A0313	KHURSHED ALAM	B.Tech	II										
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12	17U61A0309	MOHD RIZWAN BIN KHALID	B.Tech	II										
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26	18U65A0310	WAGMARE SURAJ	B.Tech	II										

HEAD
Department of Mechanical Engg.
Global Institute of Engineering & Technology,
Chilkur (V)., Moinabad(M), R.R. Dist.T.S.-501504.

About Bridge Course: The Bridge Course is aimed to act as a buffer for the new entrants, with an objective to provide adequate time for the transition to hard-core engineering courses. During this interaction of bridge course week with the faculty and their classmates, the students will be equipped with the knowledge and the confidence needed to take on bigger challenges as future engineers of this country.

Objectives:

- To act as a buffer for the new entrants.
- To provide adequate time for the transition to hard-core engineering courses.
- Focus on fostering a strong sense of ethical judgment and moral fortitude.
- Applications based self-learning and intermingling of a large cross section of students from vastly varying backgrounds.
- A breather, to prepare themselves before courses for first year engineering commence.
- The students will be equipped with the knowledge and the confidence needed to take on bigger challenges.
- Nurture a deeper understanding of the local and global world and our place in at as concerned citizens of the world.
- Interactive and Active Learning by Doing have been weaved into the Bridge Course.
- Active learning with the help of other students

GLOBAL
Institute of Engineering & Technology

Department of Mechanical Engineering

Bridge Course
On
"INTERNET OF THINGS (IoT)"
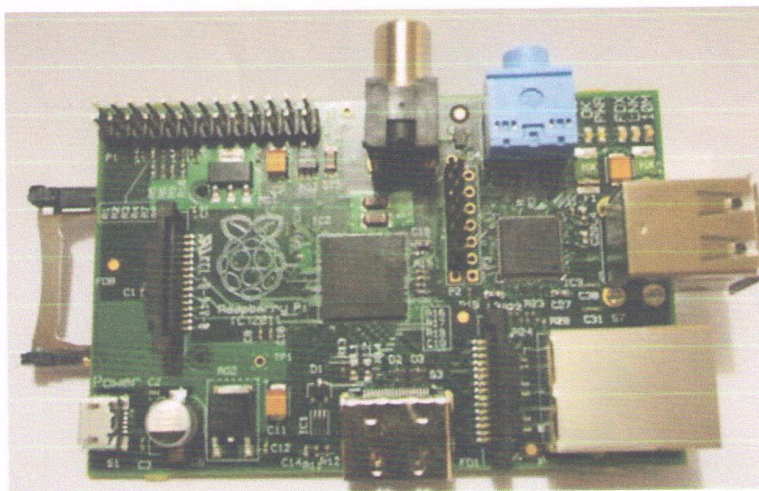
HEAD
Department of Mechanical Engg.
Global Institute of Engineering & Technology
Chilkur (V)., Moinabad(M)., R.R. Dist.T.S.-501504.

Chapter 1

Introduction

Government provides food, oil and fuel to economically challenged people at subsidized rates which are distributed to the public through ration shops. The stocks for these ration shops will be bought from the farmers and then sold at subsidized rates. Every month fresh stock arrives at these shops and that needs to be distributed to public. The owner of most of the ration shops resort to malpractices and the allotted amount of ration is not distributed to authorized people. To counter these fraudulent activities this system is developed which incorporates the following features.

1. Fingerprint authentication system used to identify a particular user making the system secure.

2. The commodity and its quantity need to be selected using android application.

3. Predefined information about the amount of ration to be distributed.

4. Automatic ration distributing mechanism.

Public distribution system in the country has undergone organic changes from the ra- tioning system introduced during World War II to an important social safety program to ensure food security of the country. Under the public distribution System (PDS), the cen- tral government procures and supplies special essential commodities to fair price at fixed central issue prices. In the past, a number of items like iodized salt, palm oil, candles, ghee, cloth etc. have been distributed through the PDS, however at present department of food and supplies have confined the fair price distribution to few cereals, wheat, rice, sugar and kerosene oil. At present India has 4,78,000 ration stores operating across many localities, villages, towns and cities in the country making it the largest distribution network in the world. Department of food and supplies is providing ration cards to the citizens based on their economic conditions. There are mainly two types of cards:

1. Below poverty line (BPL) cards

2. Above poverty line (APL) cards

1

Against the essential commodities act there are many fraudulent activities going on unfair price shops. Users are forced to wait in long queues for hours together to purchase the essen- tial commodities. Card holders and their family member's details are stored in a notebook. Hence each time transaction is made by the card holder, entry had to be made manually in the book. Maintenance of record in book is difficult. Thus, an efficient and automated system is required to minimize the misappropriations.

Quantity of ration to be given for these cards is fixed based on the number of members in the card holders family. The Department of food and supplies enforces control over these provi- sions under the orders by the Essential Commodities Act, 1955 regulating trade in specified essential commodities by keeping a close watch on stocks, passage, quality and availability of these commodities. Enforcement consists of collection of information and evidence of con- travention of provisions of the relevant control orders and action taken against them under the provisions of Essential Commodities Act.

Objective and Motivation of the project

The aim of this system is to build an automatic and convenient system to protect the interests of the public by countering the malpractices. The main purpose of the system is to implement fingerprint matching algorithm for authentication of the user, which in turn reduces the widespread corruption, misuses of cards and to reduce the time complexity of the manual data entries. The system is used to protect the products of fair price shop in black markets.

Organization of the report

Chapter 2 deals with the literature survey. The block diagram of the system is explained in Chapter 3, giving an overall view of the techniques used in the system. Chapter 4 deals with System hardware and Chapter 5 with system software and flowcharts. Chapter 6 contains result which is explained through snapshots and quantity analysis. Chapter 7 contains conclusion and scope for future work.