



DEPARTMENT OF CIVIL ENGINEERING

Ref No: GRIET/CE/IC/G/22-23

15 February 2023

To
The Principal,
GRIET,
Hyderabad.

Subject: Value Added Course on Internet of Things (IoT) in Civil Engineering – Applications and Case Studies, Reg.,

Sir,

With reference to above subject, we the Department of Civil Engineering introducing Value Added Course on "Internet of Things (IoT) in Civil Engineering – Applications and Case Studies" by Department of Civil Engineering for III-year B. Tech Civil Engineering Students. Certificate will be awarded to all students who clear both Internal and External examination. The examination pattern is 30 marks for Internal Examination and 70 marks for External Examination. Kindly, provide the subject code for the proposed Value-Added Course. Timetable and syllabus are enclosed below.

Thanks & Regards

Dr, C, Lavanya

Professor & HOD

Civil Engineering Dept

PROFESSOR AND HEAD
Department of Civil Engineering
Gokaraju Rangaraju Institute of
Engineering and Technology
Bachupally, Kukatpally,
Hyderabad-500 090

Course code is
R22V8006

23/2/2023

J. Beven

Principal

Gokaraju Rangaraju

Institute of Engineering and Technology
Gokaraju Rangaraju Institute of Engineering and Technology (GRIET) is established in 1997 by Dr. G Gangaraju as a self-financed institute under the aegis of Gokaraju Rangaraju Educational Society. GRIET is approved by AICTE, New Delhi, permanently affiliated to and autonomous under JNTUH, Hyderabad. GRIET is committed to quality education and is known for its innovative teaching practices.

The mission of GRIET is to achieve and impart quality education with an emphasis on practical skills and social relevance. Presently GRIET has 9 UG and 6 PG programs. The college is NBA accredited in CE, CSE, ECE, EEE, IT, and ME. CSBS, AI&ML, DS are new programs. The institute is accredited by NAAC with 'A++' grade.

Department of Civil Engineering

The Department of Civil Engineering is established in the year 2008, with an intake of 60 students. It is a fast-growing discipline in tune with the infrastructure growth.

The department has master's program in Structural Engineering, established in the year 2014 with an intake of 18 students which is further increased to 30 students from the academic year 2017. The department has well equipped laboratories with an emphasis on practical skills and fundamentals. The Department has well experienced and talented faculty which includes nine doctorates.

Patrons

Dr. Jandhyala N. Murthy,
Director, GRIET

Dr. J. Praveen,
Principal, GRIET

Dr. K. V. S. Raja,
Senior Administrative officer, GRIET

Convenor

Dr. C. Lavanya,
Professor & HOD, CE, GRIET

Coordinators

1. **Mr. Akula Prakash**
Assistant Professor, CE, GRIET
2. **Ms. K. Hemalatha**
Assistant Professor, CE, GRIET

Resource Persons

1. **Dr. O.S.D. Hima Bindu**
Associate Professor, CE, GRIET
2. **Mr. C. Vivek Kumar**
Assistant Professor, CE, GRIET
3. **Mr. Akula Prakash,**
Assistant Professor, CE, GRIET
4. **Mr. A Vittalaiah,**
Assistant Professor, CE, GRIET
5. **Ms. G. Swetha**
Assistant Professor, CE, GRIET

Value Added Course

on
**Internet of Things (IoT) in
Civil Engineering :**
Applications and Case Studies
(24th Feb to 15th March 2023)

Organized by
Department of Civil Engineering



Gokaraju Rangaraju
Institute of Engineering and Technology
(Autonomous)

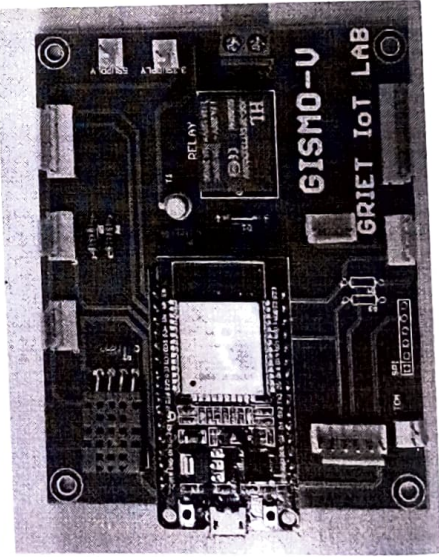
Bachupally, Hyderabad,
Telangana, India-500090

Office: 7207344440, 7207714441

www.griet.ac.in

About Value Added Course

Value added course on IoT & its applications are designed for increasing the demand for "Internet of Things". During this course, the candidate is going to be tutored on each different applications based on IoT which is needed for the basic understanding of IOT applications in Civil Engineering. As this course targets students who is enthusiastic to know about "what is IoT", the scope, benefits and effects of IoT on numerous digital technology and devices. Here participant will learn the mechanism of Machine to Machine (M2M) communication, understanding of IoT system, industrial net and IoT on cloud.



Course Contents

Hands-on training on all the building blocks of IoT projects using GISMO-V and GISMO-VI board with the following resources:

- ESP32- 32 bit microcontroller with built-in WiFi and Bluetooth
- Temperature and humidity sensor
- Soil moisture sensor
- Ultrasonic sensor
- Door/Window open detection sensor
- Graphic display
- Relay

The participants will build multiple IoT projects with the following basic building blocks:

- Sensor interface
- Local display of sensor values
- Connection to Internet
- Pushing/pulling data to and from cloud database
- Mobile app with cloud database connectivity

An introduction to AWS (Amazon Web Services) IoT core and an IoT project using GISMO-V, GISMO-VI and AWS IoT Core will form part of the training

Registration

Registration Fee for the Value-Added Course Internet of Things (IoT) in Civil Engineering : Applications and Case Studies is : **Rs 250 / -** (Rupees Two Hundred and Fifty only)

Expected Outcome:

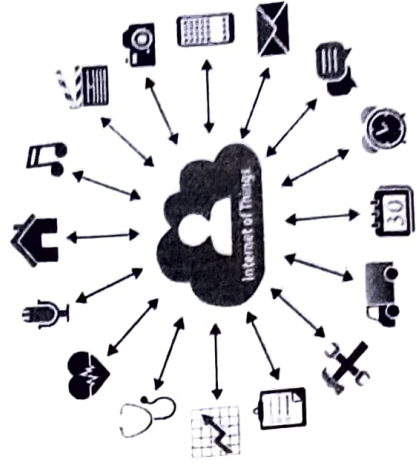
This course will help students to learn the basic building blocks of IoT projects and external and extended the learning to projects in the civil engineering domine.

Important Dates

Receipt of Registrations : **15-02-2023**

VAC Duration : **24th Feb to 15th March 2023**

(Daily 3pm to 5pm)





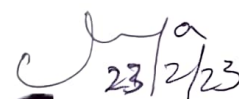
Gokaraju Rangaraju Institute of Engineering and Technology

Department of Civil Engineering

Timetable for Value Added Course AY: 2022-23 (II-Semester)

w.e.f : 24 th February to 15 th March 2023				
Day	09:00am – 11:45am	11:45am -12:25pm	12:25pm – 02:55pm	3:00pm-05:00pm
Monday (20-02-2023)	Regular Classwork	LUNCH BREAK	Regular Classwork	VAC-IOT
Tuesday (21-02-2023)	Regular Classwork		Regular Classwork	VAC-IOT
Wednesday (22-02-2023)	Regular Classwork		Regular Classwork	VAC-IOT
Thursday (23-02-2023)	Regular Classwork		Regular Classwork	VAC-IOT
Friday (24-02-2023)	Regular Classwork		Regular Classwork	VAC-IOT
Saturday (25-02-2023)	Regular Classwork		Regular Classwork	VAC-IOT

Sub. Code	Sub. Short form	Subject	Speaker Name
GR22V8006	VAC-IOT	Internet of Things (IoT) in Civil Engineering – Applications and Case Studies	Dr. O.S.D. Hima Bindu Associate Professor, CE,GRIET. Mr. C. Vivek Kumar Assistant Professor, CE,GRIET. Mr. Akula Prakash, Assistant Professor, CE,GRIET. Mr. A Vittalaiah, Assistant Professor, CE,GRIET. Ms. G. Swetha, Assistant Professor, CE,GRIET.


23/2/23

HOD-CE

PROFESSOR AND HEAD
Department of Civil Engineering
Gokaraju Rangaraju Institute of
Engineering and Technology
Bachupally, Kukatpally,
Hyderabad-500 090

One Credit Course

Course Title : Internet of Things (IoT) in Civil Engineering - Applications and Case Studies

Total Number of Lecture Hours : 30

Course Content:

Introduction to IOT: Characteristics of IOT, Applications of IOT, IOT Categories, IOT Enablers and Connectivity Layers, Sensors, Actuators, IOT Components & Implementation, Challenges for IOT

Architectures: IoT and the connected world, Architecture of IoT, Security issues, Opportunities for IoT.

The Web of Things: Importance of security, privacy, and authenticity, Industry standards, Web of Things layer as the driver for IoT systems.

Lessons from the Internet: Relevance of Internet to network of Things, network management, security, mobility, desirable features of a distributed architecture for a system of things.

Hardware Platforms: Programming with Arduino - Features of Arduino, Components of Arduino Board, Arduino IDE, Program Elements.

IOT Applications : Smart Homes-Smart Home Origin, Technologies, Implementation , Location Tracking, Industrial IOT - Requirements, Applications

Targeted Audience :

1. B. Tech (Civil) III Year Students

Resource Persons

1. Dr. O.S.D. Hima Bindu, Associate Professor, CE,GRIET.
2. Mr. T Srikanth, Associate Professor, CE,GRIET.
3. Mr. Akula Prakash, Assistant Professor, CE,GRIET.
4. Mr. A Vittalaiah, Assistant Professor, CE,GRIET.
5. Mrs. G Swetha, Assistant Professor, CE,GRIET.



Gokaraju Rangaraju Institute of Engineering & Technology

(Autonomous)

Bachupally, Nizampet Road, Kukatpally, Hyderabad-500009

Value-Added Course on Internet of Things (IoT) in Civil Engineering - Applications and Case Studies

dt :- 23/02/2023

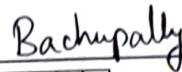
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Conductor
2) [Signature] 23/2/2023
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Head

23/2/23
PROFESSOR AND HEAD
Department of Civil Engineering
Gokaraju Rangaraju Institute of
Engineering and Technology
Bachupally, Kukatpally,
Hyderabad-500 090



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Date

३० / दिनांक
Date 23022023

बचत/भाल/ओडी/नकद जखार/आवर्ती जमा/आवधिक ऋण/मांगऋण खाता संख्या,
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HOD CIVIL DEPARTMENT

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Value-Added Course on Internet of Things (IoT) in Civil Engineering -

Applications and Case Studies (GR22V8006)

ATTENDANCE SHEETS

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19	20241A0137	Peddiboina Anusha	P. Anu	P. Anu	P. Anu	P. Anu	P. Anu	P. Anu	P. Anu	P. Anu	P. Anu	P. Anu	P. Anu
20	20241A0141	Radharapu Shaji Kumar	R. Shaji	R. Shaji	R. Shaji	R. Shaji	R. Shaji	R. Shaji	R. Shaji	R. Shaji	R. Shaji	R. Shaji	R. Shaji
21	20241A0142	Ramavath Roja	R. Roja	R. Roja	R. Roja	R. Roja	R. Roja	R. Roja	R. Roja	R. Roja	R. Roja	R. Roja	R. Roja
22	20241A0143	Rathlavath Sairam Navak	R. Sairam	R. Sairam	R. Sairam	R. Sairam	R. Sairam	R. Sairam	R. Sairam	R. Sairam	R. Sairam	R. Sairam	R. Sairam
23	20241A0144	Raviteja Pasunuthi	R. Raviteja	R. Raviteja	R. Raviteja	R. Raviteja	R. Raviteja	R. Raviteja	R. Raviteja	R. Raviteja	R. Raviteja	R. Raviteja	R. Raviteja
24	20241A0147	Sathvika Narla	S. Narla	S. Narla	S. Narla	S. Narla	S. Narla	S. Narla	S. Narla	S. Narla	S. Narla	S. Narla	S. Narla
25	20241A0149	Sriram Pandavula	S. Ram	S. Ram	S. Ram	S. Ram	S. Ram	S. Ram	S. Ram	S. Ram	S. Ram	S. Ram	S. Ram
26	20241A0150	T Bhargavi	T. Bhargavi	T. Bhargavi	T. Bhargavi	T. Bhargavi	T. Bhargavi	T. Bhargavi	T. Bhargavi	T. Bhargavi	T. Bhargavi	T. Bhargavi	T. Bhargavi
27	20241A0151	T Bhuvaneshwari	T. Bhuvaneshwari	T. Bhuvaneshwari	T. Bhuvaneshwari	T. Bhuvaneshwari	T. Bhuvaneshwari	T. Bhuvaneshwari	T. Bhuvaneshwari	T. Bhuvaneshwari	T. Bhuvaneshwari	T. Bhuvaneshwari	T. Bhuvaneshwari
28	20241A0152	S Teja Retiesh Reddy	S. Teja	S. Teja	S. Teja	S. Teja	S. Teja	S. Teja	S. Teja	S. Teja	S. Teja	S. Teja	S. Teja
29	20241A0153	Tejavath Kalyani	T. Kalyani	T. Kalyani	T. Kalyani	T. Kalyani	T. Kalyani	T. Kalyani	T. Kalyani	T. Kalyani	T. Kalyani	T. Kalyani	T. Kalyani
30	20241A0154	Prudhvi Raj Tellapuram	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj	P. Raj
31	20241A0155	Rohith Thadern	R. Rohith	R. Rohith	R. Rohith	R. Rohith	R. Rohith	R. Rohith	R. Rohith	R. Rohith	R. Rohith	R. Rohith	R. Rohith
32	20241A0156	Thummala Rajashekar	T. Rajashekar	T. Rajashekar	T. Rajashekar	T. Rajashekar	T. Rajashekar	T. Rajashekar	T. Rajashekar	T. Rajashekar	T. Rajashekar	T. Rajashekar	T. Rajashekar
33	20241A0157	U Kameswara Sai Karthik	U. Kameswara Sai	U. Kameswara Sai	U. Kameswara Sai	U. Kameswara Sai	U. Kameswara Sai	U. Kameswara Sai	U. Kameswara Sai	U. Kameswara Sai	U. Kameswara Sai	U. Kameswara Sai	U. Kameswara Sai
34	20241A0158	Sreeram Vattam	S. Vattam	S. Vattam	S. Vattam	S. Vattam	S. Vattam	S. Vattam	S. Vattam	S. Vattam	S. Vattam	S. Vattam	S. Vattam
35	20241A0160	V Srikar	V. Srikar	V. Srikar	V. Srikar	V. Srikar	V. Srikar	V. Srikar	V. Srikar	V. Srikar	V. Srikar	V. Srikar	V. Srikar
36	21245A0101	G Arun Kumar	G. Arun Kumar	G. Arun Kumar	G. Arun Kumar	G. Arun Kumar	G. Arun Kumar	G. Arun Kumar	G. Arun Kumar	G. Arun Kumar	G. Arun Kumar	G. Arun Kumar	G. Arun Kumar
37	21245A0102	K Sriram	K. Sriram	K. Sriram	K. Sriram	K. Sriram	K. Sriram	K. Sriram	K. Sriram	K. Sriram	K. Sriram	K. Sriram	K. Sriram
38	21245A0103	Manikonda Nikitha	M. Nikitha	M. Nikitha	M. Nikitha	M. Nikitha	M. Nikitha	M. Nikitha	M. Nikitha	M. Nikitha	M. Nikitha	M. Nikitha	M. Nikitha
39	21245A0104	Prathyusha Paridula	P. Paridula	P. Paridula	P. Paridula	P. Paridula	P. Paridula	P. Paridula	P. Paridula	P. Paridula	P. Paridula	P. Paridula	P. Paridula
40	21245A0105	Mouna Pateru	M. Pateru	M. Pateru	M. Pateru	M. Pateru	M. Pateru	M. Pateru	M. Pateru	M. Pateru	M. Pateru	M. Pateru	M. Pateru

cardinals

1) July 8/3/2023

2) July 8/3/2023



Gokaraju Rangaraju Institute of Engineering & Technology (Autonomous)

Bachupally, Nizampet Road, Kukatpally, Hyderabad-500009

Value-Added Course on Internet of Things (IoT) in Civil Engineering - Applications and Case Studies (GR22V8006)

ATTENDANCE SHEETS

S. No	Roll No.	Name of the Student	09-03-23 Thursday Sign.	10-03-23 Friday Sign.	13-03-23 Monday Sign.	14-03-23 Tuesday Sign.	15-03-23 Wednesday Sign.
1	20241A0104	Bandla Naveen	Naveen	Naveen	Naveen	Naveen	Naveen
2	20241A0110	Donaboina Sri Hari	Harish	Harish	Harish	Harish	Harish
3	20241A0112	G L N Raghuraman	Chakraborty	Chakraborty	Chakraborty	Chakraborty	Chakraborty
4	20241A0113	G Harshith Kumar	Gharshith	Gharshith	Gharshith	Gharshith	Gharshith
5	20241A0115	Gunda Srikanth	Srikanth	Srikanth	Srikanth	Srikanth	Srikanth
6	20241A0116	Jangili Sravan Kumar	Sravan	Sravan	Sravan	Sravan	Sravan
7	20241A0117	Janjirala Sruthi	Sruthi	Sruthi	Sruthi	Sruthi	Sruthi
8	20241A0119	K Nikhitha	Nikhitha	Nikhitha	Nikhitha	Nikhitha	Nikhitha
9	20241A0122	Kammampati Udaykiran	Udaykiran	Udaykiran	Udaykiran	Udaykiran	Udaykiran
10	20241A0123	Karne Sriathan	Sriathan	Sriathan	Sriathan	Sriathan	Sriathan
11	20241A0125	Kunta Nithin Reddy	Nithin	Nithin	Nithin	Nithin	Nithin
12	20241A0127	Mere Mahesh	Mahesh	Mahesh	Mahesh	Mahesh	Mahesh
13	20241A0128	Mohammed Ahmed	Ahmed	Ahmed	Ahmed	Ahmed	Ahmed
14	20241A0129	Mothukuri Laxman	Laxman	Laxman	Laxman	Laxman	Laxman
15	20241A0131	M Sushma Sri	Sushma	Sushma	Sushma	Sushma	Sushma
16	20241A0132	Nayini Swetha	Swetha	Swetha	Swetha	Swetha	Swetha
17	20241A0134	Pannala Sai Kiran Reddy	Sai Kiran	Sai Kiran	Sai Kiran	Sai Kiran	Sai Kiran
18	20241A0136	Pathlavath Shiva Nayak	Shiva	Shiva	Shiva	Shiva	Shiva
19	20241A0137	Peddiboina Anusha	Anusha	Anusha	Anusha	Anusha	Anusha
20	20241A0141	Radharapu Shaji Kumar	Shaji	Shaji	Shaji	Shaji	Shaji

21	20241A0142	Ramavath Roja	Rojas	Rojas	Rojas	Rojas	Rojas
22	20241A0143	Rathlavath Sairam Nayak	R. S. Ram	S. Ram	S. Ram	S. Ram	R. S. Ram
23	20241A0144	Raviteja Pasunuthi	P. Ram	P. Ram	P. Ram	P. Ram	P. Ram
24	20241A0147	Sathvika Narla	S. Narla	S. Narla	S. Narla	S. Narla	S. Narla
25	20241A0149	Sriram Pandavula	S. P.	S. P.	S. P.	S. P.	S. P.
26	20241A0150	T Bhargavi	T. Bhargavi	T. Bhargavi	T. Bhargavi	T. Bhargavi	T. Bhargavi
27	20241A0151	T Bhuvaneshwari	T. Bhuvaneshwari	T. Bhuvaneshwari	T. Bhuvaneshwari	T. Bhuvaneshwari	T. Bhuvaneshwari
28	20241A0152	S Teja Reties Reddy	S. Teja Reties Reddy	S. Teja Reties Reddy	S. Teja Reties Reddy	S. Teja Reties Reddy	S. Teja Reties Reddy
29	20241A0153	Tejavath Kalyani	T. Kalyani	T. Kalyani	T. Kalyani	T. Kalyani	T. Kalyani
30	20241A0154	Prudhvi Raj Tellapuram	P. Prudhvi Raj	P. Prudhvi Raj	P. Prudhvi Raj	P. Prudhvi Raj	P. Prudhvi Raj
31	20241A0155	Rohith Thadani	R. Rohith	R. Rohith	R. Rohith	R. Rohith	R. Rohith
32	20241A0156	Thummala Rajashekar	T. Rajashekar	T. Rajashekar	T. Rajashekar	T. Rajashekar	T. Rajashekar
33	20241A0157	U Kameswara Sai Karthik	U. Kameswara Sai	U. Kameswara Sai	U. Kameswara Sai	U. Kameswara Sai	U. Kameswara Sai
34	20241A0158	Sreeram Vattam	S. Vattam	S. Vattam	S. Vattam	S. Vattam	S. Vattam
35	20241A0160	V Srikar	V. Srikar	V. Srikar	V. Srikar	V. Srikar	V. Srikar
36	21245A0101	G Arun Kumar	G. Arun Kumar	G. Arun Kumar	G. Arun Kumar	G. Arun Kumar	G. Arun Kumar
37	21245A0102	K Sriram	K. Sriram	K. Sriram	K. Sriram	K. Sriram	K. Sriram
38	21245A0103	Manikonda Nikitha	M. Nikitha	M. Nikitha	M. Nikitha	M. Nikitha	M. Nikitha
39	21245A0104	Prathyusha Paridula	P. Prathyusha	P. Prathyusha	P. Prathyusha	P. Prathyusha	P. Prathyusha
40	21245A0105	Mouna Pateru	M. Pateru	M. Pateru	M. Pateru	M. Pateru	M. Pateru

Cardinals

1) 6/13/2023
2) 6/13/2023

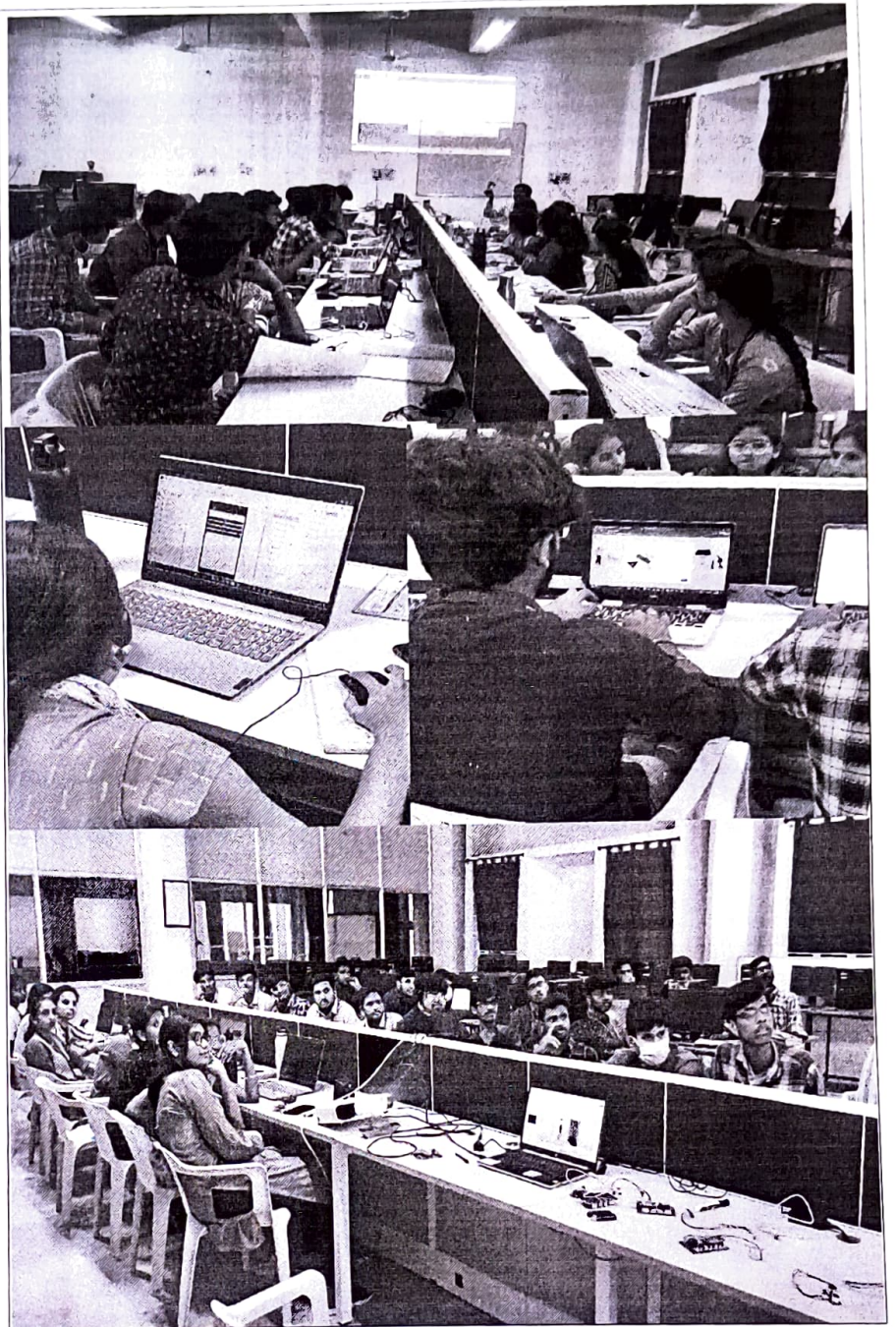


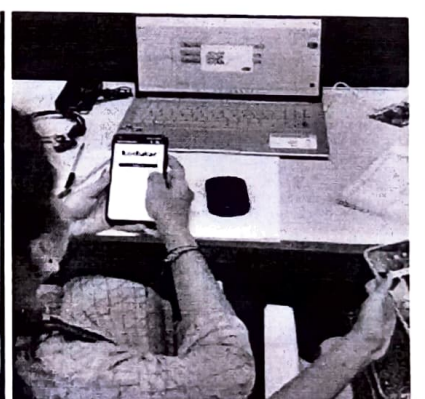
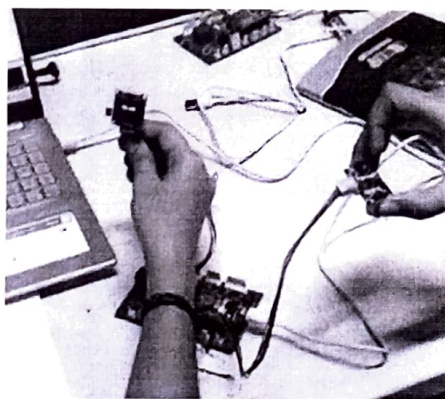
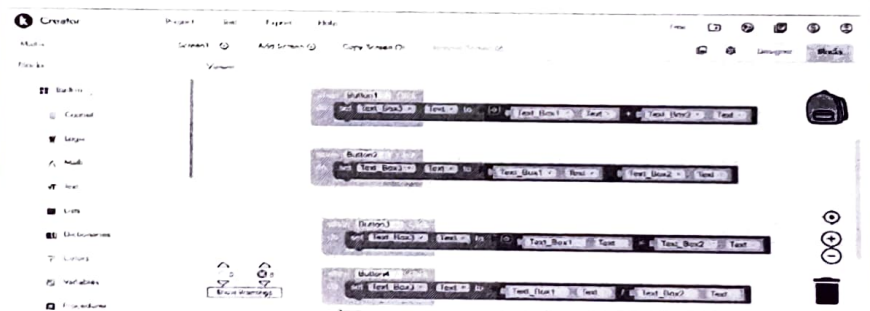
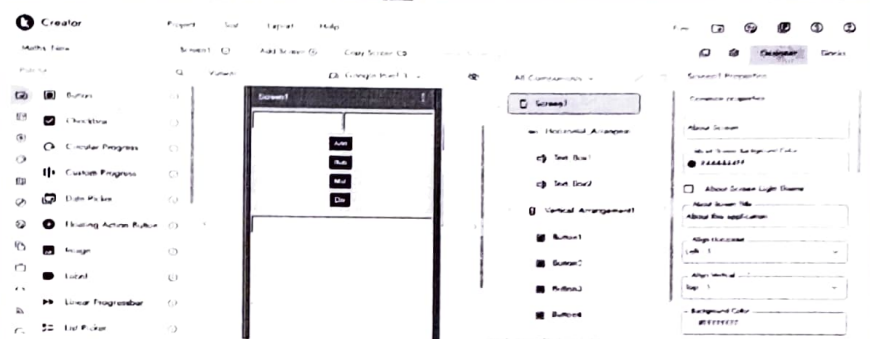
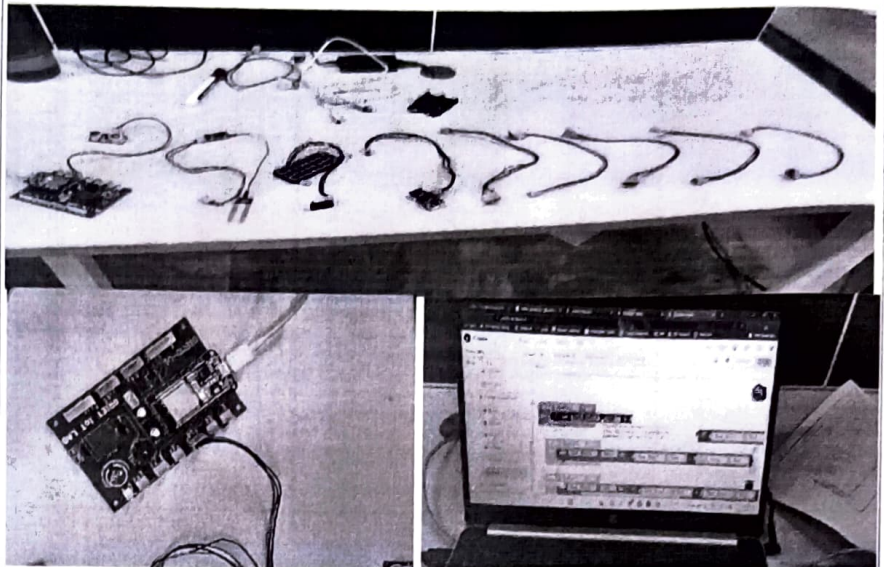
GRIET/6C/G/22-23

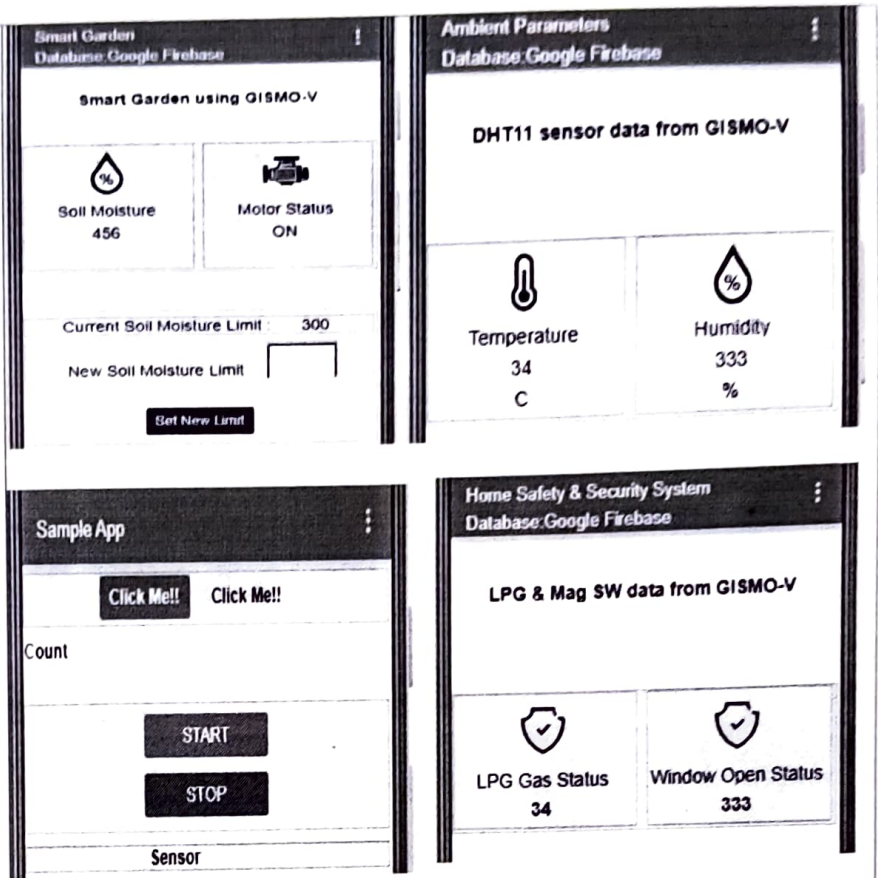
EVENT SUMMARY REPORT

Griet /Other institutes/Organization Address:	GRIET		
Department	Civil Engineering	Professional Body	Institutional Body
Nature of the Event (Co & Extra Curricular Activities -Workshop / Seminar / Guest Lecture / Tech Talk/FDP/GD/ Training Program / Quiz / Any Prof. Body events/Presentation/ Conference/ Industry Visit)	Value Added Course		
Title / Theme of the Event	Internet of Things (IoT) in Civil Engineering : Applications and Case Studies		
Details of the Coordinator& Designation	Convenor Dr. C. Lavanya, Professor & HOD, CE, GRIET		
	Coordinators 1. Mr. Akula Prakash Assistant Professor, CE, GRIET 2. Ms. K. Hemalatha Assistant Professor, CE, GRIET		
Event Dates/Days	From	To	No. of Days
	24/02/2023	15/03/2023	15
Details of the Speaker / Guest Organization Address:	1. Dr. O.S.D. Hima Bindu Associate Professor, CE, GRIET 2. Mr. C. Vivek Kumar Assistant Professor, CE, GRIET 3. Mr. Akula Prakash, Assistant Professor, CE, GRIET 4. Mr. A Vittalaiah, Assistant Professor, CE, GRIET 5. Ms. G. Swetha Assistant Professor, CE, GRIET		

**Photographs of the
event**
(Hard copy and Soft copy)







Proofs:

1. Certificates copies
2. Profile of Speaker
3. PPT/Material as applicable. etc.,



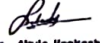

GOKARAJU RANGARAJU
 Institute of Engineering and Technology
 VALUE ADDED COURSE
 

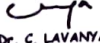
OR
 Internet of Things (IoT) in Civil Engineering : Applications and Case Studies
 24th February to 15th March 2023
 Organized by
 Department of Civil Engineering



Certificate of Participation

This is to certify that **MEERU MAHESH**, Bearing Roll Number 20241A0127 Pursuing III B. Tech II Semester in the Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology has completed Value Added Course on Internet of Things (IoT) in Civil Engineering : Applications and Case Studies organized by Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology during 24th February to 15th March 2023.


 Mr. Akula Prakash
 Course Coordinator, CE


 Dr. C. LAVANYA
 Convener & HOD, CE


 Dr. J. PRAVEEN
 Principal, GRIET


GOKARAJU RANGARAJU
 Institute of Engineering and Technology
 VALUE ADDED COURSE
 

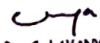
OR
 Internet of Things (IoT) in Civil Engineering : Applications and Case Studies
 24th February to 15th March 2023
 Organized by
 Department of Civil Engineering



Certificate of Participation

This is to certify that **P. ANUSHA**, Bearing Roll Number 20241A0137 Pursuing III B. Tech II Semester in the Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology has completed Value Added Course on Internet of Things (IoT) in Civil Engineering : Applications and Case Studies organized by Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology during 24th February to 15th March 2023.


 Mr. Akula Prakash
 Course Coordinator, CE


 Dr. C. LAVANYA
 Convener & HOD, CE


 Dr. J. PRAVEEN
 Principal, GRIET

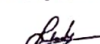

GOKARAJU RANGARAJU
 Institute of Engineering and Technology
 VALUE ADDED COURSE
 

OR
 Internet of Things (IoT) in Civil Engineering : Applications and Case Studies
 24th February to 15th March 2023
 Organized by
 Department of Civil Engineering

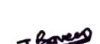


Certificate of Participation

This is to certify that **PATERU MOUNA**, Bearing Roll Number 21245A0105 Pursuing III B. Tech II Semester in the Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology has completed Value Added Course on Internet of Things (IoT) in Civil Engineering : Applications and Case Studies organized by Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology during 24th February to 15th March 2023.


 Mr. Akula Prakash
 Course Coordinator, CE


 Dr. C. LAVANYA
 Convener & HOD, CE


 Dr. J. PRAVEEN
 Principal, GRIET

Signature of Coordinators

- Mr. Akula Prakash
Assistant Professor, CE, GRIET.
- Ms. K. Hemalatha
Assistant Professor, CE, GRIET.

Signature of Convener

Dr. C. Lavanya
Professor & HOD, CE, GRIET.

PROFESSOR AND HEAD
 Department of Civil Engineering
 Gokaraju Rangaraju Institute of
 Engineering and Technology
 Bachupally, Kyatpally,
 Hyderabad-500 090

Internet of Things (IoT) in Civil Engineering -Applications and Case Studies (Value Added Course) : Feedback and Quiz

Feedback form regarding

VALUE ADDED COURSE

on

Internet of Things (IoT) in Civil Engineering -Applications and Case Studies

Organized by
Department of Civil Engineering
Gokaraju Rangaraju Institute of Engineering and Technology

during

24th
February to 15th
March 2023

* Required

1. NAME OF THE STUDENT (To be Printed on Certificate) *

2. ROLL NUMBER (To be Printed on Certificate) *

3. NAME OF THE COLLEGE *

4. CONTACT NUMBER *

5. E-MAIL ID *

QUIZ EXAMINATION

TOTAL NUMBER OF QUESTIONS : 30
EACH QUESTION CARRIES 1 MARK

PARTICIPANTS NEED TO SECURE MINIMUM OF 50% TO FETCH PARTICIPATION CERTIFICATE

6. What is the full form of IoT? *

1 point

Mark only one oval

- ☐ Internet of Technology
☐ Incorporate of Things
☐ Internet of Things
☐ Incorporate of Technology

7. What is IoT? *

1 point

Mark only one oval

- ☐ network of physical objects embedded with sensors
- ☐ network of virtual objects
- ☐ network of objects in the ring structure
- ☐ network of sensors

8. Who coined the term "Internet of Things"? *

1 point

Mark only one oval

- ☐ Kevin Aston
- ☐ John Wright
- ☐ Edward Jameson
- ☐ George Garton

9. When was the actual term "Internet of Things" coined? *

1 point

Mark only one oval.

- ☐ 1998
- ☐ 1999
- ☐ 2000
- ☐ 2002

10. Which of the following is not an IoT device? *

1 point

Mark only one oval.

- ☐ Table
- ☐ Laptop
- ☐ Arduino
- ☐ Tablet

11. Which of the following is not an IoT platform? *

1 point

Mark only one oval.

- ☐ Amazon Web Services
- ☐ Microsoft Azure
- ☐ Salesforce
- ☐ Flipkart

12. The two mandatory functions in an Arduino sketch are: *

1 point

Mark only one oval.

- ☐ setup()
- ☐ loop()
- ☐ main()
- ☐ both setup() and loop()

13. The kind of statements you will find in `loop()` are: *

Mark only one oval

- ☐ Initialization statements
- ☐ Statements that need to be repeated over and over again
- ☐ Both kind of statements
- ☐ Only print statements

1 point

14. The Arduino function used to configure a GPIO pin as input or output: *

Mark only one oval

- ☐ `pinMode()`
- ☐ `pinConfigure()`
- ☐ `digitalWrite()`
- ☐ `digitalRead()`

1 point

15. The Arduino function used to write to a GPIO pin is: *

Mark only one oval

- ☐ `pinMode()`
- ☐ `pinConfigure()`
- ☐ `digitalWrite()`
- ☐ `digitalRead()`

1 point

16. The Arduino function used to read from a GPIO pin is: *

Mark only one oval

- ☐ `pinMode()`
- ☐ `pinConfigure()`
- ☐ `digitalWrite()`
- ☐ `digitalRead()`

1 point

17. The parameters taken by the `pinMode()` function are: *

Mark only one oval

- ☐ pin number, mode
- ☐ processor, speed
- ☐ pin number only
- ☐ mode only

1 point

18. The parameters for the `digitalWrite()` function are: *

Mark only one oval

- ☐ pin number, state
- ☐ pin number only
- ☐ state only
- ☐ the function takes no parameters

19. The parameters for the digitalRead() function are: *

1 point

Mark only one oval.

- ☐ pin number, state
- ☐ pin number only
- ☐ state only
- ☐ the function takes no parameters

20. The analogRead() function is used to read: *

1 point

Mark only one oval.

- ☐ analog inputs
- ☐ digital inputs
- ☐ analog outputs
- ☐ digital outputs

21. To switch on an LED with a GPIO pin, the function to use is: *

1 point

Mark only one oval.

- ☐ digitalWrite()
- ☐ digitalRead()
- ☐ analogWrite()
- ☐ analogRead()

22. To read the status of a switch connected to a GPIO pin, the function to use is: *

1 point

Mark only one oval.

- ☐ digitalRead()
- ☐ analogWrite()
- ☐ analogRead()
- ☐ digitalWrite()

23. The parameter that the Serial.begin() function takes is: *

1 point

Mark only one oval.

- ☐ Baud rate
- ☐ Processor speed
- ☐ Transmit pin number
- ☐ Receive pin number

24. The Serial.print() statement can be used to transfer serial data in ASCII format from: *

1 point

Mark only one oval.

- ☐ From Starter Kit to laptop
- ☐ From laptop to Starter Kit
- ☐ From Starter Kit to Internet
- ☐ From laptop to cloud database

25. Firebase is a product of: *

1 point

Mark only one oval.

- ☐ Amazon
- ☐ Google
- ☐ Microsoft
- ☐ Intel

26. Firebase RealTime Database is hosted in: *

1 point

Mark only one oval.

- ☐ Laptop
- ☐ Cloud
- ☐ Both

27. Data in Firebase RealTime Database is stored as: *

1 point

Mark only one oval.

- ☐ Key-value pairs
- ☐ Tables
- ☐ Both options are possible

28. You can create a Firebase account and sign in using your: *

1 point

Mark only one oval.

- ☐ Amazon Account
- ☐ Gmail Account
- ☐ Twitter Account
- ☐ Instagram Account

29. Important credentials required for Firebase access from Arduino are: *

1 point

Mark only one oval.

- ☐ Host URL
- ☐ Database secret key
- ☐ Both a and b

30. From the Arduino framework you can: *

1 point

Mark only one oval.

- ☐ Write values to the Firebase Realtime DB
- ☐ Read values from the Firebase Realtime DB
- ☐ Both of the above

31. Kodular is a mobile app development platform for *

1 point

Mark only one oval

- ☐ Android
- ☐ IOS
- ☐ Windows
- ☐ All

32. App development in Kodular is based on a *

1 point

Mark only one oval

- ☐ Java coding
- ☐ Drag and drop approach
- ☐ C, C++ coding
- ☐ Visual Basic

33. Components in an app made in Kodular define the: *

1 point

Mark only one oval

- ☐ Logic and Behaviour of the app
- ☐ Look and Feel of the app
- ☐ Procedure for downloading the app to phone
- ☐ All of the above

34. Blocks in an app made in Kodular: *

1 point

Mark only one oval

- ☐ Logic and Behaviour of the app
- ☐ Look and Feel of the app
- ☐ Procedure for downloading the app to phone
- ☐ All of the above

35. What action to perform in case of an event such as button click gets defined in *

1 point

Mark only one oval

- ☐ Blocks
- ☐ Components
- ☐ Properties
- ☐ All of the above

KINDLY PROVIDE YOUR VALUABLE FEEDBACK

36 YOUR OVERALL SATISFACTION LEVEL ABOUT THE VAO *

Scale 1-5

UNLIKELY

1

2

3

4

5

MOST LIKELY

37 THE SESSIONS WAS IN CLEAR AND ORGANIZED MANNER *

Scale 1-5

UNLIKELY

1

2

3

4

5

MOST LIKELY

38 THE RESOURCE PERSONS RESPONDED TO QUESTIONS IN AN INFORMATIVE AND APPROPRIATE *

Scale 1-5

UNLIKELY

1

2

3

4

5

MOST LIKELY

39. DO YOU NEED MORE PROGRAMS LIKE THIS ?? *

UNLIKELY

1 ☐

2 ☐

3 ☐

4 ☐

5 ☐

MOST LIKELY

40. KEY TAKEAWAYS FROM THE VAC *

41. YOUR SUGGESTIONS AND COMMENTS *

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Gokaraju Rangaraju Institute of Engineering & Technology
(Autonomous)
Bachupally, Nizampet Road, Kukatpally, Hyderabad-500009
Value-Added Course on Internet of Things (IoT) in Civil Engineering - Applications and Case Studies
FEEDBACK RESPONSES

S. No	Roll No.	Name of the Student	YOUR OVERALL SATISFACTION LEVEL ABOUT THE VAC	THE SESSIONS WAS IN CLEAR AND ORGANIZED MANNER	THE RESOURCE PERSONS RESPONDED TO QUESTIONS IN AN INFORMATIVE AND APPROPRIATE	DO YOU NEED MORE PROGRAMS LIKE THIS ??	KEY TAKEAWAYS FROM THE VAC	YOUR SUGGESTIONS AND COMMENTS
1	20241A0104	Bandla Naveen	5	5	5	5	Nil	Nil
2	20241A0110	Donaboina Sri Hari	5	5	5	5	Nothing	Nothing
3	20241A0112	G L N Raghuraman	4	4	4	4	Upto the Mark	Need More Sessions
4	20241A0113	G Harshith Kumar	5	5	5	5	We could know about uses of IOT in daily life	Very good
5	20241A0115	Gunda Srikanth	5	5	5	5	Applications	Good
6	20241A0116	Jangili Sravan Kumar	4	4	4	4	Great topic	It's already best
7	20241A0117	Janjirala Sruthi	5	5	5	5	lot	Good
8	20241A0119	K Nikhitha	4	4	4	4	Satisfactory	Encouragement should be done
9	20241A0122	Kammampati Udaykiran	4	5	5	5	Nil	Nil
10	20241A0123	Karne Srithan	3	4	4	4	Nil	Good
11	20241A0125	Kunta Nithin Reddy	4	4	4	4	IOT	Good
12	20241A0127	Mere Mahesh	3	3	3	3	Different applications of iot	Good
13	20241A0128	Mohammed Ahmed	4	4	4	4	IOT	Nothing
14	20241A0129	Mothukuri Laxman	5	5	5	5	Nil	Nil
15	20241A0131	M Sushma Sri	2	2	2	2	IoT	Good
16	20241A0132	Nayini Swetha	3	3	3	3	Full	Nil
17	20241A0134	Pannala Sai Kiran Reddy	5	4	4	5	Nil	Nil
18	20241A0136	Pathlavath Shiva Nayak	5	4	4	4	Good	Good
19	20241A0137	Peddiboina Anusha	5	5	5	5	Better Knowledge on working of IoT devices	Good
20	20241A0141	Radharapu Shaji Kumar	4	4	4	4	Good	Use updated codes

21	20241A0142	Ramavath Roja	4	4	4	4	5	Nil	Nil
22	20241A0143	Rathlavath Salram Nayak	5	5	5	5	4	Very good	Good program
23	20241A0144	Raviteja Pasunuthi	5	5	5	5	5	Iot	Good
24	20241A0147	Sathvika Narla	2	2	2	2	2	Knowledge	No comments
25	20241A0149	Sriram Pandavula	5	5	5	5	4	Nil	Nil
26	20241A0150	T Bhargavi	5	5	5	5	5	Yes	No
27	20241A0151	T Bhuvaneshwari	4	4	4	4	4	Good and encouraging to students to develop the knowledge in all fields not only to a confined field	More courses and good technology should be given to students so that they can excel in their study in the overall kind.
28	20241A0152	S Teja Retiesh Reddy	5	5	5	5	5	Nothing	Nothing
29	20241A0153	Tejavath Kalyani	5	5	5	5	5	Nothing	Nothing
30	20241A0154	Prudhvi Raj Tellapuram	5	5	5	5	5	Nothing	Good
31	20241A0155	Rohith Thadern	5	5	5	5	5	Nothing	Good
32	20241A0156	Thummala Rajashekar	5	5	5	5	3	I got an idea in IOT	Conducted this exam is good
33	20241A0157	U Kameswara Sai Karthik	4	4	4	4	4	Good	Good
34	20241A0158	Sreeram Vattam	3	4	3	3	3	Knowledge about IOT	No comments
35	20241A0160	V Srikar	5	5	5	5	5	Very good	Very good
36	21245A0101	G Arun Kumar	5	5	5	5	5	No comments	No comments
37	21245A0102	K Sriram	5	5	5	5	5	An intro to IoT	More workshops is Required
38	21245A0103	Manikonda Nikitha	3	5	5	4	4	Nothing	good
39	21245A0104	Prathyusha Paridula	4	4	4	4	5	Nothing	More training is Required
40	21245A0105	Mouna Pateru	3	4	4	4	4	No	Good

Cardinal

20/3/2023

20/3/2023



Gokaraju Rangaraju Institute of Engineering & Technology

(Autonomous)

Bachupally, Nizampet Road, Kukatpally, Hyderabad-500009

Value-Added Course on Internet of Things (IoT) in Civil Engineering - Applications and Case Studies

Internal Assessment Score

S. No	Roll No.	Name of the Student	Email ID	Phone Number	Score
1	20241A0104	Bandla Naveen	nidunaveen456@gmail.com	6303471495	26 / 30
2	20241A0110	Donaboina Sri Hari	srihari9732@gmail.com	9000034399	19 / 30
3	20241A0112	G L N Raghuraman	glnraghu123@gmail.com	9959932020	20 / 30
4	20241A0113	G Harshith Kumar	harshithkumar6112@gmail.com	9959987972	18 / 30
5	20241A0115	Gunda Srikanth	gundasrikanth2002@gmail.com	9398206325	15 / 30
6	20241A0116	Jangili Sravan Kumar	sravanpatel58@gmail.com	8463970544	21 / 30
7	20241A0117	Janjirala Sruthi	sruthijanirala07@gmail.com	6304220823	23 / 30
8	20241A0119	K Nikhitha	nikhithakakularam119@gmail.com	6302866223	22 / 30
9	20241A0122	Kammampati Udaykiran	udaykammampati@gmail.com	9948968656	23 / 30
10	20241A0123	Karne Srithan	srithankarne11@gmail.com	7729081313	27 / 30
11	20241A0125	Kunta Nithin Reddy	nithinreddy4304@gmail.com	6281158473	20 / 30
12	20241A0127	Mere Mahesh	maheshmereyohasha@gmail.com	6303521983	26 / 30
13	20241A0128	Mohammed Ahmed	mateen81202@gmail.com	7386719487	27 / 30
14	20241A0129	Mothukuri Laxman	ramlaxmanbharath888@gmail.com	6309547042	23 / 30
15	20241A0131	M Sushma Sri	sushmasrimula95@gmail.com	8179462003	22 / 30
16	20241A0132	Nayini Swetha	swethanayini02@gmail.com	6281572952	17 / 30
17	20241A0134	Pannala Sai Kiran Reddy	saikiranreddy22@gmail.com	9347912286	18 / 30
18	20241A0136	Pathlavath Shiva Nayak	pathlavathshivanayak68@gmail.com	9381802955	17 / 30
19	20241A0137	Peddiboina Anusha	pedhiboyinasrinu@gmail.com	9100979527	19 / 30
20	20241A0141	Radharapu Shaji Kumar	radharapushajikumar@gmail.com	8985229228	22 / 30
21	20241A0142	Ramavath Roja	rojaramavath031@gmail.com	7036622719	18 / 30
22	20241A0143	Rathlavath Sairam Nayak	sairamstunner143@gmail.com	6281080681	23 / 30
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26	20241A0150	T Bhargavi	bhargavit263@gmail.com	6303032235	20 / 30
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28	20241A0152	S Teja Retiesh Reddy	ritieshreddy@gmail.com	8074196459	22 / 30
29	20241A0153	Tejavath Kalyani	kalyanitejavath7@gmail.com	8688960330	19 / 30
30	20241A0154	Prudhvi Raj Tellapuram	tellapuramprudhvi@gmail.com	8185995072	19 / 30
31	20241A0155	Rohith Thadem	rohiththadem18@gmail.com	6303006214	17 / 30
32	20241A0156	Thummala Rajashekar	tummalavicky2@gmail.com	9494391440	16 / 30
33	20241A0157	U Kameswara Sai Karthik	uppulurekarthik@gmail.com	8074982921	30 / 30
34	20241A0158	Sreeram Vattam	sreeramv2002@gmail.com	9515259150	19 / 30
35	20241A0160	V Srikar	srikarvennam007@gmail.com	7729889522	17 / 30
36	21245A0101	G Arun Kumar	arunkumargummadavelli@gmail.com	9866272260	20 / 30
37	21245A0102	K Sriram	kadirabadsriram@gmail.com	9014317210	28 / 30
38	21245A0103	Manikonda Nikitha	manikondanikitha666@gmail.com	7780283337	21 / 30
39	21245A0104	Prathyusha Paridula	pparidula@gmail.com	8522958632	19 / 30
40	21245A0105	Mouna Pateru	mounapateru357@gmail.com	9652541293	27 / 30

Conducted by
July 2023

2/7/2023



GOKARAJU RANGARAJU

Institute of Engineering and Technology

VALUE ADDED COURSE



on

Internet of Things (IoT) in Civil Engineering : Applications and Case Studies

24th February to 15th March 2023

Organized by
Department of Civil Engineering

Certificate of Participation

This is to certify that **MERE MAHESH**, Bearing Roll Number **20241A0127** Pursuing **III B. Tech II Semester** in the *Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology* has completed **Value Added Course on Internet of Things (IoT) in Civil Engineering : Applications and Case Studies** organized by Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology during 24th February to 15th March 2023.



Mr. Akula Prakash
Course Coordinator, CE

Dr. C. LAVANYA
Convenor & HoD, CE

Dr. J. PRAVEEN
Principal, GRIET



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Certificate of Participation



This is to certify that **Sathvika Narla**, Bearing Roll Number **20241A0147** Pursuing **III B. Tech II Semester** in the **Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology** has completed **Value Added Course on Internet of Things (IoT) in Civil Engineering : Applications and Case Studies** organized by Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology during **24th February to 15th March 2023**.

Mr. Akula Prakash
Course Coordinator, CE

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Principal, GRIET



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This is to certify that **Manikonda Nikitha**, Bearing Roll Number **21245A0103** Pursuing **III B. Tech II Semester** in the **Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology** has completed **Value Added Course on Internet of Things (IoT) in Civil Engineering : Applications and Case Studies** organized by Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology during 24th February to 15th March 2023.

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