KG REDDY
College of Engineering
& Technology

Certificate Course in Computer Science and Engineering with Specialization "Internet Of Things"

Held On

11 February to 15 February 2019

Department of computer Science Engineering,

Kg Reddy College of Engineering & Technology

Chilkur(Village), Moinabad(Mandal), RR Dist-501504

Coordinator

Principal

Principal
KG Reddy College of Engineering & Technology
Chilkur (V), Moinabad (M),
R.R.Dist., Telangana

SUMMARY REPORT OF INTERNET OF THINGS (IOT)

About Course

The certificate course on Internet of Things (IOT) is concluded its work successfully by department of computer science and engineering (CSE) in KG ready college of Engineering and technology (KGRCET), Hyderabad, Telangana. This course is a forum to bring together students to discuss innovative ideas and diverse topics of this course on next generation of information technologies. Department has taken a new step for students to improve the quality of study through this course and become most wide scale , extensive, spectacular event in computer science engineering. The five days course was held in two locations of the department (a) Department E-learning room for theory class and (b) Department laboratory for practical class.

The Internet of things (IoT) refers to the concept of extending Internet connectivity beyond conventional computing platforms such as personal computers and mobile devices, and into any range of traditionally *"dumb"* or non-internet-enabled physical devices and everyday objects. Embedded with electronics, Internet connectivity, and other forms of hardware (such as sensors), these devices can communicate and interact with others over the Internet, and they can be remotely monitored and controlled. The definition of the Internet of things has evolved due to convergence of multiple technologies, real-time analytics, machine learning, commodity sensors, and embedded systems. Traditional fields of embedded systems, wireless sensor networks, control systems, automation (including home and building automation), and others all contribute to enabling the Internet of things. In the consumer market, IoT technology is most synonymous with products pertaining to the concept of the "smart home", covering devices and appliances (such as lighting fixtures, thermostats, home security systems and cameras, and other home appliances) that support one or more common ecosystems, and can be controlled via devices associated with that ecosystem, such as smart phones and smart speakers.

This course is absolutely practical oriented course which is helped to student for making their carrier through IOT in any industry. The students of 4th year 2nd semester have been benefited in many ways from this course. More than 80 students have joined in this course as their own interest and completed this course. The trainer taught to students very nice with real time example and sharing his knowledge to develop technical skill in industry.

Scope of the Course

The role of IOT is to be emphasized in computer science and engineering, to enhance and motivate the new technology for wide range of applications. It could automate stuff in home to make faster decision, communicate instantly, and monitor the stuff which is most important. It can be more effective automating non-value added activities and spend more time where it want to focus (this is more of my personal productive advice when it comes to automating things). Home automation has a great potential for consumers market. Startups and Big companies are joining together to take a leap forward.

The course contains both theory and practical for applications as well as design methods based on IOT related topics. The list of topics spans all the areas of the IOT and engineering

domains. It covered significant recent developments in the field, both of a foundational and applicable character of this course. An important feature of this course is very useful in service carrier. The selected topics of this course helped to make project work. This permits also a rapid and broad dissemination of project and research work.

Objectives of the course

The objective of the course is to bring together experts from academic institute and training institute for sharing of knowledge, expertise and experience in emerging trends related to the computer science and engineering topics. The overall goal of the BIG IoT project is to remove technological market entry barriers of service and application providers of the Internet of Things by exploiting the capabilities of smart object platforms through establishing syntactic and semantic interoperability. The course covered all topics of IOT system as well as engineering system related to computer science engineering. Broad and individual topics are mentioned in syllabus but not limited. Specific tracks of the course had been taken for different session of the day.

As a result many keynote, tutorial and technical sessions have been prepared in accordance with course scope to discuss the challenges, opportunities and problems of application of computer science engineering in various fields.

Output

This course was not only shared the knowledge among students but also tied up with expert for upcoming course. The Internet of Things (IoT) will transform our world. Connecting all of the "things" that touch our everyday and professional lives through sensors and cloud computing which promises to unlock the door to the next industrial revolution. IoT can seem like "magic" for two reasons: (1) the all-encompassing nature of the concept, and (2) unnecessarily confusing technical explanations. My goal is to clear up the confusion with some simple Internet of Things examples and applications.

The main outputs are mentioned below:

- The expert shared his knowledge among students.
- Students learned from this course and tried to use the techniques for their project as well as research work.
- Students interact with expert to gain their additional knowledge for future research work.
- Department tried to do their collaborative research work on this course with university as well as industries.
- It helped to make industrial project.
- It helped to student for campus recruitment as well as database development.

Summary of Participants

(a) Number of students attended this course: 101
(b) Number of students attended written exam: 97
(c) Number of students qualified the exam: 30

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Day-1
(11-02-19)

Time: 09:00 AM to 11:00 AM

Inauguration of certificate course

The first day of certificate course started with Welcoming and Opening Ceremony at the KGRCET conference Hall. The following dignitaries were representatives of the certificate course who were addressed and pointed out the importance on course with short welcoming speeches.

Welcome addressed by Mr. M. Saidi Reddy, HOD, CSE, KGRCET
About the certificate course by Principal Dr. R. S. Jahagirdar, KGRCET.
Importance of this course by expert trainer Dr. Sudhir Ranjan Pattanaik, KL university, AP
Interaction with 4th year II semester students

Time: 11.00AM to 4:15 AM

IoT Definitions: The term Internet of Things generally refers to scenarios where network connectivity and computing capability extends to objects, sensors and everyday items not normally considered computers, allowing these devices to generate, exchange and consume data with minimal human intervention. There is, however, no single, universal definition.
Enabling Technologies: The concept of combining computers, sensors, and networks to monitor and control devices has existed for decades. The recent confluence of several technology market trends, however, is bringing the Internet of Things closer to widespread reality. These include Ubiquitous Connectivity, Widespread Adoption of IP-based Networking, Computing Economics, Miniaturization, Advances in Data Analytics, and the Rise of Cloud Computing.

Connectivity Models: IoT implementations use different technical communications models, each with its own characteristics. Four common communications models described by the Internet Architecture Board include: *Device-to-Device, Device-to-Cloud, Device-to-Gateway*, and *Back-End Data-Sharing*. These models highlight the flexibility in the ways that IoT devices can connect and provide value to the user.

Transformational Potential: If the projections and trends towards IoT become reality, it may force a shift in thinking about the implications and issues in a world where the most common interaction with the Internet comes from passive engagement with connected objects rather than active engagement with content. The potential realization of this outcome – a "hyperconnected world" — is testament to the general-purpose nature of the Internet architecture itself, which does not place inherent limitations on the applications or services that can make use of the technology.

Five key IoT issue areas are examined to explore some of the most pressing challenges and questions related to the technology. These include security; privacy; interoperability and standards; legal, regulatory, and rights; and emerging economies and development.

Day-2
(12-02-19)

Security

While security considerations are not new in the context of information technology, the attributes of many IoT implementations present new and unique security challenges. Addressing these challenges and ensuring security in IoT products and services must be a fundamental priority.Users need to trust that IoT devices and related data services are secure from vulnerabilities, especially as this technology become more pervasive and integrated into our daily lives. Poorly secured IoT devices and services can serve as potential entry points for cyber attack and expose user data to theft by leaving data streams inadequately protected.

The interconnected nature of IoT devices means that every poorly secured device that is connected online potentially affects the security and resilience of the Internet globally. This challenge is amplified by other considerations like the mass-scale deployment of homogenous IoT devices, the ability of some devices to automatically connect to other devices, and the likelihood of fielding these devices in unsecure environments.

As a matter of principle, developers and users of IoT devices and systems have a collective obligation to ensure they do not expose users and the Internet itself to potential harm. Accordingly, a collaborative approach to security will be needed to develop effective and appropriate solutions to IoT security challenges that are well suited to the scale and complexity of the issues.

Privacy

The full potential of the Internet of Things depends on strategies that respect individual privacy choices across a broad spectrum of expectations. The data streams and user specificity afforded by IoT devices can unlock incredible and unique value to IoT users, but concerns about privacy and potential harms might hold back full adoption of the Internet of

Things. This means that privacy rights and respect for user privacy expectations are integral to ensuring user trust and confidence in the Internet, connected devices, and related services.
Indeed, the Internet of Things is redefining the debate about privacy issues, as many implementations can dramatically change the ways personal data is collected, analyzed, used, and protected. For example, IoT amplifies concerns about the potential for increased surveillance and tracking, difficulty in being able to opt out of certain data collection, and the strength of aggregating IoT data streams to paint detailed digital portraits of users. While these are important challenges, they are not insurmountable. In order to realize the opportunities, strategies will need to be developed to respect individual privacy choices across a broad spectrum of expectations, while still fostering innovation in new technology and services.

Interoperability / Standards

A fragmented environment of proprietary IoT technical implementations will inhibit value for users and industry. While full interoperability across products and services is not always feasible or necessary, purchasers may be hesitant to buy IoT products and services if there is integration inflexibility, high ownership complexity, and concern over vendor lock-in.
In addition, poorly designed and configured IoT devices may have negative consequences for the networking resources they connect to and the broader Internet. Appropriate standards, reference models, and best practices also will help curb the proliferation of devices that may act in disrupted ways to the Internet. The use of generic, open, and widely available standards as technical building blocks for IoT devices and services (such as the Internet Protocol) will support greater user benefits, innovation, and economic opportunity.

Legal, Regulatory and Rights

The use of IoT devices raises many new regulatory and legal questions as well as amplifies existing legal issues around the Internet. The questions are wide in scope, and the rapid rate of change in IoT technology frequently outpaces the ability of the associated policy, legal, and regulatory structures to adapt.

One set of issues surrounds cross border data flows, which occur when IoT devices collect data about people in one jurisdiction and transmit it to another jurisdiction with different data protection laws for processing. Further, data collected by IoT devices is sometimes susceptible to misuse, potentially causing discriminatory outcomes for some users. Other legal issues with IoT devices include the conflict between law enforcement surveillance and civil rights; data retention and destruction policies; and legal liability for unintended uses, security breaches or privacy lapses.

While the legal and regulatory challenges are broad and complex in scope, adopting the guiding Internet Society principles of promoting a user's ability to *connect, speak, innovate, share, choose*, and *trust* are core considerations for evolving IoT laws and regulations that enable user rights.

Day-3
(13-02-19)

Emerging Economy and Development Issues

The Internet of Things holds significant promise for delivering social and economic benefits to emerging and developing economies. This includes areas such as sustainable agriculture, water quality and use, healthcare, industrialization, and environmental management, among others. As such, IoT holds promise as a tool in achieving the United Nations Sustainable Development Goals.

The broad scope of IoT challenges will not be unique to industrialized countries. Developing regions also will need to respond to realize the potential benefits of IoT. In addition, the unique needs and challenges of implementation in less-developed regions will need to be addressed, including infrastructure readiness, market and investment incentives, technical skill requirements, and policy resources.

The Internet of Things is happening now. It promises to offer a revolutionary, fully connected "smart" world as the relationships between objects, their environment, and people become more tightly intertwined. Yet the issues and challenges associated with IoT need to be considered and addressed in order for the potential benefits for individuals, society, and the economy to be realized.

IoT has evolved from the convergence of wireless technologies, microelectromechanical systems (MEMS), microservices and the internet. The convergence has helped tear down the silos between operational technology (OT) and information technology (IT), enabling unstructured machine-generated data to be analyzed for insights to drive improvements.

The first internet appliance, for example, was a Coke machine at Carnegie Mellon University in the early 1980s. Using the web, programmers could check the status of the machine and determine whether there would be a cold drink awaiting them, should they decide to make the trip to the machine.

IoT evolved from machine-to-machine (M2M) communication, i.e., machines connecting to each other via a network without human interaction. M2M refers to connecting a device to the cloud, managing it and collecting data.

Consumer and enterprise IoT applications: There are numerous real-world applications of the internet of things, ranging from consumer IoT and enterprise IoT to manufacturing and industrial IoT (IIoT). IoT applications span numerous verticals, including automotive, telco, energy and more.

In the consumer segment, for example, smart homes that are equipped with smart thermostats, smart appliances and connected heating, lighting and electronic devices can be controlled remotely via computers, smart phones or other mobile devices.

Wearable devices with sensors and software can collect and analyze user data, sending messages to other technologies about the users with the aim of making users' lives easier and more comfortable. Wearable devices are also used for public safety -- for example, improving first responders' response times during emergencies by providing optimized routes to a location or by tracking construction workers' or fire fighters' vital signs at life-threatening sites.

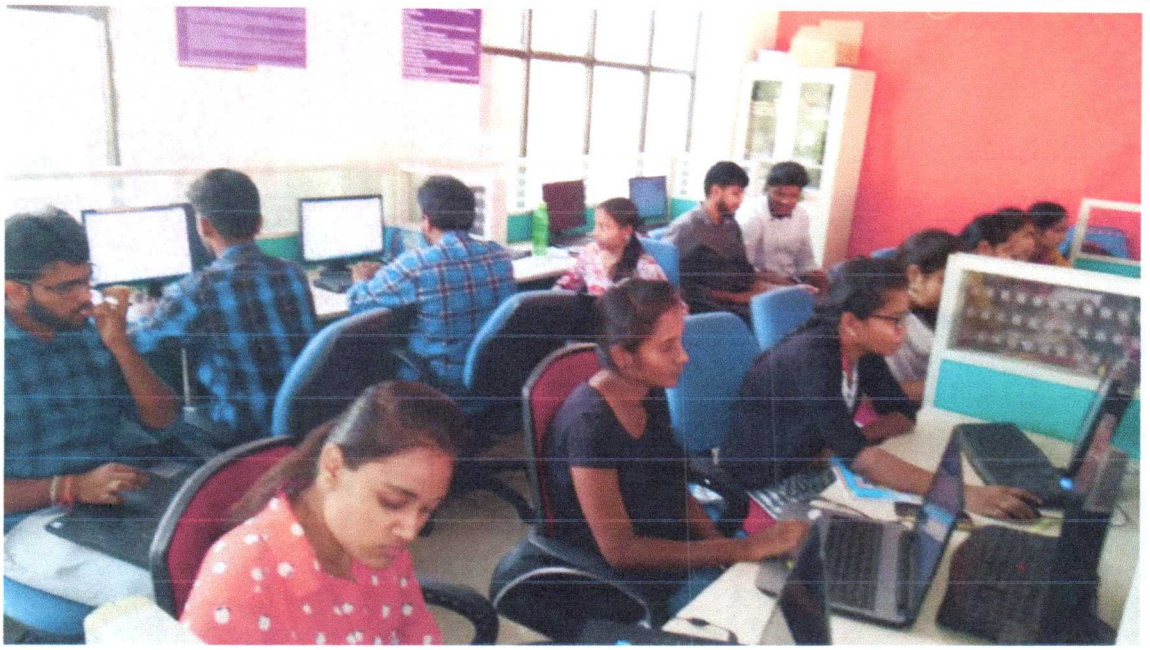
In agriculture, IoT-based smart farming systems can help monitor, for instance, light, temperature, humidity and soil moisture of crop fields using connected sensors. IoT is also instrumental in automating irrigation systems.

In a smart city, IoT sensors and deployments, such as smart streetlights and smart meters, can help alleviate traffic, conserve energy, monitor and address environmental concerns, and improve sanitation.

IoT security and privacy issues: The internet of things connects billions of devices to the internet and involves the use of billions of data points, all of which need to be secured. Due to its expanded attack surface, IoT security and IoT privacy are cited as major concerns.

One of the most notorious recent IoT attacks was Mirai, a botnet that infiltrated domain name server provider Dyn and took down many websites for an extended period of time in one of the biggest distributed denial-of-service (DDoS) attacks ever seen. Attackers gained access to the network by exploiting poorly secured IoT devices.

Because IoT devices are closely connected, all a hacker has to do is exploit one vulnerability to manipulate all the data, rendering it unusable. And manufacturers that don't update their devices regularly -- or at all -- leave them vulnerable to cybercriminals.



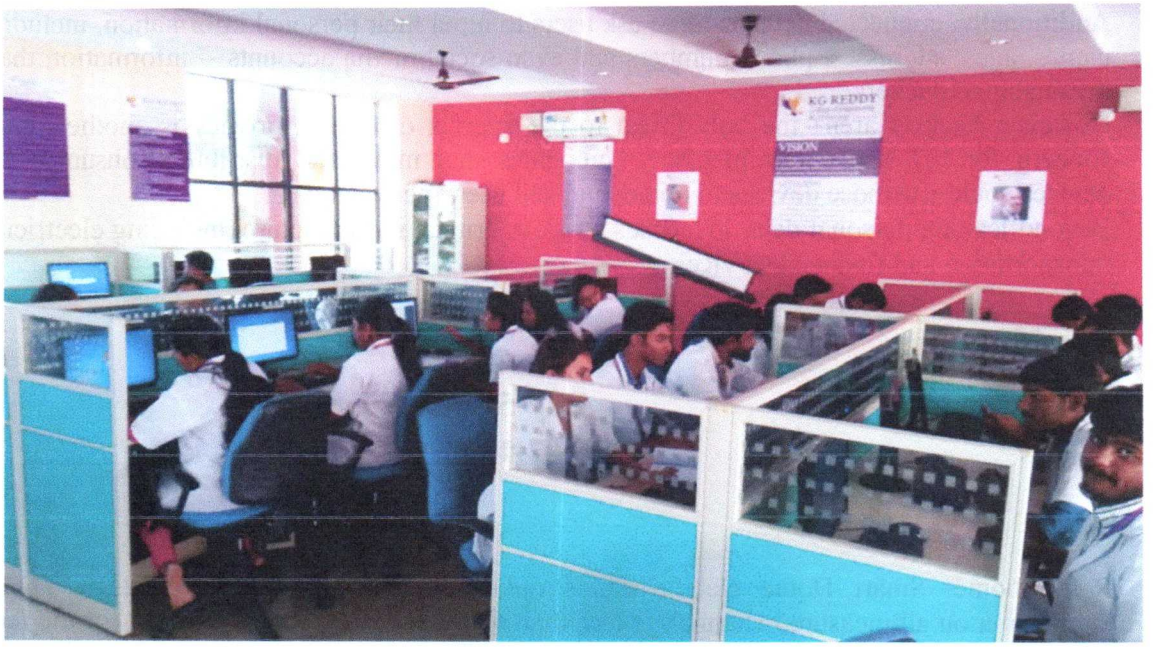
Taking M2M to the next level, IoT is a sensor network of billions of smart devices that connect people, systems and other applications to collect and share data. As its foundation, M2M offers the connectivity that enables IoT.

The internet of things is also a natural extension of SCADA (supervisory control and data acquisition), a category of software application program for process control, the gathering of data in real time from remote locations to control equipment and conditions. SCADA systems include hardware and software components. The hardware gathers and feeds data into a computer that has SCADA software installed, where it is then processed and presented it in a timely manner. The evolution of SCADA is such that late-generation SCADA systems developed into first-generation IoT systems.

The concept of the IoT ecosystem, however, didn't really come into its own until the middle of 2010 when, in part, the government of China said it would make IoT a strategic priority in its five-year plan.

Day-4
(14-02-19)

IoT works: An IoT ecosystem consists of web-enabled smart devices that use embedded processors, sensors and communication hardware to collect, send and act on data they acquire from their environments. IoT devices share the sensor data they collect by connecting to an IoT gateway or other edge device where data is either sent to the cloud to be analyzed or analyzed locally. Sometimes, these devices communicate with other related devices and act on the information they get from one another. The devices do most of the work without human intervention, although people can interact with the devices -- for instance, to set them up, give them instructions or access the data.



Smart grids:Smart grids is a special one. A future smart grid promises to use information about the behaviors of electricity suppliers and consumers in an automated fashion to improve the efficiency, reliability, and economics of electricity. 41,000 monthly Google searches highlights the concept's popularity. However, the lack of tweets (Just 100 per month) shows that people don't have much to say about it.

Industrial internet: The industrial internet is also one of the special Internet of Things applications. While many market researches such as Gartner or Cisco see the industrial internet as the IoT concept with the highest overall potential, its popularity currently doesn't reach the masses like smart home or wearables do. The industrial internet however has a lot going for it. The industrial internet gets the biggest push of people on Twitter compared to other non-consumer-oriented IoT concepts.

Connected car: The connected car is coming up slowly. Owing to the fact that the development cycles in the automotive industry typically take 2-4 years, we haven't seen much buzz around the connected car yet. But it seems we are getting there. Most large auto makers as well as some brave startups are working on connected car solutions. And if the BMWs and Fords of this world don't present the next generation internet connected car soon, other well-known giants will: Google, Microsoft, and Apple have all announced connected car platforms.

Additionally, connected devices often ask users to input their personal information, including names, ages, addresses, phone numbers and even social media accounts -- information that's invaluable to hackers.
However, hackers aren't the only threat to the internet of things; privacy is another major concern for IoT users. For instance, companies that make and distribute consumer IoT devices could use those devices to obtain and sell users' personal data.
Beyond leaking personal data, IoT poses a risk to critical infrastructure, including electricity, transportation and financial services.

Day-5
(15-02-19)

Smart home: Smart Home clearly stands out, ranking as highest Internet of Things application on all measured channels. More than 60,000 people currently search for the term "Smart Home" each month. This is not a surprise. The IoT Analytics company database for Smart Home includes 256 companies and startups. More companies are active in smart home than any other application in the field of IoT. The total amount of funding for Smart Home startups currently exceeds $2.5bn. This list includes prominent startup names such as Nest or AlertMe as well as a number of multinational corporations like Philips, Haier, or Belkin.

Wearables: Wearables remains a hot topic too. As consumers await the release of Apple's new smart watch in April 2015, there are plenty of other wearable innovations to be excited about: like the Sony Smart B Trainer, the Myo gesture control, or LookSee bracelet. Of all the IoT startups, wearables maker Jawbone is probably the one with the biggest funding to date. It stands at more than half a billion dollars.

Smart City: Smart city spans a wide variety of use cases, from traffic management to water distribution, to waste management, urban security and environmental monitoring. Its popularity is fueled by the fact that many Smart City solutions promise to alleviate real pains of people living in cities these days. IoT solutions in the area of Smart City solve traffic congestion problems, reduce noise and pollution and help make cities safer.

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Connected Health (Digital health/Telehealth/Telemedicine): Connected health remains the sleeping giant of the Internet of Things applications. The concept of a connected health care system and smart medical devices bears enormous potential (see our analysis of market segments), not just for companies also for the well-being of people in general. Yet, Connected Health has not reached the masses yet. Prominent use cases and large-scale startup successes are still to be seen.
Smart retail:Proximity-based advertising as a subset of smart retail is starting to take off. But the popularity ranking shows that it is still a niche segment. One LinkedIn post per month is nothing compared to 430 for smart home.

Smart supply chain:Supply chains have been getting smarter for some years already. Solutions for tracking goods while they are on the road, or getting suppliers to exchange inventory information have been on the market for years. So while it is perfectly logic that the topic will get a new push with the Internet of Things, it seems that so far its popularity remains limited.

Smart farming: Smart farming is an often overlooked business-case for the internet of Things because it does not really fit into the well-known categories such as health, mobility, or industrial. However, due to the remoteness of farming operations and the large number of livestock that could be monitored the Internet of Things could revolutionize the way farmers work. But this idea has not yet reached large-scale attention. Nevertheless, one of the Internet of Things applications that should not be underestimated. Smart farming will become the important application field in the predominantly agricultural-product exporting countries.

Readymade devices with secure connectivity to the cloud: AWS IoT 1-Click manufacturing partners create devices that can securely connect to the Cloud right out of the box. AWS IoT 1-Click supported devices are pre-provisioned with certificates at the time of manufacturing. This means that these devices can securely connect to the cloud right out of the box. Further, there is no need to write firmware or device specific code to use these devices.
AWS IoT Enterprise button: The AWS IoT Enterprise button is a Wi-Fi based, programmable button that is easy to configure and simple to use. You can use the AWS IoT Enterprise button to capture quick customer feedback without burdening customers with time-consuming questionnaires. It is designed for enterprises and developers to easily integrate with existing business workflows and systems using the AWS IoT 1-Click service. The AWS IoT Enterprise button supports three types of clicks: single, double, and long press. This device is available for purchase and deployment in the US, Europe and Japan. AT&T LTE-M button: The AT&T LTE-M button is a cellular based, programmable button, that connects over AT&T's nationwide (US only) LTE-M network. This device is available for purchase and deployment in the US.

Soracom LTE-M button: Soracom LTE-M button is a cellular based, programmable button with replaceable batteries, that connects over KDDI LTE-M network in Japan.

Use AWS Lambda to define device actions: AWS Lambda is a versatile programming environment that runs in the AWS cloud. You can associate device events with Lambda functions and thus integrate them into your enterprise workflows without having to touch the firmware on the device. Your Lambda functions can implement simple business logic itself using Java, Python, C# and similar languages. You can also trigger workflows in a variety of other places including on premise.

Organize and monitor your devices: You can group your devices based on your requirements and associate actions and contextual data with them. Such a group within AWS IoT 1-Click is called a "Project". You can also set actions and track health and at an individual device level using our Devices component. The service also gives you pre-defined reports of device activity or you can build custom reports using information published to Amazon Cloud Watch.

Mobile experience: IoT devices need to be managed and physically placed in your environment. AWS IoT 1-Click Mobile apps bring the cloud and physical devices together by enabling on-site placement of new devices in a physical location in a few steps. For example, you can pick a new device out of the box, update or add the location attribute of the device in your iOS or Android 1-Click mobile app in a few seconds and you are good to go.

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Ref No: KGRCET/CSE/2018-19/

Date: 01/02/2019

CIRCULAR

All the students of IV-Year II-semester B.Tech CSE are here by instructed to enroll for the certification course on "Internet of Things (IOT)", which is offered by KG Reddy college of Engineering and Technology from 11/02/2019 to 15/02/2019. Interested students are instructed to contact Dr. Hemanta Kumar Bhuyan for completing their registration before 10/02/2019.

HOD

HEAD
DEPT. OF COMPUTER SCIENCE & ENGINEERING
K.G. REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
CHILKUR (V), MOINABAD, R.R. DIST.501 504.

Principal

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE COURSE ON INTERNET OF THINGS

SCHEDULE

Day	Date	Timings	Topic name
1	11-02-19	09:00 to 11:00	Certificate Course on IOT
		11:10 to 01:00	Introduction: Introduction to IoT concept & Objective
		01:45 to 02:50	IoT History
		02:50 to 04:15	Introduction to IoT communication
2	12-02-19	09:00 to 11:00	Why IoT, IoT Architecture
		11:10 to 01:00	Telemetry Vs IoT
		01:45 to 02:50	IoT Technologies behind smart & Intelligence devices
		02:50 to 04:15	IoT Application: Home Automation, Health monitoring system
3	13-02-19	09:00 to 11:00	IoT Application: Smart Transportation and Smart Shopping
		11:10 to 01:00	Introduction IoT Hardware/Devices: Basics Of Microcontroller
		01:45 to 02:50	Microprocessor Vs Microcontroller
		02:50 to 04:15	Types of Sensor
4	14-02-19	09:00 to 11:00	actuators and their application
		11:10 to 01:00	Programming Fundamentals(C Programming)
		01:45 to 02:50	Introduction to Arduino microcontroller
		02:50 to 04:15	Hands on Arduino
5	15-02-19	09:00 to 11:00	Arduino board layout and LED Blinking temperature sensor application
		11:10 to 01:00	Basics of Networking/Communication Protocol: Types of IoT Network and topology
		01:45 to 02:50	Communication protocol-MQTT
		02:50 to 04:15	Cloud services Blynk

KG REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE COURSE ON INTERNET OF THINGS

ATTENDANCE SHEET

YEAR: IV **SEM: II** SEC: B **DATE:** 11-02-19

S.NO	ROLLNO	NAME	SIGN	
			FN	AN
1	15QM1A0561	DHEERAJ KUMAR	Dheeraj	Dheeraj
2	15QM1A0562	G VAISHNAVI	VS	VS
3	15QM1A0563	GOGINENI VINEETH CHOUDARY	VR	VR
4	15QM1A0564	GUMPU SHRAVANI	Shravani	Shravani
5	15QM1A0565	JUKANTI SANDHYA	S	S
6	15QM1A0566	KADULURI VENKATA CHARAN REDDY	Reddy	Reddy
7	15QM1A0567	MOHAMMAD AMER SOHEL	Md	Md
8	15QM1A0569	MOHAMMED SHAIBAZ	Shaibf	Shaibf
9	15QM1A0570	MOHD ZABI KHAN	Khan	Khan
10	15QM1A0572	MOOSANI MURALIDHAR REDDY	[illegible]	[illegible]
11	15QM1A0574	N VIKRAM CHANDRA GOUD	Vikram	Vikram
12	15QM1A0575	NAJEEB PASHA	[illegible]	[illegible]
13	15QM1A0576	NEELI VENKATESH	Venkat	Venkat
14	15QM1A0577	NEHA MARUTI PATIL	Neha	Neha
15	15QM1A0578	N.UTTEJREDDY	[illegible]	[illegible]
16	15QM1A0579	PADAMATA ANJANEYA PRASAD	Prasad	Prasad
17	15QM1A0580	PARVEDA MOUNESH	PM	PM
18	15QM1A0581	PERAM TAGORE FINNY	finny	finny
19	15QM1A0582	PERAVENA AKHIL	[illegible]	[illegible]
20	15QM1A0583	PHOOLDANDIKAR NEHARIKA	[illegible]	[illegible]
21	15QM1A0584	POLANKI VAMSI DINESH	[illegible]	[illegible]
22	15QM1A0585	POREDDY NAVANEETH REDDY	RJ	RJ
23	15QM1A0586	PRADEEP YADAV	yadav	yadav
24	15QM1A0588	RAJAPURAM TEJASREE REDDY	RRJ	RRJ
25	15QM1A0589	RAJEEV JENA	Rajeev	[illegible]
26	15QM1A0590	G PRAJWALITHA GOUD	Goud	Goud
27	15QM1A0591	RAJIV JENA	RJ	RJ
28	15QM1A0592	RAYALA ALEKHYA	[illegible]	[illegible]
29	15QM1A0594	S REVANTH REDDY	S.Rej	S.Rj
30	15QM1A0595	S THRISHUL KUMAR GOUD	[illegible]	[illegible]
31	15QM1A0596	SAMA ABHISHEK REDDY	Samy	Samy
32	15QM1A0597	SAMA VISHAL REDDY	Vishal	Vishal
33	15QM1A0599	SHAIK TASLIMA NASREEN	SKN	SKN
34	15QM1A05A0	SINGANI ANILKUMAR	Anilkumar	Anilkumar
35	15QM1A05A2	SULLOLA ANUSHA REDDY	[illegible]	[illegible]

S.NO	ROLLNO	NAME	SIGN	
			FN	AN
36	15QM1A05A3	SUMITH KUMAR SINGH		
37	15QM1A05A4	SYED ABDUL BASITH		
38	15QM1A05A5	SYED ABDUL HAMEED		
39	15QM1A05A6	SYED AZMATHULLAH HUSSAIN		
40	15QM1A05A7	TALARAPU PRASHANTHI		
41	15QM1A05A8	THADURI PAVAN		
42	15QM1A05A9	THAKUR SAHIL SINGH		
43	15QM1A05B0	THANNEERU GOPI		
44	15QM1A05B1	THEEGELA RACHANA		
45	15QM1A05B2	TIWARI DURGESHWARI		
46	15QM1A05B3	VANAMAMULAI SRINIVASA VARUN		
47	15QM1A05B4	VISHAL JADAV		
48	15QM1A05B5	YERUVA VIJAY CYRIL		
49	15QM1A05B7	SATTI LOKNATH REDDY		
50	15QM1A05B8	BADGHAINYA NIKUNJ		
51	14QM1A0539	K KRISHNA KANTH		

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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ATTENDANCE SHEET

YEAR: IV **SEM: II** SEC:B **DATE:** 12-02-19

S.NO	ROLLNO	NAME	SIGN	
			FN	AN
1	15QM1A0561	DHEERAJ KUMAR	Dheeraj	Dheeraj
2	15QM1A0562	G VAISHNAVI		
3	15QM1A0563	GOGINENI VINEETH CHOUDARY	Vineeth	Vineeth
4	15QM1A0564	GUMPU SHRAVANI	Shravani	Shravani
5	15QM1A0565	JUKANTI SANDHYA		
6	15QM1A0566	KADULURI VENKATA CHARAN REDDY	Reddy	Reddy
7	15QM1A0567	MOHAMMAD AMER SOHEL		
8	15QM1A0569	MOHAMMED SHAIBAZ	Shaib	Shaib
9	15QM1A0570	MOHD ZABI KHAN	Khan	Khan
10	15QM1A0572	MOOSANI MURALIDHAR REDDY		
11	15QM1A0574	N VIKRAM CHANDRA GOUD	Vikram	Vikram
12	15QM1A0575	NAJEEB PASHA		
13	15QM1A0576	NEELI VENKATESH	Venkat	Venkat
14	15QM1A0577	NEHA MARUTI PATIL	Neha	Neha
15	15QM1A0578	N.UTTEJREDDY		
16	15QM1A0579	PADAMATA ANJANEYA PRASAD	Prasad	Prasad
17	15QM1A0580	PARVEDA MOUNESH		
18	15QM1A0581	PERAM TAGORE FINNY	finny	finny
19	15QM1A0582	PERAVENA AKHIL		
20	15QM1A0583	PHOOLDANDIKAR NEHARIKA	Neharika	Neharika
21	15QM1A0584	POLANKI VAMSI DINESH		
22	15QM1A0585	POREDDY NAVANEETH REDDY		
23	15QM1A0586	PRADEEP YADAV	Yadav	Yadav
24	15QM1A0588	RAJAPURAM TEJASREE REDDY		
25	15QM1A0589	RAJEEV JENA	Rajeev	Rajeev
26	15QM1A0590	G PRAJWALITHA GOUD	Goud	Goud
27	15QM1A0591	RAJIV JENA		
28	15QM1A0592	RAYALA ALEKHYA		
29	15QM1A0594	S REVANTH REDDY	S. Reddy	S. Reddy
30	15QM1A0595	S THRISHUL KUMAR GOUD		
31	15QM1A0596	SAMA ABHISHEK REDDY	Sama	Sama
32	15QM1A0597	SAMA VISHAL REDDY	Vishal	Vishal
33	15QM1A0599	SHAIK TASLIMA NASREEN	SKN	SKN
34	15QM1A05A0	SINGANI ANILKUMAR		
35	15QM1A05A2	SULLOLA ANUSHA REDDY		

S.NO	ROLLNO	NAME	SIGN	
			FN	AN
36	15QM1A05A3	SUMITH KUMAR SINGH		
37	15QM1A05A4	SYED ABDUL BASITH		
38	15QM1A05A5	SYED ABDUL HAMEED		
39	15QM1A05A6	SYED AZMATHULLAH HUSSAIN		
40	15QM1A05A7	TALARAPU PRASHANTHI		
41	15QM1A05A8	THADURI PAVAN		
42	15QM1A05A9	THAKUR SAHIL SINGH		
43	15QM1A05B0	THANNEERU GOPI		
44	15QM1A05B1	THEEGELA RACHANA		
45	15QM1A05B2	TIWARI DURGESHWARI		
46	15QM1A05B3	VANAMAMULAI SRINIVASA VARUN		
47	15QM1A05B4	VISHAL JADAV		
48	15QM1A05B5	YERUVA VIJAY CYRIL		
49	15QM1A05B7	SATTI LOKNATH REDDY		
50	15QM1A05B8	BADGHAINYA NIKUNJ		
51	14QM1A0539	K KRISHNA KANTH		

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YEAR: IV **SEM: II** SEC: B **DATE:** 13-02-19

S.NO	ROLLNO	NAME	SIGN	
			FN	AN
1	15QM1A0561	DHEERAJ KUMAR	Dheeraj	Dheeraj
2	15QM1A0562	G VAISHNAVI	VS	VS
3	15QM1A0563	GOGINENI VINEETH CHOUDARY	Vineet	Vineet
4	15QM1A0564	GUMPU SHRAVANI	shravani	shravani
5	15QM1A0565	JUKANTI SANDHYA	S	S
6	15QM1A0566	KADULURI VENKATA CHARAN REDDY	Reddy	Reddy
7	15QM1A0567	MOHAMMAD AMER SOHEL	Md	Md
8	15QM1A0569	MOHAMMED SHAIBAZ	shaibaz	shaibaz
9	15QM1A0570	MOHD ZABI KHAN	khan	khan
10	15QM1A0572	MOOSANI MURALIDHAR REDDY	[illegible]	[illegible]
11	15QM1A0574	N VIKRAM CHANDRA GOUD	vikky	vikky
12	15QM1A0575	NAJEEB PASHA	[illegible]	[illegible]
13	15QM1A0576	NEELI VENKATESH	Venkat	Venkat
14	15QM1A0577	NEHA MARUTI PATIL	Neha	Neha
15	15QM1A0578	N.UTTEJREDDY	U	U
16	15QM1A0579	PADAMATA ANJANEYA PRASAD	Prasad	Prasad
17	15QM1A0580	PARVEDA MOUNESH	[illegible]	[illegible]
18	15QM1A0581	PERAM TAGORE FINNY	finny	finny
19	15QM1A0582	PERAVENA AKHIL	[illegible]	[illegible]
20	15QM1A0583	PHOOLDANDIKAR NEHARIKA	Neharika	Neharika
21	15QM1A0584	POLANKI VAMSI DINESH	[illegible]	[illegible]
22	15QM1A0585	POREDDY NAVANEETH REDDY	[illegible]	[illegible]
23	15QM1A0586	PRADEEP YADAV	yadav	yadav
24	15QM1A0588	RAJAPURAM TEJASREE REDDY	[illegible]	[illegible]
25	15QM1A0589	RAJEEV JENA	Rajeev	Rajeev
26	15QM1A0590	G PRAJWALITHA GOUD	Goud	Goud
27	15QM1A0591	RAJIV JENA	[illegible]	[illegible]
28	15QM1A0592	RAYALA ALEKHYA	[illegible]	[illegible]
29	15QM1A0594	S REVANTH REDDY	S. Rd	S. Rd
30	15QM1A0595	S THRISHUL KUMAR GOUD	[illegible]	[illegible]
31	15QM1A0596	SAMA ABHISHEK REDDY	Samy	Samy
32	15QM1A0597	SAMA VISHAL REDDY	Vishal	Vishal
33	15QM1A0599	SHAIK TASLIMA NASREEN	SKAN	SKAN
34	15QM1A05A0	SINGANI ANILKUMAR	[illegible]	[illegible]
35	15QM1A05A2	SULLOLA ANUSHA REDDY	[illegible]	[illegible]

S.NO	ROLLNO	NAME	SIGN	
			FN	AN
36	15QM1A05A3	SUMITH KUMAR SINGH		
37	15QM1A05A4	SYED ABDUL BASITH		
38	15QM1A05A5	SYED ABDUL HAMEED		
39	15QM1A05A6	SYED AZMATHULLAH HUSSAIN		
40	15QM1A05A7	TALARAPU PRASHANTHI		
41	15QM1A05A8	THADURI PAVAN		
42	15QM1A05A9	THAKUR SAHIL SINGH		
43	15QM1A05B0	THANNEERU GOPI		
44	15QM1A05B1	THEEGELA RACHANA		
45	15QM1A05B2	TIWARI DURGESHWARI		
46	15QM1A05B3	VANAMAMULAI SRINIVASA VARUN		
47	15QM1A05B4	VISHAL JADAV		
48	15QM1A05B5	YERUVA VIJAY CYRIL		
49	15QM1A05B7	SATTI LOKNATH REDDY		
50	15QM1A05B8	BADGHAINYA NIKUNJ		
51	14QM1A0539	K KRISHNA KANTH		

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YEAR: IV **SEM: II** SEC: B **DATE:** 16-02-19

S.NO	ROLLNO	NAME	SIGN	
			FN	AN
1	15QM1A0561	DHEERAJ KUMAR	Dheeraj	Dheeraj
2	15QM1A0562	G VAISHNAVI	VS	VS
3	15QM1A0563	GOGINENI VINEETH CHOUDARY	Vineeth	Vineeth
4	15QM1A0564	GUMPU SHRAVANI	Shravani	Shravani
5	15QM1A0565	JUKANTI SANDHYA	S.	S.
6	15QM1A0566	KADULURI VENKATA CHARAN REDDY	Reddy	Reddy
7	15QM1A0567	MOHAMMAD AMER SOHEL	md	md
8	15QM1A0569	MOHAMMED SHAIBAZ	Shaibaz	Shaibaz
9	15QM1A0570	MOHD ZABI KHAN	Khan	Khan
10	15QM1A0572	MOOSANI MURALIDHAR REDDY	[illegible]	[illegible]
11	15QM1A0574	N VIKRAM CHANDRA GOUD	Vikky	Vikky
12	15QM1A0575	NAJEEB PASHA	[illegible]	[illegible]
13	15QM1A0576	NEELI VENKATESH	Venkat	Venkat
14	15QM1A0577	NEHA MARUTI PATIL	Nehal	Nehal
15	15QM1A0578	N.UTTEJREDDY	[illegible]	[illegible]
16	15QM1A0579	PADAMATA ANJANEYA PRASAD	Prasad	Prasad
17	15QM1A0580	PARVEDA MOUNESH	[illegible]	[illegible]
18	15QM1A0581	PERAM TAGORE FINNY	finny	finny
19	15QM1A0582	PERAVENA AKHIL	[illegible]	[illegible]
20	15QM1A0583	PHOOLDANDIKAR NEHARIKA	Neharika	Neharika
21	15QM1A0584	POLANKI VAMSI DINESH	[illegible]	[illegible]
22	15QM1A0585	POREDDY NAVANEETH REDDY	[illegible]	[illegible]
23	15QM1A0586	PRADEEP YADAV	Yadav	Yadav
24	15QM1A0588	RAJAPURAM TEJASREE REDDY	[illegible]	[illegible]
25	15QM1A0589	RAJEEV JENA	Rajeev	Rajeev
26	15QM1A0590	G PRAJWALITHA GOUD	Goud	Goud
27	15QM1A0591	RAJIV JENA	[illegible]	[illegible]
28	15QM1A0592	RAYALA ALEKHYA	[illegible]	[illegible]
29	15QM1A0594	S REVANTH REDDY	S.R	S.R
30	15QM1A0595	S THRISHUL KUMAR GOUD	[illegible]	[illegible]
31	15QM1A0596	SAMA ABHISHEK REDDY	Samy	Samy
32	15QM1A0597	SAMA VISHAL REDDY	Vishal	Vishal
33	15QM1A0599	SHAIK TASLIMA NASREEN	SKA	SKA
34	15QM1A05A0	SINGANI ANILKUMAR	[illegible]	[illegible]
35	15QM1A05A2	SULLOLA ANUSHA REDDY	[illegible]	[illegible]

S.NO	ROLLNO	NAME	SIGN	
			FN	AN
36	15QM1A05A3	SUMITH KUMAR SINGH		
37	15QM1A05A4	SYED ABDUL BASITH		
38	15QM1A05A5	SYED ABDUL HAMEED		
39	15QM1A05A6	SYED AZMATHULLAH HUSSAIN		
40	15QM1A05A7	TALARAPU PRASHANTHI		
41	15QM1A05A8	THADURI PAVAN		
42	15QM1A05A9	THAKUR SAHIL SINGH		
43	15QM1A05B0	THANNEERU GOPI		
44	15QM1A05B1	THEEGELA RACHANA		
45	15QM1A05B2	TIWARI DURGESHWARI		
46	15QM1A05B3	VANAMAMULAI SRINIVASA VARUN		
47	15QM1A05B4	VISHAL JADAV		
48	15QM1A05B5	YERUVA VIJAY CYRIL		
49	15QM1A05B7	SATTI LOKNATH REDDY		
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51	14QM1A0539	K KRISHNA KANTH		

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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ATTENDANCE SHEET

YEAR: IV **SEM: II** SEC: B **DATE:** 15-02-19

S.NO	ROLLNO	NAME	SIGN	
			FN	AN
1	15QM1A0561	DHEERAJ KUMAR	Dheeraj	Dheeraj
2	15QM1A0562	G VAISHNAVI	VS	VS
3	15QM1A0563	GOGINENI VINEETH CHOUDARY	Vineeth	Vineeth
4	15QM1A0564	GUMPU SHRAVANI	Shravani	Shravani
5	15QM1A0565	JUKANTI SANDHYA	S	S
6	15QM1A0566	KADULURI VENKATA CHARAN REDDY	Reddy	Reddy
7	15QM1A0567	MOHAMMAD AMER SOHEL	md	md
8	15QM1A0569	MOHAMMED SHAIBAZ	Shaibz	Shaibz
9	15QM1A0570	MOHD ZABI KHAN	Khan	Khan
10	15QM1A0572	MOOSANI MURALIDHAR REDDY	R	R
11	15QM1A0574	N VIKRAM CHANDRA GOUD	vicky	vicky
12	15QM1A0575	NAJEEB PASHA	NP	NP
13	15QM1A0576	NEELI VENKATESH	Venkat	Venkat
14	15QM1A0577	NEHA MARUTI PATIL	Nehal	Nehal
15	15QM1A0578	N.UTTEJREDDY	U	U
16	15QM1A0579	PADAMATA ANJANEYA PRASAD	prasad	prasad
17	15QM1A0580	PARVEDA MOUNESH	PM	PM
18	15QM1A0581	PERAM TAGORE FINNY	finny	finny
19	15QM1A0582	PERAVENA AKHIL	Ab	Ab
20	15QM1A0583	PHOOLDANDIKAR NEHARIKA	Neharika	Neharika
21	15QM1A0584	POLANKI VAMSI DINESH	Din	Din
22	15QM1A0585	POREDDY NAVANEETH REDDY	R	R
23	15QM1A0586	PRADEEP YADAV	yadav	yadav
24	15QM1A0588	RAJAPURAM TEJASREE REDDY	RR	RR
25	15QM1A0589	RAJEEV JENA	Rajeev	Rajeev
26	15QM1A0590	G PRAJWALITHA GOUD	Goud	Goud
27	15QM1A0591	RAJIV JENA	Rj	Rj
28	15QM1A0592	RAYALA ALEKHYA	A	A
29	15QM1A0594	S REVANTH REDDY	S.R	S.R
30	15QM1A0595	S THRISHUL KUMAR GOUD	G	G
31	15QM1A0596	SAMA ABHISHEK REDDY	Samt	Samt
32	15QM1A0597	SAMA VISHAL REDDY	Vishal	Vishal
33	15QM1A0599	SHAIK TASLIMA NASREEN	SKat	SKat
34	15QM1A05A0	SINGANI ANILKUMAR	[illegible]	[illegible]
35	15QM1A05A2	SULLOLA ANUSHA REDDY	[illegible]	[illegible]

S.NO	ROLLNO	NAME	SIGN	
			FN	AN
36	15QM1A05A3	SUMITH KUMAR SINGH		
37	15QM1A05A4	SYED ABDUL BASITH		
38	15QM1A05A5	SYED ABDUL HAMEED		
39	15QM1A05A6	SYED AZMATHULLAH HUSSAIN		
40	15QM1A05A7	TALARAPU PRASHANTHI		
41	15QM1A05A8	THADURI PAVAN		
42	15QM1A05A9	THAKUR SAHIL SINGH		
43	15QM1A05B0	THANNEERU GOPI		
44	15QM1A05B1	THEEGELA RACHANA		
45	15QM1A05B2	TIWARI DURGESHWARI		
46	15QM1A05B3	VANAMAMULAI SRINIVASA VARUN		
47	15QM1A05B4	VISHAL JADAV		
48	15QM1A05B5	YERUVA VIJAY CYRIL		
49	15QM1A05B7	SATTI LOKNATH REDDY		
50	15QM1A05B8	BADGHAINYA NIKUNJ		
51	14QM1A0539	K KRISHNA KANTH		

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ATTENDANCE SHEET

YEAR: IV **SEM: II** SEC-A **DATE:** 11-02-19

S.NO	ROLLNO	NAME	SIGN	
			FN	AN
1	15QM1A0502	ANNAMONI AKSHAY KUMAR		
2	15QM1A0503	ANNU DEEPIKA	Deepika	Deepika
3	15QM1A0505	AVULA SIVA PRASAD	Siva	Siva
4	15QM1A0506	B CHANDRASHEKAR	Jhansi	Jhansi
5	15QM1A0507	B JHANSI LAKSHMI		
6	15QM1A0508	B KOMAL	Komal	Komal
7	15QM1A0509	BALLA VINAY YADAV	Vinay	Vinay
8	15QM1A0510	BATCHU NEERAJA	Neeraja	Neeraja
9	15QM1A0511	B.RAM BHARATH		
10	15QM1A0513	BYREDDY JYOTHI PRIYANKA		
11	15QM1A0514	C SAMARA SIMHA REDDY		
12	15QM1A0515	CHALLA ADITHYA		
13	15QM1A0516	CHEAGURI SAI YESH YESWINI		
14	15QM1A0518	DODDI SWETHA	Swetha	Swetha
15	15QM1A0519	DURGAM LAXMAN		
16	15QM1A0520	DURGAM RAMU		
17	15QM1A0521	ELUGALA NITHIN BABU		
18	15QM1A0522	GADHIRAJU SRAVANI		
19	15QM1A0523	GAJJALA SHIVA DATTA		
20	15QM1A0524	GANGALA PRIYANKA REDDY	Priyanka	Priyanka
21	15QM1A0525	GATLA SURAJ KUMAR		
22	15QM1A0526	GATTU SPANDANA	Spandana	Spandana
23	15QM1A0527	GAURAV DAYAMA		
24	15QM1A0528	GELLI MOUNIKA	Mounika	Mounika
25	15QM1A0529	GODALA SAI NIKHIL REDDY		
26	15QM1A0532	GOUNDLA NAVEEN KUMAR		
27	15QM1A0533	GURRALA HAREESHWAR REDDY	Hareshwar	Hareshwar
28	15QM1A0534	K SADANA	Sadana	Sadana
29	15QM1A0535	KANDAKATLA BHARATH REDDY		
30	15QM1A0536	KATHROTIYA AVANI PATEL		
31	15QM1A0537	KATTA ARUN TEJA		
32	15QM1A0538	KAVALI AKHIL YADAV		
33	15QM1A0539	KAVIDI DEVI HARI KANTH		
34	15QM1A0540	KETHIREDDU DAVAN	Davan	Davan
35	15QM1A0541	KODURI SAI KUMAR		

S.NO	ROLLNO	NAME	SIGN	
			FN	AN
36	15QM1A0542	KOTLA MANIDEEPAK		
37	15QM1A0544	KRISHNAGIRI TUPPAL VENUGOPALAN		
38	15QM1A0546	KUNTLOOR CHANDRA SHEKAR REDDY		
39	15QM1A0547	LOKA DIXITH REDDY		
40	15QM1A0548	M VIKRAM		
41	15QM1A0549	MADISHETTIWAR SUCHITRA SRINIVAS		
42	15QM1A0550	MALGA KARTHIK		
43	15QM1A0551	MAMIDI SUMA		
44	15QM1A0552	MEERAMPALLY KARTHIK		
45	15QM1A0553	MENTE BILWANI LAKSHMI KRANTHI		
46	15QM1A0554	R SEVITHA		
47	15QM1A0556	SAHERI PAVANI		
48	15QM1A0557	TIRUNAGARI SAI SRUJANA		
49	15QM1A0558	TUPPARI LAXMI PRASANNA		
50	15QM1A0560	YASHWANTH GADDAM		

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ATTENDANCE SHEET

YEAR: IV **SEM: II** SEC:A **DATE:** 12-02-19

S.NO	ROLLNO	NAME	SIGN	
			FN	AN
1	15QM1A0502	ANNAMONI AKSHAY KUMAR		
2	15QM1A0503	ANNU DEEPIKA	Deepika.	Deepika.
3	15QM1A0505	AVULA SIVA PRASAD		
4	15QM1A0506	B CHANDRASHEKAR		
5	15QM1A0507	B JHANSI LAKSHMI		
6	15QM1A0508	B KOMAL		
7	15QM1A0509	BALLA VINAY YADAV		
8	15QM1A0510	BATCHU NEERAJA	Neerajar	Neerajar
9	15QM1A0511	B.RAM BHARATH		
10	15QM1A0513	BYREDDY JYOTHI PRIYANKA		
11	15QM1A0514	C SAMARA SIMHA REDDY		
12	15QM1A0515	CHALLA ADITHYA		
13	15QM1A0516	CHEAGURI SAI YESH YESWINI		
14	15QM1A0518	DODDI SWETHA		
15	15QM1A0519	DURGAM LAXMAN		
16	15QM1A0520	DURGAM RAMU		
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19	15QM1A0523	GAJJALA SHIVA DATTA	Datta	Datta
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21	15QM1A0525	GATLA SURAJ KUMAR		
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24	15QM1A0528	GELLI MOUNIKA	mounika	mounika
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50	15QM1A0560	YASHWANTH GADDAM		

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K.G. REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
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			FN	AN
1	15QM1A0502	ANNAMONI AKSHAY KUMAR		
2	15QM1A0503	ANNU DEEPIKA	Deepika	Deepika
3	15QM1A0505	AVULA SIVA PRASAD		
4	15QM1A0506	B CHANDRASHEKAR		
5	15QM1A0507	B JHANSI LAKSHMI		
6	15QM1A0508	B KOMAL		
7	15QM1A0509	BALLA VINAY YADAV		
8	15QM1A0510	BATCHU NEERAJA	Neeraj	Neeraja
9	15QM1A0511	B.RAM BHARATH		
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40	15QM1A0548	M VIKRAM	Vikram	Vikram
41	15QM1A0549	MADISHETTIWAR SUCHITRA SRINIVAS	Suchitra	Suchitra
42	15QM1A0550	MALGA KARTHIK	[illegible]	[illegible]
43	15QM1A0551	MAMIDI SUMA	Suma	[illegible]
44	15QM1A0552	MEERAMPALLY KARTHIK	[illegible]	[illegible]
45	15QM1A0553	MENTE BILWANI LAKSHMI KRANTHI	Kranthi	Kranthi
46	15QM1A0554	R SEVITHA	Seri	Seri
47	15QM1A0556	SAHERI PAVANI	Pavani	Pavani
48	15QM1A0557	TIRUNAGARI SAI SRUJANA	Sai	Sai
49	15QM1A0558	TUPPARI LAXMI PRASANNA	Laxmi Prasanna	Laxmi Prasanna
50	15QM1A0560	YASHWANTH GADDAM	Yashwanth	Yashwanth

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KG REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE COURSE ON INTERNET OF THINGS

ATTENDANCE SHEET

YEAR: IV **SEM: II** SEC:A **DATE:** 14-02-19

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1	15QM1A0502	ANNAMONI AKSHAY KUMAR		
2	15QM1A0503	ANNU DEEPIKA	Deepika	Deepika
3	15QM1A0505	AVULA SIVA PRASAD		
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6	15QM1A0508	B KOMAL		
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8	15QM1A0510	BATCHU NEERAJA	Neeraja	Neeraja
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27	15QM1A0533	GURRALA HAREESHWAR REDDY	Harishal	Harishal
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39	15QM1A0547	LOKA DIXITH REDDY	Dixy	Dixy
40	15QM1A0548	M VIKRAM	[illegible]	[illegible]
41	15QM1A0549	MADISHETTIWAR SUCHITRA SRINIVAS	Suchi	Suchi
42	15QM1A0550	MALGA KARTHIK	[illegible]	[illegible]
43	15QM1A0551	MAMIDI SUMA	Suma	Suma
44	15QM1A0552	MEERAMPALLY KARTHIK	Karth	Karth
45	15QM1A0553	MENTE BILWANI LAKSHMI KRANTHI	Lakshmi	Lakshmi
46	15QM1A0554	R SEVITHA	Sevi	Sevi
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE COURSE ON INTERNET OF THINGS

ATTENDANCE SHEET

YEAR: IV **SEM: II** SEC:A **DATE:** 15-02-19

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1	15QM1A0502	ANNAMONI AKSHAY KUMAR		
2	15QM1A0503	ANNU DEEPIKA	Deepika	Deepika
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48	15QM1A0557	TIRUNAGARI SAI SRUJANA	[illegible]	[illegible]
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Chilkur (Vill) Moinabad (Mdl) R R Dist

B.TECH IV Year II SEM II, FEB-2019

CERTIFICATE COURSE ON INTERNET OF THINGS (IOT)

OBJECTIVE EXAM

28/30

NAME Ram Bharath HALL TICKET NO | 1 | 5 | Q | M | 1 | A | 0 | 5 | 1 | 1 |

Answer all the questions. All questions carry equal marks. Time: 30min. 30 marks.

I choose correct alternative:

1. Boot loader consists of _____ number of components. [C]

a) 4 components b) 2 components c) 3 components d) 5 components

2. All silicon labs SiMxxxxx MCUs with Flash memory are self-programmable. [A]

a) True b) False

3. If the device is programmed with a bootloader, the application image is loaded in _____ interface. [B]

a) UART b) USB c) SPI d) I2C

4. Application/s that provide to test the bootloader functionality. [D]

a) Blinky_Fast and B.inky-Medium b) Only Blinky_slow

c) Only Blinky_Fast d) Blinky_Fast and Blinky_Slow

5. _____ command should be performed to very that the firmware image is Blinky_fast.

a) Query b) Reset c) Upload d) Download [A]

6. Which switch should be pressed to perform all commands? [D]

a) Up switch b) Push c) Down switch d) Reset switch

7. DFU stands for Device Firmware Update. [A]

a) True b) False

8. When is DEVICE_Init called? [B]

a) Upload b) Reset c) Download d) Query

9. DEVICE_Init performs what? [C]

a) Disabling watchdog timer and disabling APB clock

b) Enabling APB clock and enabling watchdog timer

c) Disabling watchdog timer and enabling APB clock

d) Disabling APB clock and enabling watchdog timer

10. DEVICE_Restore routine restores all the device registers modified by DEVICE_Init to their reset values. [A]

a) Trueb) False

11. Which of the following sets the size of the buffer used in ufuncs ? [C]

a) bufsize(size) b) setsize(size) c) setbufsize(size) d) all of the Mentioned

12. Point out the wrong statement: [B]

a) A universal function is a function that operates on ndarrays in an element-by-element fashion

b) In Numpy, universal functions are instances of the numpy.ufunction class

c) Many of the built-in functions are implemented in compiled C code

d) All of the Mentioned

13. Which of the following attribute should be used while checking for type combination input and output ? [A]

a) .types b) .type c) .class d) all of the Mentioned

14. Which of the following returns an array of ones with the same shape and type as a given array ? [B]

a) all_like b) ones_like c) one_alike d) all of the Mentioned

15. Point out the wrong statement: [C]

a) Each universal function takes array inputs and produces array outputs

b) Broadcasting is used throughout NumPy to decide how to handle disparately shaped arrays

c) The output of the ufunc is necessarily an ndarray, if all input arguments are ndarrays

d) All of the Mentioned

16. Which of the following set the floating-point error callback function or log object ? [B]

a) setter b) settercall c) setterstack d) all of the Mentioned

17. Some ufuncs can take output arguments. [B]

a) Trueb) False

18. _____ decompose the elements of x into mantissa and twos exponent. [C]

a) trunk b) fmod c) frexp d) ldexp

19. Which of the following function take only single value as input ? [A]

a) iscomplex b) minimum c) fmin d) all of the Mentioned

20. The array object returned by __array_prepare__ is passed to the ufunc for computation.
a) Trueb) False [A]

21. The plot method on Series and DataFrame is just a simple wrapper around : [B]
a) gplt.plot() b) plt.plot() c) plt.plotgraph() d) none of the Mentioned

22. Point out the correct combination with regards to kind keyword for graph plotting: [D]
a) 'hist' for histogram b) 'box' for boxplot c) 'area' for area plots d) all of the Mentioned

23. Which of the following value is provided by kind keyword for barplot ? [A]
a) barh b) kde c) hexbin d) none of the Mentioned

24. You can create a scatter plot matrix using the _____ method in pandas.tools.plotting.
a) sca_matrix b) scatter_matrix c) DataFrame.plot d) all of the Mentioned [B]

25. Point out the wrong combination with regards to kind keyword for graph plotting: [B]
a) 'scatter' for scatter plots b) 'kde' for hexagonal bin plots
c) 'pie' for pie plots d) none of the Mentioned

26. Which of the following plots are used to check if a data set or time series is random ? [A]
a) Lag b) Random c) Lead d) None of the Mentioned

27. Plots may also be adorned with error bars or tables. [A]
a) Trueb) False

28. Which of the following plots are often used for checking randomness in time series ? [C]
a) Autocausation b) Autorank c) Autocorrelation d) None of the Mentioned

29. _____ plots are used to visually assess the uncertainty of a statistic. [C]
a) Lag b) RadViz c) Bootstrap d) None of the Mentioned

30. Andrews curves allow one to plot multivariate data. [A]
a) Trueb) False

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CERTIFICATE

Name: RAJEEV JENA

Registration No: 15QM1A0589

has successfully completed the prescribed requirements for the award of certificate course on **"Internet of Things"** conducted by Computer Science and Engineering held in month of February from 11/02/2019 to 16/02/2019 in the academic year 2018-2019.

Date: 20/02/2019

Course Coordinator

PRINCIPAL
Principal
KG Reddy College of Engineering & Technolog
Chilkur (V), Moinabad (M).
R.R.Dist., Telangana.

KG REDDY
College of Engineering
&Technology

CERTIFICATE

Name: RAJAPURAM TEJASREE REDDY

Registration No: 15QM1A0588

has successfully completed the prescribed requirements for the award of certificate course on **"Internet of Things"** conducted by Computer Science and Engineering held in month of February from 11/02/2019 to 16/02/2019 in the academic year 2018-2019.

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