



VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

Sponsored by Lavu Educational Society, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad.
Kondapur (V), Ghatkesar (M), Medchal - Malkajiri (D) - 501 301 Phone: +91 96529 10002/3



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VMTW/CSE/AOC/2020-21/I/01

Date: 08/12/2020

CIRCULAR

This is to inform all the III-I B. Tech CSE students that there will be an Add on course on "Design of IoT applications " from 14/12/2020 to 19/12/2020. All students are invited to take part in this course. The participating students will be honored with certificates of participation. During the course you will be encouraged to interact with the speaker and the other participants through the case study discussions. This course is scheduled in online mode through Google Meet.



HOD

Head of The Department
Computer Science and Engineering
Vignan's Institute of Management & Technology For Women
Kondapur (V), Ghatkesar (M), Medchal-Malkajiri (Dt)-501301
Telangana State

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Syllabus for the Addon course

Design of IoT applications

Course objectives:

1. To study the fundamentals about IoT
2. To study about IoT Access technologies
3. To design methodology and different IoT hardware platforms.
4. To Examine the potential business opportunities that IoT can uncover.
5. To Explore the relationship between IoT, cloud computing, and big data

Module 1 – IOT Introduction: Concepts and Definitions of The Internet of Things (IoT), History of IOT, Requirements, Functionalists, and structure of IOT, IoT enabling technologies, IoT Architecture.

Module 2 – IOT Data Acquisition & Platforms: Micro Controllers (Arduino uno/mega2560, Raspberry-Pi, ARM), Real-time systems, and embedded software, OS and Drivers (End Device Program), Hardware & Software Requirements

Module 3 – IOT Data Communication: How to transfer data by Wireless / Wired connectivity, Ipv4/Ipv6, Ethernet/GigE, MIPI, M-PHY, UniPro, SPMI, BIF, SuperSpeed USB Inter-Chip (SSIC), Relay Access Point (AP), Grouping of station, Target Wake Time (TWT)

Module 4 – IOT Data Storage & Retrieval: Overview and Role of Storage in Cloud / Server /Inhouse Storage, Databases Connectivity with IOT and uses, Case Study over Mysql / NoSql / NewSql, Case Study over Cloud Services And Administration

Module 5 – IOT Data Analytics & Visualization: Analysis Of data using the Ipython Module. Visualization and interpretation of Data
IOT Security: Attack, Defense.

Text Book:

1. Internet of Things (IoT) & Its Applications: A Complete Guide on Python Programing for IoT with Practical Exercises for Learners: by Dr V K Sachan (Author).

Uday
COORDINATOR

S. Anand
HOD

Head of The Department
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Prakash
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Addon Course Name: Design of IoT applications

B.Tech III-I SEM

DAY WISE SCHEDULE SHEET

SECTIONS: CSE A & B

DAY	Topic	Timings	Duration
14/12/2020	IOT Introduction: Concepts and Definitions of The Internet of Things (IoT), History of IOT, Requirements, Functionalists, and structure of IOT, IoT enabling technologies, IoT Architecture.	09:00 am to 03:30 pm	6 hrs
15/12/2020	IOT Data Acquisition & Platforms: Micro Controllers (Arduino uno/mega2560, Raspberry-Pi, ARM), Real-time systems, and embedded software, OS and Drivers (End Device Program), Hardware & Software Requirements.	09:00 am to 03:30 pm	6 hrs
16/12/2020	IOT Data Communication: How to transfer data by Wireless / Wired connectivity, Ipv4/Ipv6, Ethernet/GigE, MIPI, M-PHY, UniPro.	09:00 am to 03:30 pm	6 hrs
17/12/2020	IOT Data Storage & Retrieval: Overview and Role of Storage in Cloud / Server/Inhouse Storage, Databases Connectivity with IOT and uses, Case Study over Mysql / NoSql / NewSql, Case Study over Cloud Services And Administration.	09:00 am to 03:30 pm	6 hrs
18/12/2020	IOT Data Analytics & Visualization: Analysis Of data using the Ipython Module.	09:00 am to 03:30 pm	6 hrs
19/12/2020	Visualization and interpretation of Data, IOT Security and Lab Practice.	09:00 am to 03:30 pm	6 hrs
Total 36 hours			

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COORDINATOR



S. Chary
HOD, CSE

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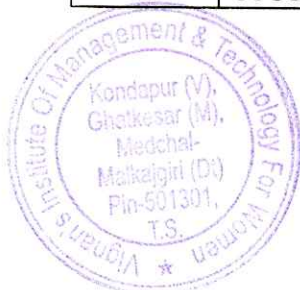
LIST OF REGISTERED STUDENTS

Addon Course Name: Design of IoT applications

B.Tech III-I SEM

Section: CSE A&B

S.NO	Roll Number	Name of the Student
1	186P1A0539	R Sri Vaishnavi
2	18UP1A0501	Anreddy Pooja Sree
3	18UP1A0502	Are Sadhana
4	18UP1A0503	Avula Kavya Sri
5	18UP1A0504	Balne Unvitha
6	18UP1A0505	Bandaru Pranathi
7	18UP1A0506	Bellamkonda Vyshnavi
8	18UP1A0507	Challa Mahima Chandra
9	18UP1A0508	Dasari Ruchitha
10	18UP1A0509	Deekonda Raaga Priya
11	18UP1A0510	Devandla Swapna
12	18UP1A0511	Devishetti Ashritha
13	18UP1A0512	Eliti Nandini
14	18UP1A0513	Gujja Harshitha Reddy
15	18UP1A0514	Gajula Vidya
16	18UP1A0515	Guntur Komali
17	18UP1A0516	Jeeyar Prasanna
18	18UP1A0517	K Rishika
19	18UP1A0519	Kandakatla Navya
20	18UP1A0520	Kappari Sowmya
21	18UP1A0521	Karla Keerthana
22	18UP1A0522	Koppu Alekhya
23	18UP1A0523	Kotha Sravani
24	18UP1A0524	M.Sravani
25	18UP1A0525	Miriyala Reshika
26	18UP1A0526	Molugu Manasa
27	18UP1A0527	Mukka Mahima
28	18UP1A0528	Mullapudi Yoshnavi Naga Lakshmi
29	18UP1A0529	Muppalla Sai Sree
30	18UP1A0530	Nangunuri Akhila
31	18UP1A0531	Neelam Vineela
32	18UP1A0532	Neeluri Rishita
33	18UP1A0533	Palvai Nikhitha



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34	18UP1A0534	Panjala Chandana
35	18UP1A0536	Pasham Shravani
36	18UP1A0537	Pasunuti Sindhu
37	18UP1A0538	Neeharika Patel
38	18UP1A0539	Pothureddypalli Ikyatha
39	18UP1A0540	Raju Bindu
40	18UP1A0541	Raparathi Sathvika
41	18UP1A0543	S Meghana
42	18UP1A0544	Sai Mounika Viyyapu
43	18UP1A0545	Sanka Ramasai
44	18UP1A0546	Singaram Priyanshi
45	18UP1A0547	Suryadevara Maneesha
46	18UP1A0548	Telukutla Priyanka
47	18UP1A0549	Talapalli Sahithi
48	18UP1A0550	Nikhitha Thumula
49	18UP1A0551	Venakadasula Sravanapragathi
50	18UP1A0552	V Shravya
51	18UP1A0553	Vemula Sai Esha
52	18UP1A0554	Volloju Jagadeshwari
53	18UP1A0555	Vunnam Sushmithasiri
54	18UP1A0556	Voruganti Rochishna
55	18UP1A0557	Manepalli Eswari Sai Sarayu
56	18UP1A0558	Indela Dharani
57	18C21A0501	Aavula Swetha
58	18C21A0520	Konda Raga Sudha
59	18C21A0522	Kurakula Srilekha
60	18C21A0561	Putta Prathyusha
61	18UP1A0559	Achalla Yagnamukhi
62	18UP1A0560	Alapati Harshini
63	18UP1A0561	Ankam Jaswitha
64	18UP1A0562	A. Bhagya Chandana
65	18UP1A0563	Bathina Harshitha
66	18UP1A0564	B. Lakshmi Manasa
67	18UP1A0565	Bojja Priyanka
68	18UP1A0566	Bramanapally Supriya
69	18UP1A0567	Cheeli Swetha
70	18UP1A0568	Chilam Anuradha
71	18UP1A0569	Chirala Ramya
72	18UP1A0570	Damsani Srija
73	18UP1A0571	Gunda Abhi Sri




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74	18UP1A0572	G. Hema Latha
75	18UP1A0573	Gollapudi Likhita
76	18UP1A0574	G. Lathika Chowdary
77	18UP1A0575	J Lalitha Priya
78	18UP1A0576	Jillala Mysasree
79	18UP1A0577	Kallutla Jaya Sindhuri
80	18UP1A0578	Korrapati Mrudhula
81	18UP1A0579	Kota Vasavi Vineetha
82	18UP1A05B1	Vemula Pavani
83	18UP1A05B2	Vinjamuri Navya
84	18UP1A05B3	Y. S. V. Naga Sriya
85	18UP1A05B4	Yerukala Nuthana
86	19UP5A0501	Palle Kavya

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