Certificate Course

On

IOT using RaspberryPi

01/11/2021 to 18/11/2021

Co-Ordinators: S.RIYAZBANU

B.GOURI

K.S.R.M. COLLEGE OF ENGINEERING

(UGC-AUTONOMOUS)

Kadapa,Andhra Pradesh, India– 516 003

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

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Lr./KSRMCE/ CSE/IOT using RaspberryPi /Certification Course/2021-22

Date: 23.**10.2021**

To

The Principal,
K.S.R.M.College of Engineering
Kadapa.

From
S.RiyazBanu,
Assistant Professor,
CSE Department
K.S.R.M.College of Engineering
Kadapa.

Respected Sir,

Sub: KSRMCE - Permission to conduct Certification Course on IOT using Raspberry Pi -CSE Department – Requested - Reg.

It is being brought to your kind notice that, With reference to the cited, the CSE Department is planning to organise Certification Course on "**IOT using Raspberry Pi** " for all B.Tech Students from 1st November 2021 to 18th November 2021. In this regard I Kindly request you Sir to grant the permission for organizing Certification Course in offline mode. This is submitted for your kind perusal.

Thanking you Sir,

Forwarded to the principal sir,

Yours Faithfully,
RiyazBanu
S.RiyazBanu,
Assistant Professor,
CSE Department
K.S.R.M.College of Engineering
(Autonomous)

Permitted
V. S. S. Murthy

Cc:

To The Director for Information

To All Deans /HOD's

Cr./KSRMCE/CSE Dept/ IOT using Raspberry Pi /Certification Course /2021 Date:23-10-2021

Circular

All CSE B.Tech students are hereby informed that CSE department is going to organize certification course on "**IOT using Raspberry Pi**" for B.Tech students from 1st November 2021 to 18th November 2021. So interested students may register their names using below link. The resource person for the certification Course are Smt. S.RiyazBanu, Assistant professor in CSE department.

Web link: https://forms.gle/KSNDicxowkAADLJV9

HOD

Cc to:

The Director for information

All Deans/HODs

REGISTARTION FORM OF CertificationCourse on"IOT using Raspberry Pi"

SHEDULE:01/11/2021 TO 18/11/2021III SEM,V SEM,VII SEM CSE STUDENTS

riyazbanu@ksrmce.ac.in (not shared) Switch account

Roll Number

Your answer

Student Name

Your answer

Year/Sem/Section

Your answer

E-Mail ID

Your answer

Mobile Number(Whatsapp)

Your answer

Submit

Clear form

Never submit passwords through Google Forms.

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Department of Computer Science & Engineering

Certificate Course on IoT using RaspberryPi
Registration List

S.NO	Roll Number	Student Name	Year/Sem/Section	E-Mail ID
1	189y1a0581	M.Rishitha	2021/7th/B	risithareddym@gmail.com
2	189y1a0584	Nallagatla Akshitha Reddy	2021/7/B	lilly.akshitha@gmail.com
3	189y1a0586	Nallapati Sai Tejaswini	4th year/7th sem/Bsec	tejaswiniteju474@gmail.com
4	189y1a0587	Nama Venkata Sravani	2021/7th sem/CSE B	venkatasravani142001@gmail.com
5	189Y1A0592	P.Naga Lakshmi	4th year-7th sem ,CSE B/s	nagalakshmipanjagala1506@gmail.com
6	189Y1A0592	P.Naga Lakshmi	4th year_7th sem_CSE B/s	nagalakshmipanjagala1506@gmail.com
7	189Y1A0597	PATTI MAHENDRA	2021/VII/B	189y1a0597@ksrmce.ac.in
8	189y1a05A7	Putta shireesha	2021/7/cse-b	Putta.shiri@gmail.com
9	189Y1A05B4	S.Laharika	4 th/7/c	189y1a05b4@ksrmce.ac.in
10	189Y1A05B6	Sashidhar Reddy Sanivarapu	4/7/c	189y1a05b6@ksrmce.ac.in
11	189y1a05b8	Seelam uma maheswara reddy	4th year 7th sem c section	189y1a05b8@ksrmce.ac.in
12	189y1a05c6	S. Mohammed rafi	2021/7/C	Mohammadrafishaik2021@gmail.co.
13	189y1a05d5	S. Naga phaneendra	4/7/C	189y1a05d5@ksrmce.ac.in
14	189Y1a05d7	SYED ABDUL HANNAN	4th year	abdhannan.syed@gmail.com
15	189y1a05e1	T venkata ramana reddy	4/7/c	tvramanareddy2001@gmal.com
16	189y1A05E2	THAVVARUPALLI Raja	VIIth-sem- sec-c	raja8297az@gmail.com
17	189y1a05e5	T Sandeep Kumar	4th/ 7th / cse c	rishigadu07@gmail.com
18	189Y1A05E7	V vemakumar Reddy	4th/ 7th/ cse	vaddemanivemakumar@gmail.com
19	189y1a05e8	V Guru sai	4-7-cse-c	vankadarasai10@gmail.com
20	189Y1A05E9	Varadhigalla Girish kumar	4/7/CSE-C	girish01010101@gmail.com
21	189Y1A05F0	Vasanthu Manisha	4/7/C	manishavasanthu@gmail.com
22	189Y1A05F1	V.sandya rani	3yr -5th sem/ cse-A/s	189y1a05f1@gmail.com

23	189y1A05F2	V.Reddykishore	4th year 7th sem cse c/s	Reddykshr@gmail.com
24	189y1a05f4	V. Prasanna	4/7/C	prasannareddyrb@gmail.com
25	189y1a05f5	Saritha Yadala	4th year/cse-c	saritha.yadala17@gmail.com
26	189Y1A05F6	Y.Lekhya	4 / 7 / C	lekhyajyo7@gmail.com
27	189y1a05f8	Bhargavi yannam reddy	4/7/c	ybhargavi2001@gmail.com
28	189Y1A05G3	Y. Vishnu vardhan reddy	4th-year/7th-sem/c-section	Vishnureddy2647@gmail.com
29	19961a0585	Kota rakesh kumar	3/5/B section	199y1a0585@ksrmce.ac.in
30	199y1a0504	ALURU LALITHA	3 year, 5th sem, CSE-A/S	199y1a0504@ksrmce.ac.in
31	199Y1A0513	BADRI SIVA CHANDRIKA	5 sem	badrisivachandrika@gmail.com
32	199y1a0516	B DINESWAR REDDY	5th Semister	199y1a0516@ksrmce.ac.in
33	199y1a0521	B.Sai Surya Teja reddy	3/5/A	199y1a0521@ksrmce.ac.in
34	199y1a0521	B. Sai surya teja reddy	3/5/A	Saibommepalli @ hmail.com
35	199y1a0526	B. Chaitanya	21/5/A	199y1a0526@ksrmce.ac.in
36	199y1a0527	CHALAMALA RENUKA	3 - vi sem -cse A/s	199y1a0527@ksrmce.ac.in
37	199y1a0530	C. Jayasree	21/5/A	199y1a0530@ksrmce.ac.in
38	199Y1A0531	C.Bhargavi	3rd/5th/A/S	199y1a0531@ksrmce.ac.in
39	199Y1A0531	C.Bhargavi	3/5/A/S	199y1a0531@ksrmce.ac.in
40	199Y1A0533	C.Aruna	3 rd year ,5 th sem ,cse a/s	199y1a0533@ksrmce.ac.in
41	199Y1A0537	DAGGUPATI VENKATA HANUMA TEJA	3/1/CSE A	daggupatihanuma9849@gmail.com
42	199Y1A0537	DAGGUPATI VENKATA HANUMA TEJA	3/5/CSE A	daggupatihanuma9849@gmail.com
43	199Y1A0539	DASARI GOWTHAMI	3rd/1st/CSE_A	199y1a0539@ksrmce.ac.in
44	199Y1A0541	D.Hari kishan	2nd btech, CSE-A/s	199y1a0541@ksrmce.ac.in
45	199Y1A0542	D TEJONATH	5th sem cse-a/s	tejonath04@gmail.com
46	199y1a0548	G N KISHOR	5th Semester	199y1a0548@ksrmce.ac.in
47	199Y1A0551	GANDIKOTA VENKATA THARUN	3rd year 5th sem A/SECTION	199Y1A0551@ksrmce.ac.in
48	199y1a0551	Gandikota venkata tharun	3rd year 5th sem cse a	199y1a0551@ksrmce.ac.in
49	199y1a0555	Aruna Guduru	3rd/5 th /A	199y1a0555@ksrmce.ac.in
50	199y1A0556	Guduru imran	3	guduruimran37@gmail.com
51	199Y1A0560	G.yashoda	3rd,5thsem,a/sec	199y1a0560@ksrmce.ac.in
52	199Y1A0567	Kadapa jahnavi	3 rd year,5th sem, CSE-B/s	199y1a0567@ksrmce.ac.in
53	199Y1A0569	Kakarla Ram Anusha	3 year;5 th sem ;cse-B/s	199y1a0569@ksrmce.ac.in
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55	199Y1A0570	Kalamkuntla keerthi	3rd cse b	199Y1A0570 @ksrmce.ac.in
56	199Y1A0572	K.V.N.SHRAVANI	3 rd btech/ 5 th sem/b sec	199Y1A0572@ksrmce.ac.in
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60	199y1a0592	MALLU HARISHWAR REDDY	3/5/cse-b	199y1a0592@ksrmce.ac.in
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62	199y1a05a5	M karna	Cse b/s	karnaavenger@gmail.com
63	199Y1A05A6	M.kirankumar	5sem 3rd year bsection	mothukurikirankumar11@gmail.com
64	199Y1A05A8	MUDE CHANDU KUMAR NAIDU	3rd year/5th sem / b sec	chandunaisus225@gmail.com
65	199Y1A05A9	M.sushma	3rd/5th/sec b	199Y1A05A9@ksrmce.ac.in
66	199Y1A05B3	N.S.Manogna	3rd/5th/B sec	199y1a05b3@ksrmce.ac.in
67	199Y1A05C0	Pallam Bhagya Lakshmi	3 rd year 5 th sem CSE b section	199Y1A05C0@ksrmce.ac.in
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80	209Y1A0504	Alle kusuma	2nd year,3rd sem,cse-A/s	209Y1A0504@ksrmce.ac.in
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85	209y1a0521	B.pranay Kumar reddy	3rd	209y1a0521@ksrmce.ac.in
86	209Y1A0524	BIKKA JASWANTH KUMAR	3rd Year 2nd Sem CSE/A	209y1a0524@ksrmce.ac.in
87	209Y1A0526	B. Navyasri	B.Tech 3rd sem	209Y1A0526@ksrmce.ac.in
88	209y1a0527	B. Neelima	1st/2nd/A	209y1a0527@ksrmce.ac.in
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99	209y5a0501	D.CHAITANYA KUMAR REDDY	3rd year 5th sem c sec	chaithuchaithu133@gmail.com
100	209y5a0502	K.MAHESWAR REDDY	3rd year 5th sem c sec	msr.kancharla25@gmail.com
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RiyazBany
Coordinator

HOD

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K.S.R.M. College of Engineering (Autonomous), Kadapa.
Department of CSE

IOT using Rasberry Pi

Module –I:

Overview of IoT: Understanding IoT fundamentals, IOT Architecture and protocols, Various Platforms for IoT, Real time Examples of IoT.

Module-II:

Overview of IoT components and IoT Communication Technologies, practice some examples.

Module-III:

Getting started with Raspberry Pi :Introduction to Raspberry Pi, Comparison of various Rpi Models, Understanding SoC architecture and SoCs used in Raspberry Pi, Pin Description of Raspberry Pi, On-board components of Rpi, Projects using Raspberry Pi.

Module-IV:

Case studies: Create an **IoT**-Based Agricultural Solution, Develop a Face Recognizing Robot with **Raspberry Pi**, Build an **IoT**-based Smart Home System with **Raspberry Pi**, Using sensors with a Raspberry Pi ,Server and client between PC and Rasberry Pi.

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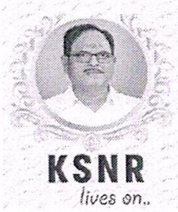

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Department of Computer Science & Engineering

Certificate Course on IOT using RaspberryPi

Schedule

S.No	Date	Time	Faculty	Topic
1	01/11/2021	1 PM to 2PM	S.Riyazbanu B.Gouri	Inauguration
		2 PM to 3 PM	S.Riyazbanu	Overview of IOT
		3 PM to 4 PM	B.Gouri	IOT architecture and protocols
		4 PM to 5PM	Z.Shobha Rani	Various platforms for IOT
2	02/11/2021	1 PM to 2 PM	S.Riyazbanu	Real time examples of IOT
		2 PM to 3PM	Z.Shobha rani	IOT communication technology
		3 PM to 5 PM	T.Anitha	Practical session
3	03/11/2021	1 PM to 2 PM	B.Gouri	Introduction to RaspberryPi
		2 PM to 3PM	Z.Shobha rani	Comparison of various Rpi models
		3 PM to 5 PM	Z.Shobha rani	Understanding SoC Architecture
4	04/11/2021	1 PM to 5PM	Z.Shobha Rani	Case studies-create an IOT based agriculture solution
5	05/11/2021	1 PM to 5PM	T.Anitha	Using sensors with a RaspberryPi
6	06/11/2021	1 PM to 5PM	T.anitha	Server and Client between PC and RaspberryPi
7	8/11/2021	2 PM to 5PM	S.Riyazbanu	Simple key board using the tone()
8	9/11/2021	2 PM to 5PM	S.Riyazbanu	Examples of ardino
9	10/11/2021	3 PM to 5PM	S.Riyazbanu	Examples of raspberry pi
10	11/11/2021	4 PM to 5PM	S.Riyazbanu	To develop a Sensor by using ardino
11	12/11/2021	4 PM to	S.Riyazbanu	Practical session

		5PM		
12	13/11/2021	4 PM to 5PM	Z.Shobha Rani	To develop an alarm senses by using ardino
13	15/11/2021	4 PM to 5PM	Z.Shobha Rani	Practical session
14	16/11/2021	4 PM to 5PM	S.Riyazbanu	Practical session
15	17/11/2021	4 PM to 5PM	S.Riyazbanu	Exam
16	18/11/2021	4 PM to 5PM	S.Riyazbanu	Certificates distribution

RiyazBanu
Coordinator

HOD

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Department of Computer Science & Engineering
Certificate Course on IoT using RaspberryPi
Attendance Sheet

S. No	Roll Number	Name of the Student	01/11/2021	02/11/2021	03/11/2021	04/11/2021	05/11/2021	06/11/2021	08/11/2021	09/11/2021	10/11/2021	11/11/2021	12/11/2021	13/11/2021	15/11/2021	16/11/2021	17/11/2021	18/11/2021
			AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN
1	189Y1A0581	M.Rishitha	P	A	P	A	P	P	P	P	P	P	P	A	P	P	P	P
2	189Y1A0584	Nallagatla Akshitha Reddy	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	189Y1A0586	Nallapati Sai Tejaswini	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
4	189Y1A0587	Nama Venkata Sravani	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
5	189Y1A0592	P.Naga Lakshmi	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
6	189Y1A0591	P.Lakshmi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7	189Y1A0597	Patti Mahendra	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8	189Y1A05A7	Putta Shireesha	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P

9	189Y1A05B4	S.Laharika	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P
10	189Y1A05B6	Sashidhar Reddy Sanivarapu	P	P	P	P	P	P	P	P	A	P	P	P	A	P	P	P
11	189Y1A05B8	Seelam Uma Maheswara Reddy	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	189Y1A05C6	S. Mohammed Rafi	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P
13	189Y1A05D5	S. Naga Phaneendra	P	A	P	P	P	A	P	A	P	P	P	P	P	P	P	P
14	189Y1A05D7	Syed Abdul Hannan	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
15	189Y1A05E1	T Venkata Ramana Reddy	P	P	P	P	P	P	P	P	A	P	P	P	A	P	P	P
16	189Y1A05E2	Thavvarupalli Raja	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
17	189Y1A05E5	T Sandeep Kumar	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
18	189Y1A05E7	V Vemakumar Reddy	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P
19	189Y1A05E8	V Guru Sai	P	P	P	P	P	P	A	P	P	P	A	P	P	P	P	P
20	189Y1A05E9	Varadhigalla Girish Kumar	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P
21	189Y1A05F0	Vasanthu Manisha	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P
22	189Y1A05F1	V.Sandya Rani	P	P	P	P	P	P	P	A	P	P	A	P	P	P	P	P
23	189Y1A05F2	V.Reddykishore	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
24	189Y1A05F4	V. Prasanna	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P

25	189Y1A05F5	Saritha Yadala	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P
26	189Y1A05F6	Y.Lekhya	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
27	189Y1A05F8	Bhargavi Yannam Reddy	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P
28	189Y1A05G3	Y. Vishnu Vardhan Reddy	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
29	19961A0585	Kota Rakesh Kumar	P	A	P	P	A	P	A	P	P	P	P	P	P	P	P	P
30	199Y1A0504	Aluru Lalitha	P	P	P	P	P	P	P	P	P	A	P	P	P	A	P	P
31	199Y1A0513	Badri Siva Chandrika	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
32	199Y1A0516	B Dineswar Reddy	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
33	199Y1A0521	B.Sai Surya Teja Reddy	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P
34	199Y1A0521	B. Sai Surya Teja Reddy	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P
35	199Y1A0526	B. Chaitanya	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
36	199Y1A0527	Chalamala Renuka	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
37	199Y1A0530	C. Jayasree	P	A	P	A	P	P	P	A	P	P	P	A	P	P	P	P
38	199Y1A0531	C.Bhargavi	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
39	199Y1A0531	C.Bhargavi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
40	199Y1A0533	C.Aruna	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
41	199Y1A0537	Daggupati Venkata Hanuma	P	P	A	P	P	P	A	P	A	P	P	P	A	P	P	P

		Teja	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P
42	199Y1A0537	Daggupati Venkata Hanuma Teja	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
43	199Y1A0539	Dasari Gowthami	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
44	199Y1A0541	D.Hari Kishan	P	A	P	P	P	P	A	P	P	P	P	A	P	P	P	P
45	199Y1A0542	D Tejonath	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P
46	199Y1A0548	G N Kishor	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
47	199Y1A0551	Gandikota Venkata Tharun	P	P	P	A	P	P	P	P	A	P	P	P	A	P	P	P
48	199Y1A0551	Gandikota Venkata Tharun	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
49	199Y1A0555	Aruna Guduru	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
50	199Y1A0556	Guduru Imran	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
51	199Y1A0560	G.Yashoda	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
52	199Y1A0567	Kadapa Jahnavi	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
53	199Y1A0569	Kakarla Ram Anusha	P	P	A	P	P	P	P	P	P	P	A	P	P	A	P	P
54	199Y1A0569	K. Rajamma	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
55	199Y1A0570	Kalamkuntla Keerthi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
56	199Y1A0572	K.V.N.Shravani	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P
57	199Y1A0583	K. Pavani	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
58	199Y1A0587	K Vemakrishna	P	A	P	P	P	P	A	P	P	P	P	P	A	P	P	P

59.	199Y1A0590	K.Rajesh	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P
60	199Y1A0592	Mallu Harishwar Reddy	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
61	199Y1A05A0	M. Poojitha	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P
62	199Y1A05A5	M Karna	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
63	199Y1A05A6	M.Kirankumar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
64	199Y1A05A8	Mude Chandu Kumar Naidu	P	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P
65	199Y1A05A9	M.Sushma	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
66	199Y1A05B3	N.S.Manogna	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
67	199Y1A05C0	Pallam Bhagya Lakshmi	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P
68	199Y1A05C0	Pallam Bhagya Lakshmi	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
69	199Y1A05C3	P.Naga Prashanthi	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
70	199Y1A05C4	P.Sree Vaishnavi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
71	199Y1A05E5	Shaik Akram	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
72	199Y1A05F4	Shaik Salma	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
73	199Y1A05F6	Shaik Tasleem	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
74	199Y1A05H0	T. Nazmaheptulla	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
75	199Y1A05I2	Y. Laxmi Chaitanya	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P
76	199Y1A05I3	Y Vikeshkumarredd y	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P

77	199Y1AO515	Y.Jagadeeswar Reddy	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P
78	199Y5A0504	C Vishnu Theja'	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
79	199Y5A0507	S.Kalyani	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
80	209Y1A0504	Alle Kusuma	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
81	209Y1A0506	Gowtham Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
82	209Y1A0512	Avulaashwith	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P
83	209Y1A0512	Avula Ashwith	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P
84	209Y1A0512	Avula Ashwith	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
85	209Y1A0521	B.Pranay Kumar Reddy	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P
86	209Y1A0524	Bikka Jaswanth Kumar	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
87	209Y1A0526	B. Navyasri	P	P	P	A	P	P	P	P	A	P	P	P	A	P	P	P
88	209Y1A0527	B. Neelima	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
89	209Y1A0536	Challa. Mani Kanta Nath Reddy	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
90	209Y1A0549	D.Sai Teja	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P
91	209Y1A0550	D.Niranjan Reddy	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
92	209Y1A0553	D.Lakshmi Swetha Reddy	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
93	209Y1A0559	Geetha Sri Gongati	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P
94	209Y1A0562	G. Venkata Kireeti	P	P	P	P	A	P	P	P	P	P	A	A	P	P	P	P

95	209Y1A0573	J. Ramu	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
96	209Y1A05E6	Sannipirala.Hema madhurya	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
97	209Y1A05E8	S.Chand Thouhid	P	P	A	P	P	A	P	P	P	P	A	P	A	P	P	P
98	209Y1A05I4	V.Venkata Jagadeeshwar Reddy	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
99	209Y5A0501	D.Chaitanya Kumar Reddy	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P
100	209Y5A0502	K.Maheswar Reddy	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P
101	209Y5A0503	K. Chandana	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P

Riyaz Dany
COORDINATOR

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Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATION COURSE ON

"IOT USING RASPBERRY PI"

RESOURCE PERSONS:

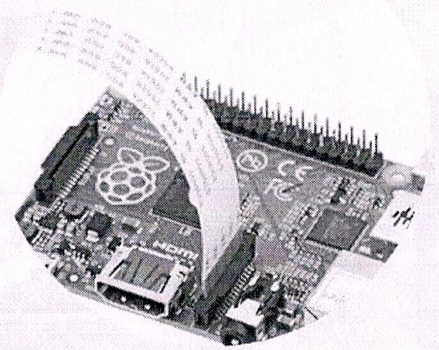
Smt.S.RIYAZBANU
Smt.B.GOURI
Smt.Z.SHOBHA RANI

CO-ORDINATOR:

Smt.S.RIYAZBANU

CO-COORDINATOR:

Smt. B. Gouri



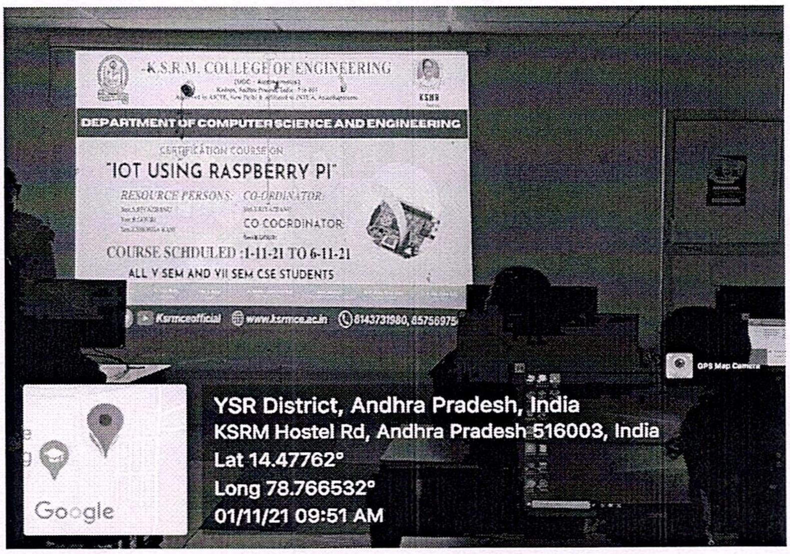
COURSE SCHDULED :1-11-21 TO 18-11-21

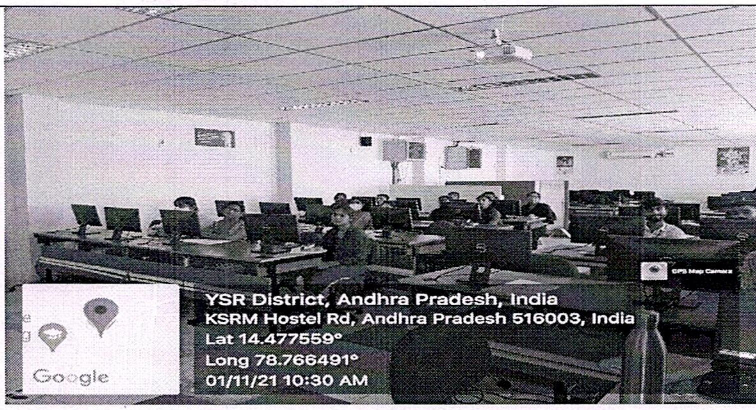
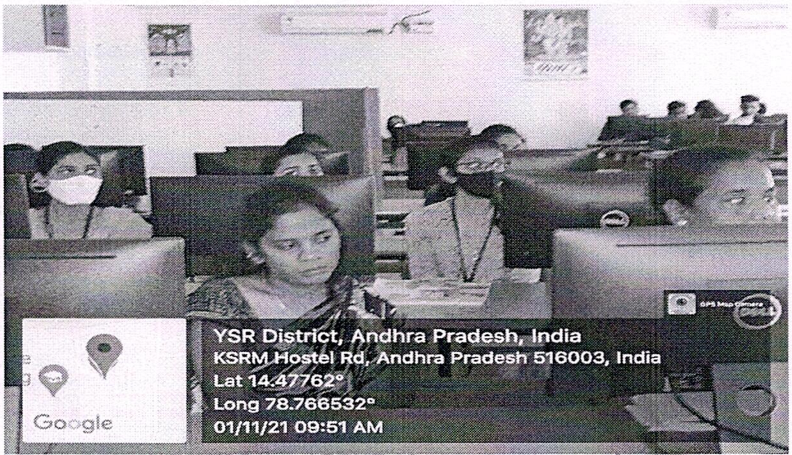
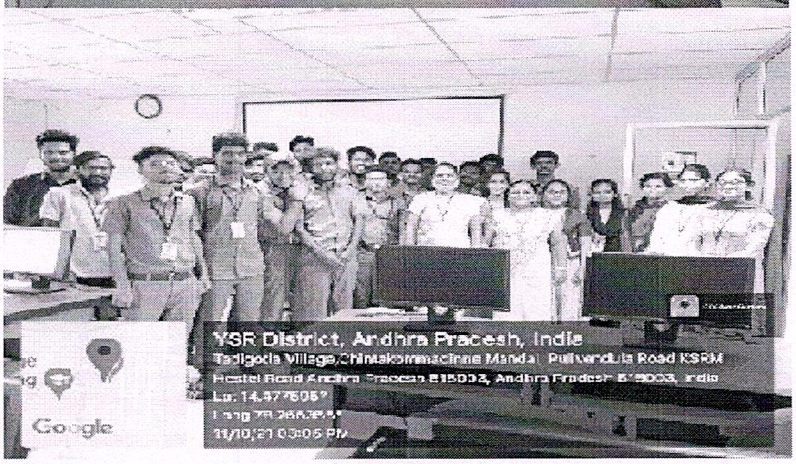
ALL B.TECH STUDENTS

Dr. M. Sreenivasulu	Dr. V.S.S. Murthy	Prof. A. Mohan	Dr. Kandula Chandra Obul Reddy	Smt. K. Rajeswari	Sri K. Madan Mohan Reddy	Sri. K. Raja Mohan Reddy
HOD CSE	(Principal)	(Director)	(Managing Director)	(Correspondent, Secretary, Treasurer)	(Vice-chairman)	(Chairman)

Ksrmceofficial www.ksrmce.ac.in 8143731980, 8575697569

Activity Report

Name of the Activity	IOT USING RASPBERRY PI	
Type of Activity	CERTIFICATION COURSE	
Date and Time of Activity	01-11-2021	18-11-2021
Details of participants	All B.Tech students	101
Coordinator(s)	S.RIYAZBANU, B.GOURI	
Organizing Dept./Support System	CSE	
Description	This course is use full to all cse students .Raspberry Pi (RPi) defines as a series of single-board computers that are now increasingly being used to connect IoT devices. RPi can be plugged into a computer monitor.For an inexperienced individual, they might seem similar as both boards contain capacitors, resistors, and ICUs which are soldered in the circuit of the board, and connections emerging from the sides. However, if it is looked closely, it is found that both, the Arduino and the Raspberry Pi, differ from one another in both architecture and purpose. They both are quite different boards. Check out the free course on raspberry pi.	
Photos		

Riyaz Bany
Coordinator

Dr. V. LOKESWARA REDDY
M.Tech., Ph.D.,
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K.S.R.M. College of Engineering (Autonomous)
KADAPA - 516 005.
HOD

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(AN AUTONOMOUS INSTITUTION)

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CERTIFIACATE

AWARD

B.SAI SURYA TEJA REDDY

He/She Participated as
certification course on "IOT using Raspberry Pi"
Organized by department of Computer Science & Engineering
on 01-11-2021 to 18-11-2021.

Riyaz Bazy

V.S.S. Murthy

Head Of Department | Coordinator | Principal

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CERTIFIACATE

AWARD

T.NAZMA HAPTULLA

He/She Participated as
certification course on "IOT using Raspberry Pi"
Organized by department of Computer Science & Engineering
on 01-11-2021 to 18-11-2021.

Head Of Department | Coordinator | Principal

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CERTIFIACATE

AWARD

K.MAHESWAR REDDY

He/She Participated as
certification course on "IOT using Raspberry Pi"
Organized by department of Computer Science & Engineering
on 01-11-2021 to 18-11-2021.

	Riyaz Bazy	V.S.S. Murthy
Head Of Department	Coordinator	Principal

Feedback form on Certificate Course

IOT using RaspberryPi (01/11/2021 to 18/11/2021)

* Required

1. Roll Number *

2. Name of the Student *

3. B.Tech Semester *

Mark only one oval.

- I Sem
- II Sem
- III Sem
- IV Sem
- V Sem
- VI Sem
- VII Sem
- VIII Sem

4. Branch *

Mark only one oval.

- Civil Engineering
- EEE
- ME
- ECE
- CSE
- AI&ML

5. Email ID *

____

6. Is the course content met your expectation. *

Mark only one oval.

- Yes
- No

7. Is the lecture sequence well planned? *

Mark only one oval.

- Yes
- No

8. The contents of the course are explained with examples. *

Mark only one oval.

- Agree
- Moderate
- strongly agree

9. Is the level of course high. *

Mark only one oval.

- Agree
- Moderate
- strongly agree

10. Is the course exposed you to the new knowledge and practice. *

Mark only one oval.

- Agree
- Moderate
- strongly agree

11. Is the lecture clear and easy to understand? *

Mark only one oval.

- 1
- 2
- 3
- 4
- 5

12. Rate the value of the course increasing your skills. *

Mark only one oval.

- 1
- 2
- 3
- 4
- 5

Note: 1. Below average 2. Average 3. Good 4. Very Good 5. Excellent

13. Any Issues

K.S.R.M. COLLEGE OF ENGINEERING

(UGC - AUTONOMOUS)

Kadapa, Andhra Pradesh, India - 516003

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapu[r]

KSRR

Department of Computer Science & Engineering

Feedback form on IOT using RaspberryPi

S.No.	Email address	Name of the student	Year & Semester	Branch	Roll Num	How for this certification course is helpfull in understanding IOT	How to organize the practical session for IOT(Aurdino)	Have you understood about Raspberry Pi	How is the faculty performance	Any suggestions about entire course	Is the lecturer clear and	Rate the value of course in increa	Any issues
1	199y1a05h0@ksrmce.ac.in	NAZMAHEPT ULLA	3/5/C	CSE	199Y1A05H0	helpful for the social		Yes	good		4	5	very good
2	karnaavenger@gmail.com	M.karunakar Reddy	2021/Vsem /cse	CSE	199y1a05a5	VGood	VGood	Vgood	Excellent	No...	5	5	very good
3	209y5a0503@ksrmce.ac.in	K. Chandana	3rd year Vth sem	CSE	209Y5A0503	Yes	Good	Yes	Excellent	Good	4	5	very good
4	pittudinesh@gmail.com	B.Dineswar Reddy	2021/V sem/cse A	CSE	199Y1A0516	Good	Good	Good	Excellent	No	5	5	very good
5	199y1a05c3@ksrmce.ac.in	P.naga prashanthi	3rd/5th/B	CSE	199y1a05c3	Helpful in projects for	In Saturday'	Yes	good	Nothing	5	5	very good
6	199Y1A05A9@ksrmce.ac.in	M.sushma	3rd/5th/sec b	CSE	199Y1A05A9	for my ongoing	afternoon session	Yes	Excellent	Nothing	4	5	very good
7	199y1a0542@ksrmce.ac.in	KURTHI TEJONATH	5th sem ,cse a/s	CSE	199Y1A0542	understood about	understood about	understood	Excellent	Nothing	4	5	Nothing
8	199y1a0521@ksrmce.ac.in	sai surya teja reddy	3/5/A	CSE	199Y1A0521	Good	understood about	Yes	good	g compla	4	5	no
9	209y1a0533@ksrmce.ac.in	C.V. Ashwin Kumar	CSE-A/2nd yr/3rd sem	CSE	209y1a0533	It is really helpful		have understood quiet	Excellent	Nothing	5	5	Nothing
10	199y1a05c0@ksrmce.ac.in	Bhagya Lakshmi	3 rd year 5 th sem	CSE	199Y1A05C0	for my projects	afternoon session	Yes	Excellent	Learning	5	5	Good
11	199Y1A05F4@ksrm.ac.in	Shaik Salma	3 rd/5th /c	CSE	199Y2A05F4	Best	Good	Excellent	Excellent	Good	5	5	Good

12	199y1a05b3@ksrmce.ac.in	N.S.Manogna	3rd/5th/Bse c	CSE	199Y1A05B3	my ongoing	afternoon session	Yes	good	be nice if we	5	5	Good
13	199y1a0548@ksrmce.ac.in	G N KISHOR	3rd/5th/A	CSE	199y1a0548	Good	Good	Good	good	Nothing	3	5	Good
14	199y1a0537@ksrmce.ac.in	VENKATA	3/5/CSE A	CSE	199Y1A0537	social	understa	Good	Excellent	want	5	4	very good
15	msr.kancharla25@gmail.com	K.MAHESWAR REDDY	3 / 5 th /c	CSE	209Y5A0502	Good	Good	Good	good	Nothing	4	4	very good
16	209y5a0501@ksrmce.ac.in	A KUMAR REDDY	5th sem c section	CSE	209y5a0501	Good	Good	Yes	Excellent	No sugg	5	4	very good
17	209Y1A0549@ksrmce.ac.in	D.SAI TEJA	year/3rd	CSE	209Y1A0549	Best	organized	Good	Excellent	No	3	5	no
18	HUBAIRSHAIK123@GMAIL.COM	Hubairshaik	year/3rd sem/A sec	CSE	209y1a0523	Better	Good	Actually yes	Excellent	No	4	5	no

Riyaz Basha
Coordinator

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K.S.R.M. COLLEGE OF ENGINEERING (AUTONOMOUS), KADAPA-516003
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
VALUE ADDED / CERTIFICATE COURSE ON
IOT USING RASPBERRYPI FROM 01/11/2021 TO 18/11/2021
AWARD LIST

S.No	Roll Number	Name of the Student	Marks Obtained
1	189Y1A0581	M.Rishitha	15
2	189Y1A0584	Nallagatla Akshitha Reddy	16
3	189Y1A0586	Nallapati Sai Tejaswini	17
4	189Y1A0587	Nama Venkaṭa Sravani	19
5	189Y1A0592	P.Naga Lakshmi	17
6	189Y1A0592	P.Naga Lakshmi	16
7	189Y1A0597	Patti Mahendra	15
8	189Y1A05A7	Putta Shireesha	14
9	189Y1A05B4	S.Laharika	18
10	189Y1A05B6	Sashidhar Reddy Sanivarapu	17
11	189Y1A05B8	Seelam Uma Maheswara Reddy	15
12	189Y1A05C6	S. Mohammed Rafi	14
13	189Y1A05D5	S. Naga Phaneendra	15
14	189Y1A05D7	Syed Abdul Hannan	13
15	189Y1A05E1	T Venkata Ramana Reddy	17
16	189Y1A05E2	Thavvarupalli Raja	18
17	189Y1A05E5	T Sandeep Kumar	16
18	189Y1A05E7	V Vemakumar Reddy	17
19	189Y1A05E8	V Guru Sai	18
20	189Y1A05E9	Varadhigalla Girish Kumar	15
21	189Y1A05F0	Vasanthu Manisha	14
22	189Y1A05F1	V.Sandya Rani	15
23	189Y1A05F2	V.Reddykishore	14
24	189Y1A05F4	V. Prasanna	17
25	189Y1A05F5	Saritha Yadala	14
26	189Y1A05F6	Y.Lekhya	17
27	189Y1A05F8	Bhargavi Yannam Reddy	16
28	189Y1A05G3	Y. Vishnu Vardhan Reddy	15
29	19961A0585	Kota Rakesh Kumar	09
30	199Y1A0504	Aluru Lalitha	10
31	199Y1A0513	Badri Siva Chandrika	12
32	199Y1A0516	B Dineswar Reddy	13
33	199Y1A0521	B.Sai Surya Teja Reddy	15
34	199Y1A0521	B. Sai Surya Teja Reddy	14
35	199Y1A0526	B. Chaitanya	13
36	199Y1A0527	Chalamala Renuka	15
37	199Y1A0530	C. Jayasree	17
38	199Y1A0531	C.Bhargavi	16
39	199Y1A0531	C.Bhargavi	08
40	199Y1A0533	C.Aruna	14
41	199Y1A0537	Daggupati Venkata Hanuma Teja	13
42	199Y1A0537	Daggupati Venkata Hanuma Teja	17

43	199Y1A0539	Dasari Gowthami	15
44	199Y1A0541	D.Hari Kishan	14
45	199Y1A0542	D Tejonath	18
46	199Y1A0548	G N Kishor	17
47	199Y1A0551	Gandikota Venkata Tharun	17
48	199Y1A0551	Gandikota Venkata Tharun	14
49	199Y1A0555	Aruna Guduru	13
50	199Y1A0556	Guduru Imran	15
51	199Y1A0560	G.Yashoda	17
52	199Y1A0567	Kadapa Jahnavi	14
53	199Y1A0569	Kakarla Ram Anusha	14
54	199Y1A0569	K. Rajamma	15
55	199Y1A0570	Kalamkuntla Keerthi	16
56	199Y1A0572	K.V.N.Shravani	13
57	199Y1A0583	K. Pavani	12
58	199Y1A0587	K Vemakrishna	13
59	199Y1A0590	K.Rajesh	14
60	199Y1A0592	Mallu Harishwar Reddy	15
61	199Y1A05A0	M. Poojitha	12
62	199Y1A05A5	M Karna	16
63	199Y1A05A6	M.Kirankumar	14
64	199Y1A05A8	Mude Chandu Kumar Naidu	02
65	199Y1A05A9	M.Sushma	18
66	199Y1A05B3	N.S.Manogna	17
67	199Y1A05C0	Pallam Bhagya Lakshmi	16
68	199Y1A05C0	Pallam Bhagya Lakshmi	15
69	199Y1A05C3	P.Naga Prashanthi	14
70	199Y1A05C4	P.Sree Vaishnavi	15
71	199Y1A05E5	Shaik Akram	13
72	199Y1A05F4	Shaik Salma	16
73	199Y1A05F6	Shaik Tasleem	15
74	199Y1A05H0	T. Nazmaheptulla	14
75	199Y1A05I2	Y. Laxmi Chaitanya	16
76	199Y1A05I3	Y Vikeshkumarreddy	15
77	199Y1AO5I5	Y.Jagadeeswar Reddy	17
78	199Y5A0504	C Vishnu Theja'	18
79	199Y5A0507	S.Kalyani	16
80	209Y1A0504	Alle Kusuma	15
81	209Y1A0506	Gowtham Kumar	16
82	209Y1A0512	Avulaashwith	15
83	209Y1A0512	Avula Ashwith	08
84	209Y1A0512	Avula Ashwith	17
85	209Y1A0521	B.Pranay Kumar Reddy	07
86	209Y1A0524	Bikka Jaswanth Kumar	15
87	209Y1A0526	B. Navyasri	14
88	209Y1A0527	B. Neelima	17
89	209Y1A0536	Challa. Mani Kanta Nath Reddy	15
90	209Y1A0549	D.Sai Teja	13

91	209Y1A0550	D.Niranjan Reddy	17
92	209Y1A0553	D.Lakshmi Swetha Reddy	19
93	209Y1A0559	Geetha Sri Gongati	13
94	209Y1A0562	G. Venkata Kireeti	16
95	209Y1A0573	J. Ramu	19
96	209Y1A05E6	Sannipirala.Hemamadhurya	15
97	209Y1A05E8	S.Chand Thouhid	14
98	209Y1A05I4	V.Venkata Jagadeeshwar Reddy	15
99	209Y5A0501	D.Chaitanya Kumar Reddy	17
100	209Y5A0502	K.Maheswar Reddy	15
101	209Y5A0503	K. Chandana	14

Riyaz Basha

Coordinator(s)

HoD CSE

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ASSESSMENT TEST

Roll Number: ________________ **Name of the Student:** __________________________

Time: 20 Min **(Objective Questions)** **Max.Marks:20**

Note: Answer the following Questions and each question carries **one** mark.

1. The Raspberry Pi is defined as the __________ . [ ]
a) Micro Computer b) Mega Computer c) Mini computer d) Nano Computer

2. Raspbian is __________ . [ ]
a) Assembler b) Language c) Compiler d) OS

3. Raspberry Pi consists of a _______ quad-core processor or microprocessor. [ ]
a) 16-bit b) 32-bit c) 64-bit d) 128-bit

4. The Raspberry Pi has a __________ interface to allow it to perform serial data communications. [ ]
a) UART b) GPIO c) I2C d) SPI

5. How many USB ports are present in Raspberry Pi 3? [ ]
a) 5 b) 2 c) 4 d) 3

6. What bit processor is used in Pi 3? [ ]
a) 64-bit b) 32-bit c) 128-bit d) Both 64 and 32 bit

7. What is the speed of operation in Pi 3? [ ]
a) 900MHz b) 1.2GHz c) 1GHz d) 500MHz

8. What is the Ethernet/LAN cable used in RPi? [ ]
a) Cat5 b) Cat5e c) Cat6 d) RJ45

9. How many Input/Output pins on board Raspberry Pi3 has? [ ]
a) 20 b) 30 c) 40 d) 50

10. How much RAM, the Raspberry Pi has? [ ]
a) 2GiB of RAM b) 1GiB of RAM c) 4GiB of RAM d) 8GiB of RAM

11. What is the maximum peripheral current draw allowed in Raspberry Pi 3? [ ]
a) 1200 mA b) 700 mA c) 500 mA d) 100 mA

12. What does GPIO stand for? [ ]
a) General Purpose Inner Outer Propeller b) General Purpose Input Output Pins
c) Generally Powered Input Output Pins d) General Purpose Input Output Processor

13. What do we use to connect TV to RPi? [ ]
a) Male HDMI b) Female HDMI c) Male HDMI and Adapter d) Female HDMI and Adapter

14. Data collected by Raspberry Pi from the sensor can be [ ]
a) Processed in Raspberry Pi b) Sent to other devices connected to the network
c) Used to control/activate other devices in the network d) All of the above

15. Which operating system Raspberry Pi has? [ ]
a)Linux b) OpenBSD c) NetBSD d) All of the above

16. How power supply is done to RPi? [ ]
a) USB connection b) Internal battery c) Charger d) Adapter

17. What are the mode(s) used for addressing the pins in Raspberry Pi? [ ]
A) GPI b) BCM c) BOARD & BCM d) GPIO, BCIM & CAN

18. What are the parameters that are default values? [ ]
a) Port_Name and Bits b) Speed and Port_Names
c) Speed and Parity d) Stop bit and Flow Control

19. The BCM 14 pin of Raspberry Pi is [ ]
a) Physical pin 8 b) UART c) Transmitter pin d) All of the above

20. What is the command used for easy using of GNU screen? [ ]
a) $useradd -G {dialout} your_name
b) Screen Port_Name115200
c) Minicom -b 115200 -o -D Port_Name
d) Prompt> # help

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ASSESSMENT TEST

Roll Number: 189Y1A05E2 **Name of the Student:** Thavarupalli. Raja

Time: 20 Min **(Objective Questions)** **Max.Marks:20**

Note: Answer the following Questions and each question carries **one** mark.

1. The Raspberry Pi is defined as the __________ . [c] ✓
a) Micro Computer b) Mega Computer c) Mini computer d) Nano Computer

2. Raspbian is __________ . [a] ✗
a) Assembler b) Language c) Compiler d) OS

3. Raspberry Pi consists of a _______ quad-core processor or microprocessor. [c] ✓
a) 16-bit b) 32-bit c) 64-bit d) 128-bit

4. The Raspberry Pi has a __________ interface to allow it to perform serial data communications. [a] ✓
a) UART b) GPIO c) I2C d) SPI

5. How many USB ports are present in Raspberry Pi 3? [c] ✓
a) 5 b) 2 c) 4 d) 3

6. What bit processor is used in Pi 3? [a] ✓
a) 64-bit b) 32-bit c) 128-bit d) Both 64 and 32 bit

7. What is the speed of operation in Pi 3? [b] ✓
a) 900MHz b) 1.2GHz c) 1GHz d) 500MHz

8. What is the Ethernet/LAN cable used in RPi? [d] ✓
a) Cat5 b) Cat5e c) Cat6 d) RJ45

9. How many Input/Output pins on board Raspberry Pi3 has? [c] ✓
a) 20 b) 30 c) 40 d) 50

10. How much RAM, the Raspberry Pi has? [b] ✓
a) 2GiB of RAM b) 1GiB of RAM c) 4GiB of RAM d) 8GiB of RAM

11. What is the maximum peripheral current draw allowed in Raspberry Pi 3? [c] ✗
a) 1200 mA b) 700 mA c) 500 mA d) 100 mA

12. What does GPIO stand for? [b] ✓
a) General Purpose Inner Outer Propeller b) General Purpose Input Output Pins
c) Generally Powered Input Output Pins d) General Purpose Input Output Processor

13. What do we use to connect TV to RPi? [c] ✓
a) Male HDMI b) Female HDMI c) Male HDMI and Adapter d) Female HDMI and Adapter

14. Data collected by Raspberry Pi from the sensor can be [d] ✓
a) Processed in Raspberry Pi b) Sent to other devices connected to the network
c) Used to control/activate other devices in the network d) All of the above

15. Which operating system Raspberry Pi has? [d] ✓
a)Linux b) OpenBSD c) NetBSD d) All of the above

16. How power supply is done to RPi? [a] ✓
a) USB connection b) Internal battery c) Charger d) Adapter

17. What are the mode(s) used for addressing the pins in Raspberry Pi? [c] ✓
A) GPI b) BCM c) BOARD & BCM d) GPIO, BCIM & CAN

18. What are the parameters that are default values? [b] ✓
a) Port_Name and Bits b) Speed and Port_Names
c) Speed and Parity d) Stop bit and Flow Control

19. The BCM 14 pin of Raspberry Pi is [d] ✓
a) Physical pin 8 b) UART c) Transmitter pin d) All of the above

20. What is the command used for easy using of GNU screen? [b] ✓
a) $useradd -G {dialout} your_name
b) Screen Port_Name115200
c) Minicom -b 115200 -o -D Port_Name
d) Prompt> # help

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Sy

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ASSESSMENT TEST

Roll Number: 199Y1A0527 **Name of the Student:** Chalamala Renuka

Time: 20 Min **(Objective Questions)** **Max.Marks:20**

Note: Answer the following Questions and each question carries **one** mark.

1. The Raspberry Pi is defined as the __________ . [c] ✓
a) Micro Computer b) Mega Computer c) Mini computer d) Nano Computer

2. Raspbian is __________ . [d] ✓
a) Assembler b) Language c) Compiler d) OS

3. Raspberry Pi consists of a _______ quad-core processor or microprocessor. [c] ✓
a) 16-bit b) 32-bit c) 64-bit d) 128-bit

4. The Raspberry Pi has a __________ interface to allow it to perform serial data communications. [b] ✗
a) UART b) GPIO c) I2C d) SPI

5. How many USB ports are present in Raspberry Pi 3? [c] ✓
a) 5 b) 2 c) 4 d) 3

6. What bit processor is used in Pi 3? [a] ✓
a) 64-bit b) 32-bit c) 128-bit d) Both 64 and 32 bit

7. What is the speed of operation in Pi 3? [b] ✓
a) 900MHz b) 1.2GHz c) 1GHz d) 500MHz

8. What is the Ethernet/LAN cable used in RPi? [d] ✓
a) Cat5 b) Cat5e c) Cat6 d) RJ45

9. How many Input/Output pins on board Raspberry Pi3 has? [c] ✓
a) 20 b) 30 c) 40 d) 50

10. How much RAM, the Raspberry Pi has? [c] ✗
a) 2GiB of RAM b) 1GiB of RAM c) 4GiB of RAM d) 8GiB of RAM

11. What is the maximum peripheral current draw allowed in Raspberry Pi 3? [a] ✓
a) 1200 mA b) 700 mA c) 500 mA d) 100 mA

12. What does GPIO stand for? [b]
a) General Purpose Inner Outer Propeller
b) General Purpose Input Output Pins
c) Generally Powered Input Output Pins
d) General Purpose Input Output Processor

13. What do we use to connect TV to RPi? [C]
a) Male HDMI b) Female HDMI c) Male HDMI and Adapter d) Female HDMI and Adapter

14. Data collected by Raspberry Pi from the sensor can be [d]
a) Processed in Raspberry Pi b) Sent to other devices connected to the network
c) Used to control/activate other devices in the network d) All of the above

15. Which operating system Raspberry Pi has? [c] x
a)Linux b) OpenBSD c) NetBSD d) All of the above

16. How power supply is done to RPi? [b] x
a) USB connection b) Internal battery c) Charger d) Adapter

17. What are the mode(s) used for addressing the pins in Raspberry Pi? [C]
A) GPI b) BCM c) BOARD & BCM d) GPIO, BCIM & CAN

18. What are the parameters that are default values? [b]
a) Port_Name and Bits b) Speed and Port_Names
c) Speed and Parity d) Stop bit and Flow Control

19. The BCM 14 pin of Raspberry Pi is [C] x
a) Physical pin 8 b) UART c) Transmitter pin d) All of the above

20. What is the command used for easy using of GNU screen? [b]
a) $useradd -G {dialout} your_name
b) Screen Port_Name115200
c) Minicom -b 115200 -o -D Port_Name
d) Prompt> # help

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ASSESSMENT TEST

Roll Number: 189Y1A05E8 **Name of the Student:** V. Guru Sai

Time: 20 Min **(Objective Questions)** **Max.Marks:20**

Note: Answer the following Questions and each question carries **one** mark.

1. The Raspberry Pi is defined as the __________ . [C] ✓
a) Micro Computer b) Mega Computer c) Mini computer d) Nano Computer

2. Raspbian is __________ . [a] ✗
a) Assembler b) Language c) Compiler d) OS

3. Raspberry Pi consists of a _______ quad-core processor or microprocessor. [C] ✓
a) 16-bit b) 32-bit c) 64-bit d) 128-bit

4. The Raspberry Pi has a __________ interface to allow it to perform serial data communications. [a] ✓
a) UART b) GPIO c) I2C d) SPI

5. How many USB ports are present in Raspberry Pi 3? [C] ✓
a) 5 b) 2 c) 4 d) 3

6. What bit processor is used in Pi 3? [a] ✓
a) 64-bit b) 32-bit c) 128-bit d) Both 64 and 32 bit

7. What is the speed of operation in Pi 3? [b] ✓
a) 900MHz b) 1.2GHz c) 1GHz d) 500MHz

8. What is the Ethernet/LAN cable used in RPi? [d] ✓
a) Cat5 b) Cat5e c) Cat6 d) RJ45

9. How many Input/Output pins on board Raspberry Pi3 has? [C] ✓
a) 20 b) 30 c) 40 d) 50

10. How much RAM, the Raspberry Pi has? [C] ✗
a) 2GiB of RAM b) 1GiB of RAM c) 4GiB of RAM d) 8GiB of RAM

11. What is the maximum peripheral current draw allowed in Raspberry Pi 3? [a] ✓
a) 1200 mA b) 700 mA c) 500 mA d) 100 mA

12. What does GPIO stand for? [b] ✓
a) General Purpose Inner Outer Propeller b) General Purpose Input Output Pins
c) Generally Powered Input Output Pins d) General Purpose Input Output Processor

13. What do we use to connect TV to RPi? [C] ✓
a) Male HDMI b) Female HDMI c) Male HDMI and Adapter d) Female HDMI and Adapter

14. Data collected by Raspberry Pi from the sensor can be [d] ✓
a) Processed in Raspberry Pi b) Sent to other devices connected to the network
c) Used to control/activate other devices in the network d) All of the above

15. Which operating system Raspberry Pi has? [d] ✓
a)Linux b) OpenBSD c) NetBSD d) All of the above

16. How power supply is done to RPi? [a] ✓
a) USB connection b) Internal battery c) Charger d) Adapter

17. What are the mode(s) used for addressing the pins in Raspberry Pi? [C] ✓
A) GPI b) BCM c) BOARD & BCM d) GPIO, BCIM & CAN

18. What are the parameters that are default values? [b] ✓
a) Port_Name and Bits b) Speed and Port_Names
c) Speed and Parity d) Stop bit and Flow Control

19. The BCM 14 pin of Raspberry Pi is [d] ✓
a) Physical pin 8 b) UART c) Transmitter pin d) All of the above

20. What is the command used for easy using of GNU screen? [b] ✓
a) $useradd -G {dialout} your_name
b) Screen Port_Name115200
c) Minicom -b 115200 -o -D Port_Name
d) Prompt> # help

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ASSESSMENT TEST

Roll Number: 189Y1A058A **Name of the Student:** Nama venkata sravani

Time: 20 Min **(Objective Questions)** **Max.Marks:20**

Note: Answer the following Questions and each question carries **one** mark.

1. The Raspberry Pi is defined as the ________ . [C]
a) Micro Computer b) Mega Computer c) Mini computer d) Nano Computer

2. Raspbian is ________ . [d]
a) Assembler b) Language c) Compiler d) OS

3. Raspberry Pi consists of a _______ quad-core processor or microprocessor. [C]
a) 16-bit b) 32-bit c) 64-bit d) 128-bit

4. The Raspberry Pi has a ________ interface to allow it to perform serial data communications. [A]
a) UART b) GPIO c) I2C d) SPI

5. How many USB ports are present in Raspberry Pi 3? [C]
a) 5 b) 2 c) 4 d) 3

6. What bit processor is used in Pi 3? [A]
a) 64-bit b) 32-bit c) 128-bit d) Both 64 and 32 bit

7. What is the speed of operation in Pi 3? [B]
a) 900MHz b) 1.2GHz c) 1GHz d) 500MHz

8. What is the Ethernet/LAN cable used in RPi? [D]
a) Cat5 b) Cat5e c) Cat6 d) RJ45

9. How many Input/Output pins on board Raspberry Pi3 has? [C]
a) 20 b) 30 c) 40 d) 50

10. How much RAM, the Raspberry Pi has? [B]
a) 2GiB of RAM b) 1GiB of RAM c) 4GiB of RAM d) 8GiB of RAM

11. What is the maximum peripheral current draw allowed in Raspberry Pi 3? [A]
a) 1200 mA b) 700 mA c) 500 mA d) 100 mA

12. What does GPIO stand for? [B]
a) General Purpose Inner Outer Propeller
b) General Purpose Input Output Pins
c) Generally Powered Input Output Pins
d) General Purpose Input Output Processor

13. What do we use to connect TV to RPi? [C]
a) Male HDMI b) Female HDMI c) Male HDMI and Adapter d) Female HDMI and Adapter

14. Data collected by Raspberry Pi from the sensor can be [A] X
a) Processed in Raspberry Pi b) Sent to other devices connected to the network
c) Used to control/activate other devices in the network d) All of the above

15. Which operating system Raspberry Pi has? [D]
a)Linux b) OpenBSD c) NetBSD d) All of the above

16. How power supply is done to RPi? [A]
a) USB connection b) Internal battery c) Charger d) Adapter

17. What are the mode(s) used for addressing the pins in Raspberry Pi? [C]
A) GPI b) BCM c) BOARD & BCM d) GPIO, BCIM & CAN

18. What are the parameters that are default values? [B]
a) Port_Name and Bits
b) Speed and Port_Names
c) Speed and Parity
d) Stop bit and Flow Control

19. The BCM 14 pin of Raspberry Pi is [D]
a) Physical pin 8 b) UART c) Transmitter pin d) All of the above

20. What is the command used for easy using of GNU screen? [B]
a) $useradd -G {dialout} your_name
b) Screen Port_Name115200
c) Minicom -b 115200 -o -D Port_Name
d) Prompt> # help

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ASSESSMENT TEST

Roll Number: 19941A0504 **Name of the Student:** Aluru Lalitha

Time: 20 Min **(Objective Questions)** **Max.Marks:20**

Note: Answer the following Questions and each question carries **one** mark.

1. The Raspberry Pi is defined as the __________ . [C]
a) Micro Computer b) Mega Computer c) Mini computer d) Nano Computer

2. Raspbian is __________ . [d]
a) Assembler b) Language c) Compiler d) OS

3. Raspberry Pi consists of a _______ quad-core processor or microprocessor. [D] X
a) 16-bit b) 32-bit c) 64-bit d) 128-bit

4. The Raspberry Pi has a __________ interface to allow it to perform serial data communications. [A]
a) UART b) GPIO c) I2C d) SPI

5. How many USB ports are present in Raspberry Pi 3? [D] X
a) 5 b) 2 c) 4 d) 3

6. What bit processor is used in Pi 3? [D] X
a) 64-bit b) 32-bit c) 128-bit d) Both 64 and 32 bit

7. What is the speed of operation in Pi 3? [B]
a) 900MHz b) 1.2GHz c) 1GHz d) 500MHz

8. What is the Ethernet/LAN cable used in RPi? [A] X
a) Cat5 b) Cat5e c) Cat6 d) RJ45

9. How many Input/Output pins on board Raspberry Pi3 has? [C]
a) 20 b) 30 c) 40 d) 50

10. How much RAM, the Raspberry Pi has? [C] X
a) 2GiB of RAM b) 1GiB of RAM c) 4GiB of RAM d) 8GiB of RAM

11. What is the maximum peripheral current draw allowed in Raspberry Pi 3? [A]
a) 1200 mA b) 700 mA c) 500 mA d) 100 mA

12. What does GPIO stand for? [B] ✓
a) General Purpose Inner Outer Propeller b) General Purpose Input Output Pins
c) Generally Powered Input Output Pins d) General Purpose Input Output Processor

13. What do we use to connect TV to RPi? [D] X
a) Male HDMI b) Female HDMI c) Male HDMI and Adapter d) Female HDMI and Adapter

14. Data collected by Raspberry Pi from the sensor can be [C] X
a) Processed in Raspberry Pi b) Sent to other devices connected to the network
c) Used to control/activate other devices in the network d) All of the above

15. Which operating system Raspberry Pi has? [D] ✓
a)Linux b) OpenBSD c) NetBSD d) All of the above

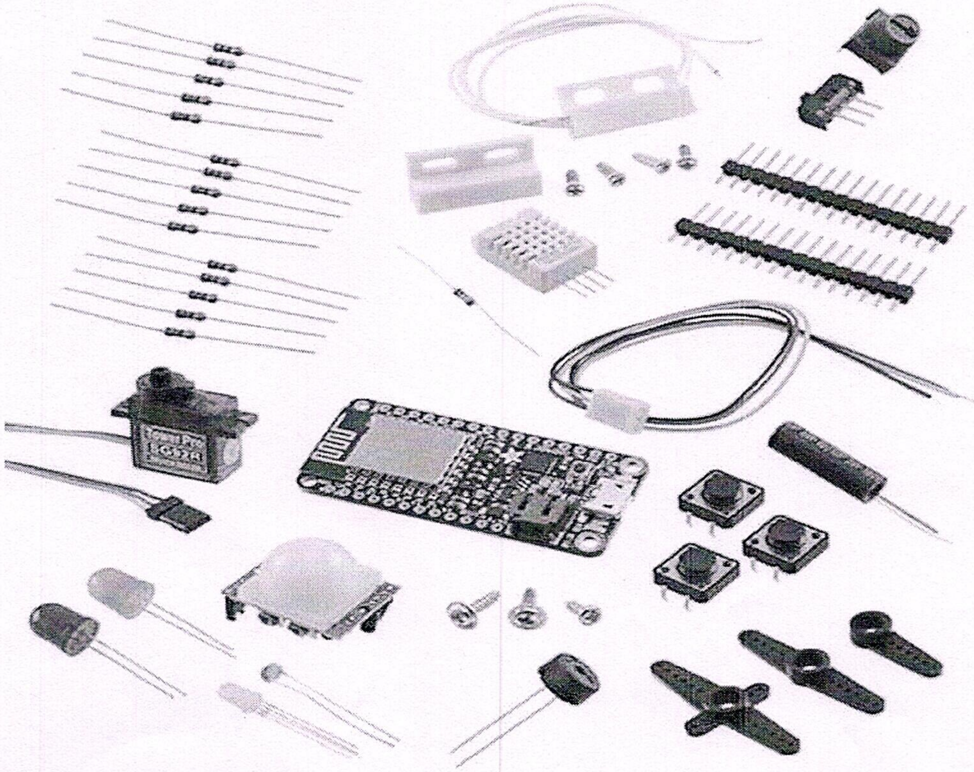
16. How power supply is done to RPi? [A] ✓
a) USB connection b) Internal battery c) Charger d) Adapter

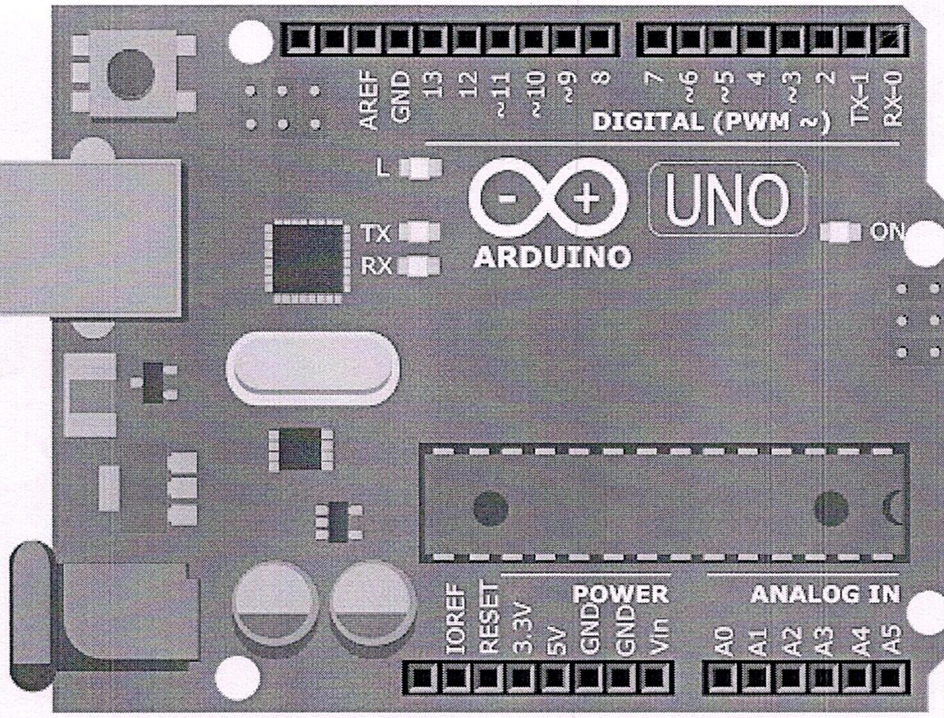
17. What are the mode(s) used for addressing the pins in Raspberry Pi? [b] X
A) GPI b) BCM c) BOARD & BCM d) GPIO, BCIM & CAN

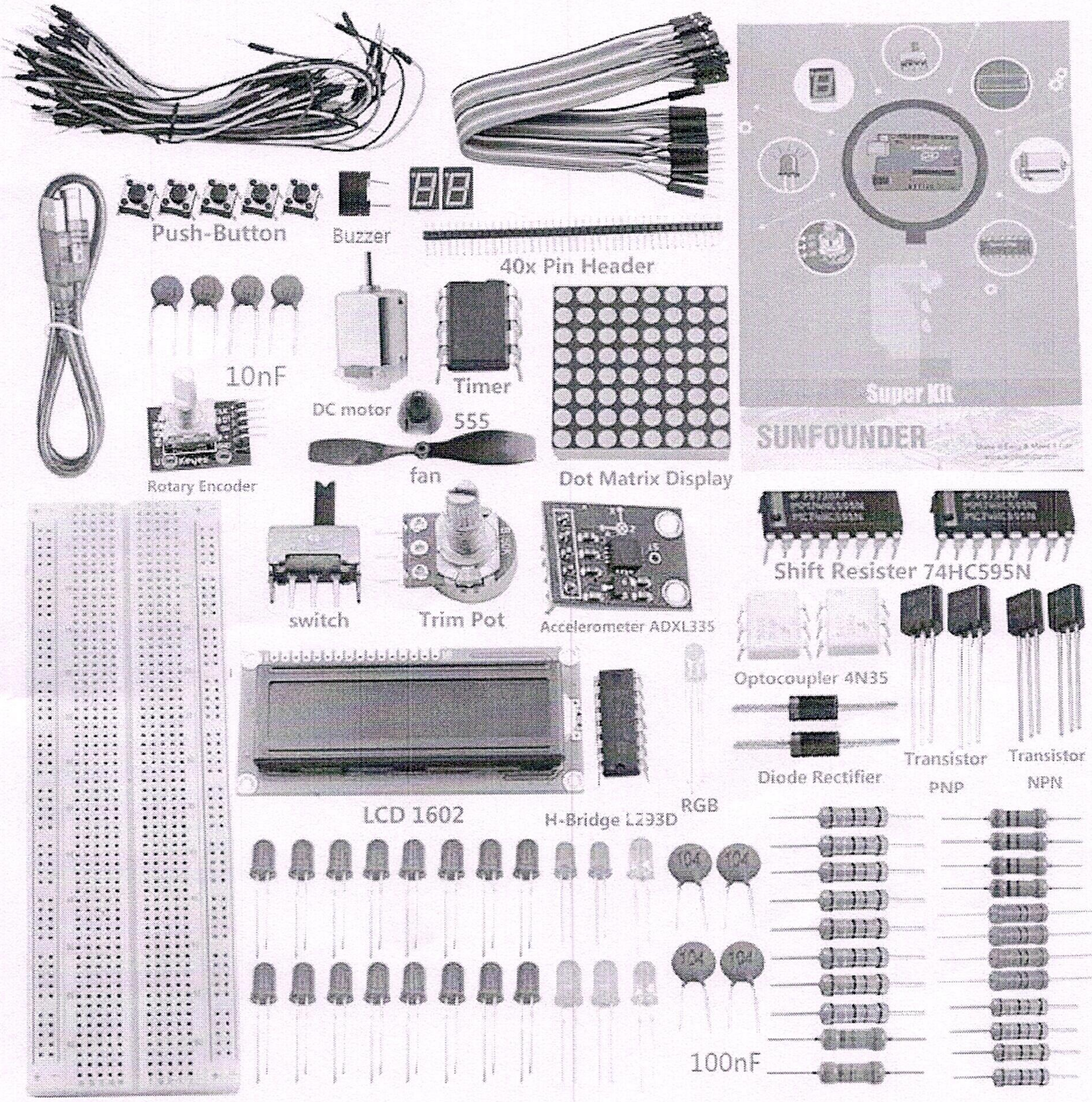
18. What are the parameters that are default values? [C] X
a) Port_Name and Bits b) Speed and Port_Names
c) Speed and Parity d) Stop bit and Flow Control

19. The BCM 14 pin of Raspberry Pi is [C] X
a) Physical pin 8 b) UART c) Transmitter pin d) All of the above

20. What is the command used for easy using of GNU screen? [B] ✓
a) $useradd -G {dialout} your_name
b) Screen Port_Name115200
c) Minicom -b 115200 -o -D Port_Name
d) Prompt> # help



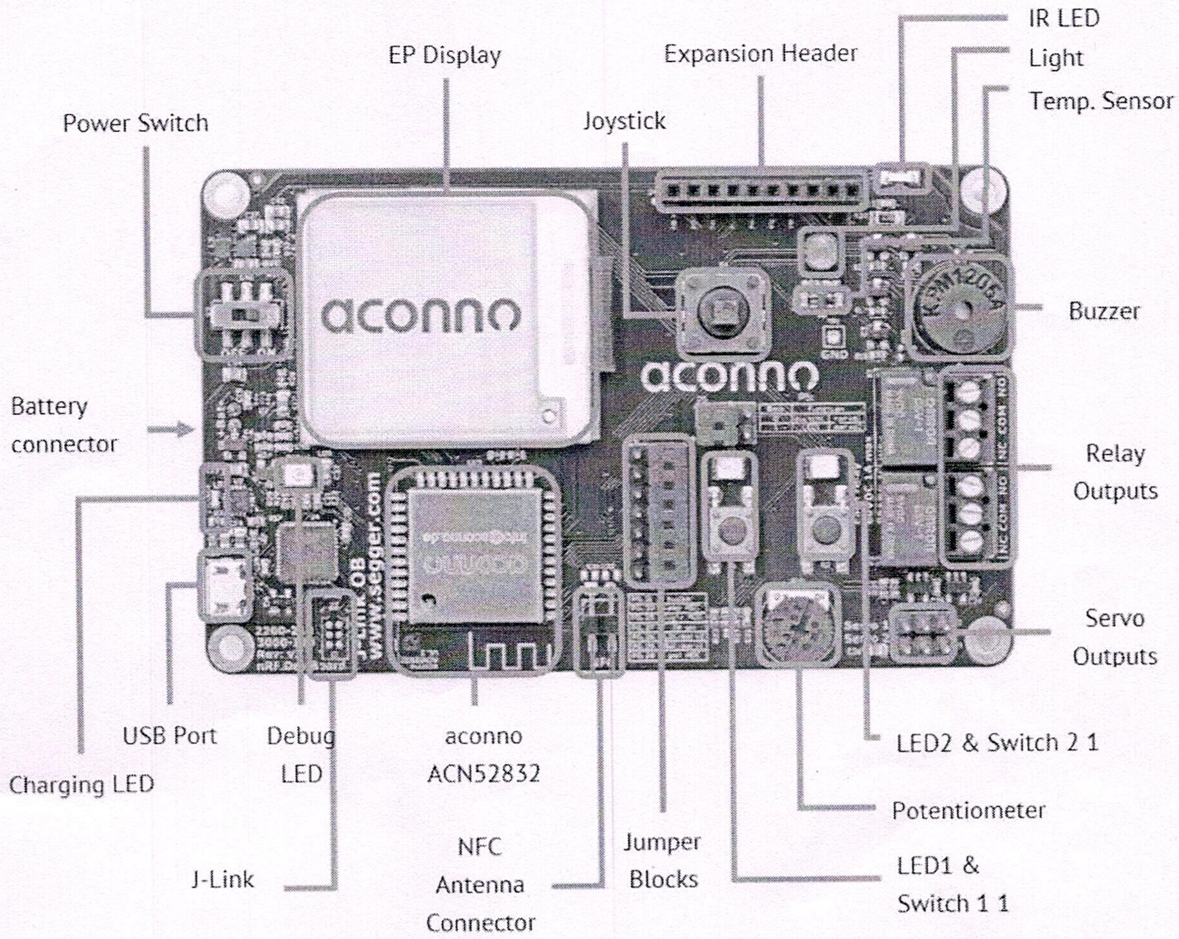

AREF
GND
13
12
~11
~10
~9
8
7
~6
~5
4
~3
2
TX-1
RX-0
DIGITAL (PWM ~)
L
TX
RX
UNO
ARDUINO
ON
POWER
ANALOG IN
IOREF
RESET
3.3V
5V
GND
GND
Vin
A0
A1
A2
A3
A4
A5

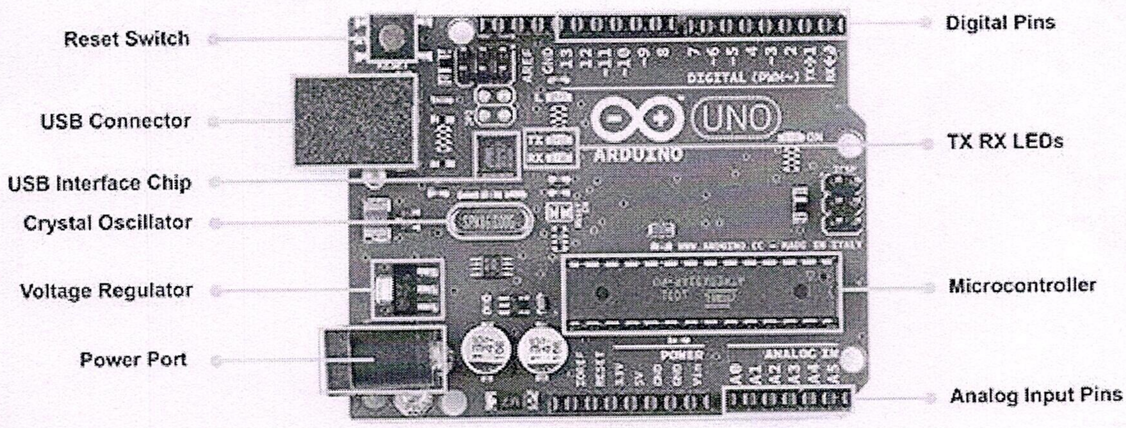


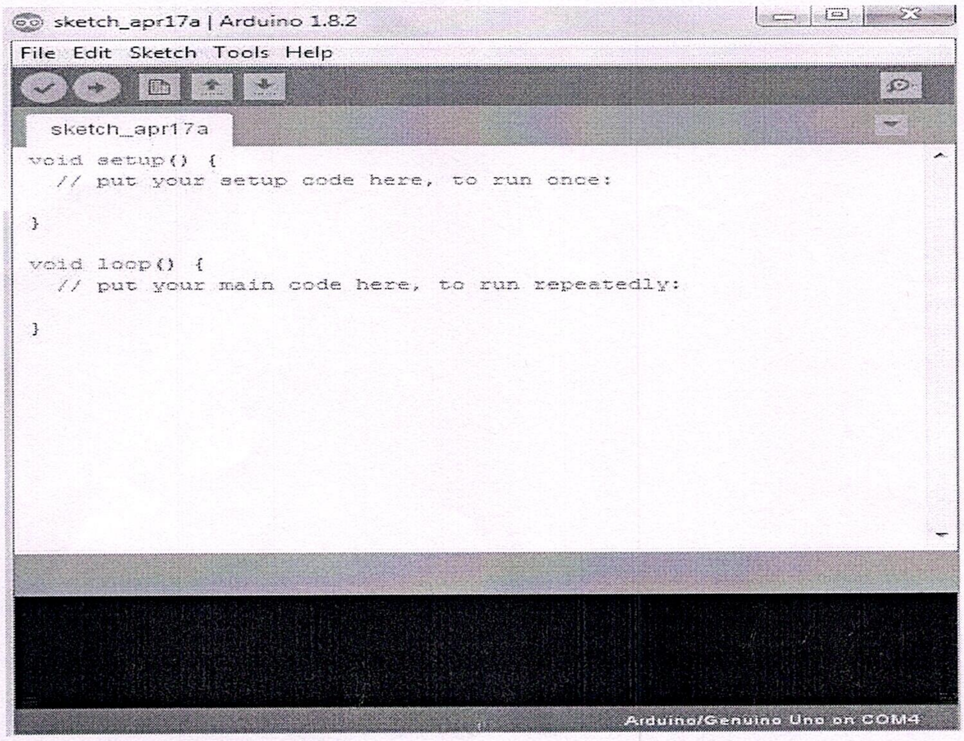
The list of components in the SunFounder Arduino Starter Kits are:

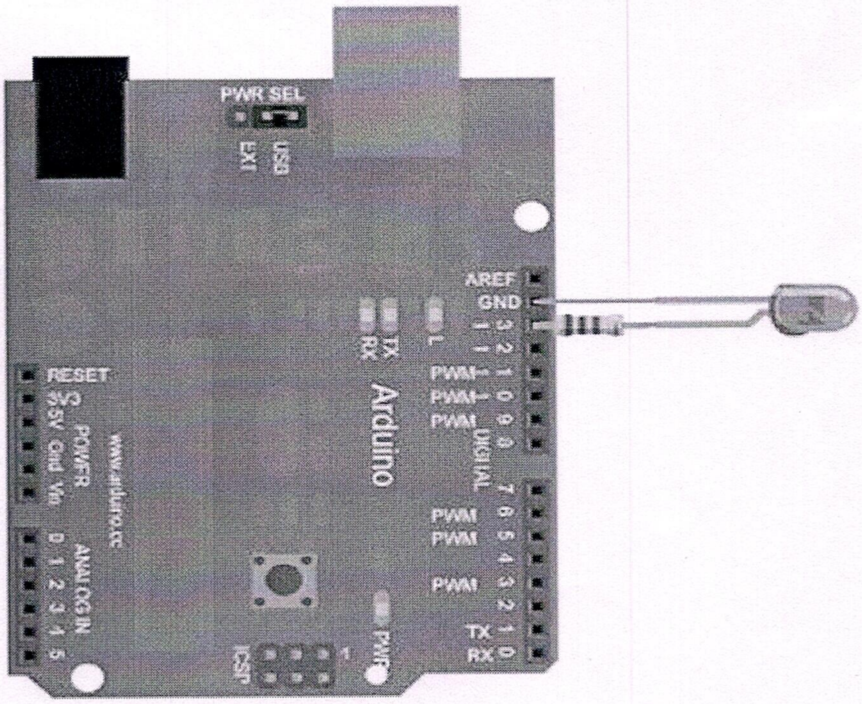
- Project Box
- Booklet
- LEDs (1 x RGB, 16 x Red, 2 x White, 2 x Green, 2 x Yellow)
- 40 Pin Header

- <u>555 Timer IC</u>
- Optocoupler 4N35 (2)
- Shift Resister 74HC595N (2)
- H-Bridge Motor Driver L293D
- Accelerometer ADXL335
- Rotary Encoder
- Push-Button (5)
- Resistors (8 x 220Ω, 4 x 1KΩ, 4 x 10KΩ, 1 x 1MΩ, 1 x 5.1MΩ)
- Switch
- Potentiometer 50KΩ
- LCD1602 Character Display
- Dot Matrix Display 8×8
- 7-Segment Character Display (2)
- DC Motor
- NPN Transistor S8050 (2)
- PNP Transistor S8550 (2)
- Capacitors (4 x 100nF, 4 x 10nF)
- Diode (4)
- Breadboard
- USB Cable
- Jumper Wire Male to Male (65)
- DuPont Wire Female to Male (20)
- Passive Buzzer
- Fan


EP Display
Expansion Header
IR LED
Light
Temp. Sensor
Power Switch
Joystick
Buzzer
Battery connector
Relay Outputs
Servo Outputs
USB Port
Debug LED
aconno ACN52832
LED2 & Switch 2 1
Charging LED
Potentiometer
J-Link
NFC Antenna Connector
Jumper Blocks
LED1 & Switch 1 1


Reset Switch
Digital Pins
USB Connector
TX RX LEDs
USB Interface Chip
Crystal Oscillator
Voltage Regulator
Microcontroller
Power Port
Analog Input Pins


sketch_apr17a | Arduino 1.8.2
File Edit Sketch Tools Help
sketch_apr17a
void setup() {
// put your setup code here, to run once:
}
void loop() {
// put your main code here, to run repeatedly:
}
Arduino/Genuino Uno on COM4


PWR SEL
EXT
USB
AREF
GND
TX
RX
L
Arduino
DIGITAL
RESET
3V3
5V
Gnd
Vin
POWER
ANALOG IN
www.arduino.cc
ICSP
PWR