



VEMU INSTITUTE OF TECHNOLOGY::P.KOTHAKOTA

NEAR PAKALA, CHITTOOR-517112

(Approved by AICTE, New Delhi & Affiliated to JNTUA, Anantapuramu)

Department of Computer Science and Engineering

FIVE DAYS FDP

ON

“RASPBERRY PI”

BY

Mr Dinesh Reddy,

Trainer,

UNO Careers,

Bangalore.

Date:

23-10-2017

To

27-10-2017

Targeted Audience: CSE Faculty

FIVE DAYS FDP

ON

" RASPBERRY PI "

23-10-2017 TO 27-10-2017

Coordinators

Mr. G Lokesh

Ms. V Pallavi

Mr. V Saravana Siva Kumar

HOD-CSE

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Professor and HOD

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Overview

Raspberry Pi 4 Model B is the latest product in the popular Raspberry Pi range of computers. It offers ground-breaking increases in processor speed, multimedia performance, memory, and connectivity compared to the prior-generation Raspberry Pi 3 Model B+, while retaining backwards compatibility and similar power consumption. For the end user, Raspberry Pi 4 Model B provides desktop performance comparable to entry-level x86 PC systems. RAM

SPECIFICATION

Processor : Broadcom BCM2711, quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz

Memory: 1GB, 2GB or 4GB LPDDR4 (depending on model)

Connectivity: 2.4 GHz and 5.0 GHz IEEE 802.11b/g/n/ac wireless LAN, Bluetooth 5.0, BLE Gigabit Ethernet 2 × USB 3.0 ports 2 × USB 2.0 ports

GPIO: Standard 40-pin GPIO header (fully backwards-compatible with previous boards)

Video & sound: 2 × micro HDMI ports (up to 4Kp60 supported) 2-lane MIPI DSI display port 2-lane MIPI CSI camera port 4-pole stereo audio and composite video port

Raspberry Pi Foundation

A listing institutional charity (registration number 1129409) located in the UK is the Raspberry Pi Foundation. The target of the Foundation is to emphasis on the area.

The Foundation of Raspberry Pi is an aid based in the United Kingdom that targets to get the authority of computing and a digital development into the hands of the people in the world with the implement..



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OF TECHNOLOGY**

P. KOTHAKOTA POST, NEAR PAKALA, CHITTOOR, AP 517112

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CONTACT US

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Chittoor, AP - 517112.

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Raspberry Pi 3

Model B+



Multimedia: H.265 (4Kp60 decode);
H.264 (1080p60 decode, 1080p30
encode);OpenGL ES, 3.0 graphics
SD card support: Micro SD card slot
for loading operating system
and data storage

Input power: 5V DC via USB-C
connector (minimum 3A1)

5V DC via GPIO header (minimum
3A1)

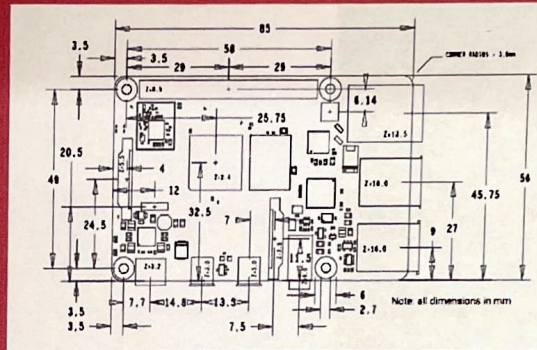
Power over Ethernet (PoE)-enabled
(requires separate PoE HAT)

Environment:Operating temperature
0-50°C

Compliance: For a full list of local
and regional product approvals,
please

Production lifetime:The Raspberry Pi
4 Model B will remain in production
until at least January 2026.

PHYSICAL SPECIFICATIONS



WARNINGS

- This product should only be connected to an external power supply rated at 5V/3A DC or 5.1V/ 3A DC minimum1
 - Any external power supply used with the Raspberry Pi 4 Model B shall comply with relevant regulations and standards applicable in the country of intended use.
 - This product should be operated in a well-ventilated environment and, if used inside a case, the case should not be covered.
- This product should be placed on a stable, flat, non-conductive surface items

• All peripherals used with this product should comply with relevant standards for the country of use and be marked accordingly to ensure that safety and performance requirements are met. These articles include but are not limited to keyboards

SAFETY INSTRUCTIONS

To avoid malfunction or damage to this product please observe the following:

- Do not expose to water, moisture or place on a conductive surface whilst in operation.
- Do not expose it to heat from any source; Raspberry Pi 4 Model B is designed for reliable operation at normal ambient room temperatures.
- Take care whilst handling to avoid mechanical or electrical damage to the printed circuit board and connectors.
- Avoid handling the printed circuit board whilst it is powered and only handle by the edges to minimise the risk of electrostatic discharge damage.



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Department of Computer Science and Engineering

VEMU INSTITUTE OF TECHNOLOGY
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Faculty Development Program
on

RASPBERRY PI

Date : 23-10-2017 to 27-10-2017

Resource Person
Mr. Dinesh Reddy,
Trainer, Uno Careers, Bangalore.

HOD
HEAD
DEPARTMENT OF CSE
VEMU INSTITUTE OF TECHNOLOG
P. KOTHAKOTA - 517 112



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Department of Computer and Science Engineering

FDP SCHEDULE

Title: FDP on “**RASPBERRY PI**”

Date: 23-10-2017 to 27-10-2017

Resource Person: Mr.Dinesh Reddy, Trainer, Uno Careers, Bangalore.

Target Audience: CSE Staff

Venue: CSE Seminar Hall.

| | | Session 1 | | Session 2 | | |
|------------|---|------------------|---|---|------------------|---|
| Timings | 9:30 to 10:45 (Topic) | | 11:00 to 12:30 (Topic) | 1:30 to 2:45 (Topic) | | 3:00 to 4:30 (Topic) |
| 23-10-2017 | Inauguration | TEA BREAK | *Introduction to RASPBERRY PI | * What is the Raspberry PI | TEA BREAK | * What is the Raspberry PI |
| 24-10-2017 | *Importance of RASPBERRY PI | | *Importance of RASPBERRY PI | *How it can be used to develop an application | | *How it can be used to develop an application |
| 25-10-2017 | *Major applications that are in RASPBERRY PI | | *About major applications that are in RASPBERRY PI and key role that played by it | *About major applications that are in RASPBERRY PI and key role that played by it | | *Discuss live time examples |
| 26-10-2017 | *Advantages and disadvantages of RASPBERRY PI | | *Advantages and disadvantages of RASPBERRY PI | * Can you plug a Raspberry Pi into a laptop | | * Can you install Android on Raspberry Pi |
| 27-10-2017 | * What OS can run on Raspberry Pi | | * Can you use C++ on Raspberry Pi | End with vote of thanks | | End with vote of thanks |


INCHARGE


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DEPARTMENT OF CSE
VEMU INSTITUTE OF TECHNOLOGY
P. KOTHAKOTA - 517112
HOD



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Department of Computer and Science Engineering

FDP Attendance

Title: FDP on "RASPBERRY PI"

Resource Person: Mr.Dinesh Reddy, Trainer, Uno Careers, Bangalore

Date: 23-10-2017 to 27-10-2017

| S.No | Name of the Staff | Signature | | | | |
|------|---------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | 23-10-2017 | 24-10-2017 | 25-10-2017 | 26-10-2017 | 27-10-2017 |
| 1 | Jalaja kumari.B | Jal ku. | Jal ku. | Jal ku. | Jal ku. | Jal ku. |
| 2 | Teja Sre.S | Teja Sre | Teja Sre | Teja Sre | Teja Sre | Teja Sre |
| 3 | P.Ramesh | P.R. | P.R. | P.R. | P.R. | P.R. |
| 4 | P.N.Praveen Kumar | P.N. | P.N. | P.N. | P.N. | P.N. |
| 5 | T.kumar raja | T.kuRaj. | T.kuRaj. | T.kuRaj. | T.kuRaj. | T.kuRaj. |
| 6 | E.Sai Divya | Sai Divya | Sai Divya | Sai Divya | Sai Divya | Sai Divya |
| 7 | S.Prathy | S.Pr. | S.Pr. | S.Pr. | S.Pr. | S.Pr. |
| 8 | K.Dhanamjay | K.D. | K.D. | K.D. | K.D. | K.D. |
| 9 | J.Chandra Babu | J.Ch. | J.Ch. | J.Ch. | J.Ch. | J.Ch. |
| 10 | G.Viswanath | G.V. | G.V. | G.V. | G.V. | G.V. |
| 11 | V.Gowtham Prakash | Gowtham P.h | Gowtham P.h | Gowtham P.h | Gowtham P.h | Gowtham P.h |
| 12 | R.Srilakshmi | Sreelak | Sreelak | Sreelak | Sreelak | Sreelak |
| 13 | D.R.Rajendra Prasad | Rajendra Prasad | Rajendra Prasad | Rajendra Prasad | Rajendra Prasad | Rajendra Prasad |
| 14 | S.R.Khudariya | Khudariya | Khudariya | Khudariya | Khudariya | Khudariya |
| 15 | P.Bhaw Prakash | Bhaw | Bhaw | Bhaw | Bhaw | Bhaw |

HOD

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P.KOTHAKOTA - 517 112



VEMU INSTITUTE OF TECHNOLOGY
P.KOTHAKOTA, Near Pakala, CHITTOOR (Dt.)
DEPT. OF COMPUTER SCIENCE AND ENGINEERING

A REPORT ON
FDP
On
“RASPERRY PI”

Date: 23-10-2017 to 27-10-2017

Target Audience: Faculty Members of CSE

Name of Resource Person: Mr.Dinesh Reddy,Trainer, Uno Careers, Bangalore

The Department of Computer Science and Engineering of Vemu Institute of Technology has organized a five days FDP on “RASPERRY PI” from 23-27 October in CSE seminar Hall. The FDP is aimed to create awareness about the RASPERRY PI.

INAUGURAL SESSION:

Mr.B.Rama Ganesh, HOD of CSE welcomed and inaugurated the workshop at 10.30 am. Mr.Dinesh Reddy started his session after stating the objectives and significance of the programme.

TECHNICAL SESSIONS:

1st Day (23-10-2017):

The Day started with introduction about RASPERRY PI. In this Day, the two sessions are completely interesting, which make the participant much more anxious to next day.

2nd Day (24-10-2017):

On this Day, the session started with knowing the Importance of RASPERRY PI and how it can be used to develop an application.

3rd Day (25-10-2017):

On this day we learn about Major applications that are in RASPERRY PI and key role that played by it

4th Day (26-10-2017):

On this day we learn about Advantages and disadvantages of RASPERRY PI. And can you plug a Raspberry Pi into a laptop.

5th Day (27-10-2017):

Finally at the end of the session What OS can run on Raspberry Pi and FDP we may come to know that RASPERRY PI become trending one and may be come number one technology in upcoming years both software and hardware side.

VALEDICTORY SESSION:

The program was ended with vote of thanks by Mr.B.Rama Ganesh, HOD of CSE. The FDP was ended with a feedback session by the members. In that they have expressed their interest and willingness in arranging more programmes of this kind.

OUTCOME:

All the sessions were much informative. The discussed areas are of great benefit for the participants as the topics match with the current working domain. Participants were enlightened with the most widely used advance technologies in this domain. This in turn will help in research activity and placement opportunity.



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Department of Computer Science and Engineering

Photos




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P.KOTHAKOTA, NEAR PAKALA, CHITTOOR, AP - 517112.

Certificate of Participation

This is to Certify that Dr./Mr./Mrs./Ms. _____

S. Neja Sree

from Department of Computer Science and Engineering, has participated in Five days Faculty Development Program on "RASPBERRY PI" conducted from 23-10-2017 to 27-10-2017, organized by Department of CSE, VEMU IT, P.Kothakota.

[Signature]
HOD, CSE

[Signature]
Principal

PRINCIPAL

Vemu Institute of Technology
P. KOTHAKOTA - 517 112