



PRABODHAN SHIKSHAN PRASARAK SANSTHA'S (Regd.No. E-697 Ratnagiri)
RAJENDRA MANE COLLEGE OF ENGINEERING AND TECHNOLOGY
Approved by AICTE, Recognised by D.T.E & Affiliated to University of Mumbai
Accredited by NAAC with 'B+' Grade
Office : At & Po – Ambav (Devrukh) Tal – Sangmeshwar, Dist – Ratnagiri, Pin – 415804 (Maharashtra)
Email : info@rmcet.com • Website : www.rmcet.com

SUMMARY SHEET

WORKSHOP DETAILS

Academic Year:2019-20

Workshop Name: “IOT using Arduino Raspberry PI & its
Real time Application”

Duration: 3Days

Dates: From 3rd to 5th January 2019,

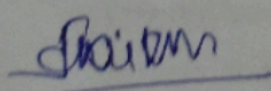
Coordinator: Mr. P. D. Waikar (Assistant Professor, Department of
EXTC Engineering RMCET)

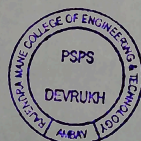
Resource Persons: Mr. Rahul Gupta, Mr. Tejas Kasare

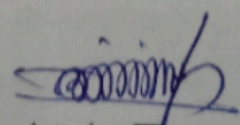
(The Intellect Technologies, Mumbai)

Numbers of Students Attended: 22 students of BE EXTC

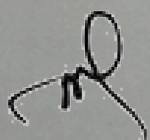
Documents attached: 1. Report
2.Attendance Sheets


Mr. P. D. Waikar
Workshop Coordinator




Mr. A. A. Tatugade
HOD , EXTC

G. B.
ELECTRONICS & TELECOMM. ENGG.
Rajendra Mane College of
Engineering & Technology
Ambav, Tal. Sangmeshwar,
Dist. Ratnagiri, Pin-415 804.
Ratnagiri


Principal



PRABODHAN SHIKSHAN PRASARAK SANSTHA'S (Regd.No. E-697 Ratnagiri)
RAJENDRA MANE COLLEGE OF ENGINEERING AND TECHNOLOGY

Recognised by AICTE, Affiliated to Mumbai University

Office : At & Po - Ambav (Devrukh)- 415804 Tal: Sangmeshwar, Dist: Ratnagiri, (Maharashtra)

☎ : (02354) 260992 • Fax: (02354) 261501 • Email : info@rmcet.com • Website : www.rmcet.com

Department of Electronics and Telecommunication Engineering

Academic Year 2019-20

A Summary Report of STTP on
"IOT using Arduino Raspberry PI & its real time Application"
Academic Year 2019-20

Resource person: Mr. Rahul Gupta, Mr. Tejas Kasare

(The Intellect Technologies, Mumbai)

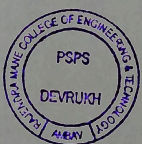
Coordinator: Mr. P. D. Waikar (Assistant Professor, RMCET)

Objective: To enhance the Technical skills of BE students to develop final year project

About workshop:

The Short Term training program on the introduction to Arduino, its interfacing with peripherals, the introduction to raspberry, installation of its OS, coding for Arduino IDE & python with Internet of Things (IoT) conducted by The Intellect Technologies, Mumbai to involve students in a cohesive drive with the academia and industry towards excellence in Internet of Things (IoT) technology. This workshop is an attempt to cover material relevant to giving students necessary knowledge and skill set to appreciate the rapid changing scenario in Internet of Things (IoT) and take advantage of this in furthering their career. Practical/laboratory sessions are held, which will supplement the knowledge disseminated during the lecture sessions with adequate hands on experience.

Workshop was conducted in three phases 1st phase included Arduino its Interfacing with various devices, IOT platform for Arduino. The phase two included projects work related to raspberry pi. Its OS installation, python coding & interfacing with various devices & MIT app Inventor focused on the practical application of technologies through the facilitation of a project- related lab. More than 80% time was utilized for





PRABODHAN SHIKSHAN PRASARAK SANSTHA'S (Regd.No. E-697 Ratnagiri)
RAJENDRA MANE COLLEGE OF ENGINEERING AND TECHNOLOGY

Recognised by AICTE, Affiliated to Mumbai University

Office : At & Po – Ambav (Devrukh)- 415804 Tal: Sangmeshwar, Dist: Ratnagiri, (Maharashtra)

☎ : (02354) 260992 • Fax: (02354) 261501 • Email : info@rmcet.com • Website : www.rmcet.com

Department of Electronics and Telecommunication Engineering

laboratory session. The third phase actually included trouble shooting & actual fault finding & rectification & correction in various projects hardware & software.

Duration:

It was an extensive workshop on Python & Raspberry with IOT from 3rd to 5th January 2020, During this schedule students gained valuable hands-on experience.

Numbers of beneficiary

Totally 22 students of final year EXTC had attended this workshop.

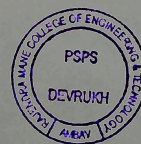
Software Tools: 1] Arduino IDE

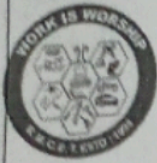
2] python Coding

3] Camera Interfacing with Raspberry Pi

Course content:

- ❖ **Arduino Uno, Wi-Fi module, Raspberry, python coding, camera Interfacing**
- Introduction to Arduino
- Its interfacing with peripheral devices
- Introduction to IOT
- Current Business Trends in IOT
- IOT Application architecture
- Introduction to ESP 8266
- ESP Module Types and Features
- Introduction to node MCU
- Programming to ESP 8266 In Arduino
- How to connect to WIFI in ESP 8266
- How to install raspberry OS
- Programming in Python
- Camera Interfacing with Raspberry Pi
- Interfacing
- Home application using IOT





PRABODHAN SHIKSHAN PRASARAK SANSTHA'S (Regd.No. E-697 Ratnagiri)
RAJENDRA MANE COLLEGE OF ENGINEERING AND TECHNOLOGY

Recognised by AICTE, Affiliated to Mumbai University

Office : At & Po – Ambav (Devrukh)- 415804 Tal: Sangmeshwar, Dist: Ratnagiri, (Maharashtra)

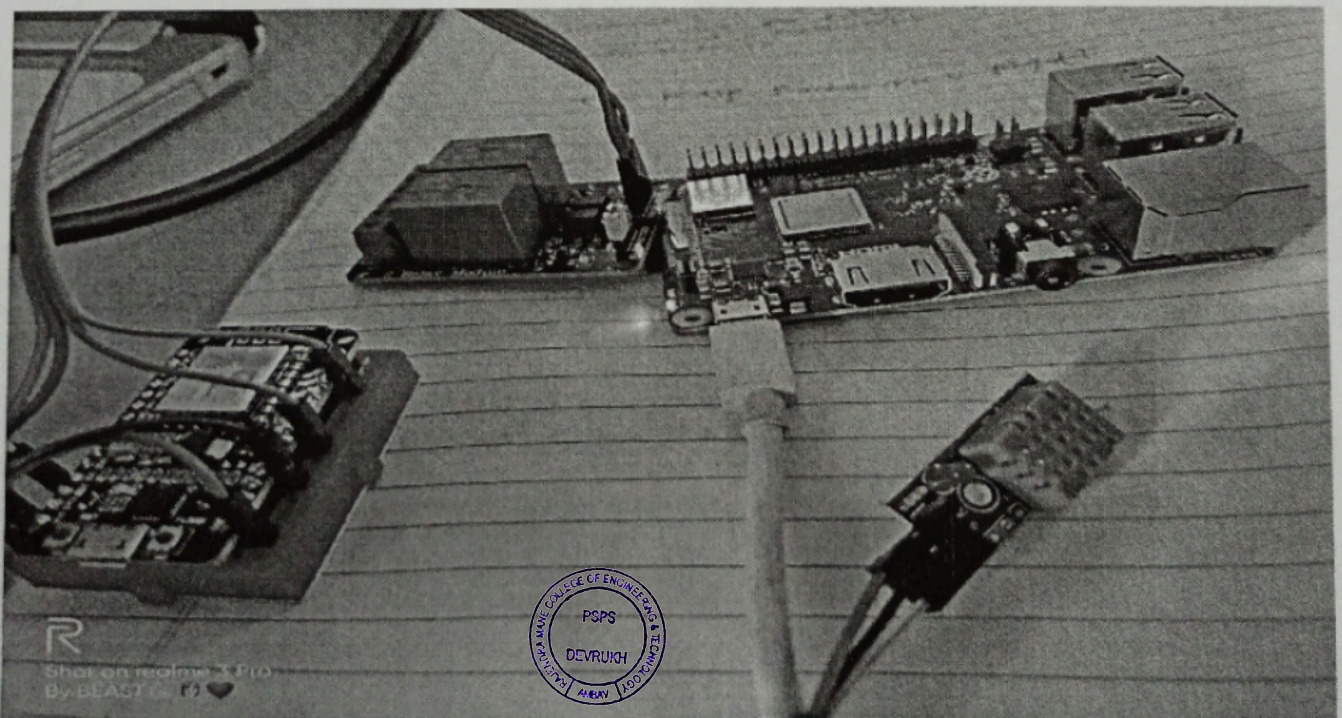
☎ : (02354) 260992 • Fax: (02354) 261501 • Email : info@rmcet.com • Website : www.rmcet.com

Department of Electronics and Telecommunication Engineering

Inaugural Function in presence of resource persons Mr. Rahul Gupta, Mr. Tejas Kasare with Respected Principal Sir Dr. M.M. Bhagwat, &HOD of EXTC Department Mr. A. A. Tatugade &Program Coordinator Mr. P.D. Waikar



Session Conducted by Expert Students attending the session



R
Shot on realme C10
By BEAST 19





RAJENDRA MANE COLLEGE OF ENGINEERING AND TECHNOLOGY
 Approved by AICTE, Recognised by D.T.E & Affiliated to University of Mumbai (Accredited by NAAC with 'B+' Grade)
 Department of Electronics & Telecommunication Engineering
 STTP on "IOT using Arduino Raspberry Pi & its real time Application"

Workshop Coordinator: Mr. Waikar P.D. Class BE EXTC

Resource Persons : Mr. Rahul Gupta, Mr. Tejas Kasare (The Intellect Technologies)

Sr. No	Students Name	03-01-2020				04-01-2020				05-01-2020		
		Session I	Session II	Session III	Session IV	Session V	Session VI	Session VII	Session VIII	Session IX		
1	AMBERKAR CHINMAY C	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
2	APISHTE ANKITA R	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
3	BHOSALE SIDDHESH P	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
4	PANDIT GURUPRASAD V	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
5	MAHADIK PRATIK P	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
6	RAWOOL OMKAR S	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
7	WADKAR AJINKYA T	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
8	GHAG ONKAR J	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
9	DANI AMEY D	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
10	PARKAR NILESH S	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
11	PAWAR OMKAR S	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
12	WAJE SAMRUDHI S	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
13	JADHAV JAYESH J	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
14	KHOL YE PRASHANT P	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
15	LOGADE SHUBHAM S	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
16	SHIRKE SAURABH J	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
17	KADAM MANTHAN S	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
18	NALWADE PARIMAL B	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
19	TAMHANKAR AKSHAY S	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
20	JADHAV DIXITA S	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
21	CHAVHAN KUNAL S	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
22	JADHAV ANIRUDDHA B	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present

Project Coordinator
 Mr. P.D. Waikar

H. O. D.
 HOD, EXTC
 Mr. A.A. Taturade

HOD, EXTC

HOD, EXTC



IELECTRONICS & TELECOMMU. ENGG.)
 Engineering & Technology
 Rajendra Mane College of Mr. A.A. Taturade

Address: Devrukh, Tal. Sangmeshwar,
 Dist. Solapur, Pin-415 804.
 Email: rajendramane@rediffmail.com