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A REPORT ON FIVE - DAYS NATIONAL WORKSHOP

- ☐ **TITLE AND DURATION**: "Hands-on Session on Interfacing of Digital and Analog I/O Devices with Node MCU, Controlling Devices Using Mobile Application "from 18 January to 23 January 2021.
- ☐ **SPONSORS & SUPPORTERS:** TEQIP-III, Rajasthan Technical University Kota.
- □ **ORGANIZERS:** Rajasthan Technical University, Kota, and Department of Electronics & Communication Engineering, Poornima College of Engineering, Jaipur.

☐ FLYER / POSTER:



ABOUT TEQIP-III

The Project, third phase of Technical Education Quality Improvement Programme (referred to as TEQIP-III) is fully integrated with the Twelfth Five-year Plan objectives for Technical Education as a key component for improving the quality of Engineering Education in existing institutions with a special consideration for Low Income States and Special Category States and support to strengthen few affiliated technical universities to improve their policy, academic and management practices.

RAJASTHAN TECHNICAL UNIVERSITY

Rajasthan Technical University (RTU) is located in Kota in the state of Rajasthan. It was established in 2006 by the Government of Rajasthan. The University currently affiliates about 129 Engineering Colleges, 4 B.Arch., 41 MCA Colleges, 95 MBA Colleges, 44 M.Tech. Colleges and 3 Hotel Management and Catering Institutes. The University aims to provide quality technical education which may help Rajasthan in its technical development and will boost technical environment in the

POORNIMA COLLEGE OF ENGINEERING

Poomima College of Engineering (PCE), established as a brand of technical education in the year 2000, has its own glorious legacy of leading the young engineers to the mammoth sky of success. Its accomplishments forecast its journey through the hardships and its triumph over them one after another. PCE left no stone unturned since its establishment in turning the glorious vision into unbelievable reality providing the platform for knowledge and research and their practical implementations in different engineering professional prospects. Glorious glimpses of PCE:

- · Highly recognized and renowned affiliated technical institution all over Rajasthan with built up area more than 3.5 lacs square feet
- · Affiliated to RTU, Kota & approved by AICTE, New Delhi
- The most preferred NBA Accredited Engineering College with running of six specializations of Engineering at UG Level (CSE, ECE, EE, ME, IT, CIV) and two at PG level (CS & VLSI)
- The only institution permitted by RTU to admit FN/PIO/Gulf students & designated as centre of excellence by IBM

DEPT. OF ELECTRONICS & COMM. ENGINEERING

The Department of Electronics and Communication Engineering (ECE) was established in year 2003. National Board of Accreditation (NBA) accredited the ECE department in the year 2009 & 2016 for subsequent three years. It has intake capacity of 180. It also offers M. tech in VLSI Design with intake capacity of 18 students. The department has highly qualified committed and research oriented faculty members. The department has laboratories as per Rajasthan Technical University

Syllabus with State-of-the-Art facilities in diversified fields such as Electronic Circuits, VLSI Design, DSP (Digital signal processing), Embedded Systems, Advanced Wireless Communication and Microwave etc. Research is being carried out in the areas of Antenna Design and Wireless Communication, and VLSI design. The department also has to his credit three labs, (i) Microwave Engineering lab & (ii) Advance Antenna & Wireless Communication lab (iii) Advar Wireless and Optical Fiber Lab supported by MODROBS Grants of AICTE. New Delhi.

IETE Student Forum (IFS) of the Department has been recognized as Most Active ISF for session 2016-17 by IETE Rajasthan Center, Jaipur. The department also has state of the art lab facility for the value added IBM Career Education Programs for faculty members and students on emerging technologies such as IBM BlueMix for Cloud, IBM Cognos for s Intelligence and IoT Application Develo using IBM BlueMix.

COURSE CONTENTS

Internet of Things (IoT) is presently a hot technology worldwide. Government, academia, and industry are involved in different aspects of research, implementation, and business with IoT. IoT cuts across different application domain verticals ranging from civilian to defence sectors. These domains include agriculture, space, healthcare, manufacturing construction water and mining which are presently transitioning their legacy infrastructure to support IoT. Today it is possible to envision pervasive connectivity, storage, and computation, which, in turn, gives rise to building different IoT solutions. IoT based applications such as innovative shopping system, infrastructure management in both urban and rural areas, remote health monitoring and emergency notification systems, and transportation systems, are gradually relying on IoT based systems. Therefore, it is very important to learn the fundamentals of this emerging technology

TOPICS TO BE COVERED

- Introduction to IoT, NOMA
- · Analog and Digital Sensor Interfacing with ARM Cortex M4F
- Satellite IoT Connectivity for LoRa Technology
- IoT and it's Real Time Application
- · Wireless Sensor Nodes: Development and Deployment for Health and Environmental Monitoring Applications
- . Interfacing the ARM Cortex M4F Microcontroller with Cloud and Controlling the device using Mobile App

 • Working with NodeMCU and ESP32.

OBJECTIVES OF THE WORKSHOP

Internet of Things (IoT) is a new revolution of the Internet. It is a network of physical devices, vehicles, home appliances, and other items

embedded with electronics, software, sensors, actuators and network connectivity which are linked to create smart environments. It allows objects to be sensed and controlled remotely across existing network infrastructure. Also, it is creating opportunities for more direct integration of the physical world into computer-based systems, which results in improved efficiency and accuracy.

The objective is to impart working knowledge in Internet of Things to all our students and to train them at par with the requirement of the nation to become technocrats as well as entrepreneurs in IoT technology. Students are motivated to implement their innovative ideas into a prototype using embedded development boards and process the data collected from various sensors in the cloud for automation. Periodically, renowned experts from industry and academia will be invited to present on emerging trends in IoT.

WORKSHOP COMMITTEE

CHIEF PATRON

Prof. (Dr.) R. A. Gupta Hon'ble Vice Chancellor BTH Kota

PATRON

Prof. (Dr.) Dhirendra Mathur Dr. Mahesh M. Bundele

RTU EVENT COORDINATOR

Dr. Janki Ballabh Sharma Associate Professor, RTU, Kota

RTU (ATU) TEQIP-III Coordinator

Dr. M. L. Meena Assistant Professor, RTU, Kota

Principal & Director, PCE, Jaipur

RTU (ATU) TEQIP-III COMMITTEE

Dr. Harish Sharma Nodal officer Academic Prof. D. K. Sambariya Nodal Officer Procurement Dr. S. D. Purohit Nodal Officer Finance Mr. Santosh Sharma Expert Lecture Mr. Anshul Bansal GATE & Induction Mr. Dinesh Kumai

HOST INSTITUTE COORDINATOR

Dr Garima Mathur

Professor and Head, Dept. of Elect. and Comm. Engg., PCE, Jaipur

HOST INSTITUTE CO-COORDINATOR

Dr Anila Dhingra

Associate Professor, Dept. of Elect. and Comm. Engg., PCE, Jaipur

◆ LEARNING OUTCOMES / COURSE OUTCOMES:

- To program Arduino to control lights, motors, and other devices.
- To learn Arduino's architecture, including inputs and connectors for add-on devices.
- To add third-party components such as LCDs, accelerometers, gyroscopes, and GPS trackers to extend Arduino's functionality.
- To understand various options in programming languages, from C to dragand-drop languages.
- To test, debug, and deploy the Arduino to solve real world problems. To make the participants aware of Software Defined Networks, Network Function Virtualization concepts and their implementation aspects.

Dr. Mahesh Bundele B.E., M.E., Ph.D. Director oornima College of Engineering Stapura, JAIPUR

◆ MAPPINGS WITH PO AND PSO:

LO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
LO-1						3	2	2	3	3		1	2		3
LO-2						3	2	2	3	3		1	2		3
LO-3						3	2	2	3	3		1	2		3
LO-4						3	2	2	3	3		1	2		3
LO-5						3	2	2	3	3		1	2		3

INAUGRAL SESSION:



RAJASTHAN TECHNICAL UNIVERSITY, KOTA



Poornima College of Engineering TEQIP-III RTU (ATU) Sponsored

Workshop

on

Hands-on-Session on Interfacing of Digital and Analog I/O Devices with NodeMCU, Controlling Devices Using Mobile Application (January 18-22, 2021)

Date: January 18, 2021 Time: 9:30-10:05 AM

Venue: Online (https://meet.google.com/fzg-iuhc-ygt)

Q-Sheet- Inaugural Session

	Activity	Duration	Time
	Welcome of Dignitaries and Introduction of Workshop by Dr. Anila Dhingra (Associate Prof.), Coordinator, PCE • Prof. (Dr.) R.A. Gupta, Hon'ble Vice Chancellor, RTU Kota (Chief Guest) • Prof. (Dr.) Dhirendra Mathur, RTU (ATU) TEQIP- III Coordinator (Guest of Honour) • Dr. Vimal Bhatia, Professor, IIT, Indore (Guest of Honour) • Dr. Janki Ballabh Sharma, Associate Professor, RTU		
	Event Coordinator, RTU Kota Dr. M. L. Meena, Assistant Professor, RTU Event Coordinator, RTU Kota Ar. Rahul Singhi, Director, Poornima Group, Jaipur Dr. Mahesh Bundele, Director & Principal, Poornima College of Engineering, Jaipur Mr. Pankaj Dhemla, Vice-Principal, Poornima College of Engineering, Jaipur Dr. Garima Mathur, HOD, ECE, Poornima College of Engineering	05 Min	9:30 AM -9:35 AM
2.	Welcome Address by Dr. Mahesh Bundele, Director & Principal, Poornima College of Engineering, Jaipur	05 Min	9:35 AM -9:40 AM
3.	Address by Ar. Rahul Singhi, Director, Poornima Group, Jaipur	05 Min	9:40 AM -9:45 AM
4.	Introduction of Guest of Honour & Address by Guest of Honour Prof (Dr.) Dhirendra Mathur, RTU (ATU) TEQIP-III Coordinator Dr.Vimal Bhatia, Professor, IIT, Indore	05 Min	9:45 AM - 9:50AM
5.	Introduction of Chief Guest & Inaugural Address by the Chief Guest Prof. (Dr.) R.A. Gupta, Hon'ble Vice Chancellor, RTU Kota	10 Min	9:50 AM -10:00 AM
6.	Vote of Thanks by Dr. Garima Mathur, HOD, ECE, PCE	05 Min	10:00 AM - 10:05 AM

Poornima College of Engineering - Activity Report - 2020-21

CONTENTS:

Internet of things (IOT) is presently a hot technology worldwide. Government,

academia, and industry are involved in different aspects of research, implementation,

and business with IOT. IOT cuts across different application domain verticals ranging

from civilian to defense sectors. These domains include agriculture, space, healthcare,

manufacturing, construction, water, and mining, which are presently transitioning their

legacy infrastructure to support IOT. Today it is possible to envision pervasive

connectivity, storage, and computation, which, in turn, gives rise to building different

iot solutions. IOT based applications such as innovative shopping system,

infrastructure management in both urban and rural areas, remote health monitoring and

emergency notification systems, and transportation systems, are gradually relying on

IOT based systems. Therefore, it is very important to learn the fundamentals of this

emerging technology.

Introduction to IOT, NOMA

• Analog and digital sensor interfacing with arm cortex m4f microcontroller

Satellite IOT connectivity for LoRa technology

• IOT and it's real time application

• Wireless sensor nodes: development and deployment for health and

environmental monitoring applications

• Interfacing the arm cortex m4f microcontroller with cloud and controlling the

device using mobile app

• Working with nodeMCU and ESP32.

♦ ASSESSMENT TOOLS: NIL

Dr. Mahesh Bundele B.E., M.E., Ph.D. Director

◆ PROGRAM SCHEDULE:



TEQIP-III SPONSORED

5-Day Workshop

on

"Hands on Session on Interfacing of Digital and Analog I/O Devices with NodeMCU, Controlling Devices Using Mobile Application" (January 18-22, 2021)



Organized by: Rajasthan Technical University, Kota

R

Department of Electronics and Communication Engineering Poornima College of Engineering, Jaipur

PROGRAM SCHEDULE

	Monday - Day 1 - 18th January, 2021	
	Program Outline	
9	Inaugural Ceremony	
	Prof. (Dr.) R. A. Gupta, Hon'ble Vice Chancellor, RTU Kota (Chief Guest) Prof. (Dr.) Dhirendra Mathur, RTU (ATU) TEQIP-III Coordinator, (Guest of Honour) Dr.Vimal Bhatia, Professor, IIT, Indore (Guest of Honour)	
09:30 AM - 10:00 AM	Dr. Janki Ballabh Sharma, Associate Professor, RTU Event Coordinator Dr. M.L. Meena, Assistant Professor, RTU Event Coordinator	
nese anne	Ar. Rahul Singhi, Director, Poornima Group, Jaipur	
	Dr. Mahesh M. Bundele, Director-Principal, Poornima College of Engineering	
	Er. Pankaj Dhemla, Vice-Principal, Poornima College of Engineering, Jaipur	
	Dr. Garima Mathur, Workshop Coordinator - Host Institute	
	Dr. Anila Dhingra, Workshop Co-Coordinator - Host Institute	
10-00 434 11-20 434	Session-I	
10:00 AM - 11:30 AM	Topic: Introduction to IoT, NOMA Resource Person: Dr. Vimal Bhatia, Professor, IIT Indore	
11:45 AM - 01:45 PM	Session-II Topic: Connecting IoT Sensors to Android Device Without Writing Android Code Resource Person: Dr. Sumit Kalra, Assistant Professor, IIT Jodhpur	
02:00 PM - 04:00 PM	Session-III Topic: Analog and Digital Sensor Interfacing with ARM Cortex M4F	
	Tuesday - Day 2 - 19th January, 2021	
09:30 AM – 11:30 AM	Session-IV Topic: Interfacing for IOT enabled devices Resource Person: Dr. Rajender Kumar , Assistant Professor, Electronics and Communication Engineering, NIT Kurukshetra	
11:45 AM – 01:45 PM	Session-V Topic: Satellite IoT Connectivity for LoRa Technology Resource Person: Dr. M. Arun, Associate Professor, Vellore Institute of Technology (VIT), Vellore	
02:00 PM - 04:00 PM	Session-VI Topic: IoT and it's Real Time Application Resource Person: Kamlesh Ku. Samota, Scientist-B, NIELIT Govt. of India	

	Wednesday - Day 3 – 20 th January, 2021
09:30 AM - 11:30 AM	Session-VII Topic: Wireless Sensor Nodes: Development and Deployment for Health and Environmental Monitoring Applications Resource Person: Naman Garg, Assistant Professor, IET, Agra
11:45 AM - 01:45 PM	Session-VIII Topic: Challenges and Opportunities: On-chip Networks in Multiprocessor Environment Resource Person: Dr. Soumya J, Assistant Professor BITS-Pilani, Hyderabad Campus, India
02.00 PM - 04.00 PM	Session-IX Topic: Semiconductor Industry from Academic Perspectives: Key Trends, Drivers and Opportunities Resource Person: Dr. Jawar Singh, Associate Professor, IIT Patna
	Thursday - Day 4 – 21 st January, 2021
09.30 AM -11.30 AM	Session-X Topic: Is India Ready For Technological Change : Sensor Devices in Agriculture Resource person: Dr. Kusum Lata Jain, Assistant Professor, Manipal University, Jaipur
11.45 AM - 01.45 PM	Session-XI Topic: Working with NodeMCU and ESP32 Resource person: Dr. Satvir Singh, Associate Professor, IKG Punjab Technical University, Kapurthala
02.00 PM - 04.00 PM	Session-XII Topic: Interfacing the ARM Cortex M4F Microcontroller with Cloud and Controlling the device using Mobile App Resource Person: T Krishna Chaithanya, Application Engineer, EdGate Technologies Pvt Ltd. Bangalore.
	Friday - Day 5 – 22 nd January, 2021
09.30 AM -11.30 AM	Session-XIII Topic: Interfacing the ARM Cortex M4F Microcontroller with Cloud and Controlling the device using Mobile App Resource person: Dr. Bikas Chandra Sahana, Assistant Professor & HOD, NIT Patna.
11.45 AM - 01.45 PM	Session-XIV Topic: Analog and Digital Sensor Interfacing with Arduino Using Simulation Tool Resource person: Ajay Godara, Director, Enovation Lab LLP, Chandigarh
02.00 PM - 04.00 PM	Session-XV Topic: Role of Internet of Things for Smart Healthcare Resource person: Dr. Amit Mahesh Joshi, Assistant Professor, MNIT, Jaipur
04.00 PM - 04.30 PM	Discussion, Valedictory Ceremony and Feedback

◆ DETAILS OF RESOURCE PERSON(S):

Dr. Vimal Bhatia Professor, IIT Indore

Dr. Jawar Singh Associate Professor, IIT Patna

Dr. M. Arun Associate Professor (Sr.), VIT, India

Dr. Satvir Singh Associate Professor, IKG Punjab Technical University,

Kamlesh Ku. Samota Scientist-B, NIELIT, Govt. of India

Dr. Sumit Kalra Assistant Professor, IIT Jodhpur

Dr. Amit Mahesh Joshi Assistant Professor, MNIT, Jaipur

Dr. Rajender Kumar Assistant Professor, NIT Kurukshetra

Dr. Bikas Chandra Sahana Assistant Professor & HOD, NIT Patna

Dr. Soumya J Assistant Professor, BITS-Pilani, Hyderabad Campus, India

Dr. Kusum Lata Jain Assistant Professor, Manipal University, Jaipur

Ajay Godara Director, Enovation Lab LLP, Chandigarh

Naman Garg Assistant Professor, IET, Agra

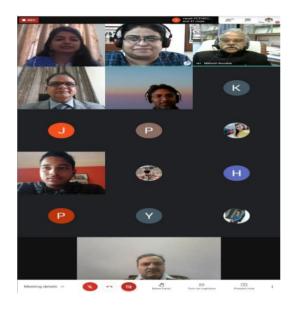
Javad Baig D Application Engineer, EdGate Technologies Pvt Ltd. Bangalore

T Krishna Chaithanya Application Engineer, EdGate Technologies Pvt. Ltd. Bangalore

♦ GLIMPSES OF CONTENT DELIVERY (THEORY / PRACTICAL SESSIONS):

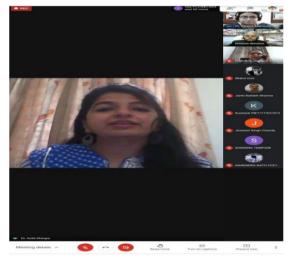
Rajasthan Technical University, Kota, and the Department of Electronics and Communication Engineering, Poornima College of Engineering, Jaipur jointly organized a 5-day Workshop on "Hands on session on Interfacing of Digital and analog I/O **Devices** with Nodemcu, Controlling Devices using mobile applications" under TEQIP-III from January 18-22, 2021. This workshop aims to impart working knowledge of the Internet of Things to all our students and to train them at par with th nation's requirement to become technocrats and as entrepreneurs in IoT technology. On 18th January Workshop was inaugurated by Prof. R.A. Gupta, Hon'ble Vice Chancellor, Rajasthan Technical University, Kota, Prof. Dhirendra Mathur, RTU (ATU) TEQIP-III Coordinator, Dr. Jaanki Ballabh Sharma, RTU Event Coordinator, and Architect. Rahul singhi, Director. Poornima Group and Dr. Mahesh M. Bundele, Director, Poornima College of Engineering, Dr. Garima Mathur, HOD, ECE and Dr. Anila Dhingra, Associate Professor. More than 120 students are attending this Workshop. Renowned experts from industry and academia are giving their knowledge on the upcoming topics like Analog and Digital Sensor Interfacing with ARM Cortex M4F Microcontroller, Satellite IoT Connectivity for LoRa Technology, and Interfacing for IOT enabled devices, Wireless Sensor Nodes etc.

◆ INAUGURAL SESSION:



Session I (9:30 am- 11:30 am)





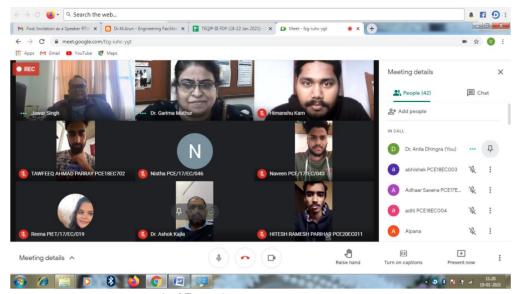
Session III (2:00 pm- 4:00 pm)



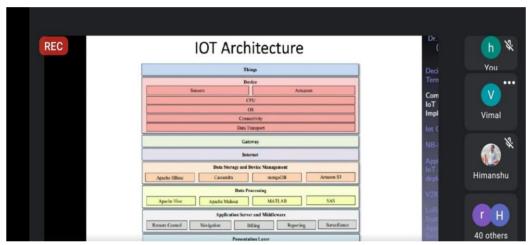
Session IV (9:30 am- 11:30 am)



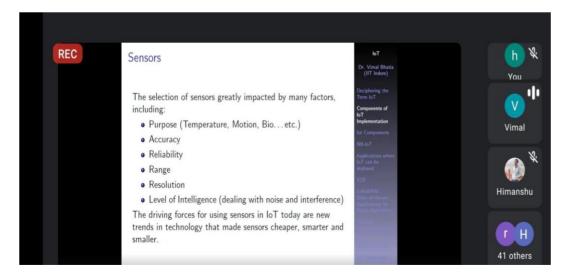




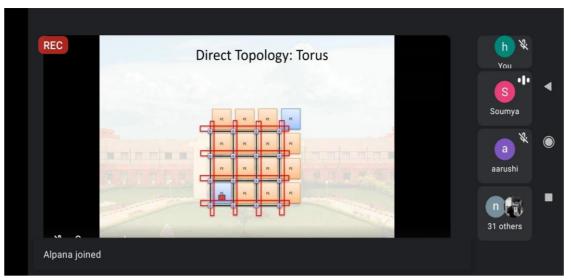
Session V (11:45 am- 1:45 pm)



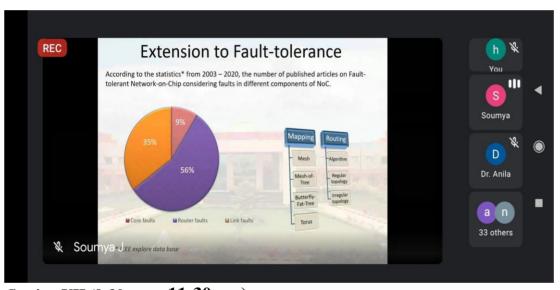
Session VI (2:00 pm- 4:00 pm)



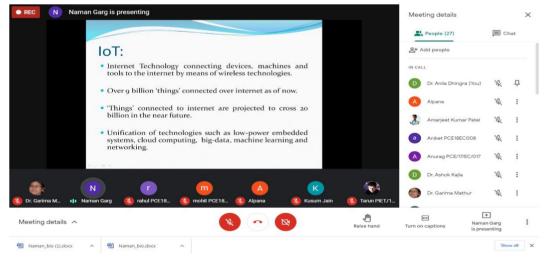
Session VI (2:00 pm- 4:00 pm)



Session VII (9:30 am- 11:30 am)



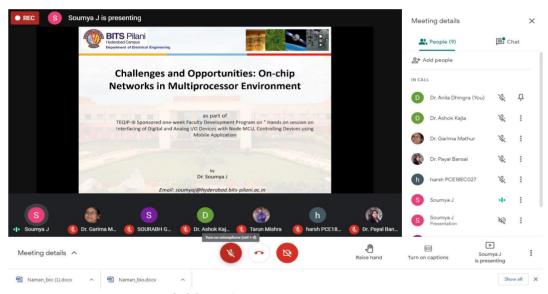
Session VII (9:30 am- 11:30 am)



Session VIII (11:45 am— 1:45 pm)



Session VIII (11:45 am— 1:45 pm)



Session IX (2:00 pm- 4:00 pm)



Session IX (2:00 pm- 4:00 pm)



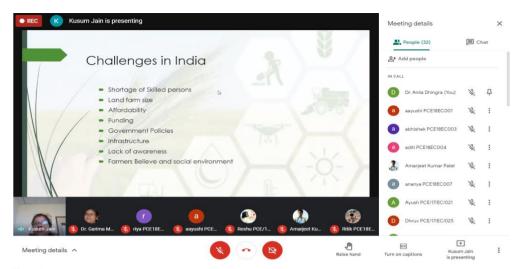
Session X (9:30 am- 11:30 am)



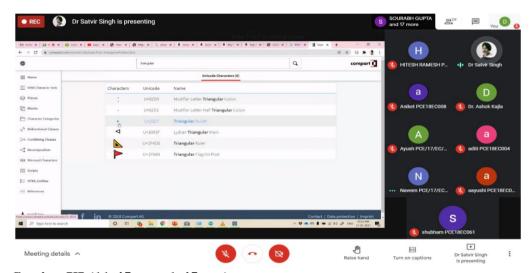
Session X (9:30 am- 11:30 am)



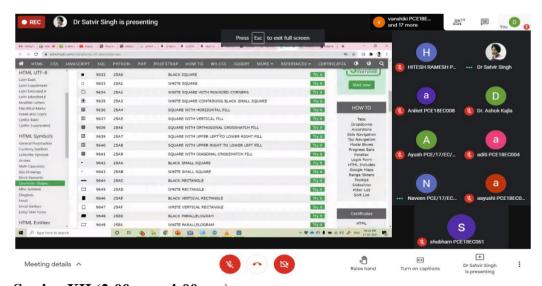
Session X (9:30 am- 11:30 am)



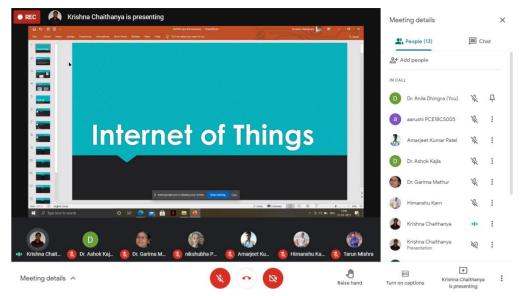
Session XI (11:45 am- 1:45 pm)



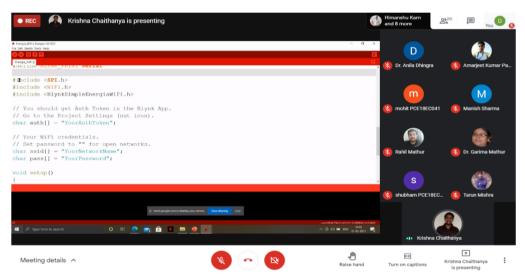
Session XI (11:45 am- 1:45 pm)



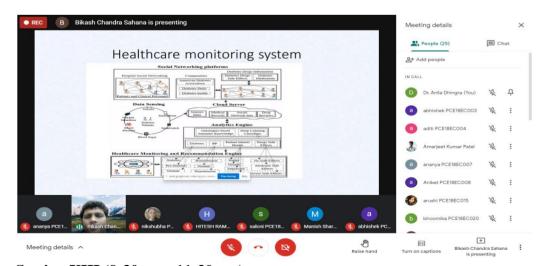
Session XII (2:00 pm- 4:00 pm)



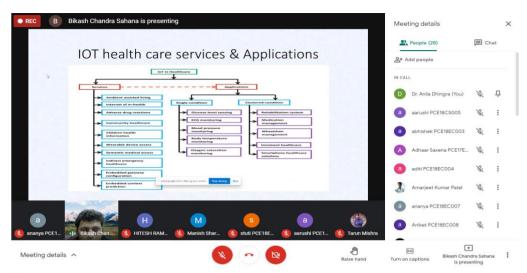
Session XII (2:00 pm- 4:00 pm)



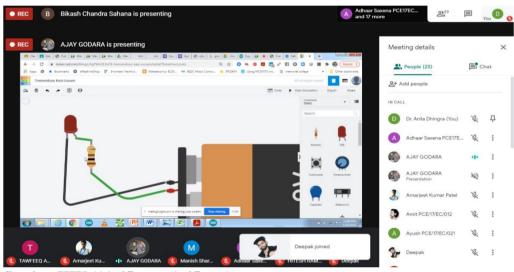
Session XIII (9:30 am- 11:30 am)



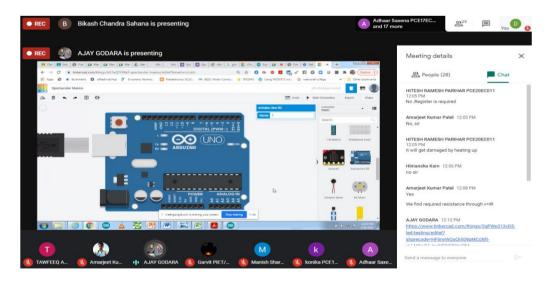
Session XIII (9:30 am- 11:30 am)



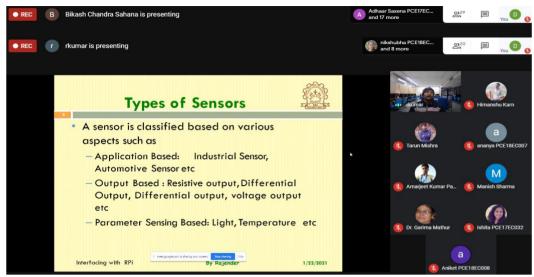
Session XIV (11:45 am- 1:45 pm)



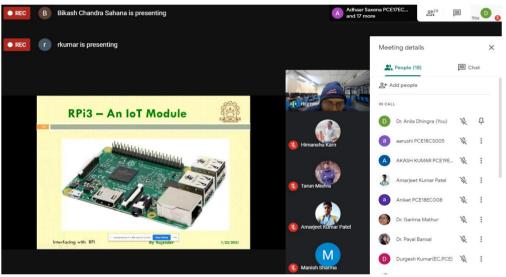
Session XIV (11:45 am- 1:45 pm)



Session XV (2:00 pm- 4:00 pm)



Session XV (2:00 pm- 4:00 pm)



Session XV (2:00 pm- 4:00 pm)

• VALEDICTORY SESSION:

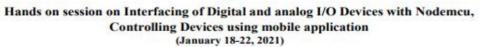


RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Poornima College ofEngineering TEQIP-III RTU (ATU)SPONSORED



on

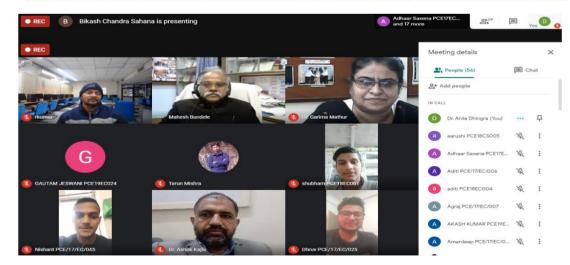


Date: January 22, 2021 Time: 4:00 PM

Venue: Online https://meet.google.com/fzg-iuhc-ygt

Q-Sheet- Valedictory Session

S. No	Activity	Duration	Time
l.	Welcome of Dignitaries by Dr. Anila Dhingra (Associate Prof.), PCE Dr. Rajender Kumar, Assistant Professor, NIT, Kurukshetra (Chief Guest) Dr. Janki Ballabh Sharma, Associate Professor, RTU Event Coordinator Dr. Mahesh Bundele, Director & Principal, Poornima College of Engineering, Jaipur Er. Pankaj Dhemla, Vice-Principal, Poornima College of Engineering, Jaipur Dr. Garima Mathur, HOD, ECE, Poornima College of Engineering	05 Min	04:00 PM-04:05 PM
2.	Feedback by Participants	05 Min	04:05 PM-04:10 PM
3.	Report on Workshop by Dr. Garima Mathur, HOD, ECE, PCE	05 Min	04:10 PM-04:15 PM
4.	Words of Wisdom by Dr. Mahesh Bundele , Director & Principal, Poornima College of Engineering, Jaipur	05 Min	04:15 PM-04:20 PM
5.	Address by Chief Guest Dr. Rajender Kumar , Assistant Professor, NIT Kurukshetra	05 Min	04:20 PM-04:25 PM
6.	Vote of Thanks by Dr. Anila Dhingra, Associate Prof., ECE, PCE	05 Min	04:25 PM-04:30 PM

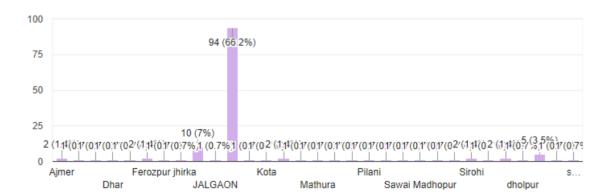


• LIST OF THE PARTICIPANTS:

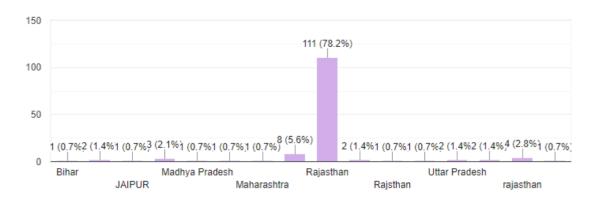
S. No.	Name	Email Id	Address
1	ANMOL PANWAR	2019pcemeanmol12@poornima.org	PCE
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5	SHREYANSH MEENA	2019pceceshreyansh44@poornima.org	PCE
6	RIYA BHARGAVA	2019pcecsriya141@poornima.org	PCE
7	TARUN JANGIR	2017pietectarun022@poornima.org	PIET
8	MANISH KUMAR	2017memanish5785@poornima.edu.in	PU
	SAINI		
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11	KRATIKA JANGID	2020pcecskratika111@poornima.org	PCE
12	SHIWANG GUPTA	shiwangtemp208@poornima.org	PCE
13	HARSH MALI	2020bcamaisharsh8471@poornima.edu.in	PU
14	RAHUL PUROHIT	2020pceitpurohit36@poornima.org	PCE
15	DHANISHA SHARMA	2018eedhanisha6671@poornima.edu.in	PU
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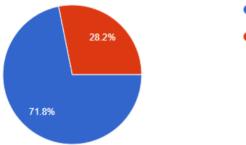
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♦ FEEDBACK ANALYSIS / ASSESSMENT:



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