

(An Autonomous Institute & Permanently Affiliated to University of Mumbai)

#### Department of Electronics and Telecommunication Engineering

#### **Brief Report of Event conducted by IETE-ETSA**

1. Name of the Activity/Event : PCB Design Workshop

2. Activity/Event Venues & Dates: 24th July, 2024, 3.30 - 5.30pm and

29th July 2024, 3.30 - 5.00pm

3. Nature of Participants : Students of SEM III, EXTC Dept.

4. Number of Participants : 24<sup>th</sup> July : 62, 29<sup>th</sup> July : 55

5. Student Coordinator : Mr. Sachin Malpe, Ms. Anushka Chauke

6. Staff Coordinator : Ms. Sneha Revankar, Ms. Akshata Raut

7. Recourse Person : Tabled in 9 (b)

8. Brochure: -



- 9. Brief Summary of the Activity/Event (in maximum 500 words):
  - a. Objectives
    - 1. To acquaint students with PCB design software and tools.
    - 2. To offer hands-on experience in both designing and producing PCBs.
    - 3. To improve students' problem-solving skills through practical design challenges.



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#### b. Technical Description

IETE-ETSA students' chapter organized a workshop for the EXTC students on 24<sup>th</sup> July 2024 and 29<sup>th</sup> July 2024.

#### 1. Introduction to PCB Design

- o Overview of PCB components and their roles.
- o Discussion of PCB design rules and best practices.

#### 2. Software Tools and Techniques

- Introduction to PCB design software Eagle.
- o Hands-on practice with software to create PCB layouts.

#### 3. **Practical Demonstration**

- o Design and simulation of a basic PCB circuit.
- Fabrication of the designed PCB using available resources.

#### 4. Review and Q&A

- Taking Students feedback.
- o Open forum for questions and clarifications.

IETE-ETSA students' chapter invited the resource persons as mentioned below.

Sr.	Name and Affiliation of Resource	Content
No.	Person	
	Mr. Aditya C. and Mr. Darshan Ahire	Introduction to PCB design software
1	BE Students, FCRIT	Eagle and Hands-on practice with
	Navi Mumbai	software to create PCB layouts
	Mr. Prashant M. and Mrs. Sreekala N.	Practical Demonstration of fabrication
2	Lab Assistants, FCRIT	steps to design PCB using available
	Navi Mumbai	resources.

The resource persons covered the PCB design software and practical demonstration of fabrication steps of aspects of circuit simulation on Eagle software. They emphasized on the importance of this software and its help in making of PCB for their course/mini projects.

#### c. Outcomes:

- **PO 5: Modern tool usage**: Speaker guided the students to create, select, and apply appropriate techniques, resources, and modern engineering and IT tools for modelling to complex engineering activities with an understanding of the limitations.
- **PO 9: Individual and teamwork**: Speaker demonstrate success in a Team-based project with smooth integration of contributions from all individual efforts.
- **PO 12: Life-long learning:** Speakers also demonstrate an ability to identify changing trends in engineering knowledge and practice.



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#### d. Attendance of Participants:

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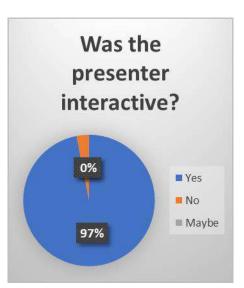
#### e. Feedback with Summary:

A random feedback on the session was collected and summarized below. Only 33 students given the feedback.

	Did the workshop meet your expectations?	Was the workshop well- organized?	Was the presenter interactive?
Yes	23	30	32
No	2	2	1
Maybe	8	1	0







	What is your overall assessment of the workshop?
Excellent	10
Very Good	13
Good	7
Satisfactory	3
Total	33



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I	Start time	Completi on time	Roll No.	Name	Did the works hop meet your expec tation s?	Was the works hop well- organ ized?	Was the presen ter interac tive?	What is your overal I assess ment of the works hop?	Any particu lar takeaw ays
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2	7/30/2024 16:27	7/30/2024 16:30	3022147	PONNAGA NTI PRANAVI NARASIM HARAO	Yes	Yes	Yes	Very Good	No
3	7/31/2024 19:24	7/31/2024 19:25	3023101	AISHWAR YA SHAJI	Yes	Yes	Yes	Excell ent	
4	7/31/2024 19:54	7/31/2024 19:55	3023103	BANSODE SAMRUDD HI SUDHIR	Mayb e	Yes	Yes	Very Good	Internsh ips
5	7/30/2024 18:23	7/30/2024 18:31	3023104	BELOSHE SOHAM NILESH	Yes	Yes	Yes	Excell ent	
6	7/30/2024 20:44	7/30/2024 20:45	3023109	BHUSARE PREET NILESH	Yes	Yes	Yes	Satisfa ctory	Got to know the process of pcb making in details
7	7/31/2024 8:38	7/31/2024 8:38	3023110	BORSE DHIRAJ YOGESH	Yes	Yes	Yes	Excell ent	Trainin g

f. **Action to be Taken based on Feedback:** Practice sessions and training will be organized by IETE-ETSA. This also helped students to select their academic projects.



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#### 10. Activity / Event Geo tagged Photograph:



PCB Design Workshop – Hands-on practice on Eagle software by Mr. Darshan A. & Mr. Aditya C.



PCB Design Workshop - Practical demonstration by Mr. Prashant M. & Mrs. Sreekala N.



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#### 11. Appreciation Letter

#### Fr. C. Rodrigues Institute of Technology Department of Electronics & Telecommunication Engineering



Website: www.fcrit.ac.in

## IETE-ETSA Students' Forum



July 29, 2024

To

Mrs. Sreekala Nair Lab Assistant, FCRIT, Vashi Navi Mumbai

Subject: Letter of Appreciation for conducting a demonstration during PCB design workshop

Dear Mrs. Sreekala N.,

We are thankful to you for the workshop on "PCB Design" to SE students of Electronics & Telecommunication Branch, organized by IETE-ETSA on 29/07/2024 at 3.30 PM as a part of PCB Design workshop. The demonstration was very informative and appreciated by both students and teachers. The insights provided by you will definitely help students in their further

We look forward to such interaction in the future too.

Thanking you,

with warm regards,

Yours truly,

Dr. Megha Kolhekar, Head EXTC Department

(Mrs. Sreha R). Signature and Name of Staff Coordinator

Signature of HOD



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### **Department of Electronics and Telecommunication Engineering**

#### **Brief Report of Event conducted by IETE-ETSA**

1. Name of the Activity/Event : Technical Talk :Micro-2024

2. Activity/Event Venue & Date : 3<sup>rd</sup> August 2024 11.00 to 2.30pm

3. Nature of Participants : Students of SEM III and VII of EXTC Dept.

4. Number of Participants : 68

5. Student Coordinator : Mr. Sachin Malpe, Ms. Anushka Chauke

6. Staff Coordinator : Dr. Prasad Kulkarni, Ms. Sneha Revankar,

Ms. Akshata Raut

7. Recourse Person : Tabled in 9b

8. Brochure: -



#### 9. Brief Summary of the Activity/Event (in maximum 500 words):

#### a. Objectives

- 1. To acquaint the students about the innovation and its importance for sustainability Industry.
- 2. To acquaint students about the current circuit simulation software in Industry.

#### b. Technical Description :

IETE-ETSA students' chapter organized a lecture series for the EXTC students on 3rd August 2024. Bandwidth – Dept. Magazine was published by Rev. Fr. Seby Rodrigues, Assistant Managing Director, ATEC, Vashi.

IETE-ETSA students' chapter invited the dignitaries form Industry as mentioned below.



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Sr.	Name and Affiliation of Resource	Content
No.	Person	
1	Mr. Prasad Jainapur,	Telecommunication
	General Manager,	– Present and
	Ribbon Communications,	Future
	Mumbai	
2	Mr. Jayant M.B	Workshop on
	Application Engineer,	Multisim
	Digi-Toad Technologies Pvt. Ltd.	
	Bangalore	

Mr Prasad Jainapur's talk highlighted with the following points:

- ✓ Inception of Telecommunication Industry
- ✓ Present scenario in Industry
- ✓ How growth of Communication is taking place in India.

Mr. Jayant M. B covered the design and application of aspects of circuit simulation on Multisim software. He emphasized on the importance of this software and its help in making of PCB for their course/mini projects. The session was hands-on using trial version of Multisim software provided by the speaker.

#### c. Outcomes:

- **PO 7: Environment and sustainability** & **PO 8: Ethics**: Speaker guided the students on innovation, sustainability, ethics and motivated them for innovation.
- **PO 12: Life-long learning:** Speakers also covered the current trends in the industry. They also briefed about the expected skill sets of core branch from the students. Finally asked students to find their needs and become a lifelong learner to achieve the requirement of professional career.



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#### d. Attendance of Participants:

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## BE Saminar (MICRO) 2024

Fr. C. Rodrigues Institute of Technology, Vashi, Nevi Mumba

#### Department of Electronics and Telecommunication Engineering

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	How do you rate the talk on "Code of conduct"	How do you rate the talk on "Present and Future of Telecommuni cations"	How do you rate the hands_on "Multisim"?	What is your overall assessment of the MICRO 2K24?
Excellent	34	39	29	32
Good	20	16	26	19
Average	2	1	0	5
Satisfactory	1	1	2	1
Total	57	57	57	57

#### Excellent



- How do you rate the talk on "Code of conduct"
- How do you rate the talk on "Present and Future of Telecommunications"
- How do you rate the hands\_on "Multisim"?



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#### a. Sample Feedback with Summary:

A random feedback on the session was collected and summarised below. Only 57 students given the feedback.

	Did the MICRO event meet your expectations?	Was the event well-organized?
Yes	55	57
No	2	0



ID	Start time	Completion time	Name2	Roll No	Was the session helpful to you ?	Was the subject matter presented very well ?	Did the speaker explain well and did you understand the technical concepts?	Did the speaker interact with the students and respond to questions satisfactorily?
1	8/5/24 18:49:08	8/5/24 18:49:40	Sarvesh Gade	33023116	Yes	Yes	Yes	Yes
2	8/6/24 17:00:24	8/6/24 17:00:48	Soham Beloshe	3023104	Yes	Yes	Yes	Yes
3	8/7/24 12:51:19	9-5-23 8/7/24 12:52:27	Vedant Thevare	3021148	Yes	Yes	Maybe	Yes
4	8/7/24 12:52:12	8/7/24 12:52:38	Sourav Patra	3023149	Yes	Yes	Yes	Yes
5	8/7/24 12:51:40	8/7/24 12:52:32	Jaiswal harsh	3023122	Yes	Yes	Yes	Yes



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**b. Action to be Taken based on Feedback:** Lecture-series of recent trends will be organised by IETE-ETSA to bridge the gap between industry and education. This also helped students to select their academic projects.

#### 10. Activity / Event Photograph:



Bandwidth – Dept. Magazine was published by Rev. Fr. Seby Rodrigues, Assistant Managing Director, ATEC Vashi . HOD Dr.Megha Kohlekar. , Dr. Milind Shah, Dean Academics, Dr . Pranali Chaudhari Asst. HOD, Mrs. Pratibha Dumane, DBIT and Mrs. Sneha Revankar



Mr. Prasad Jainapur addressing the students on Telecommunication



Mr. Jayant M.B conducting session on Multisim



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#### 11. Appreciation letter: Sample copy of appreciation letter given to Resource Person



#### Fr. C. Rodrigues Institute of Technology

#### Department of Electronics & Telecommunication Engineering







#### **IETE-ETSA Students' Forum**

1st August 2024

To

Mr. Prasad Jainapur, General Manager, **Ribbon Communications,** Mumbai

Subject: Letter of Invitation for delivering a session during Micro-2024

Dear Mr. Prasad Jainapur,

Greetings!

IETE/ETSA students' Association conduct Inspirational events every year. This year too IETE/ETSA is organizing a Technical Talk and workshop on 3<sup>rd</sup> August 2024. We would like to invite you on this event and address the budding technocrats.

The objective of this venture is to kindle and rejuvenate the instincts of creativity and innovation of the future technocrats.

Your session will be scheduled between 11.45 am to 12.45 pm on the

Target Audience: BE EXTC students (Around 70 students)

Thanking you,

With warm regards,

Yours truly

Dr. Megha Kolhekar, Head EXTC Department

(Mrs. Sreha R). Signature and Name of Staff Coordinator

Signature of HOD



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#### Department of Electronics and Telecommunication Engineering

#### **Brief Report of Event conducted by IETE-ETSA**

1. Name of the Activity/Event :Expert Talk on Code of Conduct

2. Activity/Event Venue & Date :3<sup>rd</sup>August 2024, 10.00 to 11am

3. Nature of Participants :Students of SEM III and VII of EXTC Dept.

4. Number of Participants :78

5. Student Coordinator :Mr. Sachin Malpe, Ms. Anushka Chauke

6. Staff Coordinator :Dr. Prasad Kulkarni, Ms. Sneha Revankar,

Ms. Akshata Raut

7. Recourse Person :Tabled in 9(b)

8. Brochure:-



#### 9. Brief Summary of the Activity/Event:

#### a. Objectives

To foster the culture by inspiring participants to contribute to a positive and ethical organizational culture by adhering to the principles outlined in the Code of Conduct.

#### b. Technical Description :

IETE-ETSA students' chapter organized an expert talk on Code of Conduct to EXTC students on 3rd August 2024 from 10am to 11am.

IETE-ETSA students' chapter invited the resource person from reputed college as mentioned below.



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Sr. No .	Name and Affiliation of Resource Person	Content
1	Ms. Pratibha Dumane	Code of Conduct
	Associate Professor,	
	Don Bosco Institute of Technology,	
	Mumbai	

Ms. Pratibha Dumane emphasized on the importance of Code of Conduct in our professional as well as personal life. The speaker also provided a clear understanding of what a Code of Conduct is, its purpose, and its importance in various settings (e.g., workplaces, schools, organizations). Outlined the specific behaviors and standards expected from individuals within an organization or community to promote a respectful and inclusive environment. Moreover, speaker also discussed the potential consequences of violating the Code of Conduct, both for individuals and the organization as a whole.

#### c. Outcomes:

**PO 8: Ethics**:Speaker guided the students by providing a framework for acceptable behavior, helping individuals understand what is considered ethical within an organization or community.

**PO 12: Life-long learning:** Speakers also covered as how it encourages individuals to reflect on their actions and learn from experiences, promoting personal and professional development. Finally engaging with ethical dilemmas and discussions enhances critical thinking, problem-solving, and communication skills.



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#### d. Attendance of Participants:



Agnel Charities' Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai

#### Department of Electronics and Telecommunication Engineering

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#### e. Sample Feedback with Summary:

A random feedback on the session was collected and summarized below. Only 57 students given the feedback.

	How do you rate the talk on "Code of conduct"	How do you rate the talk on "Present and Future of Telecommuni cations"	How do you rate the hands_on "Multisim"?	What is your overall assessment of the MICRO 2K24?
Excellent	34	39	29	32
Good	20	16	26	19
Average	2	1	0	5
Satisfactory	1	1	2	1
Total	57	57	57	57





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	Did the MICRO event meet your expectations?	Was the event well-organized?
Yes	55	57
No	2	0



ID	Start time	Completion time	Name2	RollNo	Was the session helpful to you ?	Was the subject matter presented very well ?	Did the speaker explain well and did you understand thetechnical concepts?	Did the speaker interactwiththe students and respond to questions satisfactorily?
1	8/5/24 18:49:08	8/5/24 18:49:40	Sarvesh Gade	33023116	Yes	Yes	Yes	Yes
2	8/6/24 17:00:24	8/6/24 17:00:48	Soham Beloshe	3023104	Yes	Yes	Yes	Yes
3	8/7/24 12:51:19	9-5-23 8/7/24 12:52:27	Vedant Thevare	3021148	Yes	Yes	Maybe	Yes
4	8/7/24 12:52:12	8/7/24 12:52:38	Sourav Patra	3023149	Yes	Yes	Yes	Yes
5	8/7/24 12:51:40	8/7/24 12:52:32	Jaiswal harsh	3023122	Yes	Yes	Yes	Yes



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10. Action to be taken based on Feedback: Lecture-series of recent trends will be organized by IETE-ETSA to bridge the gap between industry and education. This also helped students to select their academic projects.

#### 11. Activity/Event Photograph:



Mrs. Pratibha Dumane, DBIT addressing the students on Code of Conduct





Guest is felicitated with the bouquet of flowers

Token of Appreciation is given to Mrs.PratibhaDumane by our HOD



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**12. Appreciation letter:** Sample copy of appreciation letter given to Resource Person.



August 3, 2024

To

Mrs. Pratibha Dumane. Assistant Professor,

Don Bosco Institute of Technology,

Mumbai

Subject: Letter of Appreciation for delivering a session during Micro-2024

Dear Mrs. Pratibha Dumane.

We are thankful to you for the talk on "Code of Conduct" to students of Electronics & Telecommunication Branch, organized by IETE-ETSA on 03/08/2024 at 10.00 AM as a part of MICRO-2024. The talk was very informative and appreciated by both students and teachers. The insights provided by you will definitely help students in their further studies.

We look forward to such interaction in the future too.

Thanking you,

With warm regards,

Yours truly,

Dr. Megha Kolhekar,

Head EXTC Department

Signature & Name of Course Coordinator

Signature of HOD



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#### **Workshop Report**

#### Name of the Department: EXTC: IETE-ETSA

1. Name of the Activity : Technical Quiz

2. Activity Venue & Date : 17<sup>th</sup> August 2024, 2.00pm to 3.00pm
 3. Nature of Participants : Students of SEM V of EXTC Dept.

4. Number of Participants : 51 students

5. Student Coordinator : Sachin Malpe, Anushka Chauke

6. Staff Coordinator : Dr. Prasad Kulkarni, Ms. Sneha Revankar, Ms. Akshata R.

7. Resourse Person : ---

8. Brochure:

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- 9. Brief Summary of the Activity/Event:
- **a.** Objectives: To evaluate in terms of knowledge, **Skill Enhancement**, Team Building, Identifying Talent, feedback and improvement and competitive spirit amongst the participants.

#### b. Technical Description:

IETE- ETSA student chapter organised a hand-on session on IoT.

The following topics were included in the session with hands-on session.

- Introduction to IoT-definition, significance and the key components: sensors, connectivity, cloud, applications. Types of sensors (temperature, humidity, etc.)
- IoT Architecture-Layered architecture: perception, network, application
- Communication protocols (MQTT, HTTP, CoAP). Sensor and Actuator Integration.
- Connecting sensors to microcontrollers

To evaluate this, a technical quiz was conducted and following questions were framed related to the above session. A few samples questions are written below:

•	The maximum value of power supply for ESP6266 is
•	In ESP6266 the analog pins are
•	Which API key is used to download the data?
•	The parameter required for pin declaration is and



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#### c. Outcomes

PO5: Modern tools used, PO4: Investigate the complex problem solving skills, PO8: Ethics and P10: Communication skills: Participants demonstrate improved understanding of technical concepts and terminology. Participants apply critical thinking and problem-solving skills to tackle quiz questions. Successfully answering questions can increase participants' confidence in their technical abilities.

**PO12: Lifelong learning:** Participants become better prepared for real-world technical challenges through practical application of knowledge.

#### d. Attendance:

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## Fr. C. Rodrigues Institute of Technology, Vashi

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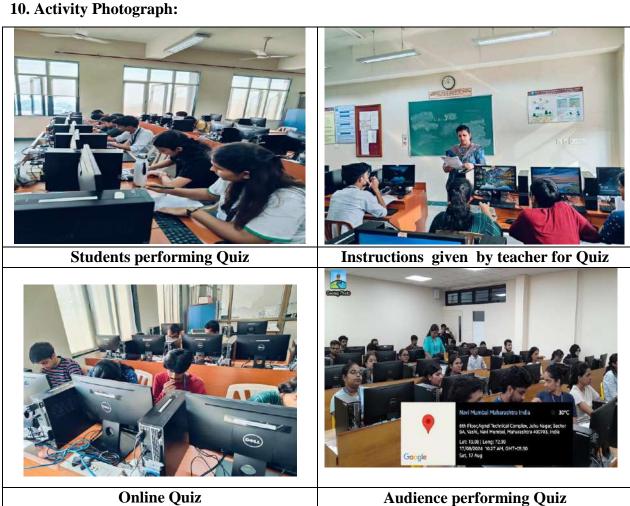
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Signature of HOD



## Fr. C. Rodrigues Institute of Technology, Vashi, Navi-Mumbai

#### **Workshop Report**

Name of the Department: EXTC: IETE-ETSA

1. Name of the Event : Introduction to IoT: Building Connected Solutions

2. Event Venue & Date :17<sup>th</sup> August 2024, 10am to 1pm

3. Nature of Participants : Students of SEM V of EXTC Dept.

4. Number of Participants : 51 students

5. Student Coordinator : Sachin Malpe, Anushka Chauke

6. Staff Coordinator : Dr. Prasad Kulkarni, Ms. Sneha Revankar,

Ms. Akshata Raut

7. Recourse Person :Mr. Gaurav Singh

8. Brochure:



- 9. Brief Summary of the Activity/Event:
- **a. Objectives: To k**now IoT fundamentals and architecture, learn about sensors, actuators, and connectivity and have hands-on experience with IoT platforms and tools



## Fr. C. Rodrigues Institute of Technology, Vashi, Navi-Mumbai

#### **b.** Technical Description:

IETE- ETSA student chapter organised a hand-on session on IoT.

The following topics were included in the session with hands-on session.

- Introduction to IoT-definition, significance and the key components: sensors, connectivity, cloud, applications. Types of sensors (temperature, humidity, etc.)
- IoT Architecture-Layered architecture: perception, network, application
- Communication protocols (MQTT, HTTP, CoAP). Sensor and Actuator Integration.
- Connecting sensors to microcontrollers
- Data Communication: Setting up communication between devices, sending data to a cloud platform.
- IoT Application Development
- Overview of IoT platforms (AWS IoT, Azure IoT, Google Cloud IoT)
- Building a simple IoT application
- Security in IoT and common vulnerabilities
- Best practices for securing IoT devices and networks

#### c. Outcomes

- PO6: Engineer and Society, PO7: Environment and sustainability and PO8:
   Ethics: Speaker guided the students as how some projects done will help the society, environment friendly and sustainable ones. He also motivated them to do need based projects ethically in near future.
- PO12: Lifelong learning: Instructor highlighted on the current scenario of Industry and likewise boosted their confidence motivated them to find the needs of society and become a lifelong learner to achieve a professional career in this field.



## Fr. C. Rodrigues Institute of Technology, Vashi, Navi-Mumbai

#### d.Attendance:

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#### e. Sample feedback:

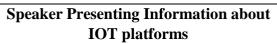
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3	rasikakulkarni2004@gmail.com	Rasika	30221	5	Yes	4	Yes	No ppt	It was very good
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								Maybe an	overcoming
								informative	method
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## Fr. C. Rodrigues Institute of Technology, Vashi, Navi-Mumbai

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7	mohit.s.desai27@gmail.com	Mohit Desai	30221	5	Yes	4	yes	More	Excellent!
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## 10. Activity / Event Photograph:







Speaker





workshop Audience



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**11. Appreciation letter:** Sample copy of appreciation letter given to resource person.



## Fr. C. Rodrigues Institute of Technology Department of Electronics & Telecommunication Engineering

IETE-ETSA Students' Forum

Sector - 9A, Vashi, Navi Mumbai – 400 703, INDIA. Telephone: 022-2777 1000, 2766 1924, 2766 0618 Fax: 2766 0619 Website: www.fcrit.ac.in





August 17, 2024

To

Mr. Gaurav Singh,

Founder, We Can Education Pvt. Ltd.,

Mumbai.

Subject: Letter of Appreciation for delivering a session as a part of IETE/ETSA Activity.

Dear Mr. Gaurav Singh

We are thankful to you for conducting a workshop on "IoT Based Application Development" to TE students of Electronics & Telecommunication Branch, organized by IETE-ETSA on 17/08/2024 at 10.00 AM. The workshop was very enlightening and appreciated by both students and teachers. The insights provided by you will definitely help students in their further studies.

We look forward to such interaction in the future too.

Thanking you,

With warm regards,

Yours truly,

Dr. Megha Kolhekar, Head EXTC Department

Signature and Name of Staff Coordinator

Signature of HOD