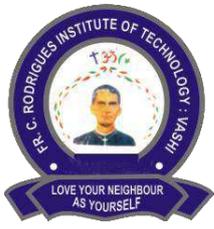




Aguel Charities
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Vashi, Navi-Mumbai

FH 2022



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Vashi, Navi-Mumbai

Brief Activity/Event Report

Name of the Department/ Institute level Committee: IEI student chapter

1. **Name of the Activity/Event** : Technical Webinar- “LATEX COURSE ”
2. **Activity/Event Venue & Date** : Google Meet, 4th March, 25th March.
3. **Nature of Participants** : **Students of Electrical Department**
4. **Number of Participants** : 67
5. **Student Coordinators** : **IEI council**
6. **Staff Coordinator** : Mrs. Divya Sajeesh
7. **Brief Summary of the Activity/Event (in maximum 500 words):**

Objectives :

1. To develop basic skills required to use latex.
2. To develop extremely good control over the formatting of documents.

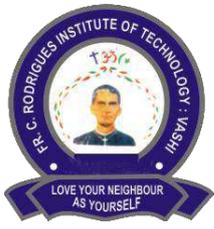
- a. **Technical Description** : Following whatsapp message was circulated among the students to inform them about the webinar



- a. **Outcomes** : Students were able learn the basics of latex
: Coordinators were able develop their skill to organise the event

Staff Coordinator

HOD



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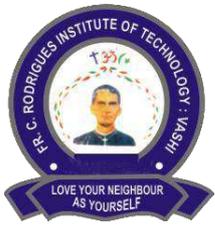
b. Summary of Feedback :

| Sr.No | Questions | | | | | |
|-------|---|--------------------------------|-------------------------------|------------------------|---------------------------|----------------------------|
| 1 | How useful was the session for developing knowledge in the area of magnetics? | Extremely useful 48% | Somewhat useful 48% | Neutral 3.7% | Somewhat not useful -- | Extremely not useful -- |
| 2 | Whether the session was beneficial for problem solving skills in the simulation of circuit? | Yes 100% | | No -- | | |
| 3 | How do you rate the webinar? | 5 37% | 4 48% | 3 15% | 2 -- | 1 -- |

c. Action to be Taken based on Feedback: More such courses has to be conducted.

Staff Coordinator

HOD



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8. Activity / Event Photograph :



Glimpse of the webinar

Staff Coordinator

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Brief Activity/Event Report

1. **Name of the Activity/Event** : online “Emotional Intelligence workshop” in collaboration with IITB, Abhyuday
2. **Activity/Event Venue & Date** : Online / 22nd January 2022
3. **Nature of Participants** : Students of sem 4 and 6
4. **Number of Participants** : 89
5. **Student Coordinator** : Harshal Mishra
6. **Staff Coordinator** : Mrs. Harshada Bhosale
7. **Brief Summary of the Activity/Event (in maximum 500 words):**
 - a. **Objectives** :
 1. To collaborate with reputed institutes to arrange workshops on topics having social significance.
 - b. **Technical Description** :

Online event was arranged in collaboration with IITB, Abhyuday on 22nd January 2022 on the topic “Emotional Intelligence”. The speaker Dr. Era Dutta, Consultant Psychiatrist, Therapist, Life wellness coach, Founder - Mind Wellness conducted the session. It was a interactive session wherein she discussed about Emotional well-being. Factors affecting our emotional health like fear, anxiety, depression etc. and how to overcome these.
 - c. **Outcomes** :
 1. Students were able to understand importance of emotional health and how it can help in realising good mental health.
8. **Activity / Event Photograph** :

Shruti Mayekar

EESA chairperson

Mrs. Harshada Bhosale

Staff Coordinator

Dr. Bindu S.

HOD



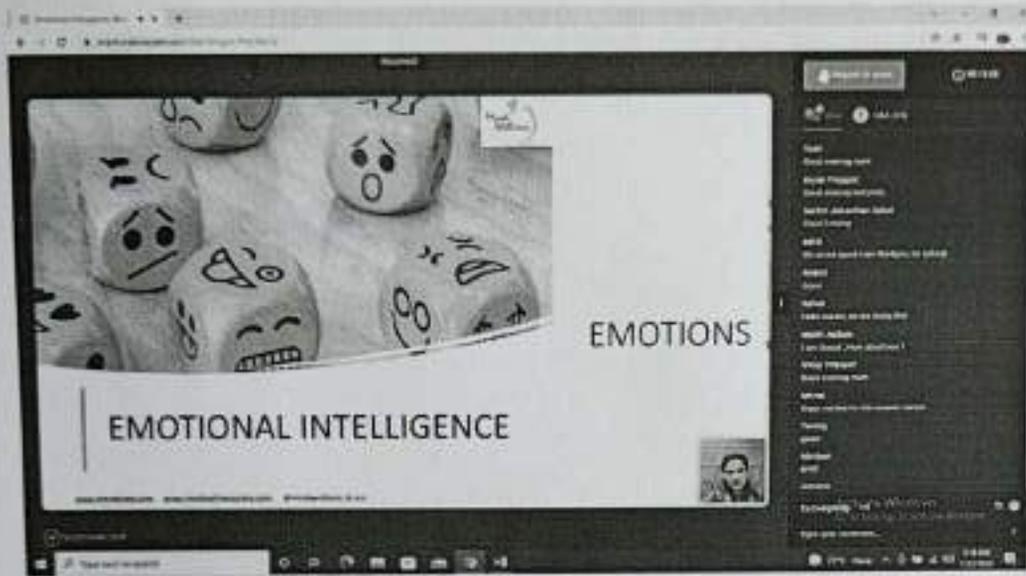
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Shruti

Shruti Mayekar

EESA chairperson

Harshada

Mrs. Harshada Bhosale

Staff Coordinator

Bindu S.

Dr. Bindu S.

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Brief Activity/Event Report

1. Name of the Activity/Event : Spoken Tutorial on MS EXCEL
2. Activity/Event Venue & Date : Google classroom , Jan to April 2022
3. Nature of Participants : Students of Sem 4
4. Number of Participants : 37
5. Student Coordinator : Annie Nadar
6. Staff Coordinator : Mrs. Harshada Bhosale
7. Brief Summary of the Activity/Event (in maximum 500 words):

a. Objectives : Learn and practice MS Excel as a software tool

b. Technical Description :

A spoken tutorial on MS Excel was conducted for sem 4 students from Jan to April 2022. Videos prepared by previous EESA council members was shared in the Google classroom. The videos included topics explaining use of Excel sheets and different features of MS Excel that can be used by Engineers. The participants had to go through the different videos and submit assignment based on it in order to earn a certificate.

c. Outcomes :

1. Students will have exposure to better understanding of MS Excel.
2. Students will be able to use MS Excel and its different features as a office tool.

d. Summary of Feedback : No. of Students - 37

| Sr.No. | Questions | 5 | 4 | 3 | 2 | 1 |
|--------|---|----|----|---|---|---|
| 1 | How would you rate the contents covered related to EXCEL in the videos? (1 - minimum and 5 - maximum) | 18 | 14 | 5 | - | - |
| 2 | How would you rate your ability to use the different features of EXCEL? (1 - minimum , 5 - maximum) | 18 | 14 | 5 | - | - |

Shruti Mayekar

EESA chairperson

Mrs. Harshada Bhosale

Staff Coordinator

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| | | | | | | |
|---|---|-------|------|------|---|---|
| 3 | How would you rate the assignments given for practice of EXCEL? (1 - minimum , 5- maximum) | 24 | 10 | 3 | - | - |
| 4 | How would you rate the EXCEL workshop as a tool for helping in professional growth? (1 - minimum , 5- maximum) | 23 | 12 | 2 | - | - |
| | Average rating | 20.75 | 12.5 | 3.75 | - | - |

c. Action to be Taken based on Feedback: Nil

8. Activity / Event Photograph :

MP Share | File Copy | Download | M3 excel session 1 ... | 4/8 | 11 | X | Video settings | Help

AUTOFILL OR FILL SERIES

Instead of entering data manually on a worksheet, you can use the AutoFill feature to fill cells with data that follows a pattern or that is based on data in other cells. We can condition our own auto fill series.

Procedure for Fill Series :-

- Sometimes, you need to enter a lot of repetitive information in Excel, such as dates, and it can be really tedious. But AutoFill can help.
- Type the first date in the series.
- Put the mouse pointer over the bottom right-hand corner of the cell until it's a black plus sign.
- Click and hold the left mouse button, and drag the plus sign over the cells you want to fill. And Excel fills in the series for you automatically along the way!

Session 1 video screen shot

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EESA chairperson

Mrs. Harshada Bhosale

Staff Coordinator

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TOTAL SALES AND ALLOWANCES

| Total Sales | Allowances |
|-------------|------------|
| RM50,000.00 | RM5,000.00 |
| RM30,000.00 | RM3,000.00 |
| RM10,000.00 | RM1,000.00 |
| RM60,000.00 | RM6,000.00 |
| RM50,000.00 | RM5,000.00 |
| RM20,000.00 | RM2,000.00 |
| RM25,000.00 | RM2,500.00 |

| Questions | Answer |
|--|-------------------------|
| 1) Total Allowances for Total Sales over RM 50,000 | 8516,000.00 |
| 2) Total of Total Sales over RM 45,000 | =SUMIF(A:A,10,">45000") |

The question asked for total of total sales - RM 45,000. Therefore, highlight the total sales and follow the formula as shown.

Session 2 video screen shot

Employee List:

| Emp ID | First Name | Last Name | Sex | Emp Job |
|--------|------------|------------|-----|---------|
| 1004 | Harshada | V. BHOSALE | | |
| 1006 | Jai | | | |
| 1007 | Uday | | | |
| 1008 | Shruti | | | |
| 1009 | Sandeep | | | |
| 1010 | Mani | | | |
| 1016 | Mani | | | |
| 1018 | Pune | | | |
| 1020 | Harsh | | | |
| 1021 | Uday | | | |
| 1024 | Yashika | | | |
| 1025 | Tarun | | | |

Session 3 video screen shot

Shruti

Shruti Mayekar

EESA chairperson

Harshada

Mrs. Harshada Bhosale

Staff Coordinator

Bindu

Dr. Bindu S.

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Brief Activity/Event Report

1. Name of the Activity/Event : Science day celebration 28th Feb
2. Activity/Event Venue & Date : 5th March 2022
3. Nature of Participants : Students of sem 4 and 6
4. Number of Participants : 5
5. Student Coordinator : Anand Unnikrishnan
6. Staff Coordinator : Mrs. Harshada Bhosale
7. Brief Summary of the Activity/Event (in maximum 500 words):

a. Objectives :

- 1) To familiarise with significant inventions in the field of Science & Technology that proved to be milestones
- 2) To enhance event organising skills of council members

b. Technical Description :

A competition was arranged to celebrate the National Science day (28th Feb). Participants had to research on significant inventions in the field of Science & Technology that proved to be milestones and present. The competition was conducted on 5th March 2022 and judged by Jalaja M. Nair, retired Electrical Engineer.

c. Outcomes :

- 1) Students were able to familiarise with important inventions in the field of Science & Technology that proved to be milestones in the development.

8. Activity / Event Photograph :

Shruti Mayekar

EESA chairperson

Mrs. Harshada Bhosale

Staff Coordinator

Dr. Bindu S.

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Shruti Mayekar is presenting

FOSSIL FUEL

- The theory of fossil fuel was introduced by Andreas Libavius in 1597.
- It was in the 1880s when coal was first used to generate electricity for homes and factories.
- By 1950, petroleum becomes the most used fuel in the U.S.

6:20 PM | National Science Day Competition

Shruti Mayekar is presenting

THANK YOU

6:35 PM | National Science Day Competition

National Science day celebration

Shruti

Shruti Mayekar

EESA chairperson

Harshada

Mrs. Harshada Bhosale

Staff Coordinator

Bindu

Dr. Bindu S.

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Brief Activity/Event Report

1. Name of the Activity/Event : Online TECHFEST 2022
2. Activity/Event Venue & Date : Online / 12th February 2022
3. Nature of Participants : Students of sem 4 and 6
4. Number of Participants : 13
5. Student Coordinator : EESA council
6. Staff Coordinator : Mrs. Harshada Bhosale
7. Brief Summary of the Activity/Event (in maximum 500 words):

a. Objectives :

1. To develop extra-curricular skills of students
2. To enhance technical knowledge by conducting quiz etc.
3. To help in developing event organising skills of council members

b. Technical Description :

Events were conducted on online platform like technical Quiz, Scribble and UNO.

c. Outcomes :

1. Students were able to improve their technical knowledge through Quiz
2. Students were able to develop extracurricular skills through activities like Scribble and UNO.

d. Summary of Feedback : No. of Students - 13

| Sr.No. | Questions | 5 | 4 | 3 | 2 | 1 |
|--------|--|----|---|---|---|---|
| 1 | How would you overall rate this event?(1-minimum , 5-maximum) | 11 | 2 | - | - | - |
| 2 | How would you rate the organization of the event? (1-minimum , 5-maximum) | 12 | 1 | - | - | - |
| 3 | How would you rate the events selected for the techfest? (1-minimum , 5-maximum) | 12 | 1 | - | - | - |

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Mrs. Harshada Bhosale

Staff Coordinator

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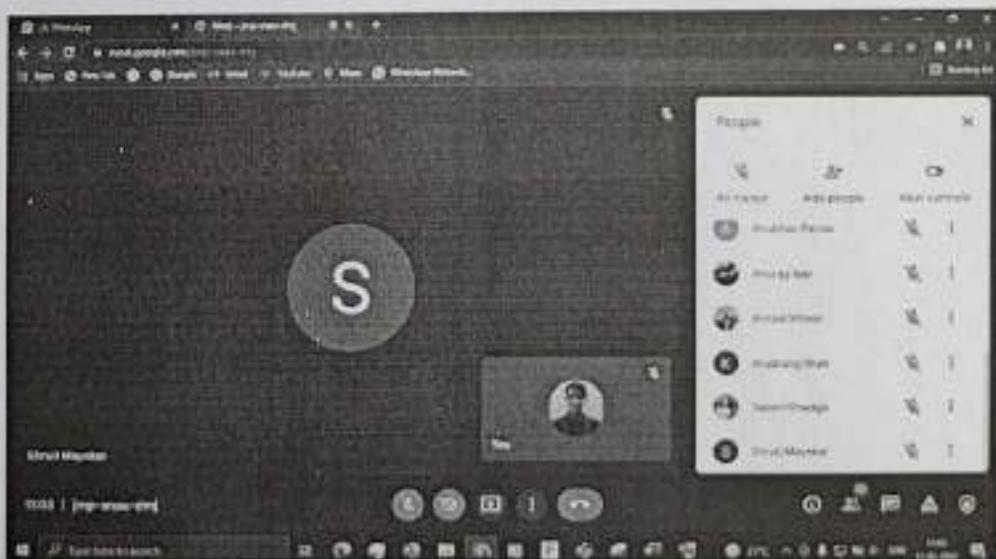
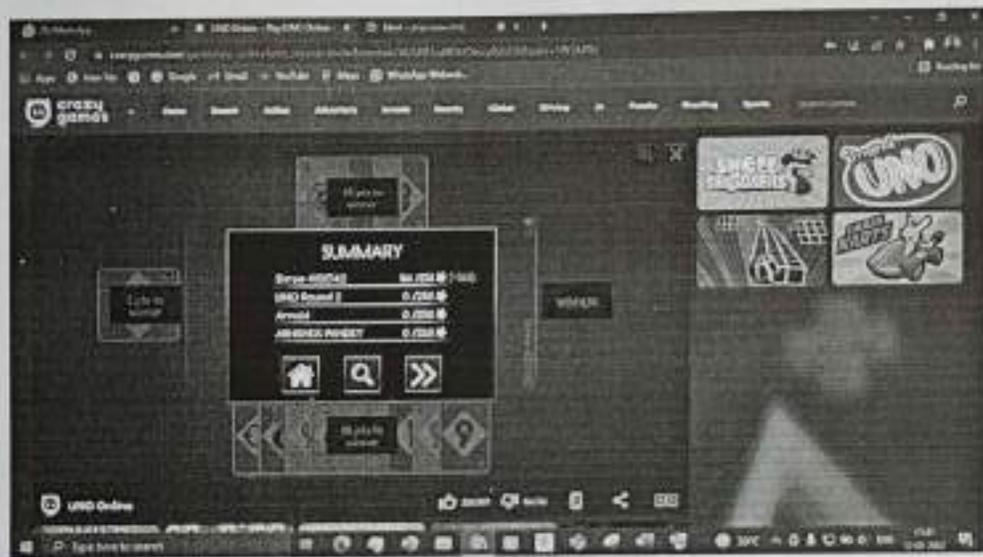
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e. Action to be Taken based on Feedback: Nil

8. Activity / Event Photograph :



Shruti Mayekar

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Brief Activity/Event Report

1. **Name of the Activity/Event** : Online session on "Know your Library"
2. **Activity/Event Venue & Date** : Online Teams/ 14th January 2022
3. **Nature of Participants** : Students of sem 4,6 and 8
4. **Number of Participants** : 71
5. **Student Coordinator** : Siddharth Vanjari EESA council member
6. **Staff Coordinator** : Mrs. Harshada Bhosale
7. **Brief Summary of the Activity/Event (in maximum 500 words):**

- a. **Objectives** : Increase awareness about library resources
- b. **Technical Description** :

An online session in Teams on "Know your Library" was arranged on 14th January 2022. The session was conducted by Mrs. Kalpana Hire, Librarian, and FCRIT. She told students about different resources in library other than the books. Other facilities in the library which students can make use for their mini project work etc.. Remote access to the online

- c. **Outcomes** :
 1. Awareness about access to library resources.
- d. Platform for interaction among teachers and students
- e. **Summary of Feedback** : No. of Students - 71

| Sr.No. | Questions | 5 | 4 | 3 | 2 | 1 |
|--------|--|----|----|---|---|---|
| 1 | How would you rate the session in terms of contents covered on the Topic? (1 - minimum , 5- maximum) | 52 | 15 | 2 | 2 | - |
| 2 | How would you rate the speaker in terms of delivery of session and topics covered? | 53 | 14 | 3 | 1 | - |
| 3 | How would you rate the orientation program in terms of getting knowledge about your | 52 | 15 | 2 | 2 | - |

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Staff Coordinator

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| | | | | | |
|--|--|--|--|--|--|
| library resources? (1 - minimum, 5- maximum) | | | | | |
|--|--|--|--|--|--|

f. Action to be Taken based on Feedback: Nil

8. Activity / Event Photograph :



Shruti

Shruti Mayekar

EESA chairperson

Harshada

Mrs. Harshada Bhosale

Staff Coordinator

Bindu

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Brief Activity/Event Report

1. Name of the Activity/Event : "Indoor Content Creation Event"
1. Activity/Event Venue & Date : 29/3/2022
2. Nature of Participants : Students of sem 4,6
3. Number of Participants : 12
4. Student Coordinator : Purva Dubal and Shruti C.
5. Staff Coordinator : Mrs. Harshada Bhosale
6. Brief Summary of the Activity/Event (in maximum 500 words):
 - a. Objectives :
 1. To bring out the creative side of students
 2. To develop event management skills of council students
 - b. Technical Description :

A short video making competition was arranged for Electrical students of maximum 10 min duration. Students had to make a short video on a theme like social, entertainment or School days and send by 29th March 2022. Three best videos were selected from those submitted.
 - c. Outcomes :
 1. Participating students got a platform to display their creative side
 2. Awareness among students about social causes increased
 3. EESA students could display their event management skills.
 - d. Summary of Feedback : NA
 - e. Action to be Taken based on Feedback: NA
 - f. Prize winners :
 - 1st prize - AKASH METHA (401875) SEM 8
 - 2nd prize - KARTIKRAJ EASWARAN (4019165) SEM 6
 - 3rd prize - NISHANT MISHRA (401732) SEM 6

Shruti Mayekar

EESA chairperson

Mrs. Harshada Bhosale

Staff Coordinator

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7. Activity / Event Photograph :



Video 1 – Trip to Raigad



Video 2 – Heart of Mumbai – Local trains

Shruti...

Shruti Mayekar

EESA chairperson

Harshada

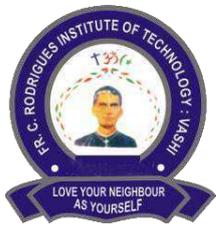
Mrs. Harshada Bhosale

Staff Coordinator

Bindu

Dr. Bindu S.

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Brief Activity/Event Report

Name of the Department/ Institute level Committee: IEEE FCRIIT Studentchapter

1. **Name of the Activity/Event** : Advance Machine Learning for EV Battery State of Charge and Lifetime Estimation.
2. **Activity/Event Venue & Date** : Google Meet, 7th Jan 2022
3. **Nature of Participants** : Students and faculty of Engineering
4. **Number of Participants** :95
5. **Student Coordinator** : Ms. Divya Prashant Vyas
6. **Staff Coordinator** : Dr. Mini Rajeev
7. **Brief Summary of the Activity/Event (in maximum 500 words):**
 - a. **Objectives** : To arrange a session on a technical topic which will be beneficial to all the streams. Thus arranged a webinar on 'Advanced machine learning on EV battery state of charge and lifetime estimation'.
 - b. **Technical Description:** The event 'Advanced machine learning on EV battery state of charge and lifetime estimation' was organized on 7th January 2022 at 7:30 pm. The speaker for the event was ' Dr. Sheldon Williamson'. After the saraswati vandana and lighting lamp ceremony, speaker, teachers and all the students were welcomed by the committee. The event was thus begun, the speaker of the event Dr. Sheldon Williamson then took an enlightening and informative session for all the attendees. After the session ended it was concluded by one of the members of IEEE committee and the event was thus ended.
 - c. **Outcomes:** The event was successfully conducted. The event proved helpful to so many attendees for gaining knowledge about the topic. The event benefited few Phd students for their study and also engineering students. Overall the experience was very informative and event was successfully conducted.



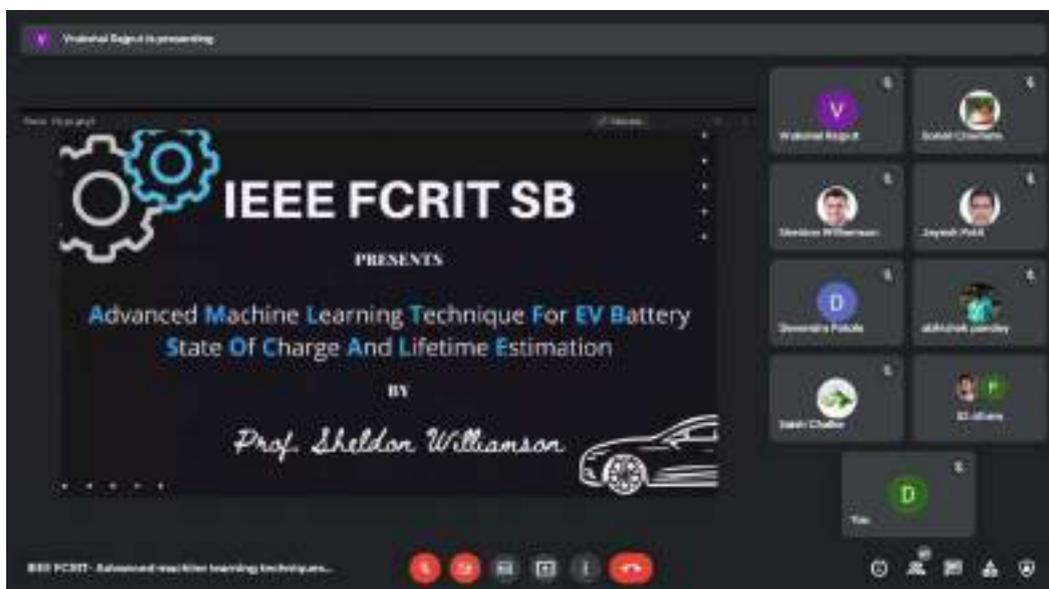
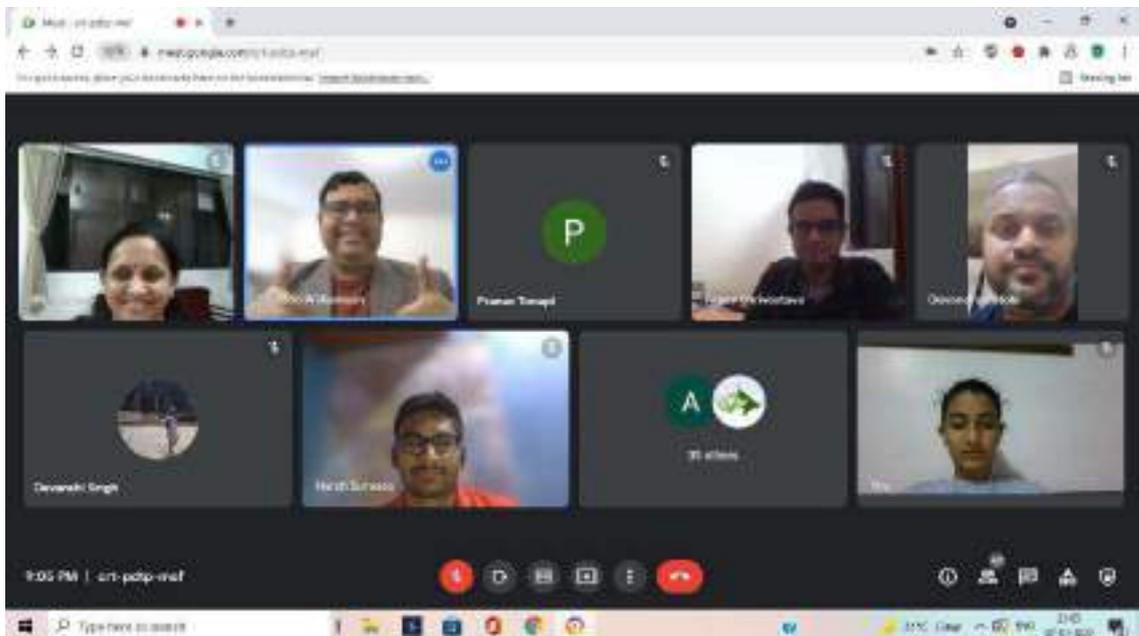
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- d. **Summary of Feedback:** More than 50% attendees liked the event very much, around 40% fairly liked the event. Around 70% attendees liked the organization of the event very much and had no complaints. Around 70% attendees found the speaker to be excellent in his delivery of the session.
- e. **Action to be Taken based on Feedback:** Council needs to arrange more such events based mainly on technical subjects. And also arrange more events beneficial to higher education students.

8. Activity / Event Photograph :





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Sheldon Williamson is presenting

Advanced Machine Learning Techniques for EV Battery State-of-Charge and Lifetime Estimation

Sheldon S. Williamson, Fellow, IEEE

NIERC Canada Research Chair
Electric Energy Storage Systems for Transportation Electrification

Smart Transportation Electrification and Energy Research (STEER) Group
Advanced Storage Systems and Electric Transportation (ASSET) Laboratory
Department of Electrical, Computer, and Software Engineering
Faculty of Engineering and Applied Science
Ontario Tech University
2000 Keele St. W., Ontario, Canada M3J 3K3, Canada
E-MAIL: sheldon.williamson@utoronto.ca
URL: <http://www.nierc.ca/research/chairs/electrification/>

IEEE FCRIIT - Advanced machine learning techniques...

Sheldon Williamson is presenting

Smart Transportation Electrification and Energy Research (STEER) Group

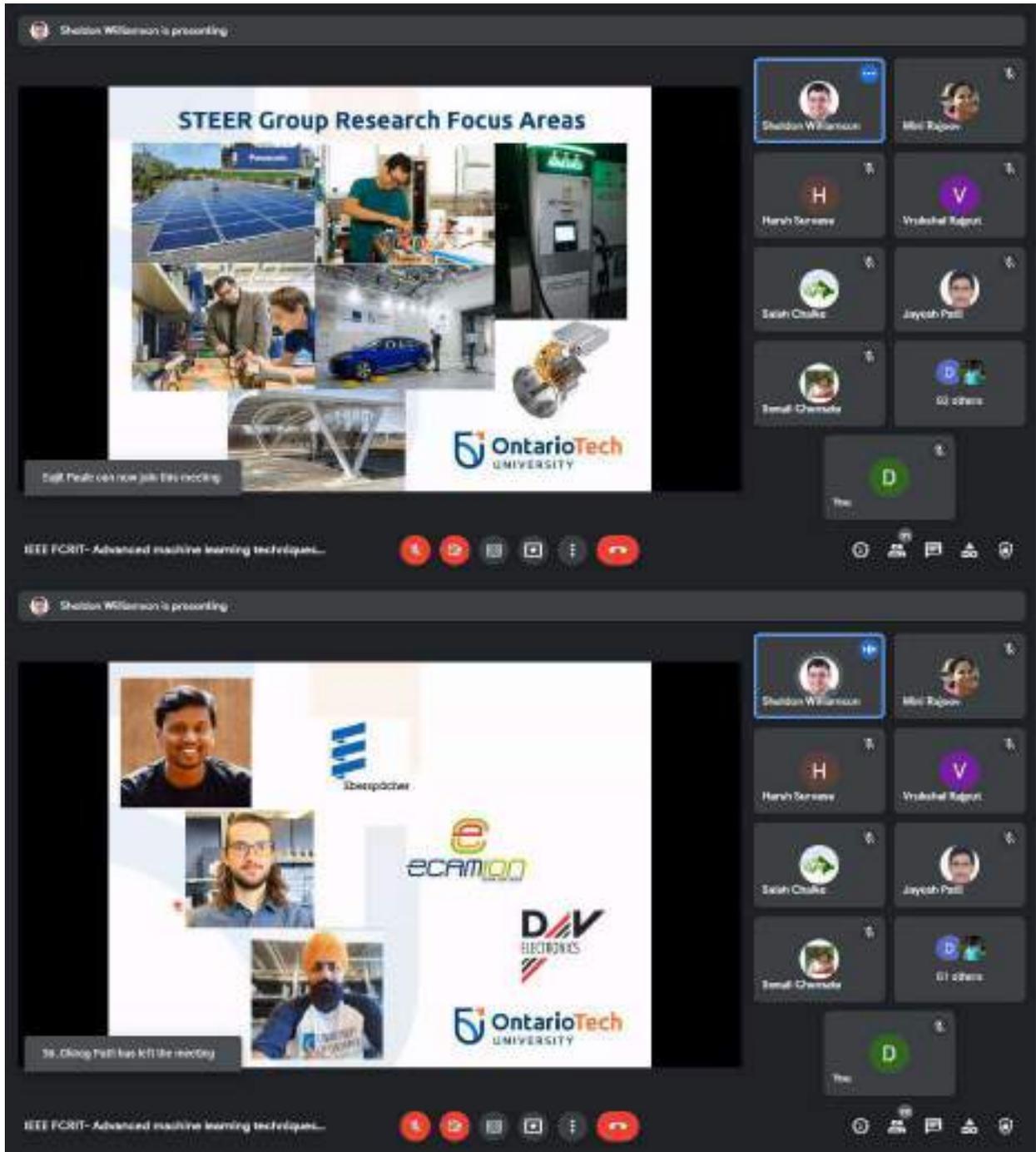
Tarlochan Sidhu Vijay Swati Wadd Ibrahim Mohamed Yousof Sheldon Williamson

- 40+ engineering faculty involved in automotive/transportation electrification research.
- 80+ graduate research students.
- Over 50,000 sq. ft. of research lab space.
- 10 full-time lab technicians.

IEEE FCRIIT - Advanced machine learning techniques...



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Student Coordinator

Faculty Incharge

HOD



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Brief Activity/Event Report

Name of the Department/ Institute level Committee: IEEE FCRIIT Student chapter

1. Name of the Activity/Event : Poster Presentation
2. Activity/Event Venue & Date : AX209, 10th March 2022
3. Nature of Participants : Students of Engineering
4. Number of Participants : 15
5. Student Coordinator : Ms Neha Mandelkar
6. Staff Coordinator : Dr. Mini Rajeev
7. Brief Summary of the Activity/Event (in maximum 500 words):
 - a. **Objectives:** The poster presentation which was in collaboration with student council which basically aims at showcasing a cause which conveys a technical theme individually or along with a team of maximum three members. The objective of the event was to provide an opportunity to the students to present their talent, creative, technical and presentation skills.
 - b. **Technical Description:** The event "Poster Presentation" was organized on 10th March 2022 at 11 am IST. The judges for the competition were- Mr. Joshua Michael from EXTC Department and Ms. Sharlene Rebeiro from IT Department. The participants had the liberty of making their own templates for the posters. The competition started with the participants having a 10 mins of presentation time. The judges gave feedback to all the participants, as well as encouraged and congratulated them for their active participation.
 - c. **Outcomes:** The event was conducted for the students of FCRIIT. The students were given a platform to present their technical ideas in a visually appealing and creative way. The participants were given a clear idea and fair judgement for their posters and presentation skills.
 - d. **Summary of Feedback:** All of the students approached the competition with enthusiasm and gave it their all. They also took all of the judge's feedback



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positively. The event was deemed informative and well-received, prompting them to participate in similar future events.

- e. **Action to be Taken based on Feedback:** We intend to hold more competitions like this in the future to give students a chance to display their skills, talents and ideas.

8. Activity / Event Photograph :





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Student Coordinator

Neha Mandelkar.

Faculty in charge

Dr. Mini Rajeev

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Dr. Bindu S



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Brief Activity/Event Report

1. **Name of the Activity/Event** : IOT workshop
2. **Activity/Event Venue & Date** : 7th March 2022 and 28th April 2022
3. **Nature of Participants** : Students of sem 4 and 6
4. **Number of Participants** : 23
5. **Student Coordinator** : EESA council
6. **Staff Coordinator** : Mrs. Harshada Bhosale
7. **Brief Summary of the Activity/Event (in maximum 500 words):**
 - a. **Objectives** : Learn basic concepts of IOT and demo of IOT projects to enable students to select and implement IOT based projects.
 - b. **Technical Description** :

A workshop was conducted to learn basic concepts of IOT and demo of IOT projects using both online platform and offline. The workshop apart from giving knowledge about IOT also exposed them to various IOT projects that students can undertake.
 - c. **Outcomes** :
 1. Increased knowledge about basic concepts of IOT and IOT based projects
 - d. **Summary of Feedback** : No. of Students - 23

| Sr.No. | Questions | 5 | 4 | 3 | 2 | 1 |
|--------|---|----|---|---|---|---|
| 1 | How would you overall rate this event? (1 - minimum , 5- maximum) | 14 | 9 | 1 | - | - |
| 2 | How would you rate the organization of the event? (1 - minimum , 5- maximum) | 12 | 7 | 2 | 2 | - |
| 3 | How would you rate your understanding about IoT after this workshop? (1- minimum , 5-maximum) | 13 | 9 | 1 | - | - |
| 4 | How confident you are to take any IoT related project after attending this workshop? (1 - minimum , 5- maximum) | 12 | 8 | 3 | - | - |

Shruti Mayekar

EESA chairperson

Mrs. Harshada Bhosale

Staff Coordinator

Dr. Bindu S.

HOD



Fr. C. Rodrigues Institute of Technology

Department of Electrical Engineering

Sector - 9A, Vashi, Navi Mumbai - 400 703, INDIA.

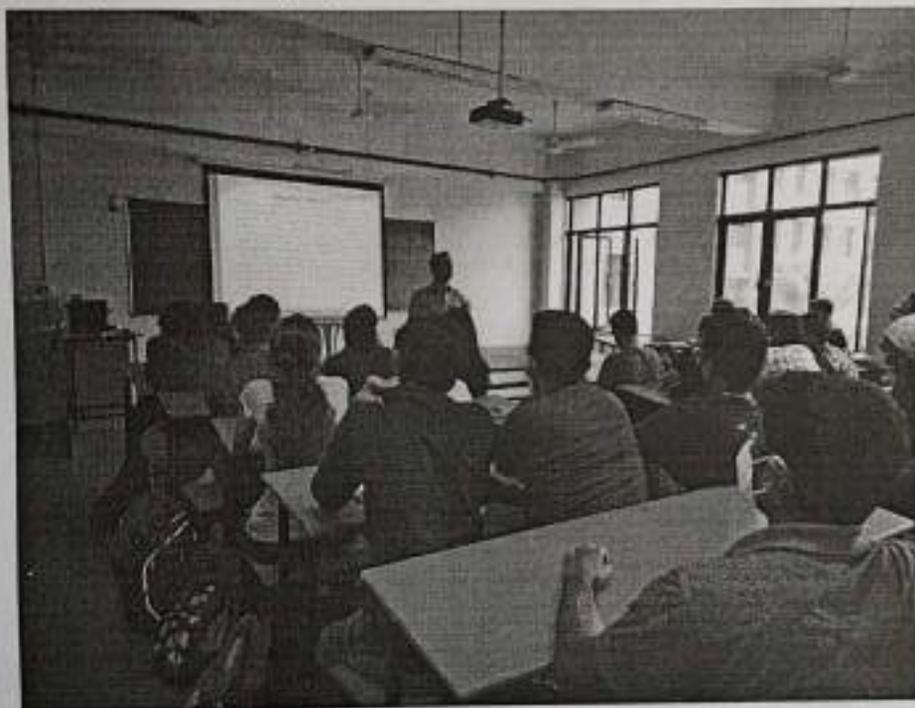
Telephone: 022-2777 1000, 2766 1924, 2766 0618. Fax: 2766 0619

Website: www.fcrit.ac.in

| | | | | | | |
|---|---|------|---|-----|-----|---|
| 5 | How would you rate the workshop in terms of helping you in continuing professional development? | 15 | 7 | 1 | - | - |
| | Average rating | 13.2 | 8 | 1.6 | 0.4 | - |

e. Action to be Taken based on Feedback: Nil

8. Activity / Event Photograph :



Offline on 6th March 2022

Shruti Mayekar

EESA chairperson

Mrs. Harshada Bhosale

Staff Coordinator

Dr. Bindu S.

HOD



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Raspberry Pi Vs Akash

- The first generation Akash is said to run an ARM 11-based processor from Conexant running at 366Mhz.
- The Raspberry Pi uses an ARM 11-based processor from Broadcom running at 700Mhz plus a separate graphics processing unit.
- The processor in the Raspberry Pi has about twice the graphics performance of the iPhone 4S and even beats Nvidia's Tegra 2.

Adjust Windows
Control panel & network connections

Diagram of Raspberry Pi components and ports:

- GPIO PINS
- PCB VIDEO-OUT
- AUDIO OUT
- SD CARD SECT (BACK OF BOARD)
- 20 PIN I2C CONNECTOR
- 3.5MM AUDIO JACK
- USB 2.0
- ETHERNET OUT (GANG ON OTHER MODEL)
- CS CONNECTOR CAMERA
- IR INFRARED SENSORS (AMBI LIGHTS)
- MEMO USE PORTS (5V 1A GND)
- HDMI OUT

ONLINE in Teams on 28th April 2022

Shruti...

Shruti Mayekar

EESA chairperson

Harshada

Mrs. Harshada Bhosale

Staff Coordinator

Bindu

Dr. Bindu S.

HOD



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

Brief Activity/Event Report

Name of the Department/ Institute level Committee: Electrical Engineering

1. **Name of the Activity/Event** : Offline lectures for Technimont Private Limited
2. **Activity/Event Venue & Date** : AX-211 ,3/2/2022
3. **Nature of Participants** : All BE students those have applied for Technimont Private Limited
4. **Staff Coordinator** : Abhishek Shiwalkar

a. Brief Summary of the Activity/Event :

Pandemic situation started from March 2020 and since that students were attending online lectures. Semester V, VI and VII students from final year class attended in online mode. So to clear students doubts for some important subjects of Electrical Engineering offline lectures were scheduled.

Objectives :

To train students for campus placement

b. Technical Description :

Four sessions were scheduled :

| Time | Subject | Faculty | Number of students |
|-------------------|-------------------|---------------------|--------------------|
| 9.30 to 11.00 am | Power Electronics | Dr.Sushil Thale | 10 |
| 11.15 to 12.30 pm | Transformer | Dr. Bindu S. | 13 |
| 2.30 to 3.30 pm | DC Machines | Prof. Rajendra Soni | 15 |
| 3.30 to 5.00 pm | Power System | Dr. Mahendra Rane | 12 |

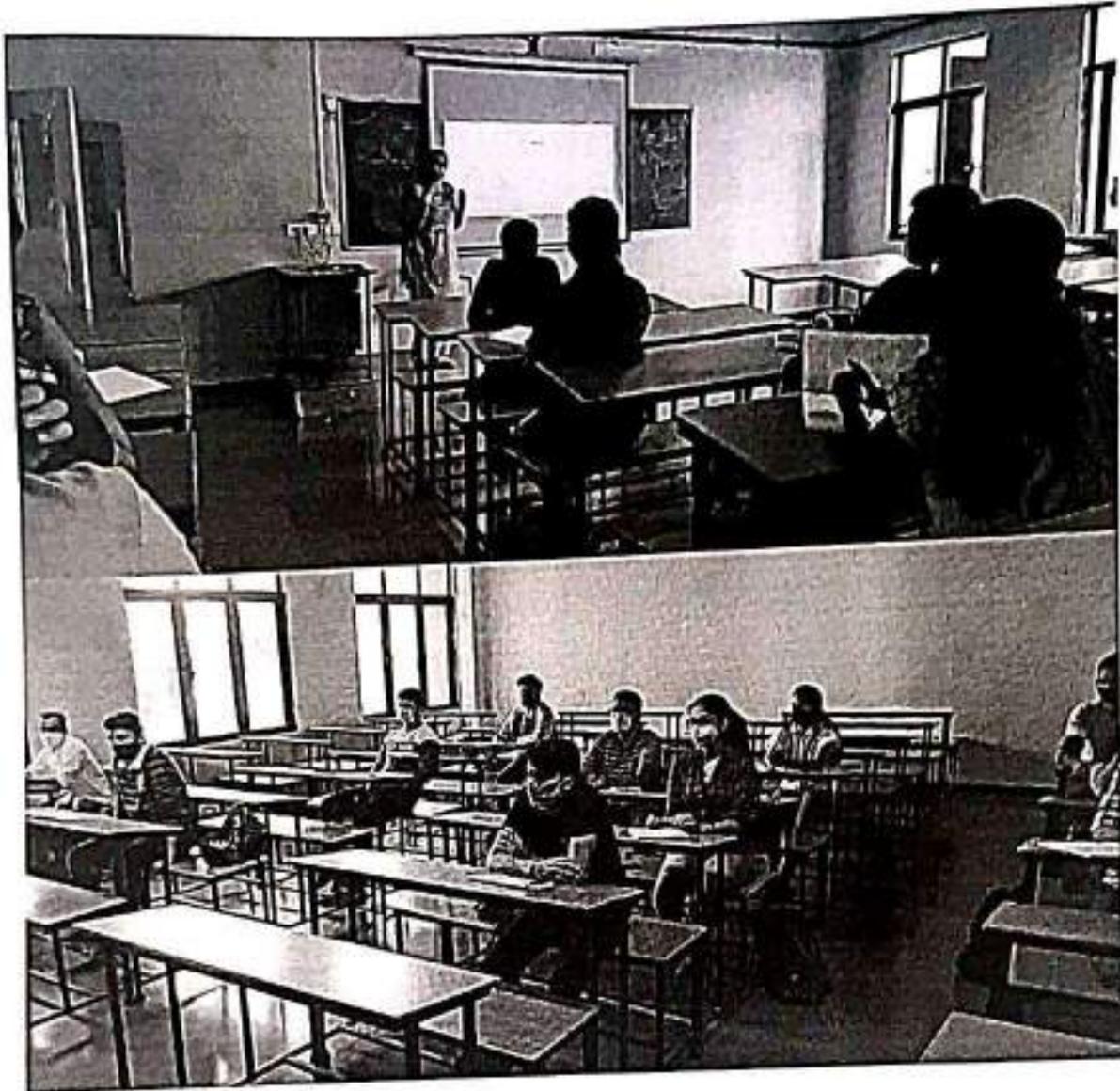


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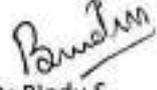
c. Outcome-

Two students got selected in Technimot Private Ltd

- 1- Akash Metha
- 2- Pranav Samant




5-2-2022
Abhishek Shiwalkar
Staff Coordinator


Dr. Bindu S
HOD

Lectures Scheduled for Technimont

Fr.C.RODRIGUES INSTITUTE OF TECHNOLOGY, Vashi - Electrical Engg. Dept FII 2022 Sem: B
 SUB: P.E (Sushil Sir) Date: 3/2/22 Time: 1:30pm LECT/ TUT/ PRACT

| Sr. # | Batch 1 | Roll # | Sign | Sr. # | Batch 3 | Roll # | Sign |
|-------|---------------------------|--------|---------------|--------------------|---------------------------|----------|----------------|
| 1 | ABISTAN SELVARAJ | 401802 | | 37 | PINTO DYLAN DOMING | 401844 | |
| 2 | ABUBAKKAR SIDDIQI | 401803 | | 38 | QURESHI RAHEEL RIYAZ | 401845 | |
| 3 | AGNEL AUSTIN SUDHAKAR | 401804 | | 39 | R ANIKETI | 401846 | <i>Winkler</i> |
| 4 | AJNALEKAR AAKASH V. | 401805 | | 40 | PAJPUT VEDANT UDAYSINGH | 401847 | |
| 5 | AMBIKAR SHRADDHA PRAD | 401806 | | 41 | REUBEN VARGHESE JOSE | 401848 | |
| 6 | ANTO GNANA NILESH | 401807 | | 42 | SALVI RANJIT BHIMRAO | 401849 | |
| 7 | ANVEKAR SHIVAM SATISH | 401808 | | 43 | SARKAR ANIRBAN | 401850 | |
| 8 | BAKSHI RISHAD | 401809 | | 44 | SARNAIK SHREYAS | 401851 | |
| 9 | BHOLE PRATIK NILKANTH | 401810 | | 45 | SARUK AVINASH MARUTI | 401852 | |
| 10 | CHAUDHARY HARSH KUMAR | 401811 | <i>Ch</i> | 46 | SHAIKH MOHAMMED OWAIS A | 401853 | |
| 11 | CHAVAN SHUBHAM | 401812 | | 47 | SHINDE SHREYA | 401854 | <i>Shinde</i> |
| 12 | CRUZ DENZIL NICHOLAS | 401813 | | 48 | SILVITA JOY | 401855 | |
| 13 | DEOKATE PRATIK ARUN | 401816 | | 49 | SINGH BHANUPRATAP | 401857 | |
| 14 | LENNARD FELIX D'SOUZA | 401817 | L D | 50 | TARTI UDATRAJ DIGAMBER | 401859 | |
| 15 | GILBERT JAMES | 401818 | | 51 | TITALE AMEYA SUSHIL | 401860 | <i>Titale</i> |
| 16 | GOKUL NARAYANAN | 401819 | | 52 | VASTAK JAYDEEP NARESH | 401861 | |
| 17 | GORULE SANKITA VISHWANATH | 401821 | | 53 | WANI GAURAV | 401862 | |
| 18 | JAINSWAL ADITYA | 401822 | | 54 | VINCENT SUPRIYA | 401864 | |
| | Batch 2 | | | | Batch 4 | | |
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| 21 | LAKHPATI SHRIRAJ SHIVPRAD | 401826 | | 57 | SAMANT PRASAV ABHJYET | 401868 | <i>Prasad</i> |
| 22 | MAHAJAN KUNJAL MAHENDRA | 401827 | | 58 | OZA SHIVAM RAJESH | 401869 | |
| 23 | DENNIS DAVIS MALPAN | 401828 | | 59 | GUNTI SANJANA NARENDRA | 401870 | |
| 24 | MALPURE SHRUTI AVINASH | 401829 | | 60 | KHEDEKAR AMOGH VAIBHAV | 401871 | |
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| 28 | MHATRE SHRUTIKA | 401833 | | 64 | METHA AKASH RAJENDRA | 401875 | <i>Metha</i> |
| 29 | MHATRE YADNESH RAMESH | 401834 | | 65 | KAMATH KRITHIKA SATISH | 401876 | |
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| 33 | MUSKAN SAXENA | 401838 | | 69 | GLADSON NADAR | 401734 | |
| 34 | NAIK SWARAJ PRASHANT | 401840 | | 70 | VISAL VINCENT | 401762 | |
| 35 | NAIR SHRUTI SHIVADAS | 401842 | | Present # | | Absent # | |
| 36 | PATIL YASHWANT SACHIN | 401843 | | Staff Name & Sign: | | | |

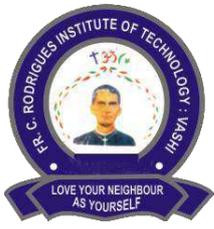


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| 6 | ANTO GNANA NILESH | 401807 | | 42 | SALVI RANJIT BHIMRAO | 401849 | |
| 7 | ANVEKAR SHIVAM SATISH | 401808 | Shivam | 43 | SARKAR ANIRBAN | 401850 | |
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| 9 | BHOLE PRATIK NILKANTH | 401810 | | 45 | SARUK AVINASH MARUTI | 401852 | |
| 10 | CHAUDHARY HARSH KUMAR | 401811 | Harsh | 46 | SHAIKH MOHAMMED OWAIS A | 401853 | Shaiikh |
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| 12 | CRUZ DENZIL NICHOLAS | 401813 | | 48 | \SILVIYA JOY | 401855 | |
| 13 | DEOKATE PRATIK ARUN | 401816 | Pratik | 49 | SINGH BILANUPRATAP | 401857 | |
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| 27 | \MENON SHIKHA | 401832 | Shikha | 63 | DESALE MANASI GURUNATH | 401874 | Manasi |
| 28 | \MHATRE SHRUTIKA | 401833 | | 64 | METHA AKASH RAJENDRA | 401875 | |
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| 36 | PATIL YASHWANT SACHIN | 401843 | | Staff Name & Sign: | | | |



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| 13 | DEOKATE PRATIK ARUN | 401816 | <i>Pratik</i> | 49 | SINGH BILANUPRATAP | 401857 | |
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| 16 | GOKUL NARAYANAN | 401819 | | 52 | VARTAK JAYDEEP NARESH | 401861 | |
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| 31 | MOHITE SAHIL RAJENDRA | 401836 | | 67 | GADE BHAVESH | 401611 | |
| 32 | MOHITE SIDDHESH | 401837 | <i>Siddhesh</i> | 68 | MAVID VARGHESE | 401728 | |
| 33 | \MUSKAN SAXENA | 401838 | | 69 | GLADSON NADAR | 401734 | |
| 34 | NAIK SWARAJ PRASHANT | 401840 | | 70 | VISHAL VINCENT | 401762 | |
| 35 | \NAIR SHRUTI SHIVADAS | 401842 | | Present # | | Absent # | |
| 36 | PATIL YASHWANT SACHIN | 401843 | <i>Yashwant</i> | Staff Name & Sign: | | | |

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| 21 | LAKHAPATI SHRIRAJ SHIVPRA | 401826 | | 57 | SAMANT PRANAV ABHIJEET | 401868 | <i>Pradav</i> |
| 22 | MAHAJAN KUNJAL MAHENDRA | 401827 | | 58 | OZA SHIVAM RAJESH | 401869 | |
| 23 | DENNIS DAVIS MALPAN | 401828 | | 59 | GUNTI SANJANA NARENDRA | 401870 | |
| 24 | \MALPURE SHRUTI AVINASH | 401829 | | 60 | KHEDEKAR AMOGH VAIBHAV | 401871 | |
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| 31 | MOHITE SAHIL RAJENDRA | 401836 | | 67 | GADE BHAVESH | 401611 | |
| 32 | MOHITE SIDDHESH | 401837 | <i>Siddesh</i> | 68 | MAVID VARGHESE | 401728 | |
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| 34 | NAIK SWARAJ PRASHANT | 401840 | | 70 | VISHAL VINCENT | 401762 | |
| 35 | \NAIR SHRUTI SHIVADAS | 401842 | | Present # | | Absent # | |
| 36 | PATIL YASHWANT SACHIN | 401843 | | Staff Name & Sign: | | | |



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

Brief Activity/Event Report

Name of the Department/ Institute level Committee: IEI student chapter

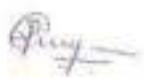
1. **Name of the Activity/Event** : Technical Webinar- “MINI PROJECT POSTER PRESENTATION COMPETITION ”
2. **Activity/Event Venue & Date** : MICROSOFT TEAMS, 12TH FEBRUARY 2022
3. **Nature of Participants** : Students of Electrical Department
4. **Number of Participants** : 48
5. **Student Coordinators** : IEI council Student Chapter
6. **Staff Coordinator** : Mrs. Divya Sajeesh
7. **Brief Summary of the Activity/Event (in maximum 500 words):**

Objectives : 1. To develop poster making knowledge by giving a platform to present their posters.
2. To develop presentation skills and create self confidence to talk in front of whole class.

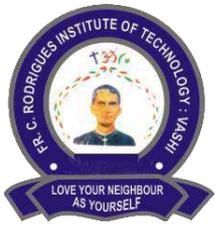
- a. **Technical Description** : Following whatsapp message was circulated among the students to inform them about the webinar



- b. **Outcomes** : 1. Students were able learn how to prepare poster and how to present it.
2. Students gain self-confidence by participating in the event.
3. Coordinators were able develop their skill to organise the event


Staff Coordinator


HOD



Agnel Charities

Fr. C. Rodrigues Institute of Technology

Vashi, Navi-Mumbai

c. Summary of Feedback :

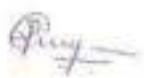
| Sr.No | Questions | | | | | |
|-------|---|--------------------------------|-------------------------------|------------------------|----------------------------------|-----------------------------------|
| 1 | How useful was the competition for developing knowledge in the area of poster creation? | Extremely useful 50% | Somewhat useful 50% | Neutral 3.7% | Somewhat not useful -- | Extremely not useful -- |
| 2 | Whether the results was properly given? | Yes 100% | | No -- | | |
| 3 | How do you rate the arrangement of competition? | 5 37% | 4 48% | 3 15% | 2 -- | 1 -- |

d. Action to be Taken based on Feedback: More such competitions has to be conducted.

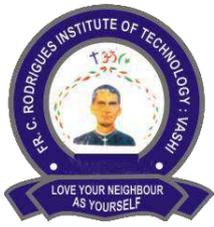
8. Activity / Event Photograph :



Glimpse of the webinar


 Staff Coordinator


 HOD



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Vashi, Navi-Mumbai



Sample poster from the competition

Staff Coordinator

HOD



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Brief Activity/Event Report

Name of the Department/ Institute level Committee: IEEE FCRIIT Student chapter

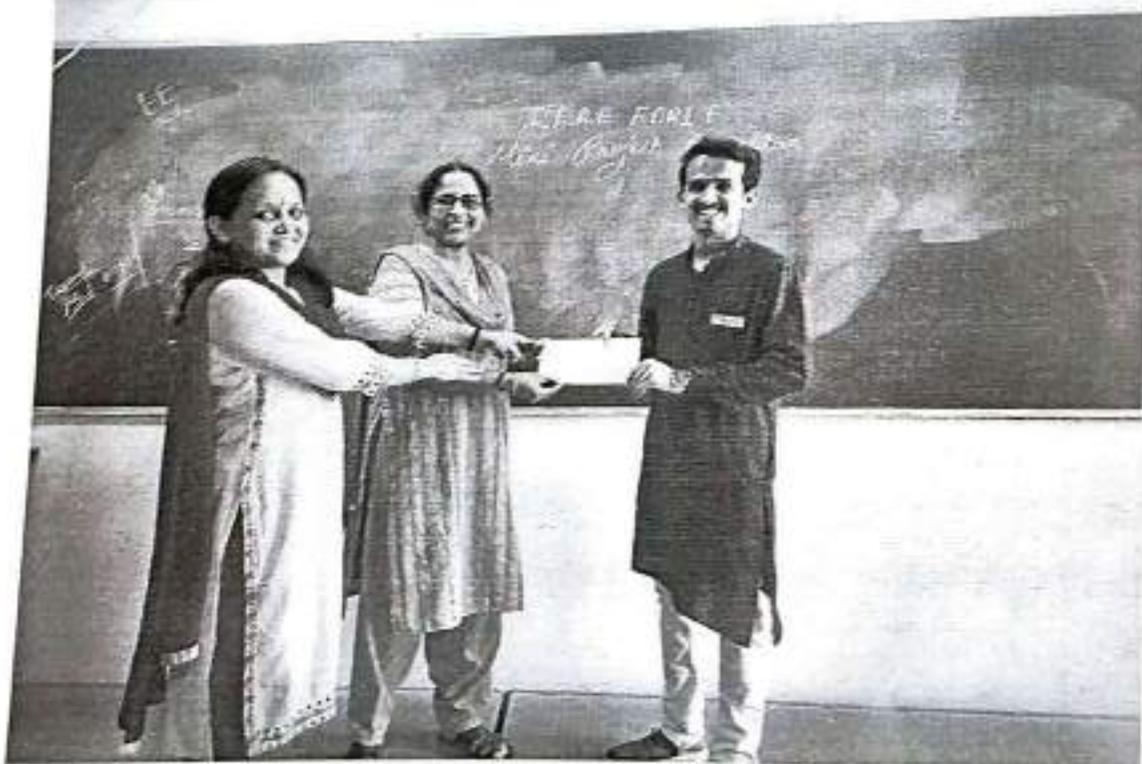
1. **Name of the Activity/Event** : Mini Project Competition 2022
2. **Activity/Event Venue & Date** : Google meet, 12-02 2022
3. **Nature of Participants** : Students of Engineering
4. **Number of Participants** : 60
5. **Student Coordinator** : Ms Neha Mandelkar and Ms Divya Vyas
6. **Staff Coordinator** : Dr. Mini Rajeev
7. **Brief Summary of the Activity/Event (in maximum 500 words):**
 - a. **Objectives:** The competition aims at presenting the mini project individually or along with a team. The objective of the event was to provide an opportunity to the students to showcase their talent, creative, technical and presentation skills.
 - b. **Technical Description:** The event "Mini Project Competition" was organized on 12th February 2022 at 6 pm IST. The competition was divided into 2 tracks- IT/CS and EXTC/Electrical. The competition commenced by welcoming the participants and introducing the Evaluators of the respective two tracks- Mr. Karan Balkar(CS & IT) and Prof. Anindita Samanta(EXTC & Electrical). The competition started with participants presenting their ppt and working projects within 10 mins, followed by a short 5 minutes of Q/A session by the evaluator. After the end of all the presentations, the evaluators gave feedback and suggestions to all the participants, as well as encouraged and congratulated them for their active participation. The event was then concluded with a vote of thanks along with the dates of the result being declared by the council members.
 - c. **Outcomes:** The event was conducted for the students of FCRIIT. The evaluator cum judge Mr. Karan Balkar and Prof. Anindita Samanta gave an informative and insightful view about the pros and cons each project could have, also mentioning more innovative ideas which can be added and the stability the project has in the

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current market. Participants were given a clear idea and fair judgement to their project providing them a clearer view on the negatives and positives of their implemented ideas.

- d. **Summary of Feedback:** All the students took the competition with utmost sincerity and gave their best. They also took all the feedback from the evaluator in a positive way. The event was considered informative and well-received, prompting them to participate in similar future events.
- e. **Action to be Taken based on Feedback:** In the future, we plan to hold more competitions like this giving students a platform to showcase their talents and ideas.

8. Activity / Event Photograph :



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WINNER



Austin Cardoza



Brian Mendes



Hansel Dsouza

RUNNER UP



Aditi Ambastkar



Atharva Pasalkar

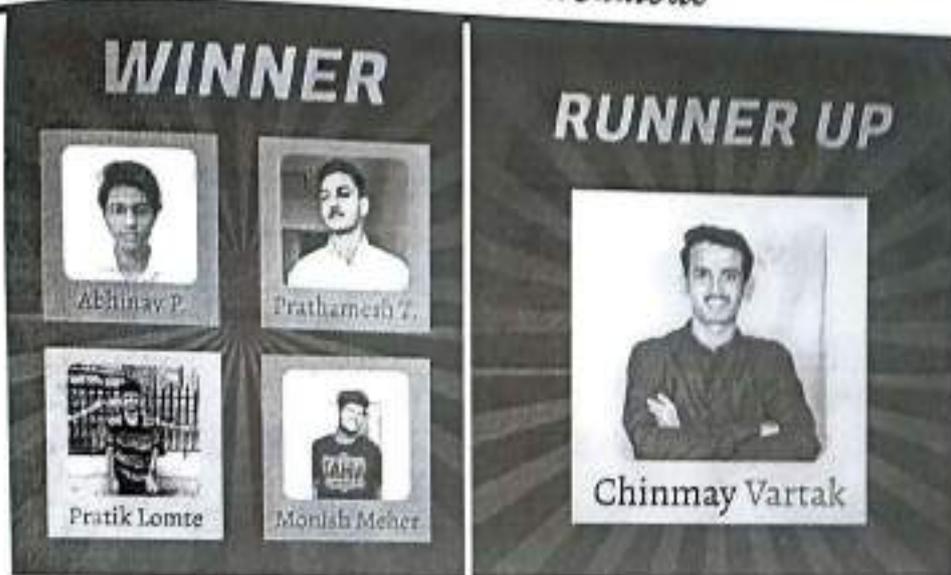


Payal Chatterjee



Shrudhi C.

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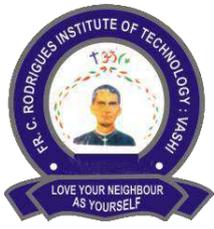


Neha Mandelkar
Student Coordinator

Divya Vyas
Student Coordinator

Dr. Mini Rajeev
Faculty in charge

Dr. Bindu S
HOD



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Brief Activity/Event Report

Name of the Department/ Institute level Committee: IEI student chapter

1. **Name of the Activity/Event** : Technical Webinar- “**FEMM COURSE** ”
2. **Activity/Event Venue & Date** : Google Meet, 15th ,16th ,22th,23th January 2022
3. **Nature of Participants** : **Students of Electrical Department**
4. **Number of Participants** : 32
5. **Student Coordinators** : **IEI council**
6. **Staff Coordinator** : Mrs. Divya Sajeesh
7. **Brief Summary of the Activity/Event (in maximum 500 words):**

Objectives : 1. To develop practical knowledge of solving magnetic problems in machines
2. To develop solving of different magnetics, flux, related problems on FEMM and Octave software for simulation with coding like matlab.

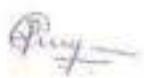
- a. **Technical Description** : Following whatsapp message was circulated among the students to inform them about the webinar



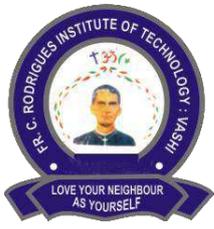
- b. **Outcomes** : Students were able learn the simulation of magnetic circuits
: Coordinators were able develop their skill to organise the event

- c. **Summary of Feedback** :

| Sr.No | Questions | | | | | |
|-------|-----------|--|--|--|--|--|
| | | | | | | |


Staff Coordinator


HOD



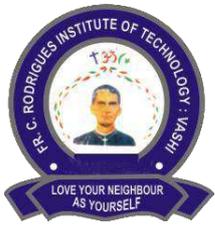
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| | | | | | | |
|---|---|--------------------------------|-------------------------------|------------------------|---------------------------|----------------------------|
| 1 | How useful was the session for developing knowledge in the area of magnetics? | Extremely useful 48% | Somewhat useful 48% | Neutral 3.7% | Somewhat not useful -- | Extremely not useful -- |
| 2 | Whether the session was beneficial for problem solving skills in the simulation of circuit? | Yes 100% | | | No -- | |
| 3 | How do you rate the webinar? | 5 37% | 4 48% | 3 15% | 2 -- | 1 -- |

d. **Action to be Taken based on Feedback:** More such courses has to be conducted.

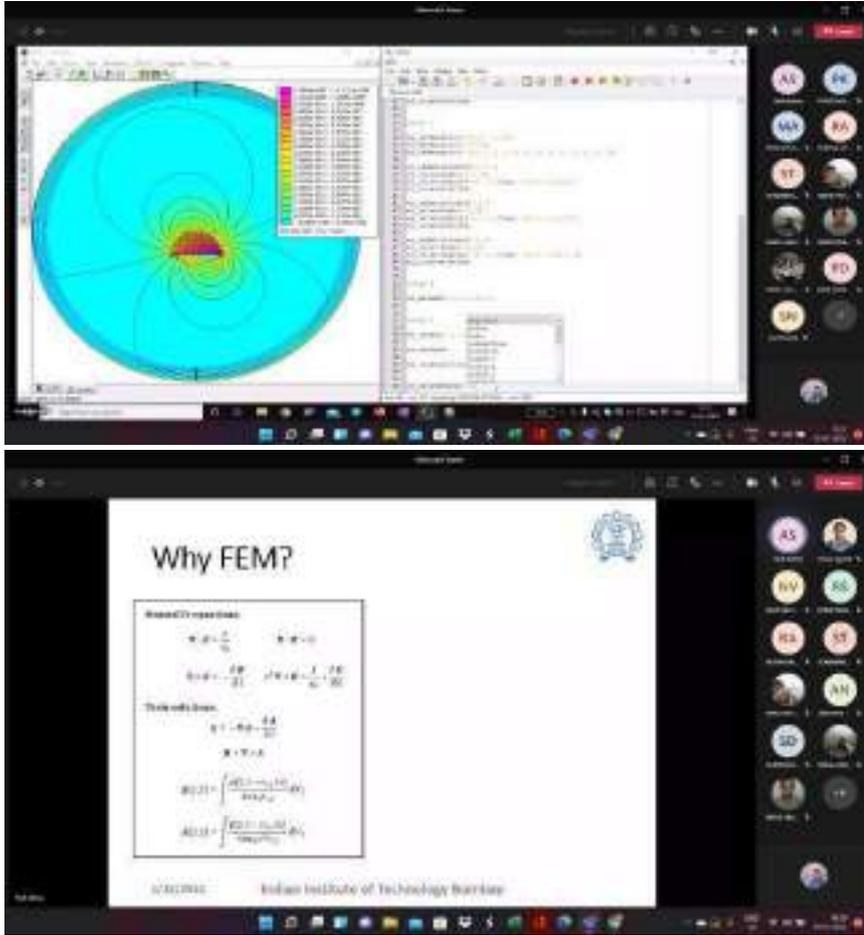
Staff Coordinator

HOD



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8. Activity / Event Photograph :

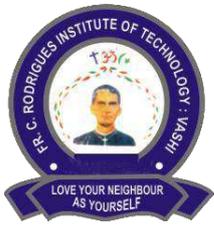


Glimpse of the webinar

9. Attendance of the webinar

Staff Coordinator

HOD



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Vashi, Navi-Mumbai

| Timestamp | Name | Roll No. | Branch | Semester |
|---------------------|----------------------|----------|--------------------|----------|
| 15/01/2022 17:02:03 | Parth Shinde | | 3020153 EKTG | Sem-4 |
| 15/01/2022 17:03:40 | Ashwinak Namikar | | 4020125 Electrical | 4 |
| 15/01/2022 17:06:00 | Ashjeet Singh | | 401856 Electrical | 6 |
| 15/01/2022 17:06:54 | Tejas Sonawane | | 201858 Mechanical | 8 |
| 15/01/2022 17:07:00 | Hirshik Wani | | 4019153 Electrical | 6 |
| 15/01/2022 17:07:45 | Hrush D. Surve | | 4019148 Electrical | 6 |
| 15/01/2022 17:24:02 | Smit Bende | | 4019104 Electrical | 6 |
| 15/01/2022 17:38:02 | Komal Devchand Patil | | 4019134 Electrical | 6 |
| 15/01/2022 17:38:15 | Ashlesh Mendon | | 401831 Electrical | 8 |
| 15/01/2022 17:38:36 | Nel Jonathan Salins | | 201866 Mechanical | 8 |
| 15/01/2022 17:38:45 | Parth Shinde | | 3020153 EKTG | Sem-4 |
| 15/01/2022 17:39:44 | Sudhi Nair | | 4019129 Electrical | 6 |

| Timestamp | Name | Roll No. | Branch | Sem. |
|---------------------|----------------------|----------|-------------------------------|-------|
| 16/01/2022 17:02:00 | Quintus Mendonca | | 201834 Mechanical | 8 |
| 16/01/2022 17:02:01 | Ashjeet Singh | | 401856 Electrical | 6 |
| 16/01/2022 17:02:38 | Smit Bende | | 4019104 Electrical | 6 |
| 16/01/2022 17:06:25 | Ashlesh Mendon | | 401831 Electrical Engineering | 8 |
| 16/01/2022 17:06:38 | Shrut Chakraborty | | 4020103 Electrical | 4 |
| 16/01/2022 17:10:01 | Parth Shinde | | 3020153 EKTG | Sem-4 |
| 16/01/2022 17:47:19 | Komal Devchand Patil | | 4019134 Electrical | 6 |
| 16/01/2022 17:48:00 | Adhya Deokar | | 201816 Mechanical | 8 |
| 16/01/2022 17:48:21 | Sudhi Nair | | 4019129 Electrical | 6 |

| Timestamp | Name | Roll no. | Branch | Sem. |
|---------------------|----------------------|----------|---------------------|-------|
| 22/01/2022 17:08:15 | Smit Bende | | 4019104 Electrical | 6 |
| 22/01/2022 17:08:55 | Shrut Chakraborty | | 4020103 Electrical | 4 |
| 22/01/2022 17:13:43 | Quintus Mendonca | | 201834 Mechanical | 8 |
| 22/01/2022 17:14:01 | Ashlesh Mendon | | 401831 Electrical | 8 |
| 22/01/2022 17:14:07 | Komal Devchand Patil | | 4019134 Electrical | 6 |
| 22/01/2022 17:18:01 | Sudhi Nair | | 4019129 Electrical | 6 |
| 22/01/2022 17:19:22 | Ashjeet Singh | | 401856 Electrical | 6 |
| 22/01/2022 17:33:31 | Parth Shinde | | 3020153 EKTG | Sem-4 |
| 22/01/2022 17:38:38 | Rohit shilke | | 4020141 Electricals | 4 |

| Timestamp | Name | Roll No. | Branch | Sem. |
|---------------------|----------------------|----------|--------------------|------|
| 23/01/2022 17:10:08 | Ashjeet Singh | | 401856 Electrical | 6 |
| 23/01/2022 17:10:19 | Quintus Mendonca | | 201834 Mechanical | 8 |
| 23/01/2022 17:15:07 | Smit Bende | | 4019104 Electrical | 6 |
| 23/01/2022 17:24:28 | Shrut Chakraborty | | 4020103 Electrical | 4 |
| 23/01/2022 17:29:09 | Komal Devchand Patil | | 4019134 Electrical | 6 |
| 23/01/2022 17:30:05 | Sudhi Nair | | 4019129 Electrical | 6 |

[Signature]

Staff Coordinator

Bindus

HOD



ACTIVITY REPORT

1. Name of activity/ event : **Project Poster Presentation Competition**
2. Activity/ Event Venue & Date: 22nd March 2022 , Second Floor Seminar Hall
3. Nature of Participants : Final year Electrical Engineering students
4. No. of Participants : 70 students+ 16 faculty
5. Student Coordinator : Class Representative
6. Staff Coordinator : Seema Jadhav
7. Brief Summary of the Activity/Event
 - i. Objectives: Provide platform for students to exhibit their project along with poster to enhance their communication skills and presentation skills.
 - ii. Technical Description: Mr. Nishil Lathia, Alumni 2020-21 batch was invited as judge to evaluate the Poster Presentation competition. All faculty from department was also invited to evaluate the project groups. Students of third year were also invited to go through the posters to get ideas for their next year projects.
 - iii. Outcomes:
 1. To provide platform for students to showcase their communication and presentation skills
 2. To select best project for TCS project competition.
 3. To motivate students to participate in Project competitions.
8. Activity / Event Photograph :

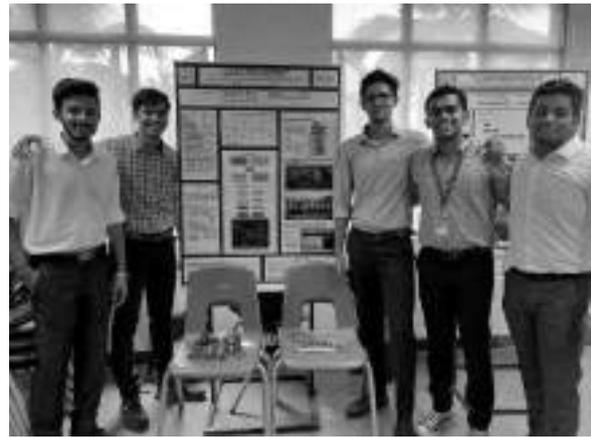




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Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai.

Department of Electrical Engineering



Seema Jadhav
Project Co-ordinator

Dr. Bindu S
HOD



Fr. C. Rodrigues Institute of Technology

Sector - 8A, Vashi, Navi Mumbai - 400 703, INDIA
Telephone : 27771000, 2766 1924, 2766 0618, Fax : 2766 0519
Email : principal@fcrit@gmail.com Website : www.fcrit.ac.in

Date:

22/07/2022

To,
Mr. Nishil Lathia,
Mumbai.

Subject: Thank you Letter for Evaluating Project Poster Presentation Competition

Dear Nishil,

On behalf of the Department of Electrical Engineering, we would like to thank you for evaluating "Project Poster Presentation Competition". We appreciate your efforts and the time you took out from your busy schedule in evaluating the project groups. We are looking forward for more such interactions in future.

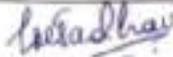
Thanking you,

Dr. Bindu S.
Professor and Head
Department of Electrical Engineering



Department of Electrical Engineering
Project Poster Presentation Competition FH 2022
Evaluation Marks 22/03/2022

| Group No | Project Title | Internal Marks (25) | External Marks (25) | Average Marks (25) |
|----------|---|---------------------|---------------------|--------------------|
| 1 | Model Predictive Controller for Three Phase Multilevel Inverter | 22 | 20 | 21 |
| 2 | Hierarchical Control of DC microgrid | 23 | 21 | 22 (IInd Prize) |
| 3 | CLASSIFICATION OF POWER TRANSMISSION LINE FAULT TYPES AND LOCATION USING MACHINE LEARNING TECHNIQUES | 19 | 21 | 20 |
| 4 | Design and Development of Toroidal Core Winding Machine with Digital Interface | 21 | 20 | 20.5 |
| 5 | Design and Development of Single Phase Grid-Tied Inverter for DC Microgrid application. | 20 | 22 | 21 |
| 6 | Compact and Programmable Dc-Dc converter for FPGA power supply | 22 | 21 | 21.5 |
| 7 | Cascaded H Bridge Multi Level Inverter | 20 | 19 | 19.5 |
| 8 | Design And Control Of Switched Reluctance Motor Drive For EV Application | 21 | 21 | 21 |
| 9 | DATA-DRIVEN MODELLING OF LITHIUM-ION BATTERY | 23 | 20 | 21.5 |
| 10 | Off-Board Charging of an EV Battery using PV Array | 21 | 19 | 20 |
| 11 | Implementation of Hybrid Inverter | 20 | 20 | 20 |
| 12 | Compact Power Supply for Induction Heating in Shrink fitting Application | 23 | 21 | 22 (IInd Prize) |
| 13 | Condition monitoring of Electrical and moving parts of Solar Water pumping system using Electrical signature analysis | 18 | 20 | 19 |
| 14 | Design and Development of a small scale EMU model with loco-pilot cabin emulation | 23 | 23 | 23 (Ist Prize) |
| 15 | Design and Control of BLDC Drive for Electric Vehicle Application | 20 | 21 | 20.5 |
| 16 | Design and implementation of Smart Energy Meter | 13 | 20 | 16.5 |
| 17 | SOLAR ROOF TOP PANEL SIZING FOR RESIDENTIAL PURPOSES | 13 | 19 | 16 |
| 18 | IMPLEMENTATION OF MAXIMUM POWER POINT TRACKING SYSTEM (MPPT) WITH QUAD BOOST CONVERTER FOR SOLAR PV | 18 | 20 | 19 |


Project Coordinator


HOD Dr. BINDU S



Department of Electrical Engineering

Project Poster Presentation Evaluation FH2022

All teachers are requested to evaluate the BE Project Posters as per the list given below on 22/03/2022 between 9.30-12.30 pm.

| Sr. No. | Time | Project Groups | Internal Evaluators |
|---------|----------------|----------------|---|
| 1. | 9:30-10:00 am | 1,2,3 | Dr. Mahendra Rane Mrs. Seema Jadhav |
| 2. | 10:00-10:30 am | 4,5,6 | Dr. Mini N Mrs. Rashmi Kale |
| 3. | 10:30-11:00 am | 7,8,9 | Dr. Sangeeta Das Mr. Abhishek Shiwalkar |
| 4. | 11:00-11:30 am | 10,11,12 | Ms. Divya S Mr. Rajendra Soni |
| 5. | 11:30-12:00 am | 13,14,15 | Mrs. Ruchi Harchandani Mrs. Harshada Bhosale |
| 6. | 12:00-12:30 pm | 16,17,18 | Dr. Bindu R Ms. Misbah Khan |

Seema Jadhav

Seema Jadhav
Project Coordinator

Bindu S

Dr. Bindu S
H.O.D

Poster Presentation 22/3/22

Fr. C. RODRIGUES INSTITUTE OF TECHNOLOGY, Vashi - Electrical Engg. Dept

PH 2022 Sem: 8

SUB:

Date:

Time:

LECT/ TUT/ PRACT

| Sl. # | Batch 1 | | | Batch 2 | | |
|-------|-----------------------------|--------|------------|--------------------|--------------------------|----------|
| | Roll # | Sign | Sr. # | Roll # | Sign | |
| 1 | ABHISAN SELVARAJ | 401802 | S. Abhisan | 37 | PINTO DYLAN DOMING | 401844 |
| 2 | ABUBAKKAR SIDDIQUI | 401803 | Abubakar | 38 | QURESHI RAHEEL RIYAZ | 401845 |
| 3 | AGNEL AUSTIN SUDHAKAR | 401804 | Agnel's | 39 | R. ANIKETH | 401846 |
| 4 | AJNALKAR AAKASH V. | 401805 | Ajnal | 40 | RAJPUT VEDANT UDAYSINGH | 401847 |
| 5 | AMBILKAR BHRADDHA PRADIP | 401806 | Bhraddha | 41 | REUBEN VARGHESE JOSE | 401848 |
| 6 | ANTO GNANA NILESH | 401807 | Anto | 42 | SALVI RAJIT BHIMRAO | 401849 |
| 7 | ANVEKAR SHIVAM SATISH | 401808 | Anvekar | 43 | SARKAR ANIRBAN | 401850 |
| 8 | BAKSHI RISHAB | 401809 | Bakshi | 44 | SARNAIK SHREYAS | 401851 |
| 9 | BIHOLE PRATEK NILKANTH | 401810 | Bihole | 45 | SARUK AVINASH MARUTI | 401852 |
| 10 | CHAUDHARY HARSH KUMAR | 401811 | Chaudhary | 46 | SHAIKH MOHAMMED OWAIS A. | 401853 |
| 11 | CHAVAN BHURHAM | 401812 | Chavan | 47 | SHINDE SHREYA | 401854 |
| 12 | CRUZ DENZIL NICHOLAS | 401813 | Cruz | 48 | SILVIYA JOY | 401855 |
| 13 | DEOKATE PRATIK ARUN | 401816 | Deokate | 49 | SINGH BHANUPRATAP | 401857 |
| 14 | LEONARD FELIX D'SOUZA | 401817 | Leonard | 50 | TAWDE UDAYRAJ DIGAMBER | 401859 |
| 15 | GILBERT JAMES | 401818 | Gilbert | 51 | THALE AMEYA SUSHIL | 401860 |
| 16 | GOKUL HARAYANAN | 401819 | Gokul | 52 | VARTAK JAYDEEP NARESH | 401861 |
| 17 | IGORULE SANKITA VISHWANATH | 401821 | Igorule | 53 | WAN: GAURAV | 401862 |
| 18 | JAISWAL ADITYA | 401822 | Jaiswal | 54 | VBHIVSANE SUPRIYA | 401864 |
| 19 | KADAM MOHIT SURENDRA | 401823 | Kadam | 55 | ZARIF MOHMAD SALIM | 401866 |
| 20 | BARLAZI SHAHEEDUDDIN RIYAZ | 401825 | Barlazi | 56 | CHAUDHARI RASDKA BABAN | 401867 |
| 21 | LAKHAPATI BHIRAJ SHIVPRASAD | 401826 | Lakhapati | 57 | SAMANT PRANAV ABHIJEET | 401868 |
| 22 | MAHAJAN KUNJAL MAHENDRA | 401827 | Mahaajan | 58 | OZA SHIVAM RAJESH | 401869 |
| 23 | DENNIS DAVIS MALPAN | 401828 | Dennis | 59 | GUNTI SANJANA NARENDRA | 401870 |
| 24 | MALPURE SHRUTI AVINASH | 401829 | Malpure | 60 | KHEDEKAR AMOGH VAIBHAV | 401871 |
| 25 | MARIA SNEHAL | 401830 | Maria | 61 | DERE ONKAR RAJIV | 401872 |
| 26 | MENDON AKHILESH SUNIL | 401831 | Mendon | 62 | INDALKAR PRASHANT SANDIP | 401873 |
| 27 | MENON SHIKHA | 401832 | Menon | 63 | DESAL: MAYASI GURUNATH | 401874 |
| 28 | MHATRE SHRUTIKA | 401833 | Mhatre | 64 | METHA AKASH RAJENDRA | 401875 |
| 29 | MHATRE YADNESH RAMESH | 401834 | Mhatre | 65 | KAMATH KRITHIKA SATISH | 401876 |
| 30 | MISRA AYUSHI | 401835 | Misra | 66 | SHINDE VIJAY RAJU | 401877 |
| 31 | MOHITE SARIL RAJENDRA | 401836 | MoHITE | 67 | GADE BHAVESH | 401611 |
| 32 | MOHITE SIDDHESH | 401837 | MoHITE | 68 | MAVID VARGHESE | 401728 |
| 33 | MUSKAN SAXENA | 401838 | Muskan | 69 | GLADSON NADAR | 401734 |
| 34 | NAIK SWARAJ PRASHANT | 401840 | Naik | 70 | VISHAL VINCENT | 401762 |
| 35 | UNAIR SHERATI SHIVADAS | 401842 | Unair | Present # | | Absent # |
| 36 | PATEL YASHWANT SACHIN | 401843 | Patel | Staff Name & Sign: | | |



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Brief Activity/Event Report

Name of the Department/ Institute level Committee: IEEE FCRIIT Student chapter

1. Name of the Activity/Event : Poster Presentation
2. Activity/Event Venue & Date : AX209, 10th March 2022
3. Nature of Participants : Students of Engineering
4. Number of Participants : 15
5. Student Coordinator : Ms Neha Mandelkar
6. Staff Coordinator : Dr. Mini Rajeev
7. Brief Summary of the Activity/Event (In maximum 500 words):
 - a. **Objectives:** The poster presentation which was in collaboration with student council which basically aims at showcasing a cause which conveys a technical theme individually or along with a team of maximum three members. The objective of the event was to provide an opportunity to the students to present their talent, creative, technical and presentation skills.
 - b. **Technical Description:** The event "Poster Presentation" was organized on 10th March 2022 at 11 am IST. The judges for the competition were- Mr. Joshua Michael from EXTC Department and Ms. Sharlene Rebeiro from IT Department. The participants had the liberty of making their own templates for the posters. The competition started with the participants having a 10 mins of presentation time. The judges gave feedback to all the participants, as well as encouraged and congratulated them for their active participation.
 - c. **Outcomes:** The event was conducted for the students of FCRIIT. The students were given a platform to present their technical ideas in a visually appealing and creative way. The participants were given a clear idea and fair judgement for their posters and presentation skills.
 - d. **Summary of Feedback:** All of the students approached the competition with enthusiasm and gave it their all. They also took all of the judge's feedback



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positively. The event was deemed informative and well-received, prompting them to participate in similar future events.

- e. **Action to be Taken based on Feedback:** We intend to hold more competitions like this in the future to give students a chance to display their skills, talents and ideas.

8. Activity / Event Photograph :





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Student Coordinator

Neha Mandelkar.

Faculty in charge

Dr. Mini Rajeev

HOD

Dr. Bindu S



Fr. C. Rodrigues Institute of Technology

Department of Electrical Engineering

Sector - 9A, Vashi, Navi Mumbai – 400 703, INDIA.

Telephone: 022-2777 1000, 2766 1924, 2766 0618. Fax: 2766 0619

Website: www.fcrit.ac.in

Brief Activity/Event Report

1. Name of the Activity/Event : Research Proposal writing and open access publishing
2. Activity/Event Venue & Date : April 11th 2022
3. Nature of Participants : Faculty members of Electrical Engineering Department
4. Number of Participants : 09
5. Student Coordinator : N A
6. Staff Coordinator : Ruchi Harchandani
7. Experts : 1. Dr Sushil Thale
2. Dr Mini Rajeev

8. Brief Summary of the Activity/Event :

Objectives:

Participants will learn to write research proposal and will get information about open access publishing.

Outcomes:

Research proposal writing was discussed also participants got the information about open access publishing.

a. Summary of Feedback :

| | |
|----|---|
| 1. | Do you feel information given during the session will be useful ? 1. Yes (100%) 2. No (0%) 3. May be (0%) |
| 2. | Do you feel the session will help you planning your research better? 1. Yes (88.9%) 2. No (0%) 3. Maybe (11.1%) |
| 3. | How do you rate the overall effectiveness of the talk on Open Access Publishing Initiative? Average rating (4.89/5) |
| 4. | How do you rate the overall effectiveness of the talk on Research Proposal Writing? Average rating (4.78/5) |

b. Action to be Taken based on Feedback:

No specific feedback

Ruchi
Staff Coordinator

R. Sushil
HOD - EEE



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Department of Electrical Engineering

Sector - 9A, Vashi, Navi Mumbai - 400 703, INDIA.

Telephone: 022-2777 1000, 2766 1924, 2766 0618. Fax: 2766 0619

Website: www.fcrit.ac.in

9. Activity / Event Photograph:



10. Event Attendance: *Next page*

Shiv Ruchi H
Staff Coordinator

Budhu
HOD



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Department of Electrical Engineering

Sector - 9A, Vashi, Navi Mumbai - 400 703, INDIA.

Telephone: 022-2777 1000, 2766 1924, 2766 0618. Fax: 2766 0619

Website: www.fcrit.ac.in

Date: 11/4/22

Fr. C. Rodrigues Institute of Technology
Department of Electrical Engineering

R & D activity

| Sr. No. | Name of the Staff | Signature |
|---------|----------------------|-----------|
| 1 | Dr. BINDU S. | |
| 2 | Dr. SUSHIL THALE | |
| 3 | Dr. MINI RAJEEV | |
| 4 | Dr. BINDU R. | |
| 5 | Dr. MINI N. | |
| 6 | Dr. MAHENDRA RANE | |
| 7 | Ms. SREEDEVI NAIR | |
| 8 | Ms. RUCHI H. | |
| 9 | Ms. SEEMA JADHAV | |
| 10 | Ms. RASHMI KALE | |
| 11 | Ms. HARSHADA BHOSALE | |
| 12 | Ms. DIVYA S. | |
| 13 | Mr. RAJENDRA SONI | |
| 14 | Mr. ABHISHEK S. | |
| 15 | Dr. SANGEETA DAS | |
| 16 | Ms. MISBAH KHAN | |

Ruchi Hombarkar
(Co-ordinator)

Ruchi H.
Staff Coordinator

B. S. Bhandari
HOD



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Vashi, Navi-Mumbai

Brief Activity/Event Report

Name of the Department/ Institute level Committee:

1. **Name of the Activity/Event** : Workshop on introduction to FPGA
2. **Activity/Event Venue & Date** : Room No AX-211, 12/04/2022
3. **Nature of Participants** : Staff of Electrical Department, FCRIT, Vashi.
4. **Number of Participants** : 11
5. **Staff Coordinator** : Dr Mini K. Namboothiripad
6. **Resource Person** : Dr Mini K. Namboothiripad
7. **Brief Summary of the Activity/Event (in maximum 500 words):**
 - a. **Objectives** : To arrange a session on introduction to FPGA which will be beneficial in long term to use FPGA as a digital controller and also real time or fast computing applications.
 - b. **Technical Description** : The event 'Workshop on introduction to FPGA' was organized on 12th April 2022 at 2.00 pm. The speaker for the event was 'Dr Mini K. Namboothiripad'. The session started with the significance of FPGA as compared to microprocessor and the parameters to be considered for the selection of a controller for a particular application/ algorithm. Also explained the basic structure and the design flow of FPGA and gave an introduction to various tools and languages used for the implementation of an algorithm on FPGA.
 - c. **Outcomes** : The event was beneficial to understand the basic structure, design flow and various tools and languages for the implementation of FPGA. It will help them to use FPGA as a controller / accelerator in long term.
 - d. **Summary of Feedback** : Average rating for the understanding of the basic structure was 4.63 out of 5 and the design flow was 4.5/5. The response summary is attached below.

27/4/22

Staff Coordinator

Budhu
HOD



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1. Name of the faculty

8
Responses

Latest Responses
 "Dr. Bhaik S"
 "Bhavna Kulk"
 "Saurav Jadhav"

2. How effective was the session to understand the basic structure of FPGA?

8
Responses

★★★★★
4.5 Average Rating

3. How effective was the session to understand the Design flow of FPGA?

8
Responses

★★★★★
4.50 Average Rating

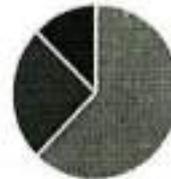
4. Which of the following FPGA programming tools you will be interested to learn further?

- VHDL 1
- Verilog 0
- Intel/Quartus/Altera/Intel/Quartus 0
- Intel/Quartus/Altera/Intel/Quartus 0
- Intel/Quartus/Altera/Intel/Quartus 0



5. In which aspect you are interested to use FPGA?

- Fast computing applications 0
- Control applications 1
- Real-time simulation applications 2
- Any other 1



6. Please give suggestions/Comments for further improvement

7
Responses

Latest Responses
 "Can plan a session gives more emphasis on practical implementation"
 "Excellent Session"
 "One session on application can be taken if possible"

e. Action to be taken based on Feedback: As per the feedback more sessions on application of FPGA to be arranged by giving more emphasis on practical implementation.

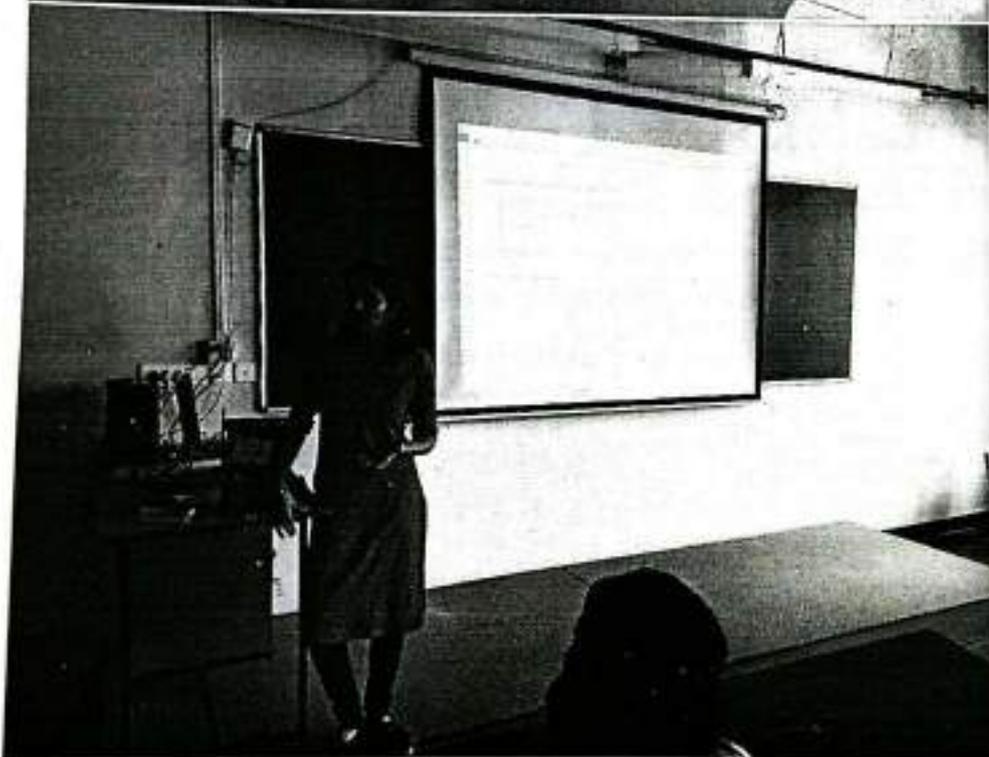
f. Activity / Event Photograph :

27/11/22
Staff Coordinator

Bhavna
HOD



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[Signature]
27/6/22
Staff Coordinator

[Signature]
HOD



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Faculty Meeting organized by
 Electrical Dept.

Date: 12/12/2022
 Time: 10:00 AM

Attendees

- | | |
|-----------------------|---------|
| 1) Dr. Vinay Kulkarni | Present |
| 2) Dr. Kulkarni | Present |
| 3) Mr. Anil Patil | Present |
| 4) Mr. Kulkarni | Present |
| 5) Mr. Anil Patil | Present |
| 6) Mr. Anil Patil | Present |
| 7) Mr. Anil Patil | Present |
| 8) Mr. Anil Patil | Present |
| 9) Mr. Anil Patil | Present |
| 10) Mr. Anil Patil | Present |
| 11) Mr. Anil Patil | Present |

[Signature]
 Staff Coordinator

[Signature]
 HOD



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Brief Activity/Event Report

Name of the Department/ Institute level Committee: Electrical Engineering

1. **Name of the Activity/Event** : Placement Training for TE and BE
2. **Activity/Event Venue & Date:** Every week on Saturday.
3. **Nature of Participants** : All SE and TE students those have opted for placement,
Not higher studies

4. **Staff Coordinator** : Abhishek Shiwalkar
5. **Brief Summary of the Activity/Event (in maximum 500 words):**
 - a. **Objectives** : To train students for campus placement
 - b. **Technical Description** : Tests conducted online using MS TEAM

SECOND YEAR PLACEMENT TRAINING

| Sr. No. | Date | Topic | Subtopic | Number of Students attended TE |
|---------|-----------|--------------------|--|-----------------------------------|
| 1 | 15/1/2022 | General Aptitude | HCF and LCM , Decimal Fractions and Simplification | 64 |
| 2 | 22/1/2022 | General Aptitude | Average, Problems on numbers, Problems on ages | 36 |
| 3 | 29/1/2022 | General Aptitude | Percentage , Profit and Loss , Ratio and Proportion | 36 |
| 4 | 5/2/2022 | Technical Aptitude | Electrical Engineering | 39 |
| 5 | 5/3/2022 | Technical Aptitude | Electrical Engineering | 56 |
| 6 | 19/3/2022 | General Aptitude | Time and Work, Time and Distance, Boats and Streams | 42 |
| 7 | 26/3/2022 | General Aptitude | Problems on Trains, Simple Interest, Compound Interest | 46 |



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THIRD YEAR PLACEMENT TRAINING

| Sr. No. | Date | Topic | Number of Students attended TE |
|---------|-----------|-------------------------|-----------------------------------|
| 1 | 29/1/2022 | Technical Aptitude Test | 66 |
| 2 | 19/3/2022 | Technical Aptitude Test | 51 |
| 3 | 26/3/2022 | Technical Aptitude Test | 46 |
| 4 | 2/4/2022 | Technical Aptitude Test | 61 |
| 5 | 9/4/2022 | Technical Aptitude Test | 62 |

Abhishek Shiwalkar
Staff Coordinator

Dr. Bindu S
HOD



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Brief Activity/Event Report

Name of the Department/ Institute level Committee: IEEE FCRIT Student council

1. **Name of the Activity/Event** : STEM EDUCATION
2. **Activity/Event Venue & Date** : A P sutar (nerul), Modern school (vashi), 4-3-2022
3. **Nature of Participants** : Students of school / students of engineering
4. **Number of Participants** : 200
5. **Student Coordinator** : Ms Neha Mandelkar, Saish Chalke, Anush
6. **Staff Coordinator** : Dr. Mini Rajeev
7. **Brief Summary of the Activity/Event (in maximum 500 words):**

Selected Schools:

1. A P Sutar
N M M C School, 12, Swatantrata Senani Marg, Sector 1A, Shiravane, Nerul, Navi Mumbai, Maharashtra – 400706
2. Modern School
Ashok Shantaram Thakur Marg, Sector 5, Sanpada, Navi Mumbai, Maharashtra 400705, India

IEEE members at the venue:

1. A P Sutar
 - a. Chinmay Varthak
 - b. Shivani
 - c. Rishabh
 - d. Saish
 - e. Harsh
 - f. Pranav
 - g. Yash Barhate
 - h. Anush
 - i. Devanshi Singh
2. Modern School
 - a. Neha M
 - b. Anika
 - c. Devanshi Nigam
 - d. Divya Vyas
 - e. Saurabh



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- f. Vighnesh D
- g. Aryav
- h. Purva

Objectives: The main objective of the event was to reveal the knowledge of basic components of electrical circuits and demonstrate some basic mini-projects to school students which will increase their knowledge and develop some interest.

Technical Description:

The event "STEM education" was organized on 4th March 2022 at Modern School between 8:30 to 9:30 and AP Sutar from 11:30 to 12:30. All the students of the IEEE council were welcomed to teach the student of their respective schools as STEM professionals. The seminar covered four vital mini projects like LED lighting circuits with battery and resistors, DC Motor Dynamo, Solar Panel Electrical Energy Generation, and Burglar Alarm and gave a short presentation on each mini-project by explaining various projects with their designs and circuits executing in different cases. Students got to know the role of various devices in the making of projects.

In the end, a question-answer session was organized where all the students got their doubts cleared.

Outcomes:

- a. The event was conducted by the students of FCRIT. The engineering students gave an informative and insightful presentation about the circuits and some projects.
- b. **Summary of Feedback:** the STEM learning experience fostered a learning environment that extended and deepened STEM content learning while providing opportunity and access to content, settings, and materials that most middle-level students otherwise would not have access to. Students had a fun learning experience while being provided with the deep knowledge in more of a comprehensible and amusing way. Most importantly, all the essential concepts were well comprehended and understood by the students providing them a clearer way to the details.



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Activity / Event Photograph :





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Alina
President Coordinator
Dr. M.

Mini Rajeev
Faculty in charge
Dr. Mini Rajeev

Bindu S
HOD
Dr. Bindu S



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Brief Activity/Event Report

Name of the Department/ Institute level Committee: IEEE FCRIIT X Student Council

1. Name of the Activity/Event : Technical Quiz
2. Event Venue & Date : FCRIIT Vashi, 10th March 2022
3. Nature of Participants : Engineering Students
4. Number of Participants : 45
5. Student Coordinator : Ms Neha Mandelkar
6. Staff Coordinator : Dr. Mini Rajeev
7. Brief Summary of the Activity/Event (in maximum 500 words):

Objectives: The objective of conducting the technical quiz goes to enlighten students more about their streams so that they could be deeply rooted with the concepts that they are learning in their fields with a competitive twist.

Technical Description:

The event "Technical Quiz" was organized on 10th March 2022 at FCRIIT college between 10:00AM to 11:00 AM. All the students of the IEEE council were assigned duties such as invigilation and evaluation. The quiz covered vital topics of engineering curriculum like Physics, Computer Science, Electronics, IT and Electrical questions.

The quiz consisted of three rounds. First two rounds were of 20 mins and 15 mins respectively based on the technical knowledge related to the student's stream. (MECH/ELEC/COMPS/IT/EXTC). Third round was of 25 mins based on general knowledge and aptitude.

Outcomes:

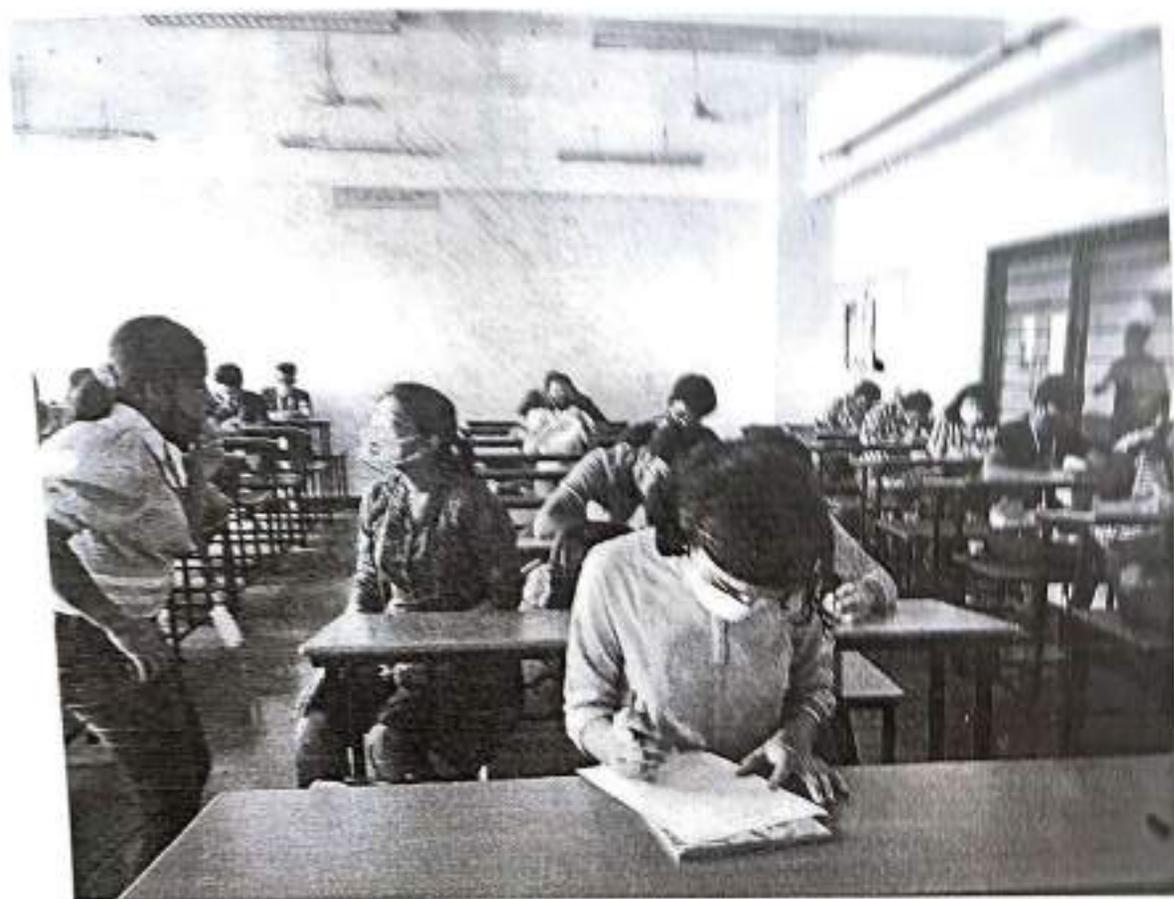
- a. The event was conducted by the IEEE student council of FCRIIT.
- b. Winners: Yash P – IT 3rd year and Parth Phalke – IT 3rd year
- c. **Summary of Feedback:** The Technical Quiz brought a new interest in students for learning the engineering curriculum at a deeper level and develop better understanding of the core concepts.



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e. Action to be Taken based on Feedback: We will organize more workshops and events like this in the future. It was fun event
Activity / Event Photograph :





Student Coordinator
Neha M. Mandelkar

Faculty In charge
Dr. Mini Rajeev

HOD
Dr. Bindu S



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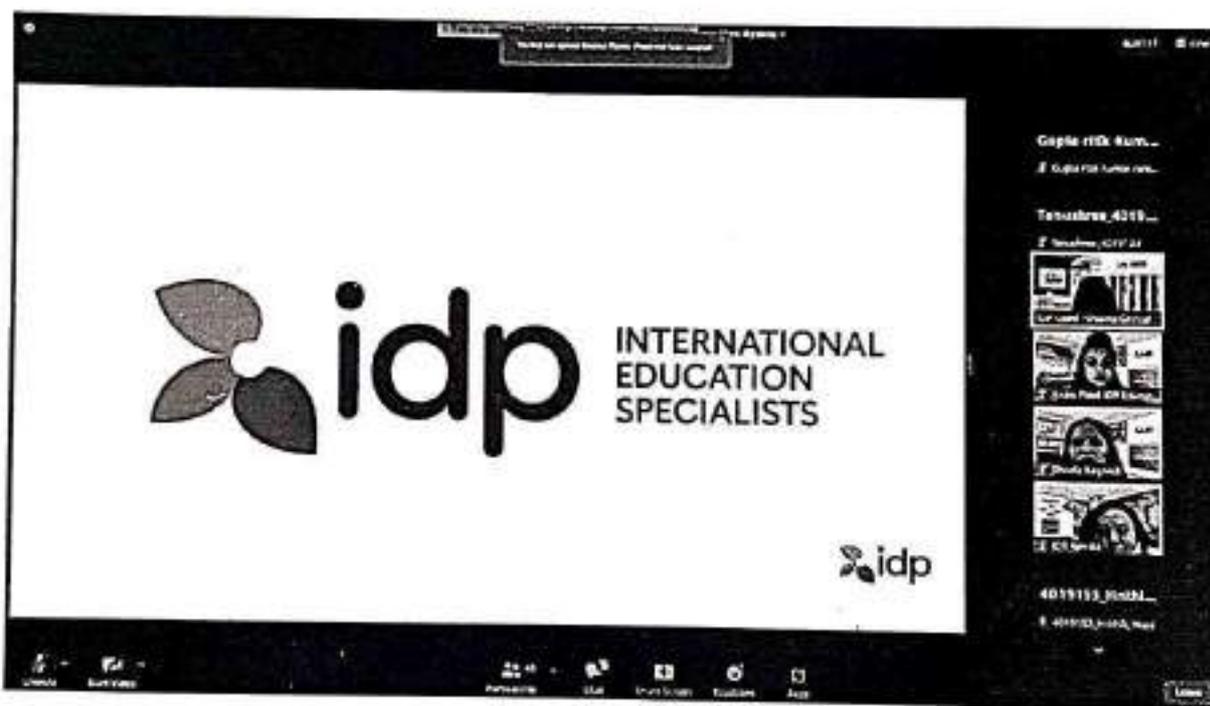
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Brief Activity/Event Report

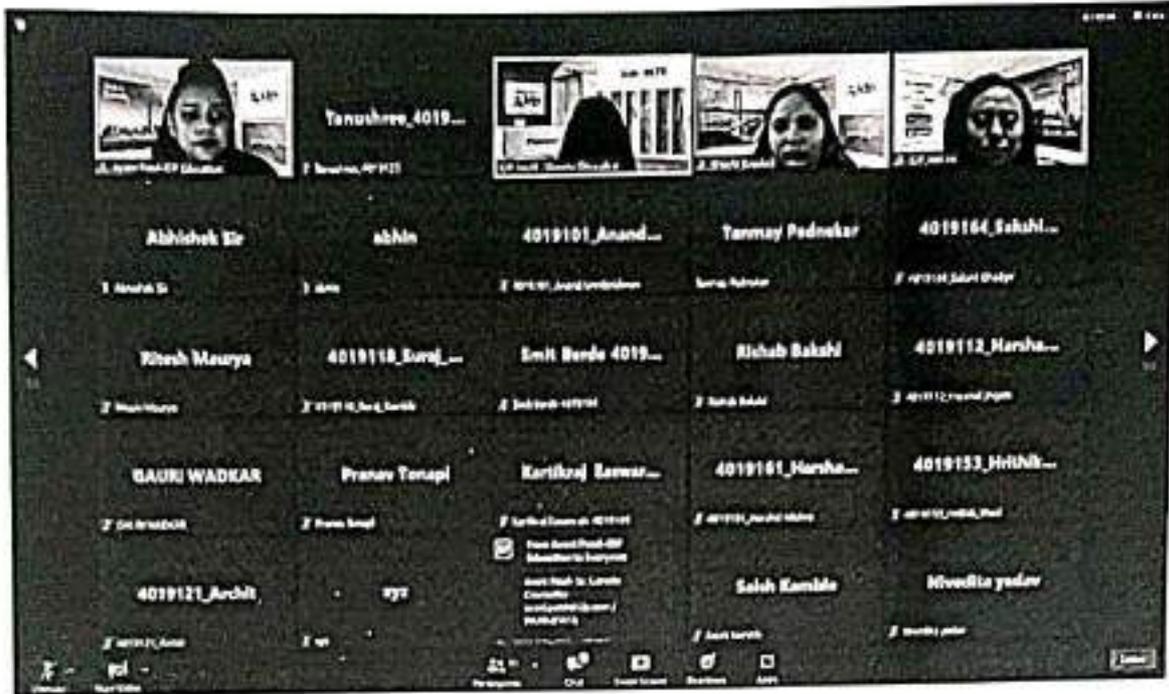
Name of the Department/ Institute level Committee: **Electrical Engineering**

1. Name of the Activity/Event : IDP's Webinar
2. Activity/Event Venue & Date : Zoom meeting on 24th January, 2021
3. Nature of Participants : All TE students
4. Staff Coordinator : Abhishek Shiwalkar
5. Brief Summary of the Activity/Event :
 - a. Objectives : To enlighten students regarding higher studies in different countries abroad
 - b. Technical Description : The webinar highlighted the benefits and steps to studying abroad in countries like Canada, UK, USA, New Zealand, Australia and Ireland, as well as the entrance tests & application process and scholarship opportunities.





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27-1-2021
Abhishek Shiwalkar
Staff Coordinator

Blindus
Dr. Bindu S
HOD



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Brief Activity/Event Report

Name of the Department/ Institute level Committee: Electrical Engineering

1. **Name of the Activity/Event** : Career opportunities after Engineering
2. **Activity/Event Venue & Date** : Seminar hall second floor, 7/4/2022
3. **Nature of Participants** : All SE, TE and interested students of BE
4. **Staff Coordinator** : Abhishek Shiwalkar
5. **Brief Summary of the Activity/Event :**
 - **Objectives** : To enlighten students regarding career opportunities after Engineering in Government sector.
 - a. **Technical Description** : Most of the times students are not aware about career opportunities after engineering in Government sector and which exams they need to concentrate to clear those exams. So one session by ACE Academy was scheduled on 7th April 2022 where Mr. Anish Singh Rajput explained how to prepare for GATE exam, Which companies students can apply after clearing GATE exam, Different exams to apply in Government sector and preparation required to clear tests and interview. Mr. Anish Singh Rajput (IIT Bombay Alumnus, GATE AIR 18, ESE AIR 73, Rank Holder ISRO EXAM, 9 times GATE qualified, 7 years ESE and GATE teaching experience) is a senior faculty member at ACE Engineering Academy and a Motivational speaker with rich academic Credentials.



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SH 2021



Activity Report

| Sr No | Topic of Seminar | Date Duration | Resource person Designation | No. of students Attended |
|-------|---|--------------------------|-----------------------------|--------------------------|
| 1 | Oral and Written Communication | 23/10/2020 (1.5 hrs) | Dr. N.Aparna Rao | 57 |
| 2 | Decentralised Renewable Energy powered Small scale Enterprises for reviving Rural Communities | 24/10/2020 (1.5 hrs) | Mr. Nitin Akhade | 61 |
| 3 | Project Management | 23/10/2020 (1.5 hrs) | Ms. Deepti Goel | 78 |

Activity Report

1. Name of activity/ event : **Vidyut Seminar**
2. Activity/ Event Venue & Date: 23rd and 24th October, 2020
3. Nature of Participants : Second year, third year and final year Electrical Engineering students
4. No. of Participants : 57+61+78= 196
5. Student Coordinator : Class Representatives
6. Staff Coordinator : Harshada C.B.
7. Speakers
 - 1) Ms. Deepti Goel , Director, Harrisons Tech Consultant
 - 2) Mr. Nitin Akhade , Consultant, Rural Electrification & Livelihoods & Project Lead, MICRO Customised Energy Solution, New Delhi
 - 3) Dr. N.Aparna Rao , Sr.Manager, DS School of Entrepreneurship, IIT Bombay
8. Brief Summary of the Activity/Event
 - i. **Objectives:** To get understanding of Project Management concepts like the nine knowledge areas , what is Project Management and stakeholder Identification. Purpose of communication ,challenges faced in communication, content and medium of communication.
 - ii. **Technical Description:**
 - 1) Ms. Deepti Goel started with her seminar with definition of Project Management. She explained the nine knowledge areas of PM. The reasons for Project failure were illustrated. Concepts of Project life cycle , stages of Project completion like Project definition, planning , scheduling , Execution and closing of Project. Identification of stakeholders , customers , cost , quality and time triangle of project, Real time constraints like budget , schedule , people , facilities and Equipments for Project completion.
 - 2) Mr. Nitin Akhade , discussed various R&D projects using Renewable energy implemented successfully in the rural areas. Solar based Microgrids established and run with the help of rural community. Helping them in improving their livelihoods



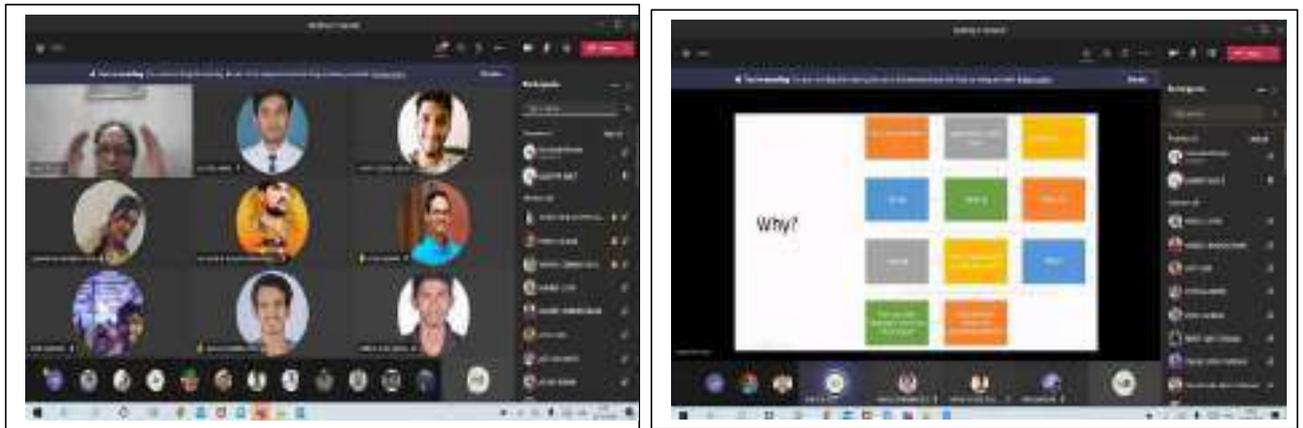
with less cost. Such case studies demonstrating progress with sustainable Development.

3) Dr. N. Aparna Rao explained the importance of effective Oral and written communication. What are the barriers of communication? Verbal and non-verbal communication, overcoming Lack of confidence in facing large crowd, language barriers. She explained why active listening is important for expressing and why people are comfortable with mother tongue but find difficult to express in some other language. For written communication the 4 what's like content, context, purpose, receiver and what medium is important.

iii. Outcomes:

1. Active and immense participation by students
2. Platform for students to showcase their organization skills
3. Acquire in depth knowledge on technical and non-technical topics like "Oral and written communication", "Decentralised Renewable Energy powered Small scale Enterprises for reviving Rural Communities" and "Project Management".

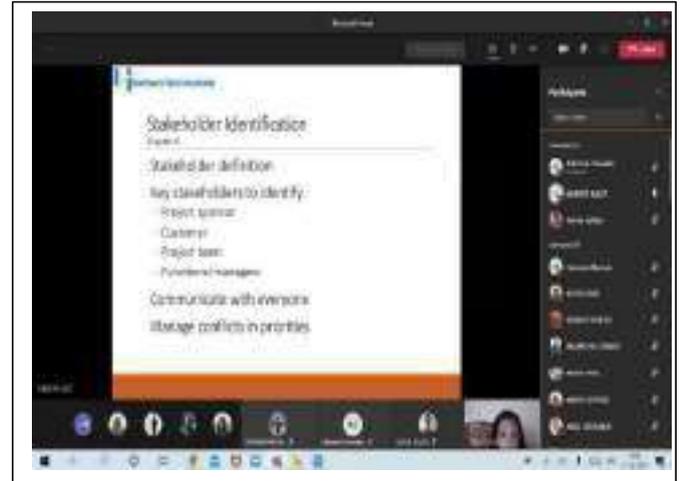
9. Activity / Event Photograph:



Seminar on "Oral and Written communication"



Seminar on "Decentralised Renewable Energy powered Small scale Enterprises for reviving Rural Communities"



Seminar on “ Project Management ”

Harshada C.B
Convenor

Dr. Bindu S.
HOD



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Brief Activity/Event Report

Name of the Department/ Institute level Committee: IEEE SB

1. Name of the Activity/Event :

Webinar on “Career Opportunity in Aerospace Industry

2. Activity/Event Venue & Date :

Google Meet, 18 December 2020

3. Nature of Participants :

IEEE members and fellow students from different institutions.

4. Number of Participants :

40 Participants

5. Student Coordinator : Shruti Malpure

6. Staff Coordinator : Mrs. Bindu R

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

a. Objectives :

To give a brief information on career opportunity in Aerospace Industry for fellows from different engineering fields

b. Technical Description :

The IEEE FCRIT Student Branch organized a webinar entitled “Career Opportunities in Aerospace Industry” on 18 December 2020. The event was conducted on Google Meets between 4.30 PM To 6.00 PM. The Webinar was free for first 50 registrants. After 50 registree an amount of 20/- per head was charged. It was completely free for IEEE members. The speaker for the webinar was Ms. Prachi Ashish Amritkar. She has an extensive experience in the field of Aerospace Engineering. Presently, She’s an Engineering Manager handling diverse activities of calibration, operation, Testing, Data analysis.

Our speaker for the webinar Ms. Prachi Amritkar briefed about the Aerospace industry. She gave a gist introduction about the working of



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Aeronautic industry. As the webinar moved further, she introduced the participants about different systems involved in working of an Aircraft namely the Avionic System which mainly includes the flight control, navigation aids, cockpit, communication systems, landing controls, etc. furthermore, she explained the attendees about the landing gears

i.e., the “wheels” of an aircraft. She briefed upon various moving surfaces of aircraft namely the aileron, rudder, elevators. These moving surfaces on the aircraft are responsible for changing the direction of an aircraft. She touched upon the “Engine” or the powerplant of Aircraft. As we moved further, she added upon to Flight Management System which provides the fixed coordinates of route or “A flight Plan” to the pilot. Talking about the role of different Engineers in the field of Aerospace industry she added that the whole industry is complex and there’s a lot of interdependency. Hence building an aircraft is a teamwork of engineers coming from different fields. Later on, she briefed the role of different engineers and the courses they should imbibe in order to enter the Aerospace industry. She also briefed on different universities i.e., both the foreign and Indian institutions wherein you can pursue higher studies related to Aviation industry.

With this the webinar came to an end and the attendees were welcomed for question & answer session. Lastly the feedback forms were circulated in order to get an idea of peoples who were viable for certificates.

The webinar ended well and everyone enjoyed it. It was a huge success.

c. Outcomes :

The webinar was a great success, everyone gained a lot of extra and unique Knowledge from the expert session and acquired Clarity till some extent about the possible opportunities for engineers in Aerospace industry



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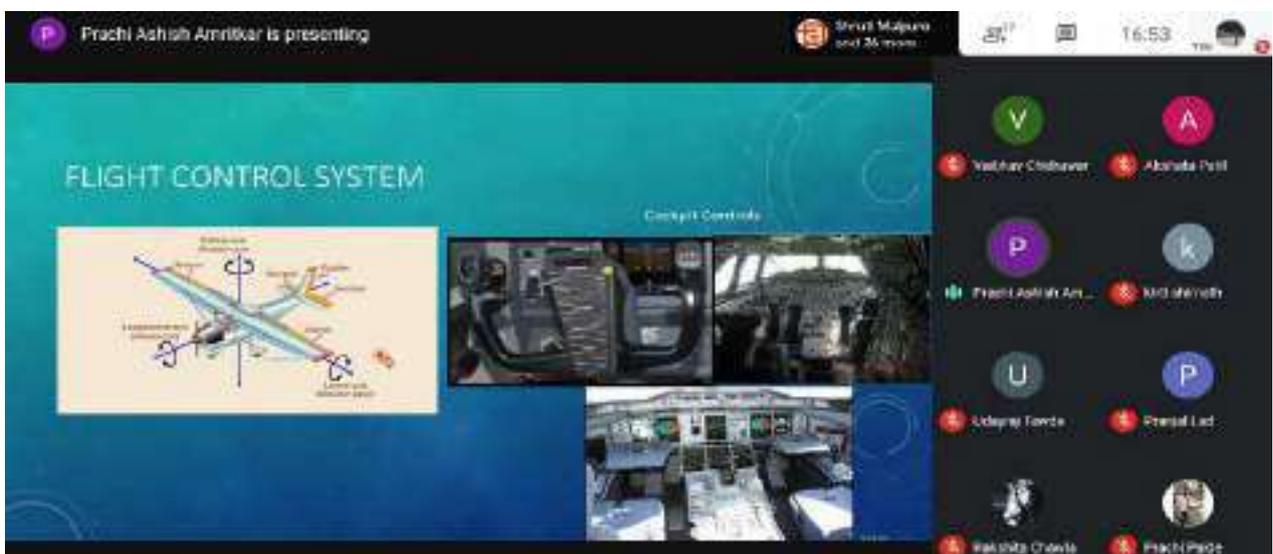
d. Summary of Feedback :

Most of the People found the session meeting their Expectations and gave positive feedback regarding the same.

e. Action to be Taken based on Feedback:

Seminars illustrating the importance and growth of sub-disciplines of major Engineering Fields are to be organised

8. Activity / Event Photograph :





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Prachi Ashish Amritkar is presenting

MAJOR ORGANIZATIONS

Some major players in the industry (in no specific order):

- General Electric
- Boeing
- Airbus India
- Rolls Royce Services & Technology Solutions
- United Aircraft Corporation
- Brahmo Aerospace
- Tata Helicopters Systems Limited
- Dornier Technologies
- Bharat Electronics
- Collins Aerospace

Some key players providing services to Aerospace Industry:

- TCI
- HDL
- OJAST Global
- CapGemini
- Infosys

Public Sector:

- DRDO
- ISRO
- VSSC
- HAL
- ADAR

Armed Forces:

- India Air Force (Technical Branch)

Prachi Ashish Amritkar is presenting

FLIGHT MANAGEMENT SYSTEM

FMS Control Display Unit

FMS functions

Integration with other systems



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Prachi Ashish Amrikar is presenting

MECHANICAL ENGINEERS

Typical Job Profiles:

- 3D CAD Modeling
- 3D drawings for manufacturing parts, including Geometric Dimensioning and Tolerancing (GD&T)
- Mechanical analysis: Thermal, Structural, Stress, Vibrations
- CFD
- DRWGA, DFT and DFM tools
- Product Design (Component/ System)
- Manufacturing engineering

Key Focus Areas:

- Structural mechanics
- Thermodynamics
- Fluid mechanics

Tools:

- CAD tools such as Catia, SolidWorks, AutoCAD, ProE, Creo, NX/InRoads
- ANSYS (structural, thermal and fluid simulations)
- MATLAB: System design and simulations

Zarif M.SALIM has left the meeting

Participants: Pratik Shinde and 26 more, V, A, Vaidhyan Chidambaram, Akshata Patel, Prachi Palle, Vignya Nambkar, Prachi Ashish Amrikar, Ushara Tendre, Yashika Singh, Abhishek Mendon



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Brief Activity/Event Report

Name of the Department/ Institute level Committee: IEEE SB

1. **Name of the Activity/Event** : Realm of Sound Engineering
2. **Activity/Event Venue & Date** : 23rd December, 2020; Google Meets
3. **Nature of Participants** : IEEE Student Members of FCRIT and fellow students of FCRIT and other colleges
4. **Number of Participants** : 32
5. **Student Coordinator** : Akhilesh Mendon
6. **Staff Coordinator** : Mrs. Bindu R
7. **Brief Summary of the Activity/Event (in maximum 500 words):**

a. Objectives :

To introduce to the students the technically vibrant side of Sound Engineering, which is used in movies, theatres and concerts and how diverse it is, as a field.

b. Technical Description :

IEEE FCRIT organised a seminar on 'Realm Of Sound Engineering', on 23rd December 2020 on Google Meets and the same was attended by students of FCRIT and other colleges.

The speaker for the event was Mr. Aniruddha Purushe, an experienced personality in the field of Sound Engineering, having worked in theatre acts such as those of Disney's Aladdin and TV shows such as MTV Unplugged and The Stage. Furthermore, he had the experience of working with popular music bands such as ALIF, TAPAS and signers such as Abhijeet Srivastava.

Starting with the event, our speaker introduced us, firstly to the different aspects of sound engineering employed in the Entertainment Industry and how complex the mechanisms related to it could be. He began by explaining the work of Foley Engineers and how fun it is to be able to produce sounds



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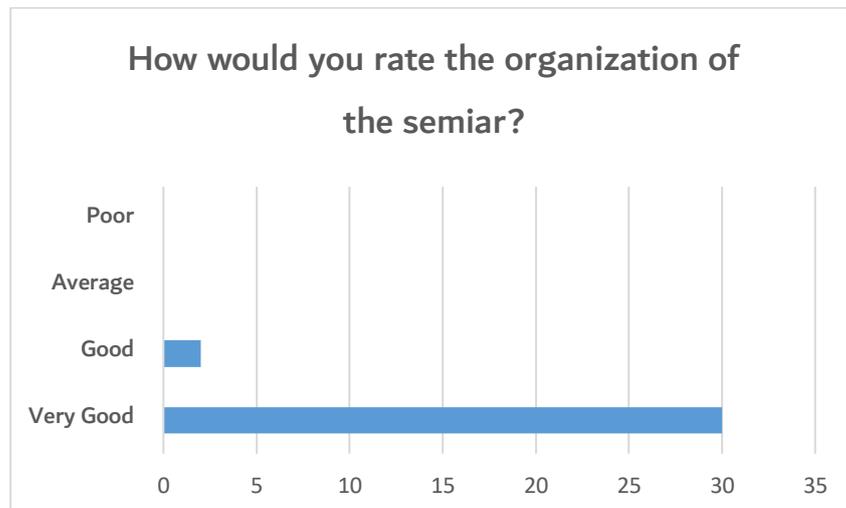
that are otherwise difficult to capture. He then went on to explain his work which was Sound Mixing, Reproducing, Equalization, Sound Projection and Electronic Effects, The entirety of these new concepts were explained in simpler terms, often accompanied by Mr. Purushe's own works related to them.

The session in particular was very useful to individuals, who saw a spark on interest in themselves in this bright field and were enthusiastic to ask doubts and participate whole heartedly in the conversations

c. Outcomes :

The event was a great success, as we saw an almost 100% attendance and extremely positive feedback from our audience.

d. Summary of Feedback :



e. Action to be Taken based on Feedback:

Based on the feedback received, the council has been encouraged to conduct more such webinars on fields that, though remotely related to the field of engineering, require growing presence of individuals with technical knowledge.

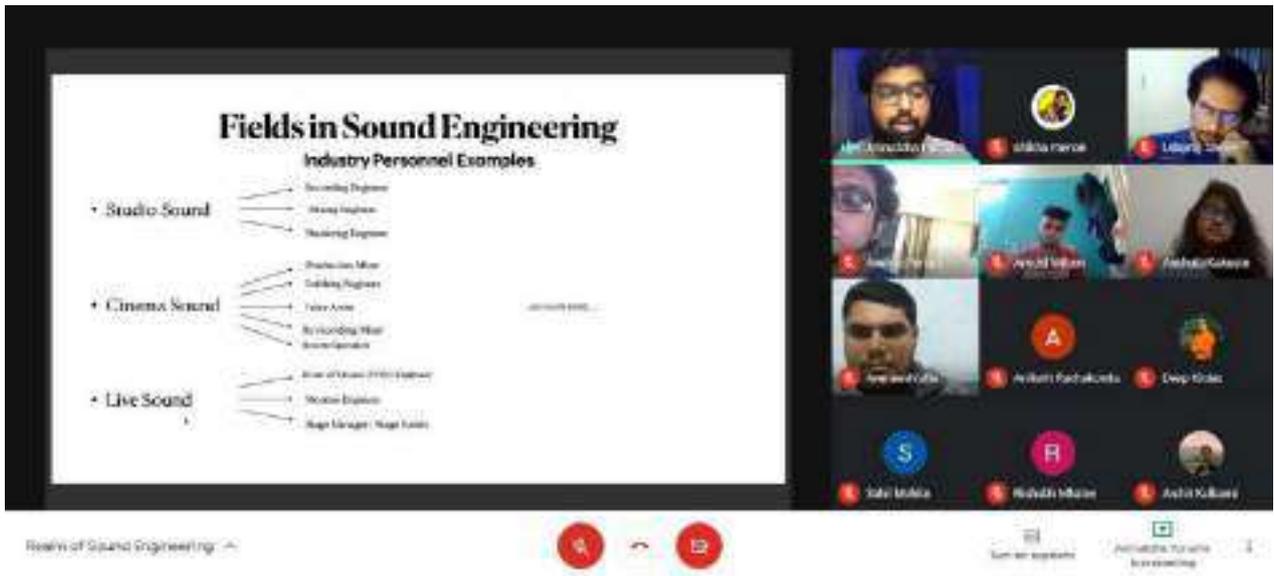


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8. Activity / Event Photograph :





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**INTERESTED
IN ANY OF
THESE?**

- MIXING
- REPRODUCING
- EQUALIZATION
- ELECTRONIC -
EFFECTS
&
SOUND
PROJECTION

If you vibe with these, this event is for you!

Aniruddha has worked on these very exciting projects and you may recognise some of them

- MTV UNPLUGGED
- DISNEY'S ALADDIN
- THE STAGE
- INFERNO METAL FESTIVAL, NORWAY

He has also worked with these bands and theatre acts

- ALIF
- TAPAS
- ABHIJEET SRIVASTAVA
- ZEE THEATRE
- DEEMAR



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**IEEE FCRIIT
PRESENTS**



**Realm of
Sound Engineering**

WITH
ANIRUDDHA PURUSHE

Live & Studio Sound Engineer
Event Manager, Systems Tech

**23rd December
6 to 7.30 PM**

Register Now! 



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

Brief Activity/Event Report

Name of the Department/ Institute level Committee: IEEE SB

1. **Name of the Activity/Event** : Green Challenge
2. **Activity/Event Venue & Date** : 4th November to 5th December, 2020
3. **Nature of Participants** : Open to all
4. **Number of Participants** : 47
5. **Student Coordinators** : Akhilesh Mendon and Shruti Malpure
6. **Staff Coordinator** : Mrs Bindu R
7. **Brief Summary of the Activity/Event (in maximum 500 words):**

a. Objectives :

To motivate students to take steps in public interest to reduce power consumption and create awareness by accepting the Green challenge and contributing in accordance to their respective fields of interest.

b. Technical Description :

The IEEE STUDENT BRANCH, FCRIT organised a Green Challenge Competition starting 4TH November 2020. The competition was conducted digitally and students were asked to submit their work on via drive links.

The challenge was sponsored by Techno Associates Vidyut Pvt Ltd
Challenge was categorized in three fields : Technical, Literature, Art.

There was also a special recognition prize for participants who contribute significantly towards environment physically, for eg. Mass tree plantation drives.

Different sets of rules and regulations were formed and the same were explained to participants with the help of PDFs.



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c. Outcomes :

Various students from different colleges participated in the event and had submitted their work.

Cash prize worth One thousand was awarded to winners, one each from the three events. Furthermore, few runner-up awards were also declared.

d. Summary of Feedback : nil

e. Action to be Taken based on Feedback: nil

8. Activity / Event Photograph :

GREEN CHALLENGE
AN IEEE FCRIIT EVENT
BECAUSE EVERY GOOD DEED BEGINS AT HOME

Registrations are free and close on 20th November 2020
Exciting prizes worth ₹1000 to winners

Sponsored By:
Techno Associates Vidyalok Pvt. Ltd.

Registration Link

For detailed description of different categories Click on the following sections

- TECHNICAL**
Create small projects that shows contribution towards Energy Conservation or environmental conservation
- ARTWORK**
Create (paintings, sketches, collage etc), Crafts -Diwali lanterns, models etc. which express the creator's imagination towards the green initiative
- LITERATURE**
Pour your heart out and write stories, articles, poems or haiku. Write for the need to switch to greener alternatives of energy
- ACTIVITY**
Activities like planting trees, practicing Energy Conservation at home and writing a report on the activity



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HOW DO I SUBMIT MY WORK?

Submissions are open from 8th November to 30th November

Registered participants can submit their works here

Participants are free to choose their desired way of participating in the Green Challenge
Multiple Submission are Allowed (maximum 3 in each section)

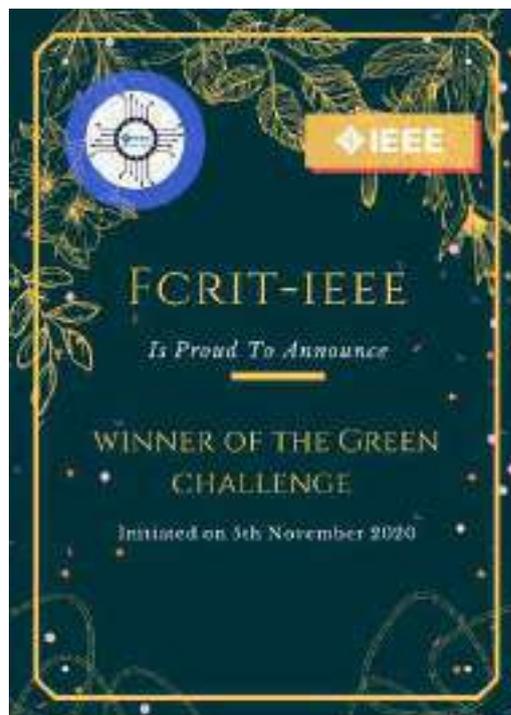
Thorough check for plagiarism will be conducted. Participants are thus advised to use resources from web for citations but not to copy from.

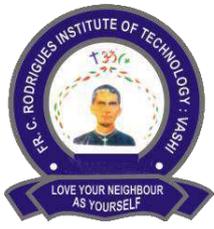
IEEE CERTIFICATES WILL BE GIVEN TO ALL PARTICIPANTS AS A TOKEN OF APPRECIATION

*This Diwali
Go green*

Contact: fcrit2020ieee@gmail.com

Winners:





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SUSTHIRA - THE SOLAR INVERTER
Shravan Pahnaiach
The National Institute of Engineering, Mysuru
TECHNICAL WINNERS

PROTECTION OF PLANTS FROM UNWANTED PESTS AND INSECTS USING PIR SENSOR.
Chinmay Vastak
Fr. Conceicao Rodrigues Institute of Technology, Mumbai
TECHNICAL WINNERS

50+ SAPPLINGS
Vedant Rajput
Fr. Conceicao Rodrigues Institute of Technology, Mumbai
ACTIVITY WINNER

Why Apple Has Removed Charging Bricks In The Box And How It's Affecting The Environment.
Anand Unnikrishnan
Fr. Conceicao Rodrigues Institute of Technology, Mumbai
LITERATURE WINNER



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Brief Activity/Event Report

Name of the Department/ Institute level Committee: IEEE SB

1. **Name of the Activity/Event** : Industry 4.0
2. **Activity/Event Venue & Date** : Microsoft Teams, 8th and 16th October 2020
3. **Nature of Participants** : IEEE members and fellow students from different institutions
4. **Number of Participants** : 116
5. **Student Coordinators** : Akhilesh Mendon and Shruti Malpure
6. **Staff Coordinator** : Mrs. Bindu R
7. **Brief Summary of the Activity/Event (in maximum 500 words):**

a. Objectives :

To bring to young engineers, the concept of Industry 4.0 as we enter an age of automation.

b. Technical Description :

The webinar began with Mr. Nilesh Sawant introducing us to Siemens and their contribution in the present automation and control systems in the market.

He talked about measurement technologies and process instrumentation sensors. He mentioned about the Siemens-Sitrain package and its unique features like training equipment, training material, automation and electrical training packs etc.

Next, we had Mr. Durgesh Mishra who spoke about industry 4.0, its working and also its relevance.

He gave a brief idea of how the industry is evolving and how it has changed from use of mechanical equipment to labour concept and further from electronics and IT automations to use of cyber-physical systems.

He spoke about digitalization of the field level using digital enterprise in both discrete and process industry. The relevance was answered by the fact that industry 4.0 reduces time-to-market, increase flexibility, improve quality and increase efficiency.



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Brief Activity/Event Report

Name of the Department/ Institute level Committee: IEEE SB

1. **Name of the Activity/Event** : A New look at Energy and Sustainability
2. **Activity/Event Venue & Date** : Google Meet, 24/10/2020
3. **Nature of Participants** : IEEE members and students and staff of Agnel's Campus
4. **Number of Participants** : 59
5. **Student Coordinators** : Akhilesh Mendon and Shruti Malpure
6. **Staff Coordinator** : Mrs. Bindu R
7. **Brief Summary of the Activity/Event (in maximum 500 words):**
 - a. **Objectives** :
 - b. **Technical Description** :

The IEEE STUDENT BRANCH FCRIIT organised a webinar in collaboration with Dr Solanki on “A NEW LOOK AT ENERGY AND SUSTAINABILITY” on 24TH October 2020 from 5pm to 6pm. The event was conducted virtually and students from many colleges actively took part in it.

Certain awakening points of deforestation, increased carbon emissions were raised. Detailed analysis of factors causing the same were discussed such as

- High production of automobile industry
- Increased CO₂ emissions of 52 gigaton worldwide per year, etc.

Deep discussion was done on the laws of sustainability of the ecosystem which was then followed by the highlight of his talk namely “THE ENERGY SWARAJ”, which aimed at producing energy at our local levels mainly by educating the local women or people the basics. This would also create self-employment of the people. He explained the necessity and



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urgency to surrender the grid electricity connection and install individual solar panels at our level to be self-sustainable. This will in turn also limit our usage and will be used more efficiently. Which will lead to reduced global warming.

He then talked about the popularisation of this movement which he will be doing by travelling to various places in his self-sustainable collar equipped bus thus setting an example to others to do the same. He also encouraged many young minds to join him in this journey of his.

This was then followed by a very interactive and fruitful Q&A session that was conducted courtesy of every enthusiastic participant. The discussion touched upon various topics such as the role of youth in achieving sustainability, striking a balance between necessity & greed when it comes to technological progress and the most important question of forfeiting electricity versus grid connected solar installations.

A total of around 50-60 students participated and each one was handed a Certificate of participation by the IEEE FCRIT SB. The teams who organized this event wait eagerly to lend their efforts to another such success.

c. Outcomes :

A successful event that educated many young minds about the necessity of the energy swaraj

d. Summary of Feedback :

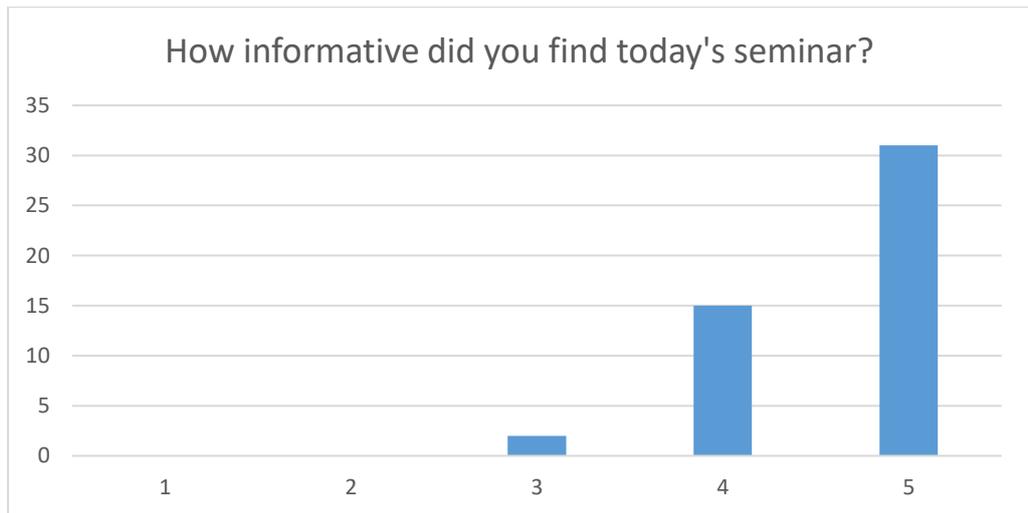
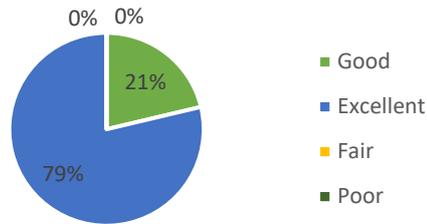


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Please rate the speaker's knowledge about this topic



e. Action to be Taken based on Feedback:

Events that focus on sustainability in technological progress help shape the future of one's career and hence, more events on the same to be conducted.



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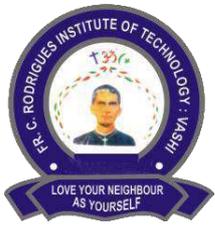
8. Activity / Event Photograph :



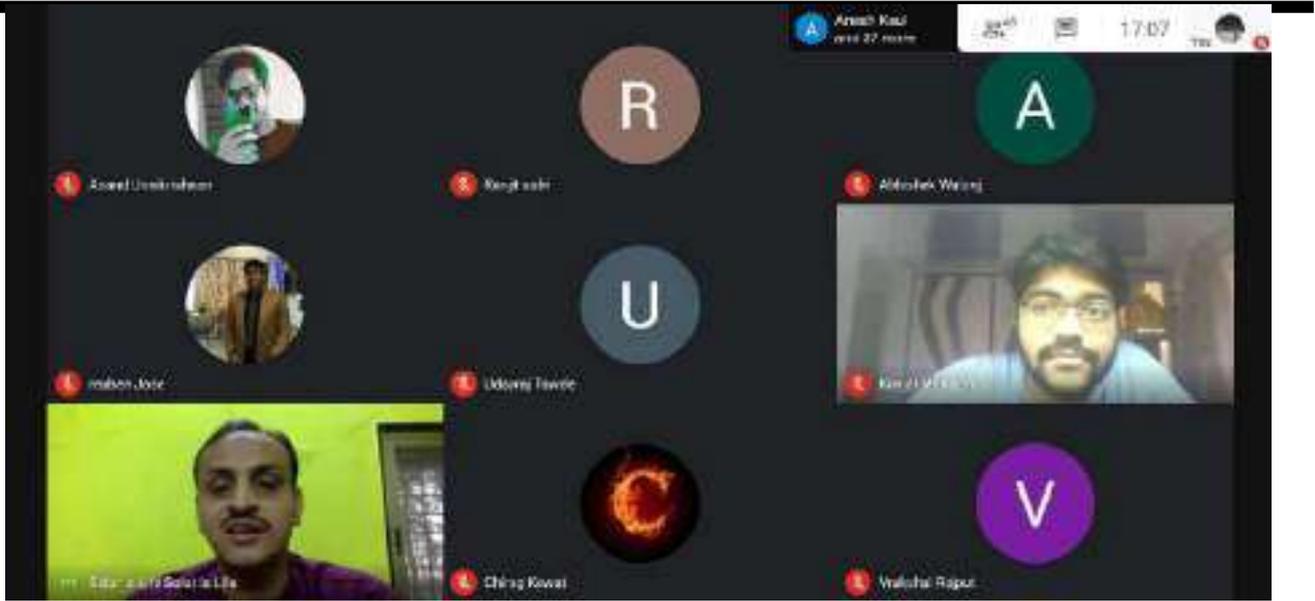
Solanki Sir during the webinar



Glimpse of the webinar



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Q/A Session





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The International Energy Agency (IEA) and the European Patent Office (EPO) have teamed up to shed light on and promote new innovations in sustainable energy technologies.

IEA and NITI Aayog hold India launch of IEA Special Report on Sustainable Recovery.

Check our post for more information on IEA.



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Brief Activity/Event Report

Name of the Department level Committee: IEI student chapter

1. **Name of the Activity/Event** : Latex workshop
2. **Activity/Event Venue & Date** : Microsoft Teams, 5th, 7th and 8th December 2020
3. **Nature of Participants** : Final year students
4. **Number of Participants** : 70
5. **Student Coordinators** : Nishil Lathia, Chaitanya Sanjay Thakre, Bhavesh, Hariom, Joel Tom shaju
6. **Staff Coordinator** : Mrs. Divya Sajeesh
7. **Brief Summary of the Activity/Event (in maximum 500 words):**
 - a. **Objectives** : To bring to young engineers, the concept of Latex for professional report writing
 - b. **Technical Description** :

A tutorial video based on the PPT developed earlier will be made, with a total length of 15 minutes.
The PPT is split as:
Person 1 - Intro to adding images
Person 2 - Creating list to equation mode
Person 3 - Greek letters to chapters
Person 4 - Tables

2. Batch wise session of 2 hours, 3 days long. After completion of each day, we give them 1 assignment which they have to complete. For the 3 day workshops, we will give them 3 tutorial/assignments.

3. Doubt solving sessions will be held each day after the main session to help solve any issues that the students find with their assignments.

4. DAY BY DAY ASSIGNMENT SCHEDULE
1st day - Write you own CV in LaTeX
2nd day - Write a Derivation in LaTeX
3rd day – Write your Project Report in LaTeX (20-25pages)
 - c. **Outcomes** :

Divya S

Dr Bindu S

Staff Coordinator

HOD



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The Concept of Latex and final year report writing in latex was conducted

d. Summary of Feedback :

Most of the Students found the session meeting up to their expectations and knowledgeable with all the feedback responses in the category of good and excellent.

e. Action to be Taken based on Feedback:

More time has to be allotted for such session

8. Activity / Event Photograph :



Divya S

Dr Bindu S

Staff Coordinator

HOD



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LATEX: Introduction

- LATEX is a tool used to create professional-looking documents.
- Users can enter plain text and LATEX will take care of the formatting
- It allows a consistent layout across all sections with
 - inputting mathematics,
 - creating tables of contents,
 - referencing and creating bibliographies, and having
- With given templates we just have to add the content.

Divya S

Dr Bindu S

Staff Coordinator

HOD



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Brief Activity/Event Report

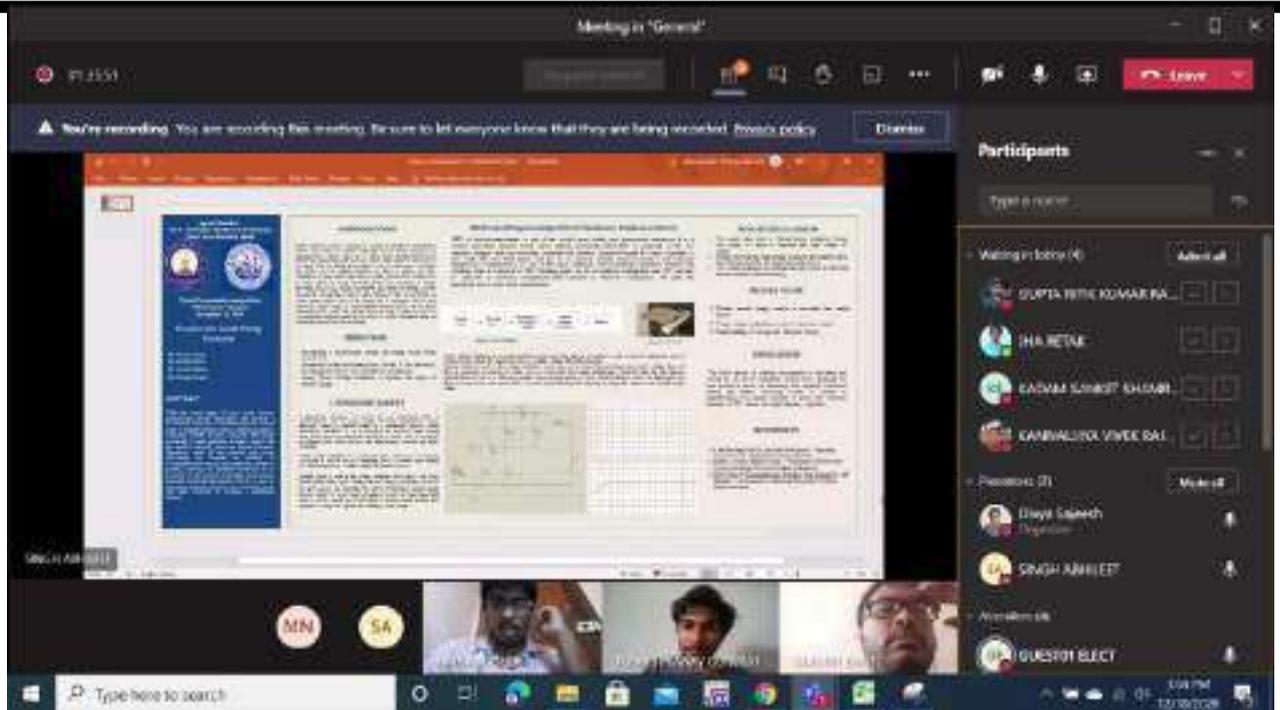
Name of the Department/ Institute level Committee: IEI student chapter

1. **Name of the Activity/Event** : Poster Presentation competition
2. **Activity/Event Venue & Date** : Microsoft Teams, 18th December 2020
3. **Nature of Participants** : 3rd sem students
4. **Number of Participants** : 70
5. **Student Coordinators** : IEI council
6. **Staff Coordinator** : Mrs. Divya Sajeesh
7. **Brief Summary of the Activity/Event (in maximum 500 words):**
 - a. **Objectives** : To enhance students' knowledge with their creative streak and express their ideas
 - b. **Technical Description** :

Poster presentation template was circulated among students for preparing the poster. The poster was prepared based on the mini project . There were total total 15 poster in the competition. The judge for poster presentation was Mr. Shashank Push, a research scholar from IIT Bombay. The poster with title "Light control using proximity sensor" bagged the first position and "Night Vision Camera" won the second position.
 - c. **Outcomes** :They were able to show case their ideas and presentation skills
 - d. **Summary of Feedback** :Most of the Students found the session useful and knowledgeable.
 - e. **Action to be Taken based on Feedback:**Many such competition has to be conducted.
8. **Activity / Event Photograph** :



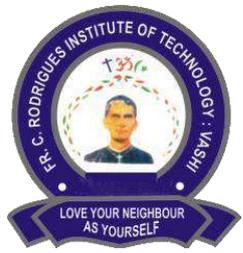
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Divya S
Staff Coordinator

Dr. Bindu S

HOD



Fr. C. Rodrigues Institute of Technology

Department of Electrical Engineering

Sector - 9A, Vashi, Navi Mumbai – 400 703, INDIA.

Telephone: 022-2777 1000, 2766 1924, 2766 0618. Fax: 2766 0619

Website: www.fcrit.ac.in

Brief Activity/Event Report

1. **Name of the Activity/Event** : “Indoor Content Creation Event”
1. **Activity/Event Venue & Date** : 5 Oct 2020
2. **Nature of Participants** : Students of sem 3,5
3. **Number of Participants** : 6 groups
4. **Student Coordinator** : EESA council
5. **Staff Coordinator** : Mrs. Harshada Bhosale
6. **Brief Summary of the Activity/Event (in maximum 500 words):**
 - a. **Objectives** :
 - 1.To bring out the creative side of students
 - 2.To engage students positively in lock down
 - 3.To develop event management skills of EESA students
 - b. **Technical Description** :

A short video making competition was arranged for Electrical students of maximum 10 min duration. Students had to make a short video on social or entertainment or both and send maximum by 15th October 2020. Best video in each category was selected.
 - c. **Outcomes** :
 - 1.Participating students got a platform to display their creative side
 - 2.Awareness among students about social causes increased
 - 3.EESA students could display their event management skills.
 - d. **Summary of Feedback** : Competition so feedback was not taken.
 - e. **Action to be Taken based on Feedback:** NA

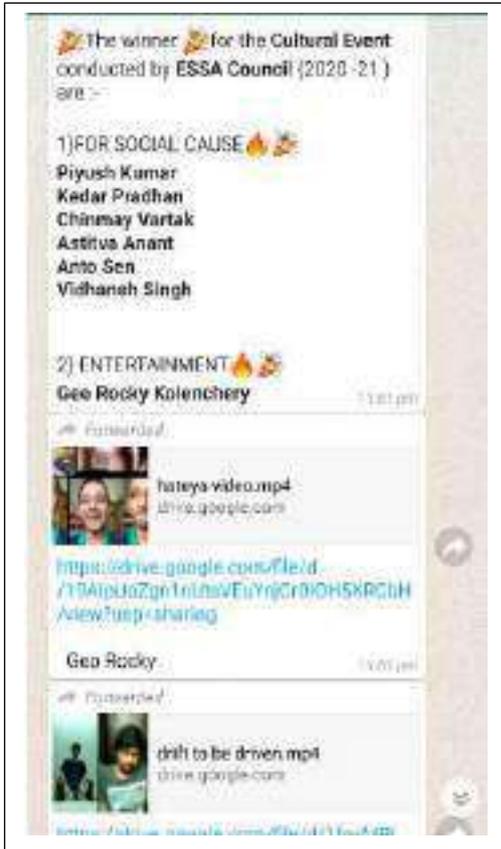


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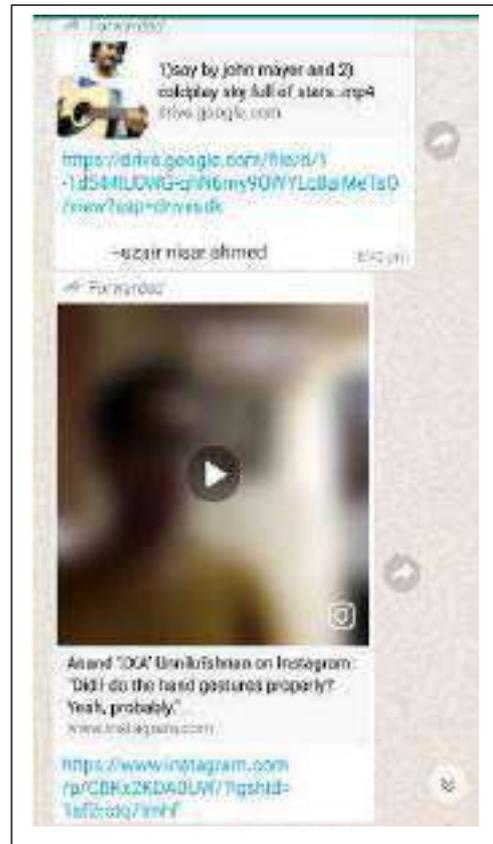
Department of Electrical Engineering

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Telephone: 022-2777 1000, 2766 1924, 2766 0618. Fax: 2766 0619
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7. Activity / Event Photograph :



Winners of Video making under social and entertainment cause



Videos submitted

Lennard Felix

Student Coordinator

Mrs.Harshada Bhosale

Staff Coordinator

Dr.Bindu S.

HOD



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Website: www.fcrit.ac.in

Brief Activity/Event Report

1. **Name of the Activity/Event** : “Living with Covid 19”
2. **Activity/Event Venue & Date** : Online Google Meet/ 15th August 2020
3. **Nature of Participants** : Students of sem 3,5,7 / Staff of Electrical
4. **Number of Participants** : 63 / 1
5. **Student Coordinator** : EESA council
6. **Staff Coordinator** : Mrs. Harshada Bhosale
7. **Brief Summary of the Activity/Event (in maximum 500 words):**
 - a. **Objectives** : Increase awareness about Covid 19. Stay safe and protected.
 - b. **Technical Description** :

A free online session on awareness about Covid 19 was arranged on Google meet. The session was taken by Dr. Ketan Pakhale, MD(General Medicine) Asstt. Prof., D.Y.Patil hospital, navi Mumbai. He briefed the participants about how the virus spreads, how to take care to prevent infection and cleared the misconceptions about the virus.
 - c. **Outcomes** :
 1. Management skills by the student council members
 2. Arranging online session and resource person
 3. Participants benefitted by getting authentic information on Covid 19 from MD doctor and cleared their doubts.

d. Summary of Feedback : Total responses – 54

| Sr.No. | Questions | 5 | 4 | 3 | 2 | 1 |
|--------|--|----|----|---|---|---|
| 1 | How much satisfied were you with the event? | 31 | 20 | 2 | 0 | 1 |
| 2 | How beneficial was the webinar to live with the current Covid-19 ? | 30 | 20 | 3 | 0 | 1 |
| 3 | How would you rate the organisation and management of the session on a scale of 1-5? | 31 | 21 | 1 | 0 | 1 |
| 4 | How well was the event structured ? | 34 | 14 | 4 | 1 | 1 |

e. Action to be Taken based on Feedback:

Student Coordinator

Staff Coordinator

HOD



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8. Activity / Event Photograph :



Lennard Felix

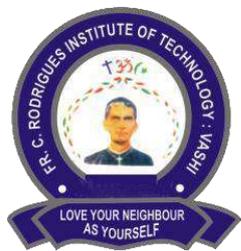
Mrs. Harshada Bhosale

Dr. Bindu S.

Student Coordinator

Staff Coordinator

HOD



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Brief Activity/Event Report

1. **Name of the Activity/Event** : “Free Online Yoga session”
2. **Activity/Event Venue & Date** : Google meet/ August 2
3. **Nature of Participants** : Students of Sem 3 and 5 / Staff of Electrical
4. **Number of Participants** : 24 students /3 staff
5. **Student Coordinator** : EESA council
6. **Staff Coordinator** : Mrs. Harshada Bhosale
7. **Brief Summary of the Activity/Event (in maximum 500 words):**

a. Objectives :

Online session on Yoga arranged for students to improve concentration, physical and Mental fitness.

b. Technical Description :

Under EESA 2020-21 a free online session on “Yoga for Physical and Mental health” was arranged for Electrical students. The session was taken by Ms. Sheetal Malhotra, Disha Yoga. Majorly students from sem 3 and 5 participated for the session. Some Yoga techniques to improve concentration and maintain physical and mental health were taught by the Yoga instructor.

c. Outcomes :

1. Management skills by EESA council students
2. Participants got experience of some yogic asanas and pranayam techniques.

d. Summary of Feedback : Total 27 responses

| Sr.No. | Questions | 5 | 4 | 3 | 2 | 1 |
|--------|--|----|---|---|---|---|
| 1 | How satisfied were you with the event? | 19 | 8 | 0 | 0 | 0 |
| 2 | How effective was the session in giving you practical insights of Yoga? | 20 | 6 | 1 | 0 | 0 |
| 3 | How would you rate the organisation and management of the session on a scale of 1-5? | 18 | 8 | 0 | 1 | 0 |
| 4 | how well was the event structured ? | 20 | 5 | 1 | 1 | 0 |

e. Action to be Taken based on Feedback:

Student Coordinator

Staff Coordinator

HOD

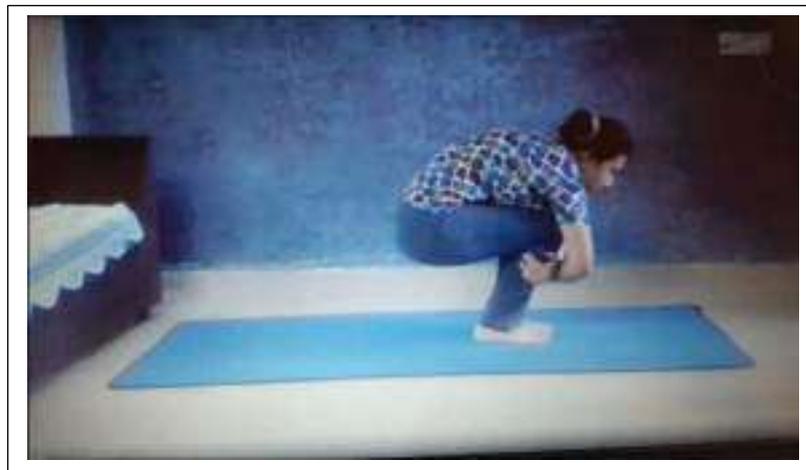


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8. Activity / Event Photograph :



Lennard Felix

Mrs. Harshada Bhosale

Dr. Bindu S.

Student Coordinator

Staff Coordinator

HOD



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Vashi, Navi-Mumbai

FH 2021



REPORT

**Power Electronic Systems and its
Real Time Control
Implementation in DSP**

8th to 12th November 2021:

Organized by

**Department of Electrical Engineering,
Agnel Charities'**

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



Power Electronic Systems and its Real Time Control Implementation in DSP

Five Day's AICTE sponsored workshop was conducted from 8th to 12th November 2021 in which 188 participants from different parts of the country were approved.

The speakers for the 5-day workshop on “Power Electronic Systems and its Real Time control Implementation in DSP” were:

| Dr. Vivek Agarwal, Professor, IIT Bombay | |
|---|--|
|  | <p>Professor (Institute chair professor), IIT Bombay.</p> <p>Ph.D. (Electrical Engg.): University of Victoria, British Columbia,</p> <p>Field of Interest: Power conversion, Power quality issues, non-conventional energy, Intelligent control of power electronic systems Advanced control schemes, DSP and FPGA based control, EMI.</p> |

| Dr. Sujit K. Biswas, Professor, STCET, Kolkata | |
|--|--|
|  | <p>Professor, HOD, Electrical Engineering, STCET, Kolkata.</p> <p>PhD from the Indian Institute of Science, Bangalore.</p> <p>Area of Specialization: Power Electronics & Drives</p> |

| Dr. Umanand L., Professor, IISC | |
|---|--|
|  | <p>Professor: Indian Institute of Science Bangalore.</p> <p>Ph.D from CSIR-NIIST, Trivandrum, Kerala</p> <p>Expertise: Power electronics - Renewable energy systems, photovoltaic based systems, bond graph modelling.</p> |

| Dr. Prajof P., Assistant Professor, NITK | |
|---|---|
|  | <p>Assistant Professor, NIT Suratkal.</p> <p>PhD from Indian Institute of Technology Bombay</p> <p>Areas of Interest: Power Electronics Applications in Renewable Energy and Electric Vehicles, Power Conversion: New converter topologies, Design and Control of Power Electronic Converters (dc-dc, dc-ac, etc.), DC Microgrids</p> |

Dr. Shreelakshmi L., Assistant Professor, NITC



Assistant Professor, NIT Calicut.

PhD Indian Institute of Technology Bombay

Areas of Interest: Power Electronics Applications in Renewable Energy, EV Technology, Super capacitors.

Dr. Sushil Thale, Professor, FCRIT, Vashi



Professor & Dean (R&D), Fr. C. Rodrigues Institute of Technology, and Co-Founder & Director, Navavidha Techsolutions Pvt Ltd.

PhD Indian Institute of Technology Bombay

Specialties: Electric Vehicle Chargers and Drive, Microgrids, Renewable Energy, LED lighting, Power Electronics

Dr. Amit kumar Gupta, L&T, Mumbai



Specialist (Technical Manager) in L&T Technology Services LTD.

PhD from Indian Institute of Technology Bombay

Areas of Interest: Power Electronics Applications in Renewable Energy

Mr. M. Madhubabu, Robert Bosch Engg. & Business Solutions



Sr. Reliability Engineer, Robert BOSCH Engineering and Business Solutions Pvt. Ltd., Bangalore.

M.Tech in Reliability Engineering from IIT Bombay

Dr. Abdul Rasheed, Principal, MCE



Principal, Musaliar College of Engineering, Chirayinkeezhu, Kerala

PhD in Cryogenic Engineering from IIT Kharagpur

Also, a Coordinator of NetProFaN Kerala, an FSSAI Initiative for the Implementation of Eat Right Movement

| | |
|---|---|
| Prof. Harshal Wani, Assistant Professor, GEC, Valsad | |
|  | <p>Assistant Professor, Power Electronics at Government Engineering College, Valsad</p> <p>M Tech- Electrical-Power electronics and power system</p> <p>Expertise: Power Electronics, Microcontroller, DSP, SiC Devices</p> |
| Dr. Shreenivas Jog, Professor, DIT, Pimpri | |
|  | <p>Professor, E&TC at Dr. D. Y. Patil Institute of Tech. Pimpri,</p> <p>Ph.D.(E&TC), College of Engineering Pune.</p> <p>Developed expertise in design and implementation of Ruggedised / Robust Electronic Products / Communication systems compatible with EMI/EMC, Environmental and Dynamic Standards for Defence, Automotive & Industrial Applications.</p> |
| Dr. Dipankar Debnath, Assistant Professor, IITKgp | |
|  | <p>Assistant Professor, Electrical Engineering, IIT Kharagpur</p> <p>Ph.D from the Department of Electrical Engineering, IIT Bombay,</p> <p>Research Interests : solar photovoltaic (PV) systems, Electric Vehicle: power converter and motor design, multi-functional, decentralized inverter schemes for grid integration of renewable energy sources, design of integrated converter topologies for renewables, load emulators, etc.</p> |
| Dr. Subhendu Dutta, Assistant Professor, IITD | |
|  | <p>Centre for Energy Studies (CES), IIT Delhi</p> <p>Ph.D degree in electrical engineering from the Department of Electrical Engineering, IIT Bombay,</p> <p>Research Interests : Application of Power Electronics in Solar PV Systems, AC-DC Hybrid Nanogrid System, High Freq. Switching Converter Design, EV charging</p> |
| Dr. Ramsha Karampuri, Assistant Professor, VNIT | |
|  | <p>Assistant Professor, Department of Electrical Engineering, Visvesvaraya National Institute of Technology, Nagpur</p> <p>Ph.D. (Electrical), NIT, Warangal</p> <p>Areas of Interest: Power Electronics, Electrical Drives, Multiphase Machines, Renewable Energy Systems</p> |

The schedule of the workshop was as below-

**AICTE (ATAL) Sponsored Faculty Development Program (online) on
"Power Electronic Systems and its Real Time Control Implementation in
DSP"**

(Duration: 08/11/2021 to 12/11/2021)

Organized by

Department of Electrical Engineering
Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai

Program Schedule



| Date | Time Slot | | | | |
|-----------------------|--|----------------------|---|----------------|---|
| | 9:15 AM to 11:15 AM | 11:15 AM to 11:30 AM | 11:30 AM to 13:30 | 13:30 to 14:30 | 14:30 to 16:30 |
| Day - 1 08/11/2021 | Inauguration (9.15-9.45am) Session - 1 Power Electronics Systems and its Applications Dr. Vivek Agarwal, IITB | Tea Break | Session - 2 Practical Considerations in Power Electronic Converters Dr. Sujit K. Biswas, STCET, Kolkata | Lunch Break | Session - 3 Control of Power Electronic Converters Dr. Umanand L., IISC |
| Day - 2 09/11/2021 | Session - 4 Basics of Digital Signal Processor (DSP) Dr. Prajwal P., NITK | | Session - 5 Programming of DSP Dr. Shroedakshmi L., NITC | | Session - 6 Interface design-DSP & PE Systems Dr. Sushil Thale, FCRIT |
| Day - 3 10/11/2021 | Industry Session - 7 PCB design Considerations Dr. Amit Kumar Gupta, L&T, Mumbai | | Industry Session - 8 Reliability of PE systems Mr. M. Madhuhaban, Robert Bosch Engg. & Business Solutions | | Session - 9 Health and Happiness Dr. Abdul Rasheed, Principal, MCE |
| Day - 4 11/11/2021 | Session - 10 Simulation Tools for Implementation of PE systems Prof. Harshal Wani, GEC, Valsad | | Session - 11 EMI Issues of Power Electronic Systems Dr. Shreemvas Jog, DIT, Pimpri | | Session - 12 DSP Implementation of SPV based off-grid system & battery back up Dr. Dipankar Debnath, IITKgp |
| Day - 5 12/11/2021 | Session - 13 DSP Implementation of control strategy of grid inverter Dr. Subbendu Dutta, IITD | | Session - 14 Implementation Issues of PE systems in DSP Dr. Ramsha Karampuri, VNIT Nagpur | | Test, Feedback and Valediction |

Coordinators: Dr. Mani Rajeev, Dr. Mani Nambudhanipad, Mr. Abhishek Shrivalkar

The inauguration was held on 8th November 2021 online at 9.15 am. Chief Guest and the keynote speaker of the program was Dr. Vivek Agarwal, Professor, IIT Bombay. Rev. Fr. Almeida (Managing Director, Agnel charities Vashi), Dr. S. M. Khot (Principal, Fr. C. Rodrigues Institute of Technology, Vashi) and Dr. Bindu S. (HOD, Department of Electrical Engg. FCRIT, Vashi) were also present with the participants for the inaugural function.

Dr. Mini Rajeev, ATAL-FDP Coordinator, welcomed the Chief Guest, other dignitaries and the participants to the inaugural function and spoke about the selection of the topic. Dr. Bindu S., HOD, addressed the participants about online FDP and various initiatives by Electrical department of F. C.R.I.T Vashi. Dr. S. M. Khot discussed about the initiatives of FCRIT and Rev. Fr. Almeida talked about the importance of faculty development programs to achieve the quality education and the role of ATAL academy of AICTE to enhance the knowledge of faculties. It is followed by the keynote address of Dr. Vivek Agarwal and then the Vote of Thanks by Dr. Mini Namboothiripad, Co-coordinator.

Some screenshots of the inaugural function are as below.





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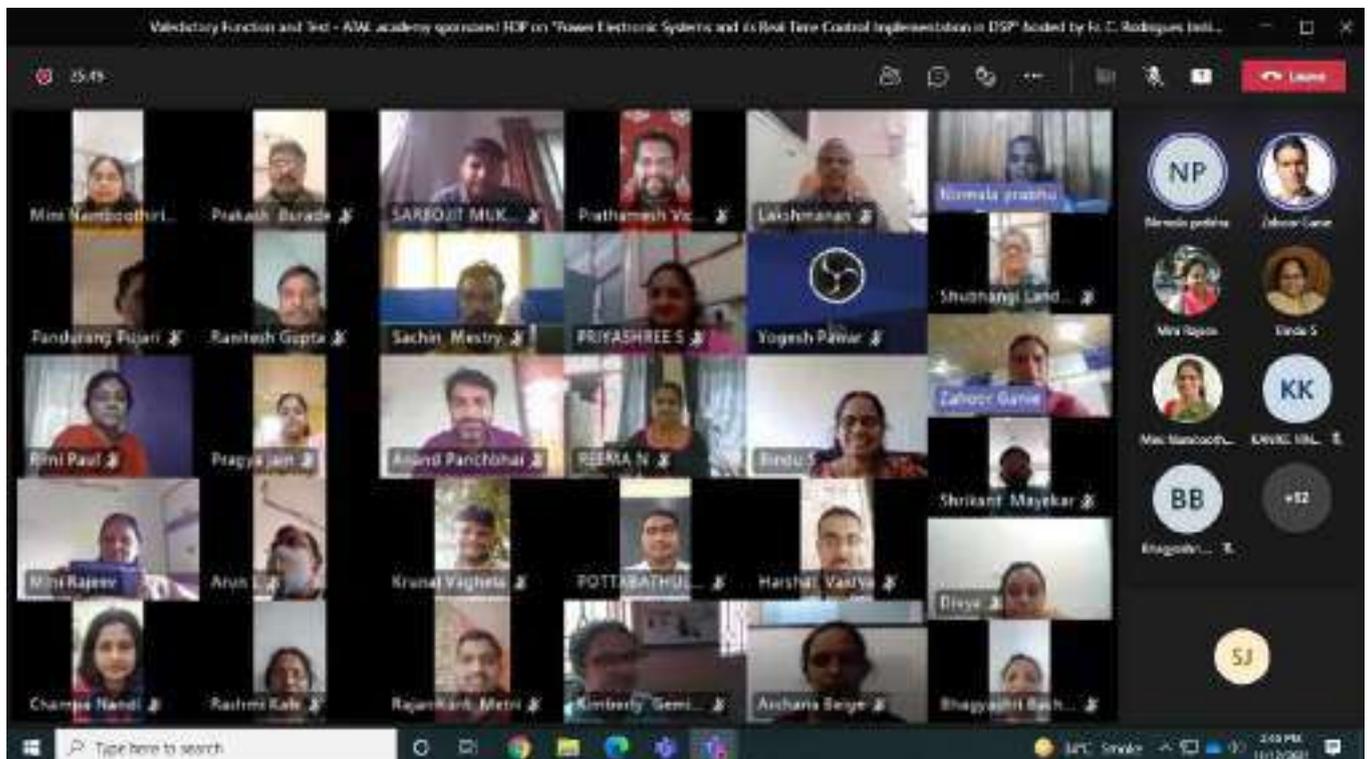
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| 149 | Miss Soumya | 22soumyakm@gmail.com | 9380137191 | Pda college of engineering | KARNATAKA |
| 150 | Mr. Dipankar Saha | dipankar.hetc@gmail.com | 9903768496 | Global Institute Of management & Technology | WEST BENGAL |
| 151 | Miss Swagatika Acharya | swagatikacharya1610@gmail.com | 7978411879 | College of Engineering and Technology, Bhubaneswar | ODISHA |

| | | | | | |
|-----|------------------------------|--------------------------------------|------------|--|----------------|
| 152 | Dr. Seethalekshmi K | seethalekshmi@ietlucknow.ac.in | 9336211001 | Institute of Engineering & Technology, Sitapur Road, Lucknow | UTTAR PRADESH |
| 153 | Mrs. Smitha Joseph | simie54321@gmail.com | 9496754134 | Govt Polytechnic College, Kalamassery | KERALA |
| 154 | Dr. Nilesh V. Shah | nilesh.shah@scet.ac.in | 8320450916 | Sarvajanik College of Engineering and Technology | GUJARAT |
| 155 | Mr. Vinod Kumar Yadav | vy748809@gmail.com | 9521886574 | ENGINEERING COLLEGE BIKANER | RAJASTHAN |
| 156 | Dr. Mahendra Rane | mahendra.rane@fcrit.ac.in | 9819072834 | Fr. C. Rodrigues Institute of Technology | MAHARASHTRA |
| 157 | Mr. NIRMALSINGH | nirmal.singh098@gmail.com | 7877626195 | DR. K N MODI UNIVERSITY NEWAI RAJASTHAN | RAJASTHAN |
| 158 | Mr. SUSHIL SUBHASH KARVEKAR | sushil.karvekar@walchandsangli.ac.in | 9860721979 | Walchand College of Engineering Sangli | MAHARASHTRA |
| 159 | Mrs. Monika Dabkara | 2020ree9020@mniit.ac.in | 8982881481 | MNIT | RAJASTHAN |
| 160 | Mrs. Bhagyashri Amol Bachute | mane.bhagyashree5@gmail.com | 8856933397 | shree siddheshwar womens college of engineering | MAHARASHTRA |
| 161 | Mr. Arun Kumar U | arun.udayakumarn@gmail.com | 9751268064 | Kathir College of Engineering | TAMIL NADU |
| 162 | Mr. Manivannan S | manivannans@bitsathy.ac.in | 9787404104 | Bannari Amman Institute of Technology | TAMIL NADU |
| 163 | Mr. DEEPAK SINGH | 2020ree9532@mniit.ac.in | 8273739323 | MNIT JAIPUR | UTTAR PRADESH |
| 164 | Mr. Rahul Dattatray Patil | 2020ree9535@mniit.ac.in | 9373374548 | Malaviya National Institute of Technology Jaipur (MNIT) | RAJASTHAN |
| 165 | Mr. Surapu Prasada Rao | prasad.surapu@gmail.com | 8919669902 | MNIT Jaipur | ANDHRA PRADESH |

| | | | | | |
|-----|---------------------------------------|----------------------------------|------------|---|-------------------|
| 166 | Mr. Anil Jakhar | 2020ree9026@mni t.ac.in | 8824478746 | Malaviya National Institute of Technology, Jaipur | RAJASTHA N |
| 167 | Mr. hitwik singh | 2020ppd5537@mni t.ac.in | 9953367130 | malaviya national institute of technology jaipur | UTTAR PRADESH |
| 168 | Mr. Amar Nath Chaurasiya | 2020ppd5465@mni t.ac.in | 7800219949 | MNIT Jaipur | UTTAR PRADESH |
| 169 | Mr. upendra kumar yadav | upendraiesee@yah oo.com | 7905407243 | MNIT Jaipur | RAJASTHA N |
| 170 | Mr. G K NAVEEN KUMAR | 2020ree9544@mni t.ac.in | 9717361624 | MNIT JAIPUR | ANDHRA PRADESH |
| 171 | Mrs. Pournima Pankaj Patil | pipatil@kkwagh.ed u.in | 9420112041 | K.K.W.I.E.E.R. Nashik | MAHARAS HTRA |
| 172 | Mr. ABRAR AHMED CHHIPA | abrar0613@gmail.c om | 9887771217 | Techno India NJR Institute of technology, Udaipur | RAJASTHA N |
| 173 | Mrs. Sonal Shashikant More | sonalmore555@gm ail.com | 9881870031 | Shree Siddheshwar Womens College of Engineering solapur | MAHARAS HTRA |
| 174 | Mr. POTTABATHUL A RAVITEJA | raviteja.ml123@g mail.com | 9676395020 | MLR INSTITUTE OF TECHNOLOGY | TELANGA NA |
| 175 | Mrs. Abhale Babasaheb Annasaheb | atul.abhale@gmail. com | 9096549454 | SND College of Engineering and Research Center | MAHARAS HTRA |
| 176 | Mr. Harshal Dattatray Vaidya | vaidyahd21@gmail. com | 9689610415 | Dr. D. Y. Patil Institute of Technology, Pimpri, Pune | MAHARAS HTRA |
| 177 | Mrs. Laxmibai | laxmi.r1990@gmail .com | 8618294346 | GECW,Kalaburgi | KARNATA KA |
| 178 | Mr. Shrikant Mayekar | shrikant.mayekar@ fcrit.ac.in | 7021223199 | FCRIT | MAHARAS HTRA |
| 179 | Mr. SHASHANK JAYANT SHUKL | shashank.s@fcrit.a c.in | 9768772934 | FCRIT | MAHARAS HTRA |
| 180 | Mr. ABHISHEK KANCHAN SHIWALKAR | abhishek0364@gm ail.com | 9923362190 | Fr. C.Rodrigues Institute of Technology, Vashi, Navi Mumbai | MAHARAS HTRA |

| | | | | | |
|-----|-----------------------------|--|------------|---------------------------------------|-------------|
| 181 | Mr. ARJUN G T | gta@mcehassan.ac.in | 7019080620 | Malnad College of Engineering, Hassan | KARNATAKA |
| 182 | Mr. Salil Madhav Dubey | salil.dubey3107@gmail.com | 8238753927 | IIT Bombay | MAHARASHTRA |
| 183 | Mr. Yadagiri Aerpula | Yadagiri.aerpula@mlrinstitutions.ac.in | 9030262125 | MLR Institute of Technology | TELANGANA |
| 184 | Miss MADHURI BODDIREDDY | madhuri.boddhiredy@gmail.com | 8099788020 | MLR INSTITUTE OF TECHNOLOGY | TELANGANA |
| 185 | Miss Vijayalakshmi K | vijik.rk@gmail.com | 9884892302 | SRMIST | TAMIL NADU |
| 186 | Mrs. Mrs G SAI MEGHANA | saimeghanaeee@gmail.com | 9110557631 | MLRIT | TELANGANA |
| 187 | Mr. Mr M Sreenivas Reddy | sreenivasareddy.mula@mlrinstitutions.ac.in | 9848816520 | MLRIT | TELANGANA |
| 188 | Mr. Harshal Sharadbhai Wani | hwani2288@gmail.com | 9714942242 | Government Engineering College Valsad | GUJARAT |

The screenshot of the participants taken during the valedictory function is :-



Some of the feedback received for the workshop are as below:



| Timestamp | 1. Name of Participant | 2. Your FDP email id | 3. How do you rate speaker's knowledge on the topic? (5 is highest) | 4. Please rate the content of slides/virtual aids (5 is highest) | 5. Please rate your overall experience of the Session (5 is highest) | 6. Any other comments |
|------------------------|------------------------|-------------------------|---|--|--|-----------------------|
| 2021/11/10 11:01:50 | Mahalakshmi Patil | fdpelect141@fcrit.ac.in | 5 | 5 | 5 | It was good session |

ATAL FDP on Power Electronic Systems and its Real Time Control Implementation in DSP

| | | | | | | |
|--|--------------------------------|-------------------------|---|---|---|--|
| AM GMT+5:30 | | | | | | |
| 2021/11/10 11:02:08 AM GMT+5:30 | NAGARAJA BODRAVARA | yashu200807@gmail.com | 5 | 5 | 5 | NICE SESSION THANK YOU |
| 2021/11/10 11:02:16 AM GMT+5:30 | Vaghela Krunal R | fdpelect108@fcrit.ac.in | 5 | 5 | 5 | Informative session on basics of designing a PCB |
| 2021/11/10 11:04:28 AM GMT+5:30 | Archana Belge | fdpelect52@fcrit.ac.in | 5 | 4 | 5 | Very Detailed Information about PCB design delivered. |
| 2021/11/10 11:04:51 AM GMT+5:30 | JEET DUTTA | fdpelect138@fcrit.ac.in | 5 | 5 | 5 | Well explained. |
| 2021/11/10 11:05:19 AM GMT+5:30 | Dr Priyashree S | priyashrees@bnmit.in | 5 | 5 | 5 | Very unique session, informative and most required for understanding of basics of PCB and hardware configuration of PE |
| 2021/11/10 11:05:19 AM GMT+5:30 | SMITHA JOSEPH | fdpelect153@fcrit.ac.in | 5 | 5 | 5 | Very Informative |
| 2021/11/10 11:05:20 AM GMT+5:30 | Mr. Chaitanya Sudhakar Jage | fdpelect109@fcrit.ac.in | 5 | 5 | 5 | Good session |
| 2021/11/10 11:06:01 AM GMT+5:30 | S.Ramprasath | fdpelect135@fcrit.ac.in | 5 | 5 | 5 | Very good session with lot of practical examples. Thank you sir |
| 2021/11/10 11:06:47 AM GMT+5:30 | Dr. Nilesh V. Shah | fdpelect154@fcrit.ac.in | 5 | 5 | 5 | Excellent Insight about considerations for PE PCB designing |
| 2021/11/10 11:08:10 AM GMT+5:30 | Ramesh G B | rameshgb@git.edu | 5 | 5 | 5 | Very nice session, this topic was very new to me. thank you Sir |
| 2021/11/10 11:19:27 AM GMT+5:30 | T.R.Guruprasaad h | fdpelect81@fcrit.ac.in | 5 | 5 | 5 | It was a great session and the very small inductance and the capacitor along with the gate resistor which creates a ringing effect and |

| | | | | | | |
|--|--|--|--|--|--|---|
| | | | | | | seeing it practically in the dso was also nice. |
|--|--|--|--|--|--|---|

Valedictory Session:





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Brief Activity/Event Report

Name of the Department/ Institute level Committee: Electrical Engineering

1. **Name of the Activity/Event** : VIDYUT
2. **Activity/Event Venue &Date:** Online – 25/2/2021
3. **Nature of Participants** : BE students.
4. **Number of Participants** :79
5. **Student Coordinator** : Rahul Kalva
6. **Staff Coordinator** :Mr. Abhishek Shiwalkar
7. **Brief Summary of the Activity/Event (in maximum 500 words):**

Topic Name- Professional Ethics.

Name of the speaker- Ms. Prachi Salvi

Manager, Business Ethics and Compliance,
Lupin Ltd, Mumbai.

- a. **Objectives** : Students should be aware about Professional Ethics as will be part of industry in future.
- b. **Technical Description** : Webinar conducted online using MS Team Platform.
- c. **Outcomes** : Knowledge of this topic will be helpful for life long learning and students will understand their responsibilities as an Engineer and working professional.
- d. **Summary of Feedback** :

| Sr No | Questionnaire | 5 | 4 | 3 | 2 | 1 |
|-------|--|----|-------|------|---|---|
| 1 | How relevant the lecture was to assess the need of Professional Ethics in professional life ? | 45 | 27 | 7 | - | - |
| 2 | How effective the talk was to make awareness about different roles and responsibilities in Industry? | 43 | 30 | 6 | - | - |
| 3 | How will you rate your understanding about the Ethical Values to be followed in professional life ? | 47 | 23 | 12 | - | - |
| 4 | Average rating | 45 | 26.66 | 8.33 | - | - |

Abhishek S.
Staff Coordinator

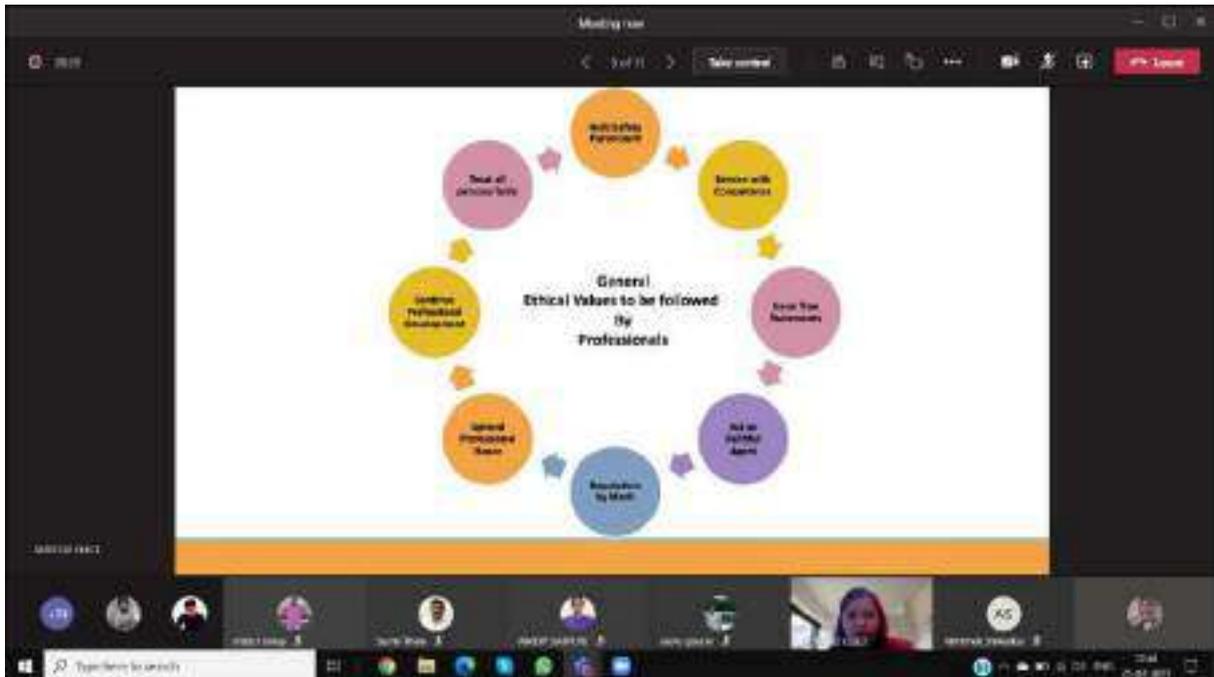
Dr.Bindu S
HOD



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e. Action to be Taken based on Feedback: Nil

8. Activity / Event Photograph :



Brief Activity/Event Report

Name of the Department/ Institute level Committee: Electrical Engineering

1. Name of the Activity/Event : VIDYUT
2. Activity/Event Venue &Date : Online Teams – 25/2/2021
3. Nature of Participants : SE and TE students.
4. Number of Participants : 109
5. Student Coordinator : Yashwant Patil
6. Staff Coordinator :Mr. Abhishek S.
7. Brief Summary of the Activity/Event (in maximum 500 words):

Topic Name- “Financial Literacy”

Name of the speaker - Ms. Shikha Mittal , Founder and Director, Be.artsy

Abhishek S.
Staff Coordinator

Dr.Bindu S
HOD



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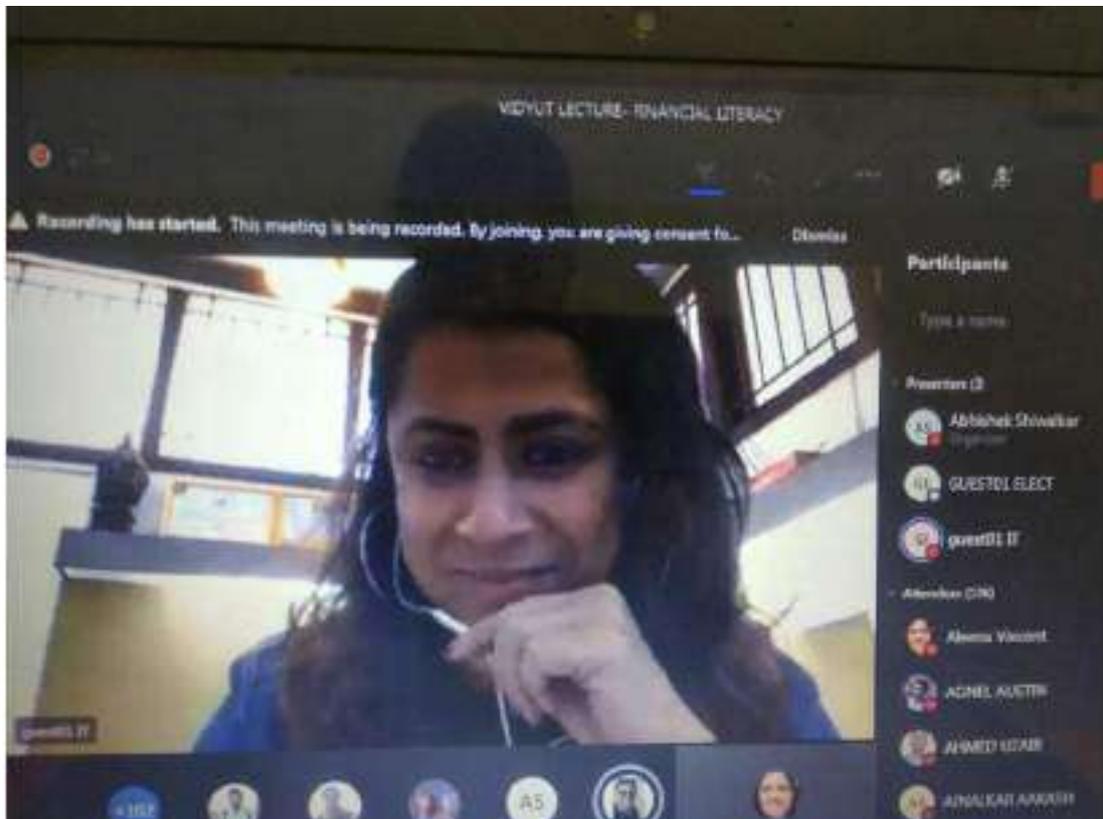
Vashi, Navi-Mumbai

- A. Objectives** : Students should be aware about Financial Literacy
- B. Technical Description** : Webinar conducted online using MS Team Platform.
- C. Outcomes** : Knowledge of this topic will be helpful for life long learning and students will understand the importance of Financial aspects of Projects.
- D. Summary of Feedback** :

| Sr No | Questionnaire | 5 | 4 | 3 | 2 | 1 |
|-------|---|----|----|-------|---|------|
| 1 | How important it is for an Engineering graduate student to be financial literate? | 67 | 25 | 4 | 1 | 1 |
| 2 | How would you rate your ability in understanding financial aspects of Engineering activity? | 24 | 52 | 20 | - | 2 |
| 3 | How would you rate your ability in comparing between different proposals based on cost for an Engineering activity? | 23 | 49 | 25 | - | 1 |
| 4 | Average rating | 38 | 42 | 16.33 | 1 | 1.33 |

f. Action to be Taken based on Feedback: Nil

9. Activity / Event Photograph :



Abhishek S.
Staff Coordinator

Dr. Bindu S
HOD



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Brief Activity/Event Report

Name of the Department/ Institute level Committee:

1. Name of the Activity/Event : Online Industrial Visit at MSEDCL Kalyan.
2. Activity/Event Venue & Date : 03/09/2021
3. Nature of Participants : Students of TE (Sem-V) and BE (Sem-VII).
4. Number of Participants : 144
5. Student Coordinator : Vijay Shinde and Zarif Mohd.
6. Staff Coordinator : Abhishek Shiwalkar
7. Feedback from students :

TE-SEM V

| Sr No | Questionnaire | 5 | 4 | 3 | 2 | 1 |
|-------|---|------|----|---|-----|---|
| 1 | How relevant was the industrial visit to relate your theoretical knowledge of Power System? | 47 | 17 | 4 | | |
| 2 | How do you rate your knowledge gained from online industrial visit to MSEDCL Kalyan ? | 36 | 25 | 6 | 1 | |
| 3 | Average rating | 41.5 | 21 | 5 | 0.5 | |

BE-SEM-VII

| Sr No | Questionnaire | 5 | 4 | 3 | 2 | 1 |
|-------|---|------|----|----|-----|---|
| 1 | How relevant was the industrial visit to relate your theoretical knowledge of Power System? | 35 | 25 | 10 | | |
| 2 | How do you rate your knowledge gained from online industrial visit to MSEDCL Kalyan ? | 40 | 15 | 14 | 1 | |
| 3 | Average rating | 37.5 | 20 | 12 | 0.5 | |

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

- a. **Objectives** : Main objective behind arranging industrial visit is students can correlate theoretical knowledge with practical knowledge. Students learned which equipment are used in substation and their function, location in substation in detail.

Staff Coordinator

HOD



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- b. **Technical Description** : The industrial visit was arranged in online mode because of Pandemic situation through Microsoft teams. Two students and one lab assistant visited MSEDCCL Kalyan to show live industrial visit to all students.

The switching station Located in kalyan near Lokdhara which is responsible for distributing Power to various Distribution Transformers of Kalyan zones. Switching Station is just used for taking multiple Feeders and capable of giving protections against any fault occurring in the feeders and Buses. The Protections are Provided by Lightning Arrestors which is located at the incoming side and the Protection against rest all other faults are given by Vacuum circuit breaker which has a very high-speed Arc Quenching properties under the voltage level of 33kV. The Isolator (Gang Operated Device) is employed for the taking necessary maintenances of Circuit Breaker. For the station supply, the station Transformer is used with Isolator and Drop Out fuse for the Protection purpose.

Gas insulated switching station which is extensively used now a days because of the space constraints in the modern world. Also, the operation sequence for the operation of circuit breaker have been studied. The batteries used for providing backup supply and the battery charger have also been studied.

- c. **Outcomes** : Students learned
- Basic equipment used in substation.
 - How equipment are installed and their location in substation.
 - Use of batteries and battery chargers for providing backup supply.

9. **Activity / Event Photograph** :

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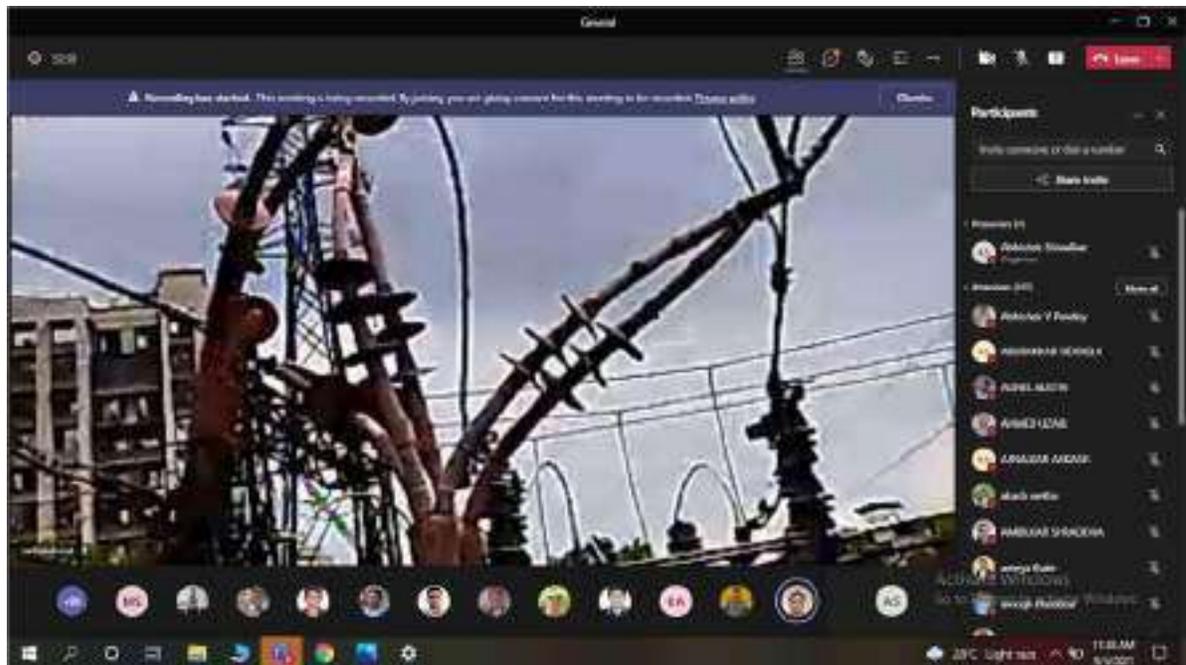
Staff Coordinator

Binder

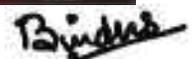
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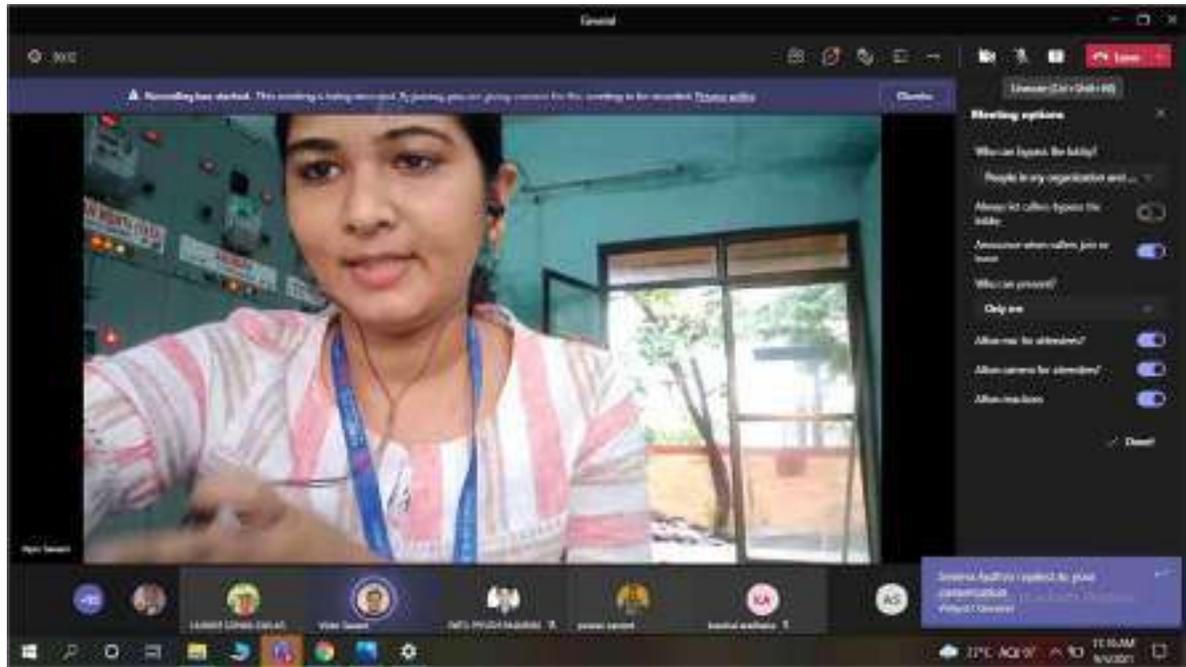



Staff Coordinator


HOD



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Staff Coordinator

HOD



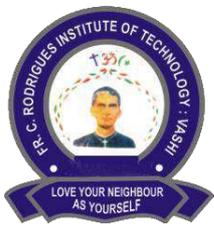
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IV Co-ordinator

Head of Department

Staff Coordinator

HOD



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Brief Activity/Event Report

Name of the Department/ Institute level Committee: IEEE SB

1. **Name of the Activity/Event** : Green Challenge
2. **Activity/Event Venue & Date** : 4th November to 5th December, 2020
3. **Nature of Participants** : Open to all
4. **Number of Participants** : 47
5. **Student Coordinators** : Akhilesh Mendon and Shruti Malpure
6. **Staff Coordinator** : Mrs Bindu R
7. **Brief Summary of the Activity/Event (in maximum 500 words):**

a. **Objectives** :

To motivate students to take steps in public interest to reduce power consumption and create awareness by accepting the Green challenge and contributing in accordance to their respective fields of interest.

b. **Technical Description** :

The IEEE STUDENT BRANCH, FCRIT organised a Green Challenge Competition starting 4TH November 2020. The competition was conducted digitally and students were asked to submit their work on via drive links.

The challenge was sponsored by Techno Associates Vidyut Pvt Ltd
Challenge was categorized in three fields : Technical, Literature, Art.

There was also a special recognition prize for participants who contribute significantly towards environment physically, for eg. Mass tree plantation drives.

Different sets of rules and regulations were formed and the same were explained to participants with the help of PDFs.



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c. Outcomes :

Various students from different colleges participated in the event and had submitted their work.

Cash prize worth One thousand was awarded to winners, one each from the three events. Furthermore, few runner-up awards were also declared.

d. Summary of Feedback : nil

e. Action to be Taken based on Feedback: nil

8. Activity / Event Photograph :

GREEN CHALLENGE
AN IEEE FCRIIT EVENT
BECAUSE EVERY GOOD DEED BEGINS AT HOME

Registrations are free and close on 20th November 2020
Exciting prizes worth ₹1000 to winners

Sponsored By:
Techno Associates Vidyalok Pvt. Ltd.

Registration Link

For detailed description of different categories
Click on the following sections

- TECHNICAL**
Create small projects that shows contribution towards Energy Conservation or environmental conservation
- ARTWORK**
Create (paintings, sketches, collage etc), Crafts -Diwali lanterns, models etc. which express the creator's imagination towards the green initiative
- LITERATURE**
Pour your heart out and write stories, articles, poems or haiku. Write for the need to switch to greener alternatives of energy
- ACTIVITY**
Activities like planting trees, practicing Energy Conservation at home and writing a report on the activity



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HOW DO I SUBMIT MY WORK?

Submissions are open from 8th November to 30th November

Registered participants can submit their works here

Participants are free to choose their desired way of participating in the Green Challenge
Multiple Submission are Allowed (maximum 3 in each section)

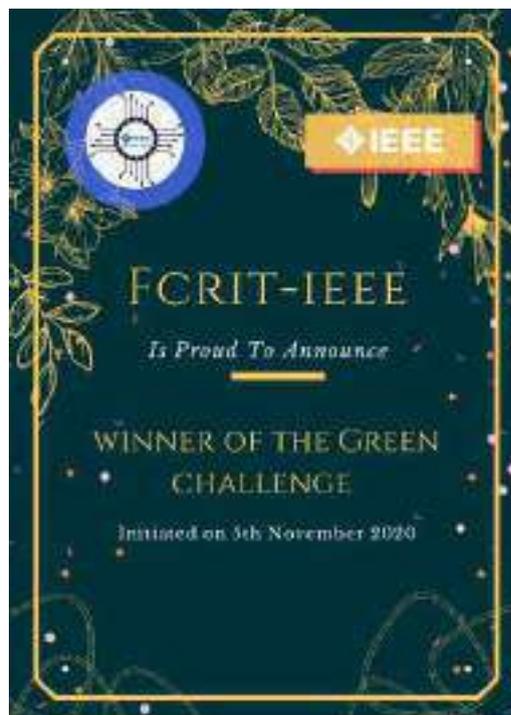
Thorough check for plagiarism will be conducted. Participants are thus advised to use resources from web for citations but not to copy from.

IEEE CERTIFICATES WILL BE GIVEN TO ALL PARTICIPANTS AS A TOKEN OF APPRECIATION

This Diwali Go green

Contact: fcrit2020ieee@gmail.com

Winners:





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SUSTHIRA - THE SOLAR INVERTER
Shravan Pahnaiach
The National Institute of Engineering, Mysuru
TECHNICAL WINNERS

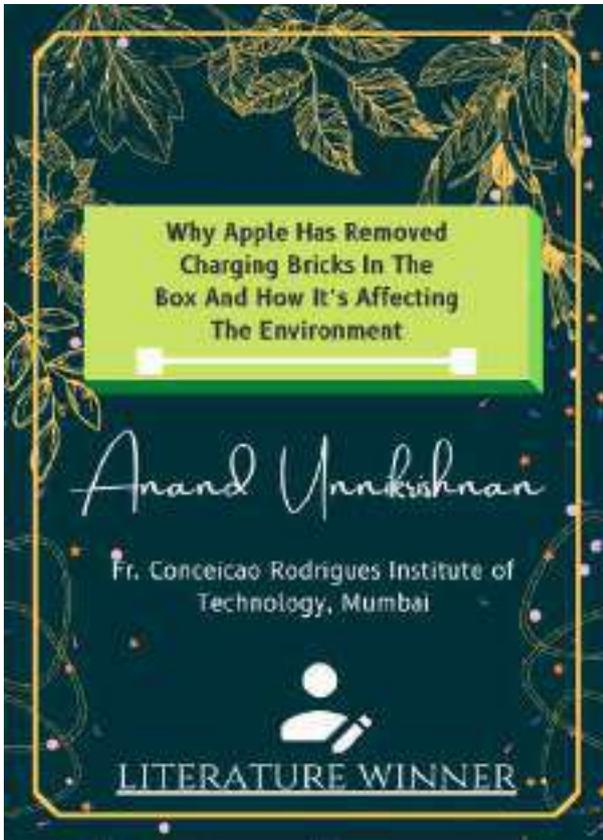
PROTECTION OF PLANTS FROM UNWANTED PESTS AND INSECTS USING PIR SENSOR.
Chinmay Vastak
Fr. Conceicao Rodrigues Institute of Technology, Mumbai
TECHNICAL WINNERS

50+ SAPLINGS
Vedant Rajput
Fr. Conceicao Rodrigues Institute of Technology, Mumbai
ACTIVITY WINNER

Why Apple Has Removed Charging Bricks In The Box And How It's Affecting The Environment.
Anand Unnikrishnan
Fr. Conceicao Rodrigues Institute of Technology, Mumbai
LITERATURE WINNER



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Event Report

Name of the Department/ Institute level Committee: IEEE FCRIT SB

1. **Name of the Activity/Event** : Talk with the Doc : Women Health
2. **Activity/Event Venue & Date** : 11th April, 2021; Google Meets
3. **Nature of Participants** : IEEE Female Student Members of FCRIT, female members of ICC for PPSHWESRG and female audience of all age groups
4. **Number of Participants** : 65
5. **Student Coordinator** : Shruti Malpure
6. **Staff Coordinator** : Mrs. Bindu R
7. **Brief Summary of the Activity/Event (in maximum 500 words):**
 - a. **Objectives** : To provide knowledge and guidance on women health ranging from menstrual hygiene, diet to sexual health, safe sex, fertility issues and many more.
 - b. **Technical Description:** IEEE FCRIT in collaboration with ICC for PPSHWESRG, organised an interactive session on 'Talk with the Doc : Women Health', on 11th April 2021 on Google Meets and the same was attended by the female audience of all age groups.

The speaker for the event was Dr. Devi R. , Infertility and IVF specialist (MBBS, MS (Obs-Gyn), FRM).

Starting with the event, the speaker discussed the problems faced by women of different age groups, various menstrual abnormalities and how to maintain



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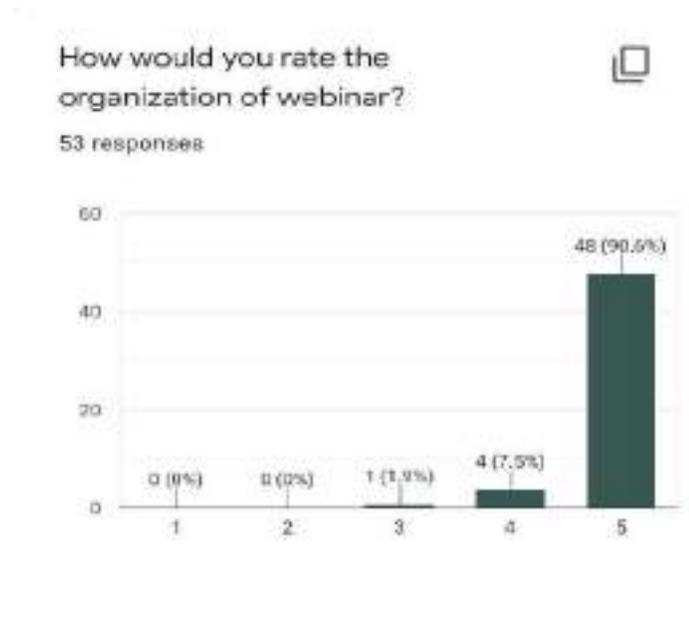
menstrual hygiene. Next, she gave an insight on PCOS and ways to handle it, various birth control methods, fertility issues, followed by which were the

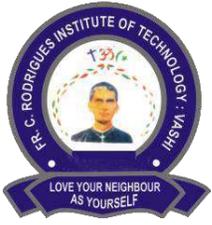
routines to be practiced for safe sex. Lastly, topics like breast self examination (BSE) and Uterine cancer were also discussed.

The session was very beneficial for women of all age groups as it touched upon all the problems women face during different phases of life.

c. Outcomes : The event was a great success, as the audience were able to interact freely and clear out their doubts. Also, we received good feedback from them.

d. Summary of Feedback :





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Are there any topics similar to the one covered today, which you would like to be made into a webinar?

15 responses

NA

mens and womens health

On sexuality

Stress relief techniques

I already submitted in the previous feedback. It was a wonderful session.

Yes Many topics

Pcod

Infertility: Causes and ways to curb

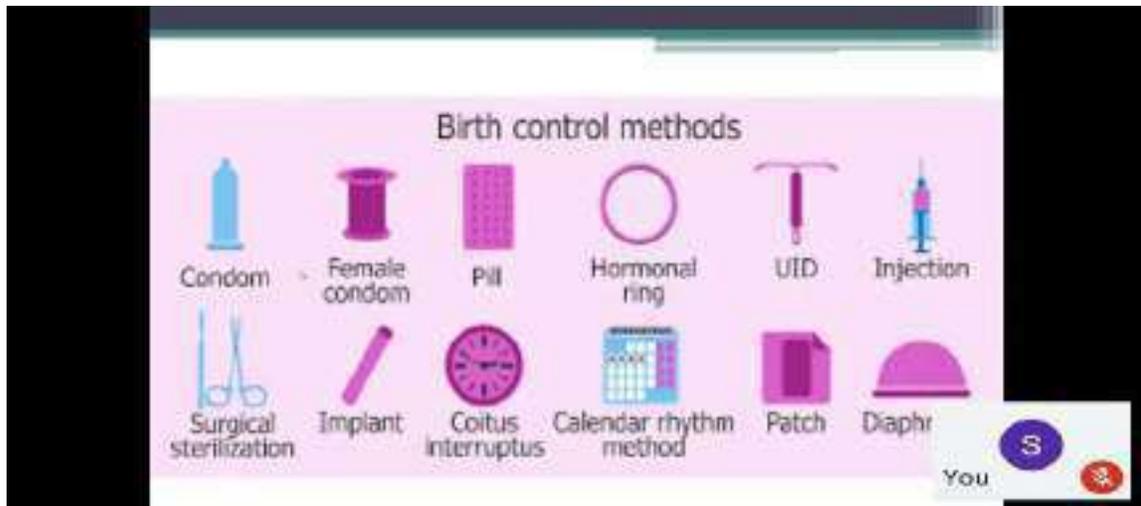
Yes

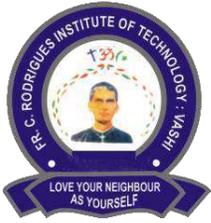
e. **Action to be Taken based on Feedback:** Based on the feedback received, the council has been encouraged to conduct more such sessions on related topics.

f. **Activity / Event Photograph :**



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IEEE & WOMEN'S CELL

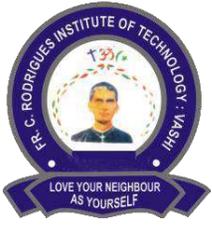
Talk with the Doc.
Women's Health

Speaker:
Dr. DEVI. R
Gynaecologist, Infertility and IVF specialist, MBBS, MS(Obs-Gyn), FRM

11th April, 2021,
Sunday
11 AM - 12:30 PM
Age: 16+

Click here to register

Certificates will be provided to all the attendees



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◆ IEEE X ICC For PPSHWES

Talk with the Doc

WOMEN'S HEALTH

DR. DEVI R

11th April, 2021,
Sunday
11 am-12:30 pm
Age:16+

GYNAECOLOGIST,
INFERTILITY AND IVF
SPECIALIST, MBBS,
MS(OBS-GYN), FRM



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

Brief Activity/Event Report

Name of the Department/ Institute level Committee: Electrical Engineering

1. **Name of the Activity/Event** : Marketing in Digital World
2. **Activity/Event Venue &Date** : 20th March, 2021; Google Meets
3. **Nature of Participants** : IEEE Student Members of FCRIT and fellow students of FCRIT and other colleges
4. **Number of Participants** : 32
5. **Student Coordinator** : Shruti Malpure
6. **Staff Coordinator** : Mrs. Bindu R
7. **Brief Summary of the Activity/Event (in maximum 500 words):**

a. Objectives :

To introduce to the students digital marketing, a new way of marketing in this digital world and its various aspects.

b. Technical Description :

IEEE FCRIT organised a webinar on 'Digital Marketing', on 20th March 2021 on Google Meets and the same was attended by students of FCRIT and other colleges. The speaker for the event was Mr. Sharan Pillai, an experienced marketing professional with working experience for 65+ brands.

Currently, he is leading Digital Media & Partnerships for Jio Creative Labs, also previously worked for Publicis India and Performics, Convonix. And also he was part of a non-profit organization project by Google to establish a business on the digital platform and currently working on The100LifeProject to help rural young minds to develop or set up their business online.

Mr Sharan Pillai started the webinar by defining what digital marketing is terming it as a combination of art and science with help of an example of an advertising digital campaign. Followed by this, he described the three key elements of digital marketing. Next, he talked about the career path in digital marketing by bifurcating the working domains in digital marketing into the agency side and the client-side and explained each one of them one by one. After this, he started with the skills required for being a digital marketer and then discussed the various opportunities available for engineers in this field with some of the companies name recruiting for these roles.

Bindu R
Staff Coordinator

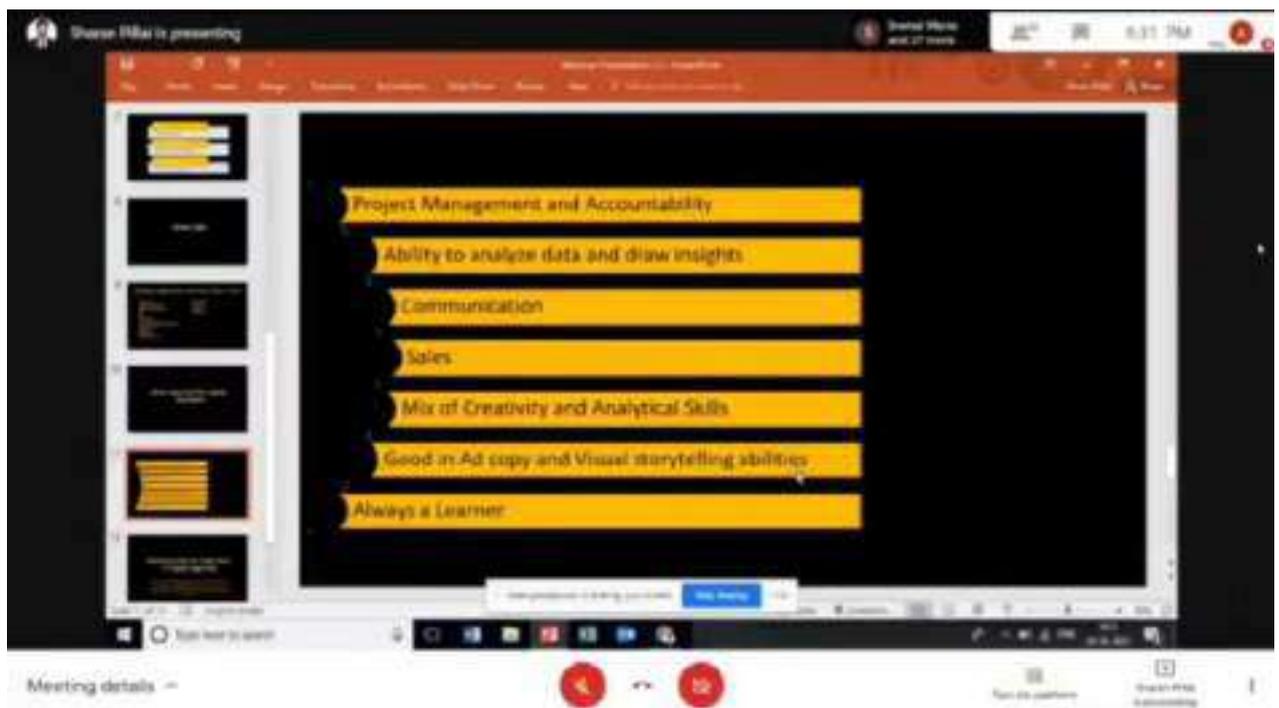
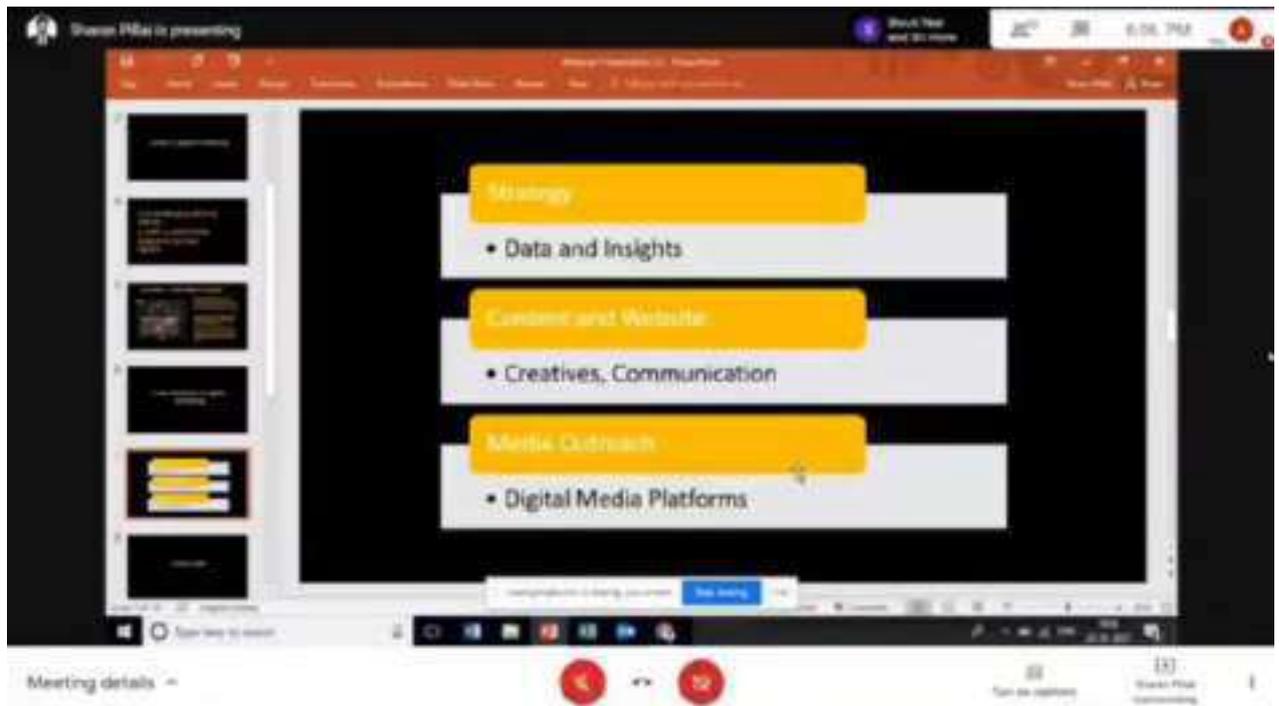
Bindu S.
HOD



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Bindu R
Staff Coordinator

Bindu S.
HOD



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Vashi, Navi-Mumbai

Brief Activity/Event Report

Name of the Department/ Institute level Committee: Electrical Engineering

- 1. Name of the Activity/Event** : Making music on a Computer
- 2. Activity/Event Venue & Date** : 13th February, 2021; Zoom
- 3. Nature of Participants** : Students of FCRIT and other colleges.
- 4. Number of Participants** : 10
- 5. Student Coordinator** : Akhilesh Mendon
- 6. Staff Coordinator** : Mrs. Bindu R
- 7. Brief Summary of the Activity/Event (in maximum 500 words):**

a. Objectives :

To introduce music composition to the students made on a computer, and its various aspects.

b. Technical Description :

IEEE FCRIT organised a webinar on 'Making music on a computer, one of the events from the "Student Instructor" series initiated by the IEEE FCRIT SB, on 13th February 2021 on Zoom and the same was attended by students of FCRIT and other colleges. The webinar was conducted by student of FCRIT itself Gokul Narayanan from the Electrical Department.

He is a music enthusiast, Electrical Engineering student. He also has released 3 of his originals. There is a class of software known as DAW (Digital Audio Workspace). The DAW he uses is Ableton Live 10 which is a workstation developed in Germany by the company Ableton Base.

Gokul Narayanan started the webinar by letting everyone know what is a DAW followed by, he started with getting familiar with the interface of the DAW e uses. Next he started introducing everyone with the features of the workspace. Then it was continued by various options and concepts for composition of music.

Followed by this, he composed a small track while explaining how to actually compose and the ideas which one should keep in mind.

The webinar was very helpful for all the aspiring music composers as well as a motivation for others towards this field.

Bindu R
Staff Coordinator

Bindu S.
HOD



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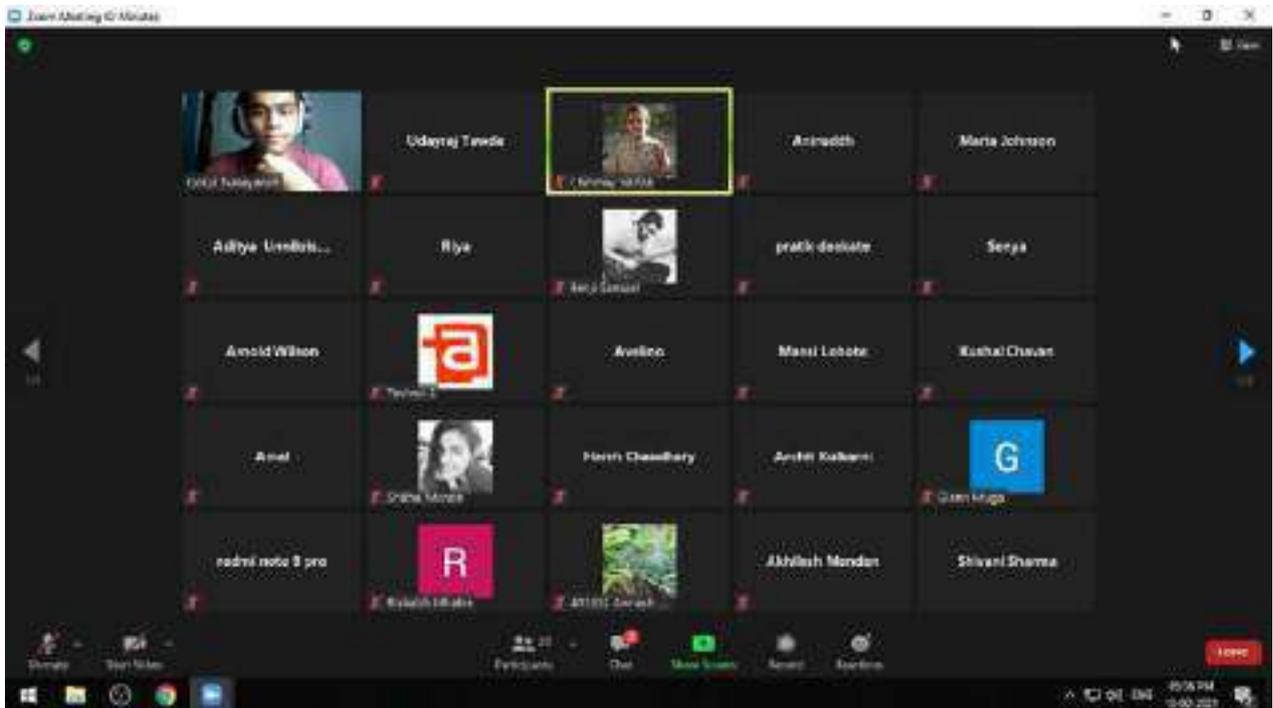
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c. Outcomes :

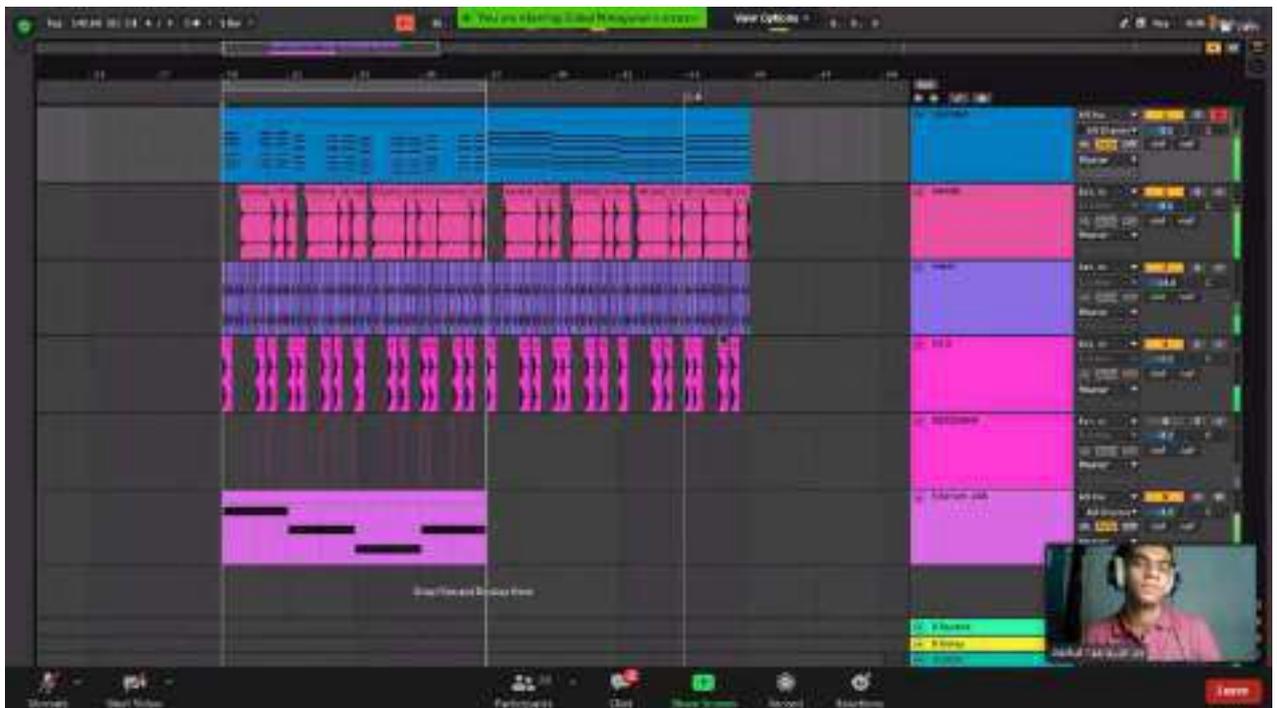
Webinar ended successfully with a melodious electronic music track being composed by none other than Gokul Narayanan. The event was a big success to all the organizers and co-ordinators and everybody involved as seen from the feedback received from the audience.

8. Activity / Event Photograph :





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Bindu R
Staff Coordinator

Bindu S.
HOD



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Brief Activity/Event Report

Name of the Department/ Institute level Committee:

Electrical Engineering – IEEE Council

1. **Name of the Activity/Event** : Avidhrita – Ideathon (The event which was planned during Etamax got cancelled at the last minute due to the lack of Participants)
2. **Activity/Event Venue & Date** : 25th to 27th February 2021
3. **Nature of Participants** : Undergraduate students
4. **Number of Participants** : Cancelled
5. **Student Coordinator** : Akhilesh Mendon
6. **Staff Coordinator** : Mrs. Bindu R
7. **Brief Summary of the Activity/Event (in maximum 500 words):**

a. Objectives :

To invite students to brainstorm and bring forth ideas on various fields under the theme of 'Sustainable Future -Smart Cities' in a competition judged by industry experts.

b. Technical Description :

An idea in its raw form is unstoppable once conceived and has the potential to resolve issues in a way that was not thought of before. So, you take this idea and model it in the eyes of industry standards. But, what if you are constrained by the limited availability of resources? As we fast progress as a society in terms of technology and sophistication, we exhaust our resources at the same exponential speed. And this may hinder and cripple our progress towards building smart cities.

Once having completed registrations, teams will be provided with 6 domains under this theme, which form the lifeline of any city. You are to choose one domain. Furthermore, you are to build your own problem statement, constructed from your idea, and provide a solution to the same that aims at utilising existing resources to drive humanity towards the age of smart cities.



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Teams would be judged on the basis of their performance in the presentation round as well as ability to express their ideas in the most dilute and simplest form in the abstract stage.

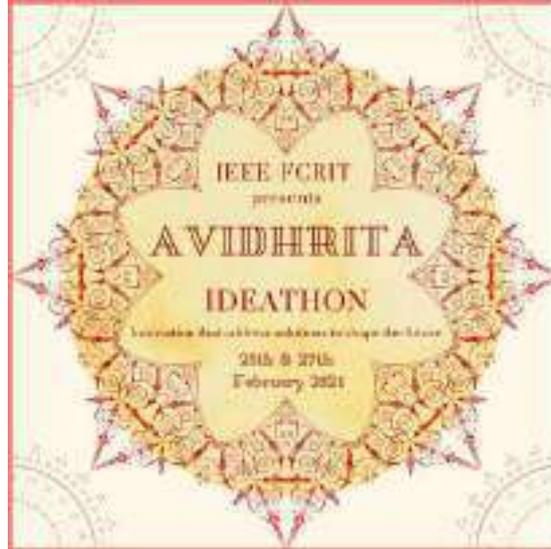
- c. Outcomes : NA
 - d. Summary of Feedback : NA
 - e. Action to be Taken based on Feedback: NA
8. Activity / Event Photograph :



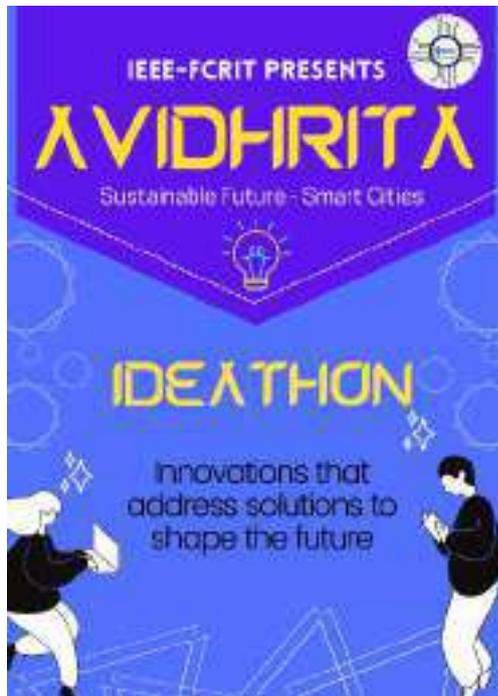
The banner for the event



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Instagram Post promoting the event on the social media platform



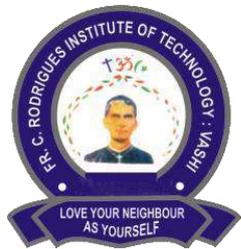
The cover page of the brochure containing all the details of the event



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A page out of the brochure talking about the council



Fr. C. Rodrigues Institute of Technology

Department of Electrical Engineering

Sector - 9A, Vashi, Navi Mumbai – 400 703, INDIA.

Telephone: 022-2777 1000, 2766 1924, 2766 0618. Fax: 2766 0619

Website: www.fcrit.ac.in

Brief Activity/Event Report

1. Name of the Activity/Event : TECH-TONIC 2021
1. Activity/Event Venue & Date : 20th March 2021
2. Nature of Participants : Students of sem 2,4,6,8
3. Number of Participants : 28
4. Student Coordinator : EESA council
5. Staff Coordinator : Mrs. Harshada Bhosale
6. Brief Summary of the Activity/Event (in maximum 500 words):

a. Objectives :

- 1.To engage students positively in lock down
- 2.To develop event management skills of EESA students

b. Technical Description :

Different events were organised under TECH-TONIC 2021 online for Electrical students by EESA council members. The events included Scribble, Antakshari and online Quiz competition consisting of Technical and Aptitude Questions.

c. Outcomes :

Active participation of students and event organising and management skills by EESA council members.

d. Summary of Feedback : No. of students - 28

| Sr.No. | Questions | 5 | 4 | 3 | 2 | 1 |
|----------------|--|----|---|---|---|---|
| 1 | How satisfied were you with the event? | 24 | 1 | 3 | - | - |
| 2 | How well was the event structured ? | 22 | 5 | 1 | - | - |
| 3 | How would you rate the organization and management of the session on a scale of 1-5? | 23 | 3 | 2 | - | - |
| Average Rating | | 23 | 3 | 2 | - | - |

e. Action to be Taken based on Feedback: Nil

Lennard F. D'Souza
Student Coordinator

Mrs. Harshada C.B.
Staff Coordinator

Dr. Bindu S.
HOD



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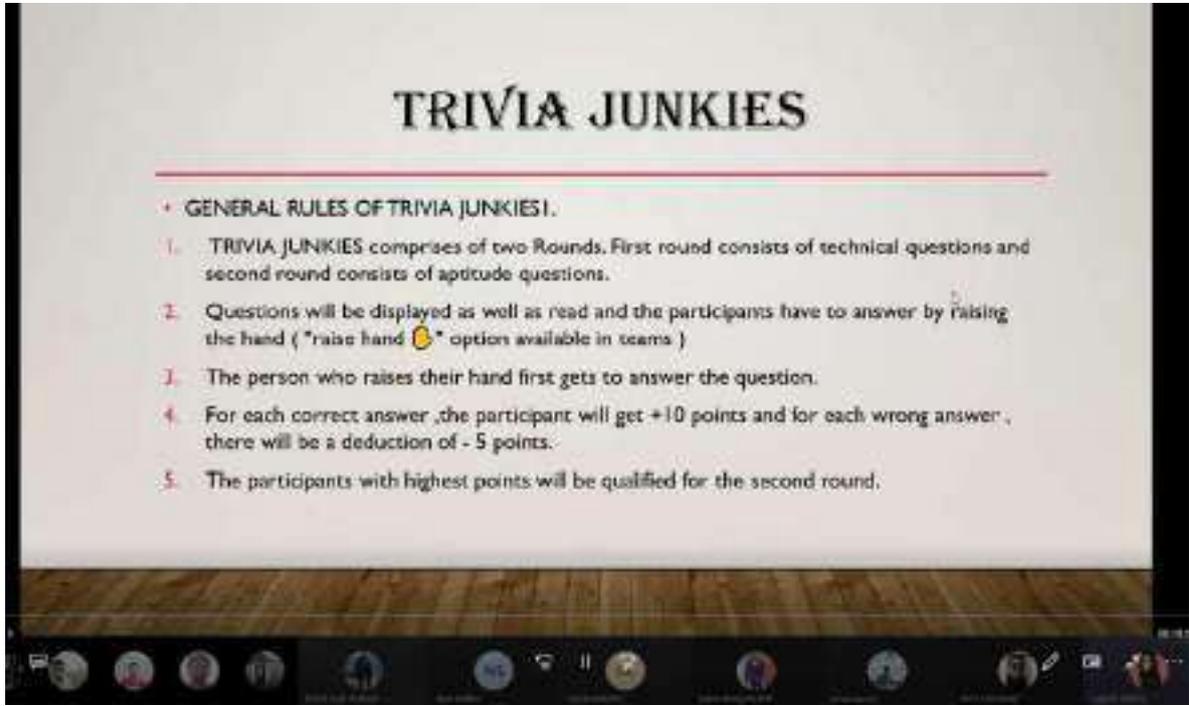
Department of Electrical Engineering

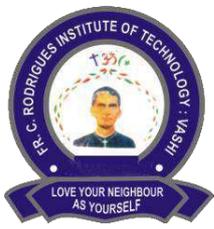
Sector - 9A, Vashi, Navi Mumbai – 400 703, INDIA.

Telephone: 022-2777 1000, 2766 1924, 2766 0618. Fax: 2766 0619

Website: www.fcrit.ac.in

7. Activity / Event Photograph :





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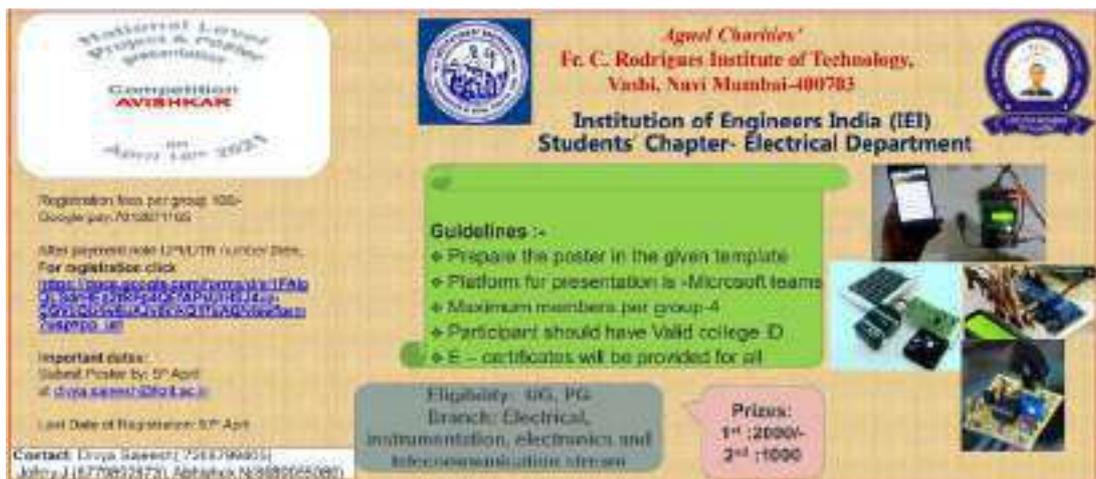
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Brief Activity/Event Report

Name of the Department/ Institute level Committee: IEI student chapter

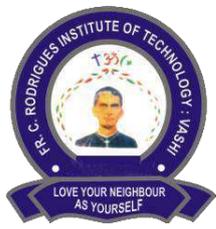
1. Name of the Activity/Event : Avishkar Project/Poster Presentation competition
2. Activity/Event Venue & Date : Zoom, 16th April 2021
3. Nature of Participants : Engineering students from colleges in India
4. Number of Participants : 24
5. Student Coordinators : IEI council
6. Staff Coordinator : Mrs. Divya Sajeesh
7. Brief Summary of the Activity/Event (in maximum 500 words):
 - a. Objectives : 1. To enhance students' knowledge with their creative streak and express their ideas
:2. To develop the skill of management
 - b. Technical Description :

A brochure was prepared for the competition and circulated among various engineering colleges in India.



Brochure of the Avishkar Competition

Total 24 groups registered and participated for the competition. The project competition was judged by Mr. Bennadit Nadar, ETAP Automation and



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Vashi, Navi-Mumbai

poster competition was judged by Ms Rachel Philip, Tej Control Systems Pvt Ltd.

The group which won the first and second position is shown in the table below

| Project competition winners | | | |
|------------------------------------|--|---|----------------------|
| Sr.No | Name of Group member and College | Title of project | Amount |
| 1 | Kabir Manoj Ohekar St. Francis Institute of Technology | Electromyographic Signal Processing With Application To Bionics | 2000/- (first prize) |
| 2 | PRATIK MEVADA Atharva College of Engineering | Covid-19 Screening Bot | 500/- (second prize) |
| 3 | ARCHIT RAUT Theem College of Engineering, Boisar & Vishwaniketan's Institute Of management entrepreneurship and engineering technology, Khalapur | Onion Ride Search engine and Privacy android browser | 500/- (second prize) |
| Poster competition winners | | | |
| Sr.No | Name of Group member | Title of poster | Amount |
| 4 | MONISH MEHER Fr. C. Rodrigues Institute of Technology, Vashi | Remote Access Remote Control (RARC) | 1000/- (first prize) |
| 5 | RUSHIKESH ARJUN PADIR Fr. C. Rodrigues Institute of Technology, Vashi | Automatic wireless water level controller | 500/- (second prize) |

- c. **Outcomes** : 1. They were able to show case their ideas and presentation skills
: Coordinators were able develop their skill to organise the event
- d. **Summary of Feedback** : Most of the Students found the session useful and knowledgeable.
- e. **Action to be Taken based on Feedback:** Many such competition has to be conducted.

8. Activity / Event Photograph :



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