



Agnel Charities'

Fr. C. Rodrigues Institute of Technology,

Vashi, Navi-Mumbai

Brief Activity/Event Report

Name of the Department: EXTC: IETE-ETSA

1. Name of the Activity/Event : Technical Session: Think It Make It
2. Activity/Event Venue & Date : 28th February 2024, 3.30 pm to 5.30 pm
3. Nature of Participants : Students of SEM IV and VI of EXTC Dept.
4. Number of Participants : 131
5. Student Coordinator : Mr. Neeraj Patil, Mr Rahul Deoghare
6. Staff Coordinator : Dr. Prasad Kulkarni, Ms. Sneha Revankar
7. Recourse Person: Mr. Hrithik M, Founder-Directronics, Navi Mumbai
8. Brochure: -



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

a. Objectives :

1. To acquaint the students with the robotics designs and its automation.
2. To Make students aware of mechanical assembly and selection electronics components for desired robo (Bot).


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b. **Technical Description** : IETE-ETSA students' chapter organized a session on robotic designed entitled ,“Think It Make”, on 28th February 2024 for the students of EXTC department. The theme of the seminar was based on Robo Making and students were able familiar about the mechanical assembly i.e., chassis, wheels. Mr. Hrithik has also shown the electronics component such DC motor, motor driver, battery and development board. Further Mr. Hrithik also covered various aspects of robot construction, including mechanical design, electronic components, sensors, and programming techniques as shown below.

Mechanical Design: Principles of robot construction, including frame design, locomotion systems, and gripper mechanisms.

Electronics and Circuitry: Basics of electronic components, circuits, and wiring for robot control and power distribution.

Sensors and Actuators: Types of sensors (e.g., proximity sensors, accelerometers) and actuators (e.g., motors, servos) used in robotics.

Programming: Introduction to programming languages (e.g., Arduino, Python) and platforms for controlling robots' behaviour and interactions

Troubleshooting and Debugging: Techniques for identifying and resolving common issues encountered during robot construction and programming.

c. **Outcomes :**

PO-5: Modern tool usage: The participants have used computer based tool i.e., integrated design environment to edit, test, debug and download the automation program in to microcontroller to drive the bot.

PO 8: Ethics: The participants have followed professional ethics and responsibilities and norms of the engineering during designing.

PO 9: Individual and team work: The given task was completed in team.

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Brief Activity/Event Report

Name of the Department: EXTC

1. **Name of the Activity/Event** : Seminar on Cyber Crimes, Narcotics and Preventive Measures
2. **Activity/Event Venue & Date** : 25th January, 2024 1.30 pm to 2.30 pm
3. **Nature of Participants** : Students of Sem IV and Sem VI of EXTC Dept.
4. **Number of Participants** : **58**
5. **Student Coordinator** : Ms. Rasika
6. **Staff Coordinator** : Dr. Pranali Choudhari
7. **Recourse Person** : Dr. Vishal Mane
8. **Brochure**: - Nil
9. **Brief Summary of the Activity/Event (in maximum 500 words):**

a. Objectives :

1. To create awareness among the students regarding the cybercrimes in the day-to-day life.
2. To educate the students about the preventive measures to avoid the cybercrimes and the helpline numbers for it.

b. Technical Description :

IETE-ETSA students' chapter organized an expert lecture on "Cyber Crimes, Narcotics and Preventive Measures" for the EXTC students on 25th January, 2024.

The session was conducted by the Navi Mumbai Cyber cell. The speaker was Dr. Vishal Mane, Assistant Police Inspector, Navi Mumbai police

The speaker guided the students about the various cyberattacks that could happen in the day to day life. He also informed the students about the cyber cell complaint numbers : **022-**

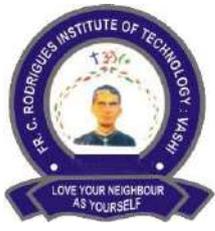
22160080 OR 1930

A few guidelines given for secure transactions were:

- a. Choose an account with two factor authentication
- b. Create a strong password
- c. Secure your computer and keep it up-to-date
- d. Avoid clicking through emails
- e. Always log out when you are done

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- f. Monitor your accounts regularly
- g. Do not share OTPs with anyone
- h. Avoid reviling too much personal info on social sites such as facebook
- i. Do not scan any QRs for receiving a payment.

c. Outcomes :

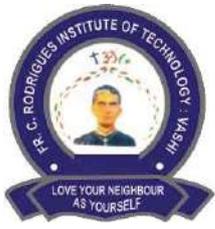
PO 6: Engineer and Society: Speaker guided the students on being aware of the cyber crimes

PO 12: Life-long learning: Speaker emphasized on the relevance and importance of Cyber awareness and also the various precautions to mitigate the cyber crime related problems.

d. Attendance of Participants:

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e. Summary of Feedback : Attached along with.

e. Action to be Taken based on Feedback:

Lectures on Awareness on Cybercrimes and mitigation techniques will be organised for the students to help them be a responsible and cyber aware.

10. Activity / Event Photograph:



Dr. Mane delivering a seminar on Cyber security



Seminar being attended by SE and TE EXTC students



Dr. Mane appreciated by Dr. Pranali for the informative talk



Seminar being attended by SE and TE EXTC students


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Organisers and the Delegates from Navi Mumbai Cyber Cell

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Brief Activity/Event Report

Name of the Department: EXTC: IETE-ETSA

1. **Name of the Activity/Event** : **Technical Poster Making Competition**
2. **Activity/Event Venue & Date** : **11th January 2024, 3.30 pm to 4.30 pm**
3. **Nature of Participants** : **Students of SEM III and V of EXTC Dept.**
4. **Number of Participants** : **103**
5. **Student Coordinator** : **Mr. Neeraj Patil, Mr Rahul Deoghare**
6. **Staff Coordinator** : **Dr. Prasad Kulkarni, Ms. Sneha Revankar**
7. **Recourse Person:** **Tabled in 8(b)**
8. **Brochure:** -



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

a. Objectives :

1. The students should be able to present technical fields i.e., Microcontroller, Analog, Digital, Computer network and Image processing in a concise and visually engaging format.


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2. The students should be able to select and use a tool to develop the technical content in visual form i.e., Technical poster.

b. Technical Description : IETE-ETSA students' chapter organized a technical poster competition on 11th January 2024. The theme of the poster was based on Analog Electronics, Digital Electronics, Image Processing, Microcontrollers and Computer Networks and students were free to select any one theme from these. The students had developed poster using computer tools and presented at the venue. A team of jury evaluated the poster based on theme, Creativity, Contents, Presentation Skills and Practical implications. The panel of the judges with the evaluation venue were listed below.

Sr. No.	Venue	Theme	Panellist
1	AX315	Microcontroller	Mr. Yogesh C, Ms Tejaswita
2	AX311	Digital Electronics	Ms. Jennifer , Ms. Asmita
3	AX502	Analog Electronics	Ms. Manita
4	AX309	Image Processing	Dr. Archana Shirke, Ms. Anita
5	Ax310	Computer Network	Dr. Anant K , Ms. Amruta

The result of the competition is listed below.

Sr. No	Sem	Name of the Group Members	Category
1	IV	Dnyana navale	Analog Electronics
2	VI	Adithya Chettiyar Darshan Ahire Vaishnavi Hanji Komal Mohod	Microcontroller
3	II	Ratika Nadar Riddhi Maniyar Mrunmayi Khedkar	Image Processing
4	IV	Yashita Dudskar Adithya Krishna Aditi B Sanika Shete	Computer Networks
5	VI	Arnav jade Abhinav Pandey Kartikeya phale Nandan Sawant	Digital Electronics

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The prize distribution of the completion was organized on 25th January 2024 at 2.30 p.m. by hands of Dr. Vishal Mane, Assistant Police Inspector, Cyber Crime Expert, Navi Mumbai.

c. Outcomes :

PO-5 : Modern tool usage : The participants have used computer based tool i.e., canva and power points to design a technical posters .

PO 8: Ethics: The participants have followed professional ethics and responsibilities and norms of the engineering during designing and presenting the poster.

PO 9: Individual and team work: The given task was completed in team.

PO 10: Communication: The teams had presented their poster selected theme during evaluation process.

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**Poster Evaluation by the Jury
(Microcontroller)**



**Poster Evaluation by the Jury
(Image Processing)**



**Prize Distribution by Dr. Vishal Mane ,
API, Navi Mumbai**



**Prize Distribution by Dr. Pranali
Chaudhari ,Associate Prof. and Assistant
HOD , EXTC ,FCRIT Vashi**

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Brief Activity/Event Report

Name of the Department: EXTC: IETE-ETSA

1. Name of the Activity/Event : Technical Talk : Micro-2023
2. Activity/Event Venue & Date : 2nd September 2023 10.00 am to 1.30 pm
3. Nature of Participants : Students of SEM III and V of EXTC Dept.
4. Number of Participants : 122
5. Student Coordinator : Mr. Neeraj Patil, Mr Rahul Deoghare
6. Staff Coordinator : Dr. Pranali Choudhari, Ms. Sneha Revankar
7. Recourse Person: Tabled in 8(b)
8. Brochure: -



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

a. Objectives :

1. To acquaint the students about the innovation and its importance for sustainability. Industry.
2. To acquaint students about the current IoT trends in the Industry.

b. Technical Description :

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IETE-ETSA students' chapter organized a lecture series for the EXTC students on 2nd September 2023. Bandwidth – Dept. Magazine was published by Rev. Fr. Seby Rodrigues, Assistant Managing Director, ATEC Vashi .

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

Sr. No .	Name and Affiliation of Resource Person	Content
1	Mr. Satish Kashayap, CEO and CO-Founder of Drona Pay	How the innovation is constantly surprising me!”
2	Mr. Govind Gaundalkar, Partner Microdevice Technologies	IoT

Mr Satish's talk highlighted three significant points :

- ✓ Innovations are happening in all sectors
- ✓ Every Skill is Important/Significant.
- ✓ Identify the sectors relevant to the utility of your skill.

Mr. Govind covered the design and application aspects of Inter of Things. He emphasized on the importance of practical learning and simple innovations that can be implemented by the student in the day-to-day life.

c. Outcomes :

PO 7: Environment and sustainability & PO 8: Ethics: Speaker guided the students on innovation, sustainability, ethics and motivated them for innovation.

PO 12: Life-long learning: Speakers also covered the current trends in the industry. They also briefed about the expected skill sets of core branch from the students. Finally asked students to find their needs and become a lifelong learner to achieve the requirement of professional career.

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f. Action to be Taken based on Feedback:

Lecture-series of recent trends will be organised by IETE-ETSA to bridge the gap between industry and education. This also helped students to select their academic projects.

10. Activity / Event Photograph:




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Brief Activity/Event Report

Name of the Department: EXTC: IETE-ETSA

1. Name of the Activity/Event : Workshop on Current Trend
2. Activity/Event Venue & Date : 2nd September 2023 12.15 pm to 1.45 pm
3. Nature of Participants : Students of SEM III and V of EXTC Dept.
4. Number of Participants : 111
5. Student Coordinator : Mr. Neeraj Patil, Mr Rahul Deoghare
6. Staff Coordinator : Dr. Pranali Choudhari, Ms. Sneha Revankar
7. Recourse Person: Tabled in 8(b)
8. Brochure: -



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

a. Objectives :

1. The students should be able to develop code using Smowcode i.e., industry-grade visual coding language for ESP32.
2. The students should be able to register, upload and download the information using freeware cloud. Smowcode i.e., industry-grade visual coding language for ESP32.

b. Technical Description : IETE-ETSA students' chapter organized a workshop on Smowcode for the semester III and IoT WiFi Module with Think-speak for semester

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V EXTC students on 2nd September 2023. This workshop was also technically supported by Sai-Tronics , Kamothe , Navi Mumbai.

Mr. Santosh Kamble demonstrated the registration process of Think-speak cloud. He also shown the process of uploading and downloading of the information using ESP32 microcontroller. Mr. Adhik and Mr. Shubham covered the low level microcontroller coding techniques i.e., smow code used in industry. They have also used ESP32 microcontroller to demonstrate the application.

Sr. No .	Name and Affiliation of Resource Person	Content
1	Mr. Santosh Kamble, Assistant Professor, Shah and Anchor COE, Mumbai	IoT WiFi Module with Think-Speak
2	by Mr. Shubam Teli and Mr. Adhik Mewada Operations, Smowcode	SmowCode –Fastest Advance Coding

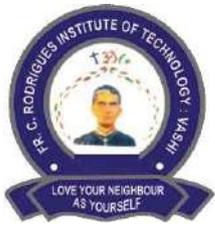
c. Outcomes :

PO-5 : Modern tool usage : Resource person covered the use of IDE and coding techniques for microcontrollers applications.

PO 12: Life-long learning: Resource person covered current industry graded fourth generation language for hardware programming. Finally asked students to find their needs and become a lifelong learner to achieve the requirement of professional career.

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10. Activity / Event Photograph:



Session on IoT by Mr. Santosh Kamble



Session on Smowcode by Mr. Shubham and Mr Adhik

11. Sample Certificate: Sample copy of Certificate given to Participant by Resource Person



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