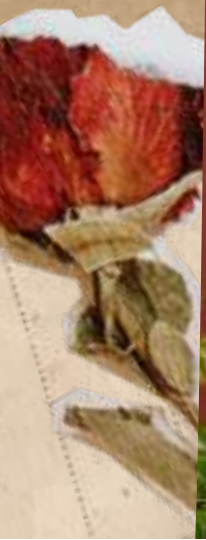




FR. C. RODRIGUES INSTITUTE OF
TECHNOLOGY

BANDWIDTH

2023-24



Patrons



— REV. FR. —
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— DR.S. M. KHOT —
— PRINCIPAL —
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— DR. MILIND —
— SHAH —
— HOD, EXTC FCRIT —



— MRS. SNEHA —
— REVANKAR —
— ASSISTANT —
— PROFESSOR, EXTC —

Editor in Chiefs

— DR. PRASAD —
— KULKARNI —
— ASSISTANT —
— PROFESSOR, EXTC —



TYPESETTING TEAM



NEERAJ PATIL



RAHUL DEOGHARE



RAJ SAWANT



KARTIK SONAWANE



**ANUSHKA
CHAUKE**



**MOHIT
DESAI**



**ATHARVA
BACHAL**



**SACHIN
MALPE**

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EXTC



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BE

HOD'S DESK

"DEVELOP A PASSION FOR LEARNING. IF YOU DO, YOU WILL NEVER CEASE TO GROW"
BY ANTHONY J. D'ANGELO.



DR. MILIND SHAH

Dear students and colleagues,

It gives me great pleasure to announce that our Electronics and Telecommunication engineering department is publishing a newsletter in the month of September-2023. The newsletter will highlight the achievements of our staff and students throughout the previous academic year 2022-23.

Our department has had an incredible year, with many successful events and achievements to celebrate. First, please join me in congratulating the Department teachers and student for the following achievements:

1. Dr. Megha Kolhekar received Ph.D. Degree from IIT Bombay.
2. Three Research Scholars Successfully Completed PhD from EXTC Department under the Supervision of Dr. Milind.
3. Dr. Pranali Choudhari worked as a consultant for an external project: TRISH (IIT Mandi), Plantech Pvt Ltd, and Selec Control.
4. Maria S. Belwalkar (currently BE EXTC student) won Gold medal in the 32nd All India Kubota Cup Karate Championship 2023.

In addition, our faculty members have published numerous research papers in reputable journals, presented their work at national and international conferences, and received recognition for their outstanding contributions in their respective fields. Our students have also made us proud by winning competitions, participating in various projects, and completing internships at top companies. The newsletter will showcase their accomplishments and contributions to the department's success.

I would like to thank the editorial team for their hard work and dedication in putting this newsletter together. I encourage everyone to take the time to read it and celebrate the achievements of our department.

I am confident that our department will continue to thrive in the future, and I look forward to seeing even more accomplishments from our staff and students in the upcoming years.

Best Regards!

Dr. Milind Shah

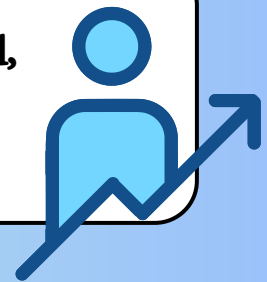
Professor & Head, Department of Electronics and Telecommunication Engineering.



DEPARTMENT VISION & MISSION

VISION

To create professionally competent, research oriented, disciplined, socially and environmentally sensitive Electronics and Telecommunication engineers.



MISSION

To achieve academic excellence by imparting quality education and training in science, electronics, and telecommunication engineering fields..

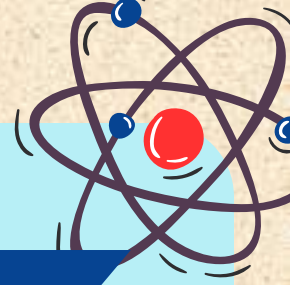


To create an environment for overall personal development of the students including creative and innovative thinking, team work, professional ethics, and improved communication skills.



To create awareness among the students about their social, environmental and ethical responsibilities to make the world a better place.





PROGRAM EDUCATIONAL OBJECTIVES

Graduates will be able to.....

Will demonstrate the core competency in electronics, telecommunication, and allied fields.

Will have successful professional careers at the national and international levels.

Will be competent and capable of pursuing lifelong learning in technical and allied fields.

Will be responsible citizen of the society and will adhere to professional ethical practices.

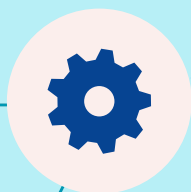


PROGRAM SPECIFIC OUTCOMES

1. Apply knowledge in engineering mathematics, science, signal processing, communication theory, and microwave engineering for analysis of telecommunication networks for services such as voice, data, image & video transport.

2. Analyse, design, and synthesize electronic components based circuits, embedded systems, VLSI circuits, and related hardware/software.

3. Learn emerging multidisciplinary technologies including, but not restricted to, Artificial Intelligence & Deep Learning, Internet of Things, Robotics, and E-Vehicles.



FACULTY

Professor

Dr. Milind Shah

Associate Professor

Dr. Megha Kolhekar
Dr. Pranali Chaudhari

Assistant Professor

Ms. Smita Chopde

Mr. Yogesh Chadurkar

Ms. Amruta Mhatre

Dr. Anant Kulkarni

Dr. Prasad Kulkarni

Ms. Esther Jennifer Isaac

Ms. Nilashree
Wankhede

Ms. Anita Jadhav

Ms. Manita Rajput

Ms. Sneha Revankar

Ms. Tejaswita Jagtap

Supporting Staff

Mr. Vijay Satdive

Mr. Santosh Molawade

Ms. Sreekala Nair

Mr. Sameer Jadhav

Mr. Pranshant Metri

IETE-ETSA STUDENT COUNCIL 2023-24



**CHAIRPERSON
(IETE)
NEERAJ PATIL**

**CHAIRPERSON
(ETSA)
RAHUL DEOGHARE**

TE MEMBERS

**KHUSHAL SATHE
AKSHATA RAUT
KARTIK SONAWANE
RAJ SAWANT
TANMAY BELAMKAR
VIVEK TODKAR**

CONVENER :-

**MRS. SNEHA REVANKAR
DR. PRASAD KULKARNI**

IETE-ETSA STUDENT COUNCIL 2023-24



SE MEMBERS

ABHISHEK RUBDE
ANJALI PATIL
ANUSHKA CHAUKE
ATHARVA BACHAL
GAURAV TAYADE
MOHIT DESAI
RASHMI BHAT
SACHIN MALPE
SUJAL GHADGE
TANISHQ KUMBHAR
VAISHAKH VARIER
RASIKA KULKARNI

ALUMINI COUNCIL 2022-23



CONVENOR:- MRS. ASMITA CHAVAN

CHAIRPERSON :-

SOUMYA CHIMMANI

MEMBERS:-

KUNAL PATEKAR

TANISHKA SHIRWADKAR

JASANPREET SINGH

VEDANT PANDIT

INDUSTRY DEPARTMENT INTERACTION

2023-24



CONVENOR:- MRS. TEJASWITA

CHAIRPERSON

MANN JAIN

MEMBERS

ABHINAV PANDEY

AFAZ KARBELKAR

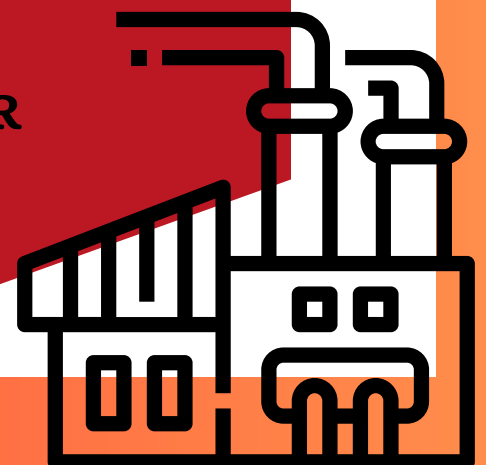
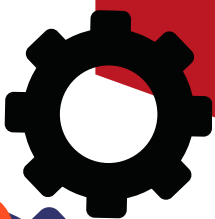
HARSH MAURYA

ADITYA CHETTIYAR

ADITYA GAWANDE

SANCHI BAGDE

TANISHQ KUMBHAR



HACKATHON COUNCIL

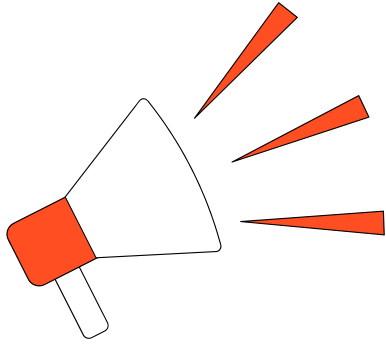
2023-24



CONVENOR:- MRS. TEJASWITA
MENTOR:- DR. PRANALI CHAUDHARI

CHAIRPERSON
YEDHUKRISHNAN NAIR

MEMBERS
KARTIKEYA PHALE
KANISHKA
HIMANSHU DHAL
NANDAN SAWANT
SHARON BARDHAN



Publicity On Social Media



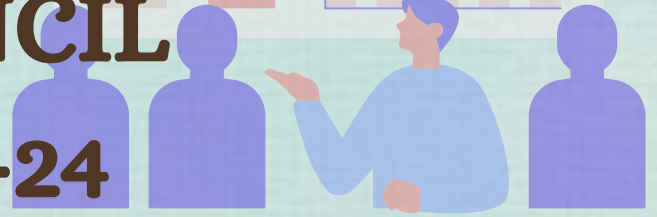
CONVENOR:- MRS. ASMITA CHAVAN

**CHAIRPERSON
SMITH KAJBAJE
MEMBER
VIVEK PANT**



PLACEMENT AND TRAINING COUNCIL

2023-24



CONVENOR:- MRS. ASMITA CHAVAN
CONVENOR:- MRS. TEJASWITA J.

CHAIRPERSON
RADHIKA LONI

MEMBERS

ARIBA AFROZ
AKMAL NAGVADARIYA
VAISHNAVI HANJI
SAANIKA MESTRY
KOMAL MOHOD
RASIKA KULKARNI
SAYED MOHD ADIL
SHREYASI CHAUDHARY
SOHAM PAWASKAR

CONGRATULATIONS TO SECOND YEAR TOPPERS



NANDAN SAWANT
CGPI 9.35



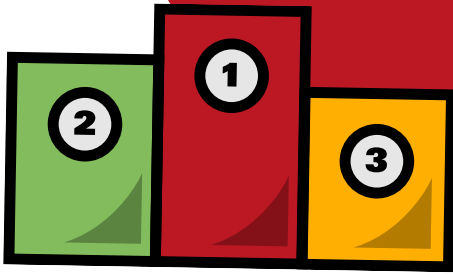
**YEDHUKRISHNAN
NAIR**
CGPI 9.33



AKSHATA RAUT
CGPI 8.81



CONGRATULATIONS TO THIRD YEAR TOPPERS



SARVESH SHINDE
CGPI 9.77



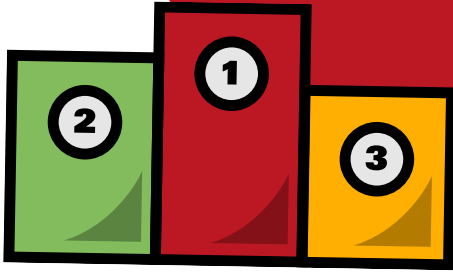
SAYALI DONGRE
CGPI 9.49



ROHIT MAURYA
CGPI 9.43



CONGRATULATIONS TO FOURTH YEAR TOPPERS



PRATIK LOMTE
CGPI 9.64



MINAL KALE
CGPI 9.61



ACTIVITIES



WORKSHOP LATEX BOOT

. BRIEF SUMMARY OF THE ACTIVITY/EVENT :

A. OBJECTIVES :

1. TO MAKE STUDENTS AWARE OF THE LATEX ENVIRONMENT
2. TO FACILITATE UNDERSTANDING OF USING ONLINE EDITOR AS WELL AS TEXSTUDIO
3. TO MAKE STUDENTS LEARN HOW TO PREPARE THE SAMPLE DOCUMENT.

B. TECHNICAL DESCRIPTION :

PROF MEHGA KOLHEKAR AND DR PRASAD KULKARNI WERE THE RESOURCE PERSONS TO CONDUCT THIS WORKSHOP NAMED LATEX BOOTCAMP. PROF MEGHA BEGAN WITH THE INTRODUCTION OF THE LATEX ENVIRONMENT. SHE PROVIDED GUIDANCE ON ONLINE EDITOR I.E. OVERLEAF TO PREPARE THE SAMPLE DOCUMENT WITH THE SAME. PROF MEGHA DEMONSTRATED ON THE ONE-PAGE DOCUMENT USING ONLINE EDITOR.

DR PRASAD KULKARNI COVERED THE LATEX EDITOR USED IN WINDOWS ENVIRONMENT. HE SELECTED TEXSTUDIO EDITOR TO DEMONSTRATE THE STEPS TO PREPARE A SAMPLE REPORT IN LATEX. HE COVERED MODULAR APPROACHING INCLUDING PAGE SETUP, TABLE OF CONTENTS ETC. AT THE END OF THE SESSION, STUDENTS WERE GIVEN A TASK OF PREPARING A SMALL REPORT IN LATEX.

C. OUTCOMES :

PO 5: MODERN TOOL USAGE: THIS WORKSHOP COVERED THE USAGE OF ONLINE EDITOR OR IDE TO PREPARE DOCUMENTS OR REPORT.

PO 10: COMMUNICATION: THIS WORKSHOP EFFECTIVELY COVERED THE SKILL SETS TO WRITE /PREPARE EFFECTIVE REPORTS AND DESIGN DOCUMENTATION FOR EFFECTIVE PRESENTATIONS AND TECHNICAL DOCUMENTATION.

Fr. C. Rodrigues Institute of Technology
Department of Electronics & Telecommunication Engineering
Sector - 5A, Vashi, New Mumbai - 406 705, INDIA
Telephone: 022-6670000, 2516 1014, 1506 0088 Fax: 0755 049
Website: www.frcro.ac.in
IETE-ETSA Students' Forum

**LaTeX
BOOTCAMP**
(SE and TE EXTC)

Overview

Introduction to LaTeX environment.
Essential ingredients for LaTeX document preparation: Linux Hands on with Tex-studio.
How to use online editors such as Overleaf (Prior registration on Overleaf is mandatory)
Step-by-step guideline to make a Technical Report with figures, tables, mathematics, code-snippets, and citations.
Q/A Session
Assignment -- Preparation of Technical paper (sample)

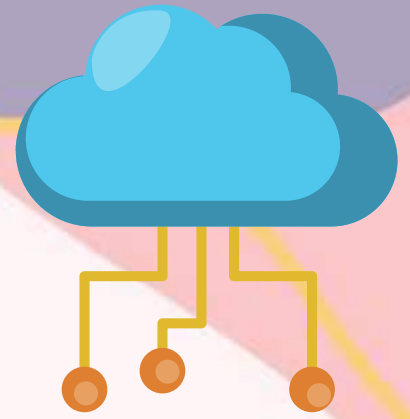
12th August 2022
Venue : AX-116

Instruction to Participants

- Carry laptop (OS : either Linux or Windows) with fully charged battery, internet connection
- Install prior, IDE for LaTeX in Windows
- Environment : TeX-studio and Mi-TeX
- Prior registration on Overleaf is mandatory
- All participants will receive attendance certificates.

Instructors :
Mrs. Megha Kolhekar
Dr. Prasad Kulkarni

PROGRAM On ISTE Approved STTP On Quantum Couplinnng



. BRIEF SUMMARY OF THE ACTIVITY/EVENT

A. TECHNICAL DESCRIPTION :

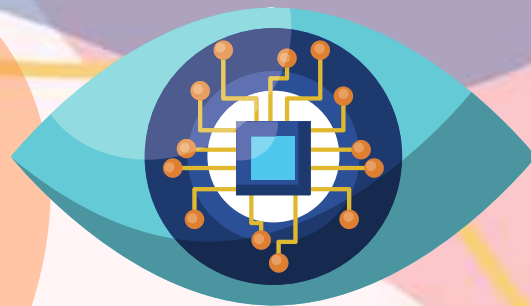
QUANTUM MECHANICS
QUANTUM GATES
QUANTUM ALGORITHMS TO
QUANTUM CIRCUITS
SOLID STATE-BASED QUANTUM
BITS (QUBITS)
SUPERCONDUCTING QUBITS:
A BASIS FOR QUANTUM COMPUTERS
QUANTUM SIMULATORS
QUANTUM EFFECTS IN BIOLOGICAL
SYSTEMS
QUANTUM MACHINE LEARNING

B. OUTCOME:

THE PARTICIPANTS GOT TO LEARN
MANY MORE THINGS RELATED TO
QUANTUM COMPUTING.



PCB Design and Fabrication



BRIEF SUMMARY OF THE ACTIVITY/EVENT :

A. OBJECTIVES :

1. TO MAKE STUDENTS AWARE OF FORMING LAYOUT OF PCB AND SOFTWARE'S THAT CAN BE USED FOR PCB AND LAYOUT FORMATION .
2. TO COMPREHEND SUSTAINABILITY THROUGH ETHICAL LIVING.

B. TECHNICAL DESCRIPTION :

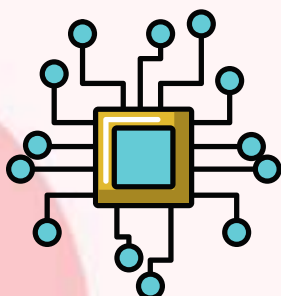
THE EVENT WAS CONDUCTED TO MAKE STUDENTS AWARE ABOUT THE DESIGN OF PCB AND VARIOUS SOFTWARE THOSE ARE USED FOR LAYOUT FORMATION. THE STUDENTS WERE GIVEN HANDS-ON TO DESIGN A PCB AND VARIOUS PROCEDURE TO BE FOLLOWED DURING PREPARATION OF PCB. THE SPEAKER MR RAGHUNATH PATIL WAS FELICITATED BY MR JOSHUA M.

C. OUTCOMES :

PO 7: ENVIRONMENT AND SUSTAINABILITY & PO 8: ETHICS: SPEAKER GUIDED THE STUDENTS ON SUSTAINABILITY, ETHICS AND MOTIVATED THEM FOR ETHICAL LIVING.
PO 12: LIFE-LONG LEARNING: SPEAKERS 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.

D. SUMMARY OF FEEDBACK :

A RANDOM FEEDBACK ON THE SESSION WAS COLLECTED AND SUMMARISED



8. Activity / Event Photograph:



Theory Session Conducted in Class Room 311



Hands on session Practical Session conducted in Project Laboratory 1 310

Technical Talk :Micro-2022

**BRIEF SUMMARY OF THE
ACTIVITY/EVENT:**

A. OBJECTIVES :

- 1. TO MAKE STUDENTS AWARE OF CURRENT TRENDS IN INDUSTRY.**
- 2. TO COMPREHEND SUSTAINABILITY THROUGH ETHICAL LIVING.**

B. TECHNICAL DESCRIPTION :

BIET-ETSU STUDENTS' CHAPTER ORGANIZED A LECTURE SERIES FOR THE EXTC STUDENTS ON 12TH SEPTEMBER 2022. BANDWIDTH - DEPT. MAGAZINE WAS PUBLISHED BY REV. FR. SEBYRODRIGUES, ASSISTANT MANAGING DIRECTOR, ATEC VASHI . DR S. M. KHOT, PRINCIPAL FR.CRIT APPEALED STUDENTS TO ADOPT THE NEW SKILLS AND MOTIVATED THEM FOR LIFELONG LEARNING. DR. MILIND SHAH, HOD (EXTC) ACQUAINTED THE HOUSE ABOUT THE MOTTO OF SUCH LECTURE SERIES.



Bandwidth - Dept. Magazine was published by Rev. Fr. Seby Rodrigues, Assistant Managing Director, ATEC Vashi, Dr S. M. Khot, Principal Fr. CRIT, Dr Milind Shah HOD and Mr. Allister D'Silva.



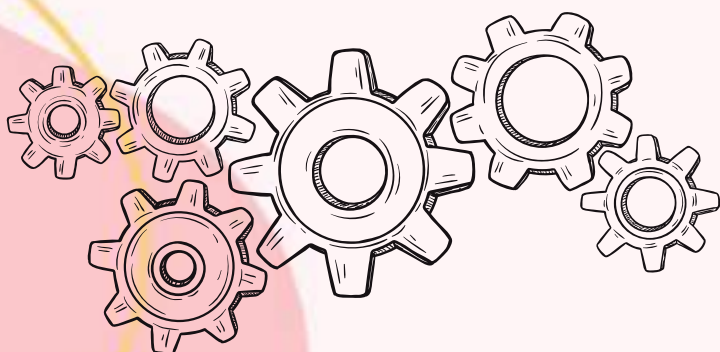
Mr. Abhay Joshi presenting in Online Mode

Mr. Allister D'Silva demonstrating the 3D project.

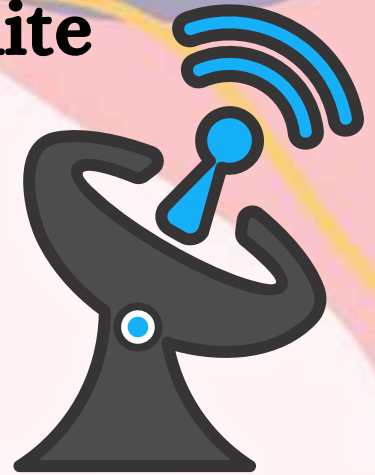


Mr. Jayant Kulkarni exploring on the Industry Culture and upcoming opportunities

Ms. Pratishka Chatterjee, Counselling the students on ethical values



ETAMAX :2023: Seminar on Satellite Communication, Fiber Optics and Verilog Designs



BRIEF SUMMARY OF THE ACTIVITY/EVENT:

A. OBJECTIVES :

1. TO MAKE STUDENTS AWARE OF SATELLITE COMMUNICATION AND OPTICAL SENSORS.
2. TO MAKE STUDENTS AWARE OF VERILOG DESIGNS

.B. TECHNICAL DESCRIPTION :

IETE-ETSA STUDENTS' CHAPTER ORGANIZED A SEMINAR ON SATELLITE COMMUNICATION FOR THE SEMESTER II AND IV EXTC STUDENTS ON 17TH MARCH 2023. ON THE SAME DAY, A SEMINAR ON FIBER OPTICS SENSOR TECHNOLOGY WAS ALSO ARRANGED FOR SEMESTER VIII STUDENTS. MR. HITESH MEHTA AND HIS TEAM BROUGHT A SETUP OF INTRUSION DETECTION SYSTEM(IDS) USING FIBER OPTICS FOR DEMONSTRATION. VERILOG DESIGN WORKSHOP WAS ARRANGED FOR SEMESTER VI STUDENTS ON 17TH MARCH 2023

C. OUTCOMES :

PO-5 : MODERN TOOL USAGE : SPEAKER COVERED THE USE OF HDL AND SYNTHESIS TOOLS FOR VLSI DESIGNS.

PO 12: LIFE-LONG LEARNING: SPEAKERS COVERED THE CURRENT SATELLITE COMMUNICATION TRENDS COMMUNICATION SECTORS. THEY ALSO BRIEFED USE OF FIBRE OPTICS IDS SYSTEM. FINALLY ASKED STUDENTS TO FIND THEIR NEEDS AND BECOME A LIFELONG LEARNER TO ACHIEVE THE REQUIREMENT OF PROFESSIONAL CAREER.





ECO CLUB

Eco club organised Tree Plantation Drive to motivate students to keep the surrounding green and clean by undertaking tree plantation drive. Around 145 fruit saplings has been planted in the campus during the academic year 2021-22. Medicinal plants to be planted in the campus which contains substances that can be used for therapeutic purposes as they are free from side effects, they are comparatively safe and eco-friendly. The garden waste like flowers , plants, shrubs, branches and other vegetation are collected in the compost pit which is kept in different locations in the campus. This involves biological decomposition of organic matter which converts into a valuable fertilizer that has been used in the gardening. E-waste generated in the Campus has been collected and handed over to Envirocare Recycling Pvt. Ltd., Jogeshwari, Mumbai. In the first phase of the E -Waste Collection Drive, 225 kgs of E waste was deposited, 119.68 kgs in the second phase, 352 kgs in the third phase, and 147 Kgs in the fourth phase. The fourth phase of E-Waste Collection Drive was completed between January 2021 to December 2021. 147 kgs of E-waste was sent to Envirocare Recycling Pvt. Ltd. For recycling in January 2022. In the first phase of the E Waste Collection Drive, 225 kgs of E waste was deposited, 119.68 kgs in the second phase, 352 kgs in the third phase, this was then handed over to Envirocare Recycling Pvt. Ltd., Jogeshwari, Mumbai. The third phase of E-Waste Collection Drive was completed between January 2020 to December 2020. 350.42 kgs of E-waste was sent to Envirocare Recycling Pvt. Ltd. For recycling on January 4th, 2021.

E-WASTE COLLECTION



Brief Summary of the Activity/Event :

a. **Objectives:** The main objective of this event was to make people aware about the dangers of disposing of E-waste which consists of discarded electronic components or devices in which many scrap dealers often burn the E-waste which release toxic gases causing breathing problems to the people living nearby and polluting the environment. So, in order to control this Eco Club has taken the initiative to collect the E-waste from nearby societies and collect the E-wastes in bins and then sending these wastes to government authorised E-waste recycling company Envirocare.

b. **Technical Description:** The event started by collecting information about students who live nearby FCRI campus or in nearby areas of Vashi and Sanpada , then with the help of these students the Eco club members contacted the secretaries of these societies and after telling them all the details about this E-waste collection drive, the secretaries agreed to be a part of this collection drive and on the republic day the drive was conducted in which the Eco club members were divided into four groups and the members along with Eco club coordinators visited the societies assigned to them.

c. **Outcomes:** The Eco Club started the E-waste collection drive by having a small meeting in which the discussion was about assigning the groups and providing them information about the E-waste collection drive. The members went to the respective societies and gave information to the secretaries and the society members about the E-waste collection drive .The event was a great success and the secretaries agreed to participate in this collection drive.

d. **Summary of Feedback:** The event was a great success. All the attendees contributed equally and the secretaries also participated enthusiastically in this event.

e. **Attendance of Participants:** All the participants were present for the event.

f. **Summary of Feedback:** The event was a great success. All the attendees contributed equally to make this event successful. Many society people started donating e waste which was installed in the societies.

g. **Summary of Feedback:** All the planned activities was carried out as per the schedule.

h. **Activity / Event Geo tagged Photograph:**



TREE PLANTATION

BRIEF ACTIVITY/EVENT REPORT

**NAME OF THE DEPARTMENT/ INSTITUTE LEVEL COMMITTEE:
ECO CLUB**

1. NAME OF THE ACTIVITY/EVENT: THE EVENT OF TREE PLANTATION BY THE ECO CLUB WAS ORGANIZED TO COMMENCE THE ACTIVITY FOR PLANTING 75 TREES IN THE CAMPUS OF AGNEL TECHNICAL COMPLEX, VASHI ON THE OCCASION OF 75 YEARS OF INDEPENDENCE.

2. ACTIVITY/EVENT VENUE & DATE: THE EVENT WAS CONDUCTED ON 15TH AUGUST 2022, IN THE AGNEL TECHNICAL COMPLEX. THE EVENT STARTED AT 11 AM.

3. NATURE OF PARTICIPANT: THE EVENT WAS GRACED BY THE CHIEF GUEST MRS RASHMI JOSHI, PRINCIPAL DR S. M. KHOT, FACULTY CO-ORDINATORS DR PRANALI CHOUDHARI, DR SNEHAL KARGIRWAR AND THE MEMBERS OF THE CLUB.

4. NUMBER OF PARTICIPANTS: THERE WERE 60 PARTICIPANTS IN ATTENDANCE ALONG WITH PRINCIPAL DR S.M KHOT AND 22 FACULTY MEMBERS FROM VARIOUS DEPARTMENTS PARTICIPATED IN THIS ACTIVITY.

5. STUDENT COORDINATOR: PRESIDENT OF THE ECO CLUB MS NEHA MANDELKAR

6. STAFF COORDINATORS: DR PRANALI CHOUDHARI, DEPARTMENT OF EXTC AND DR SNEHAL KARGIRWAR, DEPARTMENT OF HUMANITIES.

7. RESOURCE PERSON: MRS RASHMI JOSHI, DR S. M. KHOT



Brief Summary of the Activity/Event

a. **Objectives:** The main intention for hosting this event was to initiate the tree plantation drive under the guidance of Mrs. Rashmi Joshi, Dr Pranali Choudhari and Dr Snehal Kargirwar in order to take a step towards making the complex a “Green Campus”, by planting 75 fruit saplings of different varieties like guava, mango, custard apple, chickoo, anjeer etc. across the campus on the occasion of completing 75 years of Independence.

b. **Technical Description:** The event started by making preparation for planting trees in various locations in campus, which included making pits and arranging the plantations, which was completed with efforts of the professors, volunteers and members of the Eco Club. Initially, the trees were marked at different locations in the campus and the members of eco club were assigned tasks of handling and executing the task of plantation of trees at these locations.

c. **Outcomes:** Eco Club successfully planted 75 fruit saplings of different varieties in FCRIIT, Vashi campus on 15th August 2022.

d. **Summary of Feedback:** The event was a great success. All the participants, teaching and nonteaching staff contributed equally to the tree plantation drive with great enthusiasm, in spite of heavy rains.

e. **Attendance of Participants:** 60 participants were present for the event.

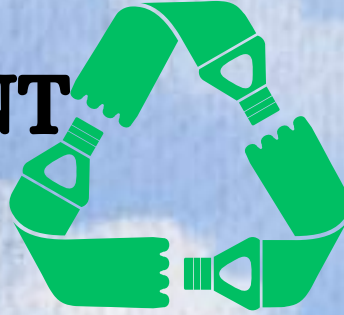
f. **Summary of Feedback:** The event was a great success. All the attendees contributed equally to the tree plantation drive with great enthusiasm, in spite of rains.

g. **Summary of Feedback:** All the planned activities will be carried out as per the schedule.

h. **Activity / Event Geo tagged Photograph:**



PLASTIC WASTE MANAGEMENT



A. BRIEF SUMMARY OF THE ACTIVITY/EVENT (IN MAXIMUM 500 WORDS): IN PLASTIC WASTE MANAGEMENT RESOURCE PERSON GIVES AN IDEA ABOUT HOW TO MADE ECO BRICKS USING PLASTIC. AN ECO BRICK IS A PLASTIC BOTTLE DENSELY PACKED WITH USED PLASTIC TO CREATE A REUSABLE BUILDING BLOCK THAT ACHIEVES PLASTIC SEQUESTRATION.

ECO BRICKS CAN BE USED TO PRODUCE VARIOUS ITEMS, INCLUDING FURNITURE, GARDEN WALLS AND OTHER STRUCTURE.

B. OBJECTIVES : 1. ECO BRICKS PREVENT PLASTIC WASTE FROM DISRUPTING THE ECOSYSTEM.

C. TECHNICAL DESCRIPTION: SEMINAR WAS CONDUCTED IN SEMINAR HALL, FIRST FLOOR AX 116 AND SECOND FLOOR AX 216.

D. OUTCOMES : STUDENTS BECAME AWARE ABOUT THE PLASTIC WASTE MANAGEMENT.



BIRD GRAIN FEEDER COMPETITION

OBJECTIVES : THE GOAL OF THE EVENT IS TO BRING OUT THE CREATIVITY OF PARTICIPANTS IN MAKING A GRAIN FEEDER WHICH WILL BE USED FOR FEEDING BIRDS VIA LOCATING THEM IN COLLEGE CAMPUS. AND ALSO TO PROMOTE AWARENESS AND EDUCATION ABOUT THE IMPORTANCE OF PROPER GRAIN FEEDING PRACTISES AS WELL AS RESEARCH

CULTURAL DESCRIPTION: A GRAIN FEEDER COMPETITION IS A CELEBRATION OF THE ART OF SCIENCE OF LIVESTOCK MANAGEMENT (HERE BIRDS). STUDENTS WERE ASKED TO BRING THEIR MATERIALS FOR THE COMPETITION AND EQUAL AMOUNTS OF GRAINS WERE FILLED IN EACH ONE.

THE WINNER WILL BE DECIDED ON THE BASIS OF THE LEAST AMOUNT OF GRAINS LEFT IN THE FEEDER ON THE LAST DAY OF THE EVENT.

OUTCOMES : THIS EVENT WAS CONDUCTED ON COLLEGE LEVEL AND IT HAD A GOOD RESPONSE FROM THE STUDENTS OF FCRI.

THE PARTICIPANTS CAME TO KNOW THE IMPORTANCE OF FEEDING BIRDS. STUDENTS WERE MENTORED AND ENCOURAGED BY THE MEMBERS OF THE ECO-CLUB

AS FOR THE EVENT WILL BE CHOSEN IN SPAN OF 2 DAYS.





SUMMARY OF THE DEVELOPMENT ACTIVITIES IN THE DEPARTMENT.

DR MILIND SHAH

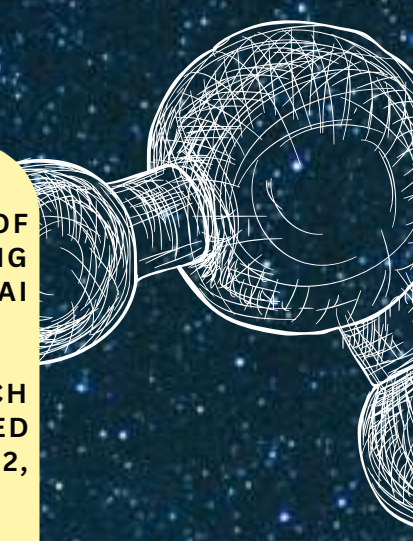
INVOLVED IN ENCOURAGING PROCESS FOR THE DEVELOPMENT OF COE IN IOT AND VLSI & EMBEDDED SYSTEM. INVOLVED IN DRAFTING THE R-2019 SCHEME CURRICULUM IN THE UNIVERSITY OF MUMBAI FOR ELECTRONICS & TELECOMMUNICATION ENGINEERING BRANCH.

PHD SUPERVISOR

MRS. SHRADDHA, MRS. SHEETAL, AND MRS. NANDINI (RESEARCH SCHOLARS IN EXTC DEPARTMENTS) SUCCESSFULLY COMPLETED UNDER THE SUPERVISION OF DR. MILIND ON 28-11-2022, 29-11-2022, AND 08-02-2023, RESPECTIVELY.

RESEARCH PAPER PUBLICATION

THE PAPER TITLED "ANALYSIS OF ACOUSTIC CORRELATES OF MARATHI PROSODIC FEATURES FOR HUMAN-MACHINE INTERACTION", PUBLISHED IN THE PROC. OF 8TH ICEET-2022, (KUALA LUMPUR, MALAYSIA)



DR. MEGHA KOLHEKAR

INVOLVED IN DEVELOPMENT OF A SOFTWARE TOOL FOR THE PURPOSE OF RADAR ABSORBING MATERIAL SYNTHESIS AT BROADBAND, FOR NMRL-DRDO, AMBERNATH, IN THE YEAR 2020-21.

RESEARCH IN THE FIELD OF PERMUTATION POLYNOMIALS OVER FINITE FIELDS CULMINATED INTO A THESIS AWARDING PH.D. DEGREE AT IIT BOMBAY (2023).

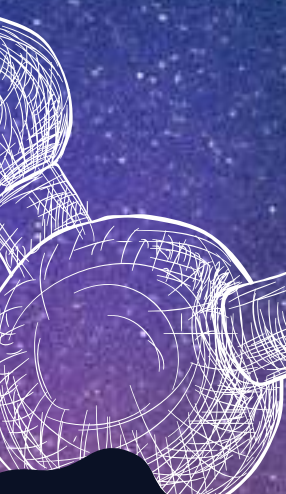
1. DEVELOPED LAB MANUAL IN THE COURSES OF "MOBILE CELLULAR SYSTEMS" AND "IMAGE PROCESSING & MACHINE VISION" IN COLLABORATION WITH PROF. MANITA AND PROF. ANITA.

2. INVOLVED IN CURRICULUM DEVELOPMENT OF SOME COURSES IN MUMBAI UNIVERSITY.

DEVELOPED A WORKING MODEL (WITH TE STUDENTS) FOR SURVEILLANCE OF AN UNMANNED ROOM USING IOT TECHNIQUES.

ACADEMIC

RECEIVED PH.D. FROM IIT BOMBAY





SUMMARY OF THE DEVELOPMENT ACTIVITIES IN THE DEPARTMENT.

MS. MANITA RAJPUT

1. WORKED TOWARDS DEVELOPING A WIRELESS SENSOR NETWORK (WSN) FOR USE IN AGRICULTURAL FIELDS. (WITH STUDENTS)

2. INVOLVED IN DEVELOPMENT OF A SOFTWARE TOOL FOR THE PURPOSE OF RADAR ABSORBING MATERIAL DEVELOPMENT AT BROADBAND, FOR NMRL-DRDO, AMBERNATH, IN THE YEAR 2020-21.

RESEARCH ACTIVITIES IN THE FIELDS OF:

1. CRYPTOGRAPHY

2. CRYPTANALYSIS

IMPROVED THE FOLLOWING:

LAB MANUALS FOR THE SUBJECTS MCSL (B.E) (WITH DR. MEGHA) AND SKILL LAB (S.E) (WITH JENNIFER MADAM)

DR. ANANT KULKARNI

INSTRUMENTAL IN GETTING STUDENTS TO WORK ON BARC, MUMBAI AND IIT(BHU)-ISRO PROJECTS.

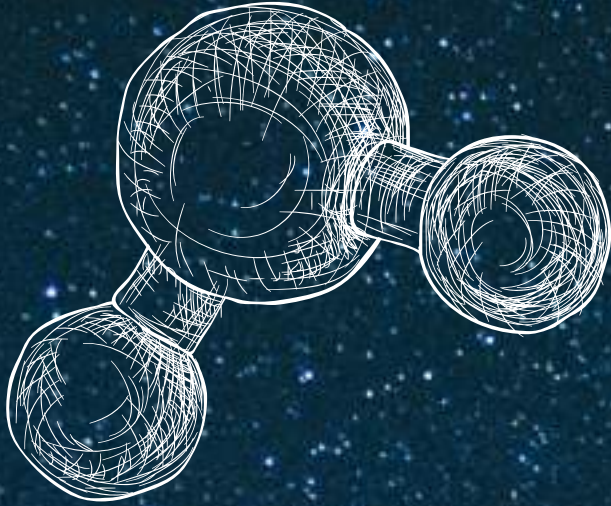
RESEARCH WORK:

PAPER SUBMITTED TO THE JOURNAL OF OPTICS AND QUANTUM ELECTRONICS COLLABORATIVE RESEARCH WORK WITH DR. MAJID HAGPARAST, UNIVERSITY OF JYVASKYLA, FINLAND

INVOLVED IN PREPARATION OF VECTOR NETWORK ANALYZER (VNA) LABORATORY MANUAL



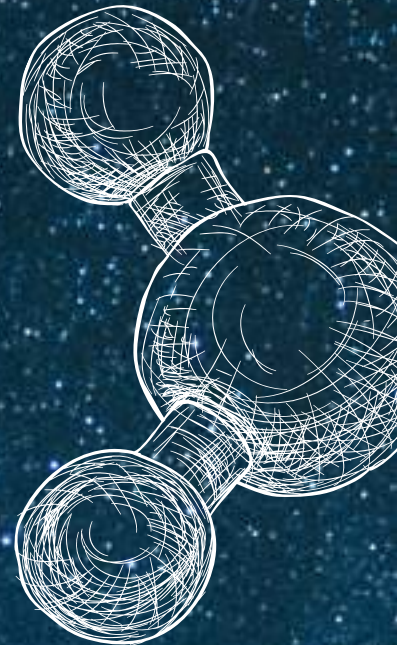
**AGNEL CHARITIES'
FR. C. RODRIGUES INSTITUTE OF TECHNOLOGY, VASHI
DEPARTMENT OF ELECTRONICS &
TELECOMMUNICATION ENGINEERING
FACULTY ACHIEVEMENTS
YEAR 2022-23**



DR. PRASAD KULKARNI

INVOLVED IN DRAFTING THE CURRICULUM OF BE IOT OF UNIVERSITY OF MUMBAI

LAB MANUAL FOR DSDL AND DVLSI LAB



MS. JENNIFER ISAAC

LAB MANUAL FOR:

1. PCE LAB.
2. SKILL LAB (S.E) (WITH MANITA MADAM)
EIC LAB.




"THE TRUE ALCHEMISTS DO NOT CHANGE LEAD INTO GOLD,
THEY
CHANGE THE WORLD INTO WORDS"



ARTICLES





Hello, My name is GAURAV TAYADE.

Today, I am here to talk to you all about the quote by ALICE MILLER, "Genuine feelings cannot be produced, nor can they be eradicated the body sticks to the facts". This is a topic that is very close to my heart and something that I have experienced a lot in my life. Genuine feelings are those feelings that come from the depths of our souls. They are raw and authentic emotions that cannot be fabricated or forced. They come from a place of truth, and they cannot be created by the mind or erased by it. Our body has a way of expressing these genuine emotions, whether it be through tears, trembling, or simply a smile.

When we try to produce feelings that are not authentic, we are essentially...lying to ourselves and others. We may try to convince ourselves that we are happy when we are not, or that we are in love when we are really not feeling it. This can cause us to feel disconnected from our true selves and can lead to an inner turmoil that affects our overall wellbeing. On the other hand, when we try to eradicate genuine feelings, we are denying a part of ourselves that needs to be expressed. We may suppress our sadness, anger, or fear, thinking that it will make us appear strong or that it is not acceptable to show these emotions. However, this can lead to long-term emotional and physical health problems and can even prevent us from experiencing joy and happiness fully.

The body sticks to the facts because it is a...reflection of our inner reality. When we try to deny or ignore our true feelings, our bodies may start to show signs of stress, tension, and discomfort. This can manifest as headaches, muscle tension, digestive issues, and even chronic illnesses. Therefore, it is important to be honest with ourselves about our emotions and to acknowledge them as they arise. This does not mean that we have to act on every passing feeling, but we can recognize and honor our emotions without judgment or shame. By doing so, we can allow ourselves to be authentic and to live a more fulfilling life, free from the burden of hidden emotions and suppression.

GAURAV TAYADE
SE

SAPNE



Khull Kitaab

Jese mere khwaab

Khudko Nahi Jaanta jitna jaante mujhe Aap

Milna tha Aapse

Socha tha kabse

Gira tere pyaar me tujhe dekha tha jabse .

Karni Thi Baate

Aur Mulakaate

Yadon me teri Din dhal Jaate .

Thaaka haraa

Fir Soo jata Me

Khudkoo Sametate kab Roo Jata me

Barsoon baad bhi

Pics dekhta hu Apne

Tab pata chalta hai yara kitne Haseen the woh

SAPNE .

ARYAN PARDESHI

SE

MANISHA KUNDER SE

Kisan

Jis Tara nadiyon kal- kal karti hai ;

Usl tara ketho mai phasle leharati hai ;

Mahanat kiya ta kisa no ne ;

Jino ne uthaya tha kasta ;

Une safalta milati hai ;

Jab wo apna Hara bara keta reharate hue
dekte hai ;

Deka bal kiya tha unhone apne bacho ki tara
ha ;

Per jab use koi apat ajati hai tho unka bhi
mana tuta jata hai ;

Jisane apna suk choda kar mahanat karne
chala ata hai ;

wo aur koi nahi nahi hai janab wo hamare
desh ke ana data hai ; wo jo Dina rata
mahnat karata hai keto mai ;

Unki kushi unke ketho mai laharate hue keto
mai dekhne milati hai;

*He walked,
She talked,
They made their journey memorable...*

*He stayed quiet, she shared
Her thoughts, dreams & fears,
He cried, she cried
But never showed each other their tears...*

*He was composed, she had loads of temper
They fought a lot but always came together,
He laughed, she laughed
Their relationship made them better...*

*He told her,
Her presence always made his day,
She said, his hugs
Always kept her insecurities at bay..*

*He looked at her,
She looked at him,
Both felt satisfied and learnt love was no sin...*

**RASHMI BHAT
SE**

Maa ❤️ ✨

Jo insan Bina soche har vakt apne khushiya
chodakar ,

Dusra ro ke Kushi ko apna manati hai
wo hoti hai maa ;

Chaya wo konsa bhi vakt ho per, wo har vakt
ghara ka kayal rakti hai ;

Wo hai maa,

Chaye wo ghara mal na ho tho bhi uske
mana mai har vakt ghara ka kyal rehta hai ;

Wo hai maa,

Maa ye ek shabdha har yek ke, Jeevan mai
yek anmol aur kasa shabdha hai;

Wo shabdha maa hai ;

Shabdha kam pada jati jab Inke; bare mai
bolne jate hai ,

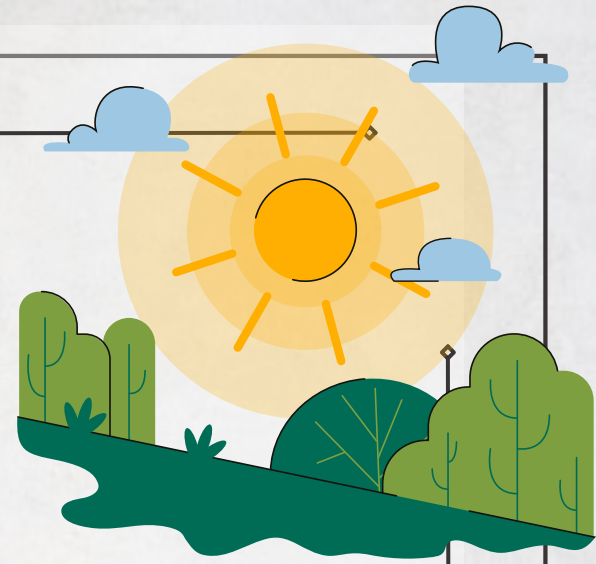
Per unki tarifa nahi ;

Yek yesa insan jo har pal apne alava ghara
ke bare mai sochta hai ;

Bas wo maa hoti hai.

- Manisha k

**MANISHA KUNDAR
SE**



**ISHA BHAT
SE**

**SHREYA BHOIR
SE**





**ANJALI PATIL
SE**





**ADITI NARVEKAR
SE**





ACHIEVEMENTS

"A LITTLE PROGRESS
EACH DAY ADDS UP TO
BIG RESULTS"



ACHIEVEMENTS

2023

STUDENTS FROM TE ARE ELECTED AS HEADS OF VARIOUS DEPARTMENTS IN THE STUDENT COUNCIL 2023-24



PRATIK BHAGAT
SPORTS SECRETARY

DIKSHA BHOSALE
CREATIVE HEAD



ACHIEVEMENTS 2023

WON A KATA-GOLD & KUMITE-SILVER IN INDEPENDENCE CUP ALL INDIA INVITATIONAL KARATE CHAMPIONSHIP IN THE KATA EVENT ORGANISED BY WORLD FUNAKOSHI SHOTOKAN KARATE ORGANISATION HELD IN AUG 2022.

WON A KATA-SILVER & KUMITE SILVER IN 9TH UBKA CUP OPEN KARATE CHAMPIONSHIP IN THE KATA EVENT ORGANISED BY UNITED BUDOKAN KARATE ACADEMY HELD IN SEPT 2022.

WON A KATA-GOLD & KUMITE-GOLD IN GOA OPEN INTERNATIONAL KARATE CHAMPIONSHIP IN THE KATA EVENT ORGANISED BY WORLD FUNAKOSHI SHOTOKAN KARATE ORGANISATION HELD IN AUG 2022.

WON A KUMITE-GOLD IN 5TH NATIONAL ALPAGUT CHAMPIONSHIP ORGANISED BY NATIONAL ALPAGUT FEDERATION HELD IN DEC 2022.

WON A KATA-GOLD, KUMITE-GOLD & GRANDCHAMPIONSHIP TROPHY ORGANISED BY INTERNATIONAL GOSUKU-RYU KARATE-DO ASSOCIATION HELD IN JAN 2023.

WON A KATA-SILVER & KUMITE-SILVER IN 28TH EURO-ASIS INTERNATIONAL WFSKO OPEN KARATE CHAMPIONSHIP ORGANISED BY WORLD FUNAKOSHI SHOTOKAN KARATE ORGANISATION HELD IN FEB 2023.

WON A KATA-GOLD, KUMITE-GOLD & GRANDCHAMPIONSHIP AWARD IN WFSKO CUP-OPEN KARATE CHAMPIONSHIP ORGANISED BY WORLD JIYU RENSHUKAN KARATEDO FEDERATION HELD IN JULY 2023.





ACHIEVEMENTS

2022-2023

G20 SUMMIT

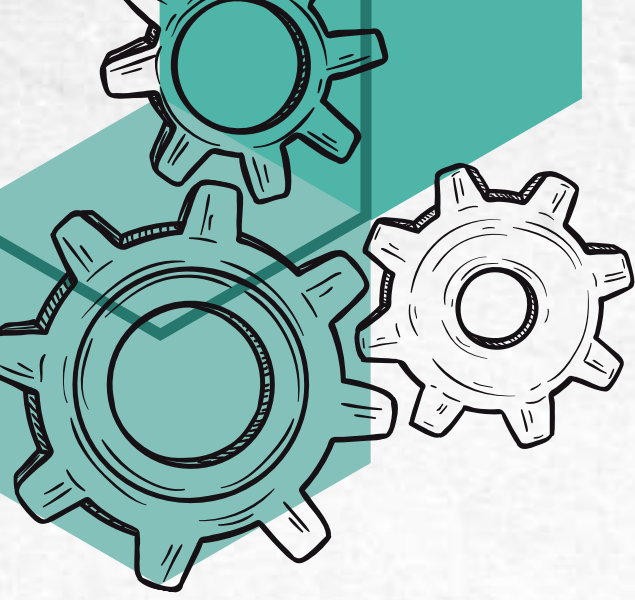


YASH MESTRY

MENTOR:- DR. PRANALI CHAUDHARI

HE HAS REPRESENTED OUR COLLEGE ON AN INTERNATIONAL LEVEL THAT IS G20 SUMMIT. HE AND HIS TEAM WERE DEDICATED TO THEIR WORK AND HAVE BEEN SUCCEEDED IN IT, BY REACHING TO THIS PLATFORM TO REPRESENT US.

**FOLLOWING WERE HIS TEAM MEMBERS :-
JISHNU J
KHUSHAGRA GOEL
SHRUDHI CHAUDHARY**



ACHIEVEMENTS

2022-2023

SHRUTI SHETTY
LEELOVE



HRITHIK MEHROTRA
DIRECTRONICS

ADITI AMBADKAR
CEO
SOURCE CATALYST

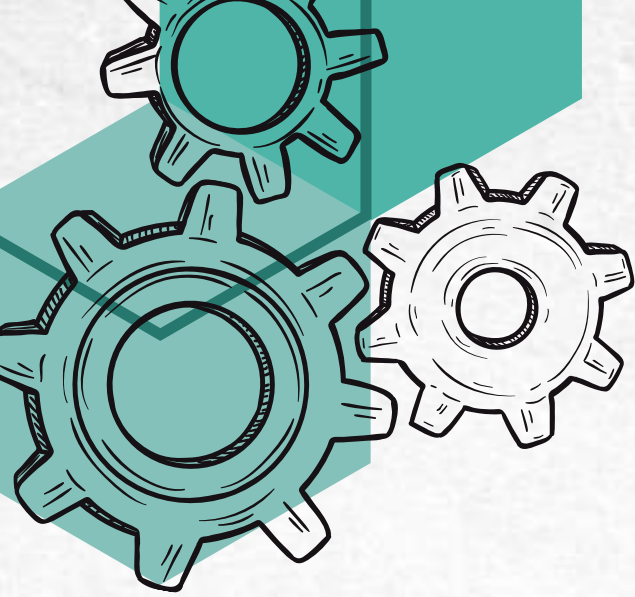
PRATIK LOMTE
COO
SOURCE CATALYST

MONISH MEHER
CTO
SOURCE CATALYST



ACHIEVEMENTS

2022-2023



NANDAN SAWANT

HE DID HIS INTERNATIONAL INTERNSHIP FROM TEESSIDE UNIVERSITY, MIDDLESBROUGH, UNITED KINGDOM. HE WORKED ON THE PROJECT COMPRISING OF CAN-BUS PROTOCOL WHICH WAS THEN USED FOR INCREASING EFFICIENCY OF ELECTRIC VEHICLES. IT WAS A PROJECT BASED INTERNSHIP FOR A PERIOD OF 45 DAYS. THE MODEL MADE WAS THEN USED FOR STEERING WHEEL ENHANCEMENT OF RACE CARS.



SAYALI DONGRE

DURING MY 6-WEEK INTERNSHIP AT TEESSIDE UNIVERSITY IN LONDON, UK, I HAD THE OPPORTUNITY TO WORK ON TWO EXCITING AIML-BASED PROJECTS. THE FIRST PROJECT, DAMON (DESKTOP ASSISTANT FOR MULTI-OPERATING NEEDS), INVOLVED DEVELOPING A VERSATILE DESKTOP ASSISTANT TO CATER TO VARIOUS OPERATING SYSTEM REQUIREMENTS. THE SECOND PROJECT FOCUSED ON BRAIN TUMOR SEGMENTATION, WHERE I WORKED ON IMPLEMENTING AI ALGORITHMS TO AID IN THE ACCURATE SEGMENTATION OF BRAIN TUMORS. THESE PROJECTS ALLOWED ME TO GAIN VALUABLE EXPERIENCE IN AI AND MACHINE LEARNING APPLICATIONS.

MY TIME IN THE UK WAS AN AMAZING EXPERIENCE. ADAPTING TO THE LOCAL CULTURE WAS BOTH ENLIGHTENING AND ENJOYABLE. I IMMERSED MYSELF IN THE RICH HISTORY AND DIVERSITY OF LONDON, ENGAGING WITH ITS ICONIC LANDMARKS AND CULTURAL ATTRACTIONS. THE CULINARY JOURNEY WAS EQUALLY MEMORABLE, AS I HAD THE CHANCE TO SAVOR TRADITIONAL BRITISH DISHES AND EXPLORE INTERNATIONAL CUISINES. INTERACTING WITH THE FRIENDLY LOCALS AND FELLOW INTERNS WAS A HIGHLIGHT, AND I FOUND THE BRITISH PEOPLE TO BE WARM, WELCOMING, AND EAGER TO SHARE THEIR STORIES.

THE ACCOMMODATION PROVIDED BY TEESSIDE UNIVERSITY WAS EXCEPTIONAL. THE DORMITORIES WERE COMFORTABLE AND WELL-EQUIPPED, OFFERING A GREAT PLACE TO REST AND CONNECT WITH OTHER STUDENTS. THIS EXPERIENCE NOT ONLY BROADENED MY PROFESSIONAL HORIZONS BUT ALSO ENRICHED MY PERSONAL GROWTH AS I EMBRACED A NEW ENVIRONMENT AND CREATED LASTING MEMORIES.

SHE HAS DONE 2 PROJECTS IN HER TIME OF INTERNSHIP.

DURING MY 6-WEEK INTERNSHIP AT TEESSIDE UNIVERSITY IN LONDON, UK, I WAS DEEPLY INVOLVED IN A FASCINATING PROJECT FOCUSED ON BRAIN TUMOR SEGMENTATION USING AIML TECHNIQUES. THIS PROJECT AIMED TO LEVERAGE THE POWER OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING TO ACCURATELY IDENTIFY AND SEGMENT BRAIN TUMORS WITHIN MEDICAL IMAGES. THE POTENTIAL IMPACT OF THIS WORK ON IMPROVING MEDICAL DIAGNOSIS AND TREATMENT STRATEGIES WAS BOTH MOTIVATING AND INSPIRING.

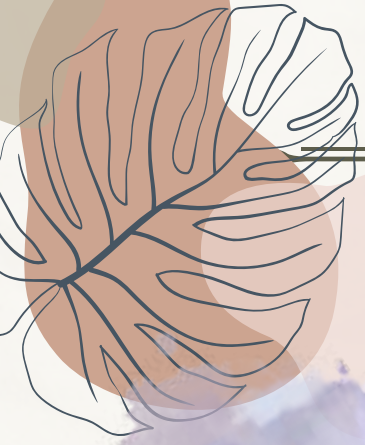
MY TIME IN THE UK WAS AN INCREDIBLE EXPERIENCE THAT WENT BEYOND PROFESSIONAL GROWTH. THE PROCESS OF ADAPTING TO THE LOCAL CULTURE INTRODUCED ME TO A WORLD OF DIVERSE TRADITIONS, AND I FOUND MYSELF SAVORING THE DELIGHTFUL ARRAY OF BRITISH CUISINE. NAVIGATING THROUGH THE CITY, I WAS CAPTIVATED BY THE JUXTAPOSITION OF HISTORICAL LANDMARKS AGAINST THE BACKDROP OF MODERN URBAN LIFE.

RESIDING IN THE DORMS ADDED AN EXTRA LAYER OF CAMARADERIE TO THE ENTIRE EXPERIENCE, ENABLING CONNECTIONS WITH FELLOW INTERNS AND STUDENTS FROM VARIOUS CORNERS OF THE GLOBE. THE DORMITORY'S COMFORTABLE SETUP AND AMENITIES CONTRIBUTED SIGNIFICANTLY TO MAINTAINING A CONDUCIVE ENVIRONMENT FOR BOTH WORK AND LEISURE.

ALL IN ALL, MY TENURE AT TEESSIDE UNIVERSITY NOT ONLY ALLOWED ME TO CONTRIBUTE TO CUTTING-EDGE MEDICAL RESEARCH BUT ALSO GRANTED ME THE PRIVILEGE OF IMMERSING MYSELF IN THE UK'S VIBRANT CULTURE AND LIFESTYLE.



JUSTIN MASCARENHAS



**SILVER MEDAL
IN
KATHAK GRADUATION**

**RASIKA KULKARNI
SE**



**BHARUD PERFORMANCE
IN ETAMAX**

ACHIEVEMENT'S

ANUSHKA CHAUKE

**1ST PRIZE IN CRICKET
MATCH**



SUJAL P. GHADGE

1ST PRIZE IN GARBA

STUDENT ACHIEVEMENTS

Meryl Jacob participated in Pillai Alegria Technical Paper Presentation Competition on 16th April 2022 at Pillai College of Engineering and won 2nd prize.

Payal Chatterjee participated in Mini Project Competition on 12th February 2020 by IEEE Student Body and won 2nd prize.

Pooja Patil participated in IEAECT-2022 held on 07th April 2022 at Vidyalankar Institute of Technology And won 1st prize.

Joezer Ebenezer participated in ACCET 2022 on 19th April 2022 at M. E. S's College of Engineering, Pune and won 1st prize.

Pratik Pandurang Lomte participated in Mini Project Competition held on 12th February 2022 By IEEE FCRIT SB, Vashi and won 1st Prize.

Shrudhi Chaudhary participated in BRAINBRAWL held on 09th July 2021 at Fr.C.Rodrigues Institute of Technology, Vashi and won 2nd Prize.

Tadaksha Mahesh participated in Paper presentation held on 16th April 2022 at Modern education society's college of engineering pune and won 1st prize.



Extra-Curricular ACHIEVEMENTS



EXTRA CURRICULAR ACHIEVEMENTS





EYANTRA INNOVATION CHALLENGE IS A NATIONAL LEVEL COMPETITION ORGANISED BY IIT BOMBAY. COMPETITION TESTS TECHNICAL AND ENTREPRENEURSHIP SKILLS OF THE PARTICIPANTS. IT CONSISTS OF FOUR MAIN STAGES STARTING WITH IDEA PROPOSAL, INNOVATION SPRINT, IMPLEMENTATION SPRINT AND FINAL SPRINT. TEAM CONSISTING OF FOUR MEMBERS FROM EXTC DEPARTMENT NAMEDLY SARVESH SHINDE, BRETT PINTO, LAVLESH POYAREKAR AND SIDDHESH UPADHYAY UNDER THE GUIDANCE OF MS. SNEHA REVANKAR CROSSED ALL THE BARRIERS AND REACHED THE NATIONAL SEMI FINALS. THEY CREATED SAROPAN WHICH IS A SELF DRIVEN SEED SOWING ROVER. THE PROCESS OF SEED SOWING OF FRUIT-

VEGETABLE CROPS IS CARRIED OUT MANUALLY WHICH INCREASES THE AMOUNT OF TIME, HUMAN EFFORTS AND LABOUR COSTS. SO TO SOLVE THIS PROBLEM, A BI-FUNCTIONAL DEVICE 'SAROPAN'

CAPABLE TO AUTOMATE THE ENTIRE PROCESS WITH MINIMUM HUMAN INTERACTION MAINTAINING A COST EFFECTIVE NATURE HAS BEEN PRESENTED.

THIS DEVICE HAS BEEN DESIGNED TO ERADICATE THE EFFORTS TAKEN BY FARMERS TO WORK IN THE SCORCHING HEAT WHICH CONSUMES TIME AS WELL AS DOESN'T GUARANTEE MAXIMUM EFFICIENCY



Source Catalyst

EMPOWERING STUDENTS THROUGH INNOVATIVE ED TECH SOLUTIONS



THE JOURNEY OF SOURCE CATALYST BEGAN WITH A VISION TO BRIDGE THE GAP BETWEEN ACADEMIA AND INDUSTRY DEMANDS. RECOGNIZING THE NEED FOR HOLISTIC SKILL DEVELOPMENT, THE FOUNDERS EMBARKED ON A MISSION TO PROVIDE STUDENTS WITH IMMERSIVE LEARNING EXPERIENCES. WEEKLY MASTERCLASSES CONDUCTED BY INDUSTRY EXPERTS NOT ONLY IMPART PRACTICAL KNOWLEDGE BUT ALSO ENABLE STUDENTS TO EXPAND THEIR PROFESSIONAL NETWORKS. THE PROGRAMS OFFERED BY SOURCE CATALYST FOSTER AN ENVIRONMENT WHERE THEORETICAL CONCEPTS MEET REAL-WORLD APPLICATIONS, CREATING A SYNERGY THAT PROPELS STUDENTS TOWARDS EXCELLENCE.

SOURCE CATALYST'S MAIN APPROACH IS ITS PROJECT-BASED LEARNING MODEL. INDUSTRY-VETTED PROJECTS ARE SERVED TO STUDENTS TO HONE THEIR SKILLS WHILE SOLVING REAL-WORLD CHALLENGES. THE HANDS-ON NATURE OF THESE PROJECTS NOT ONLY BOOSTS CONFIDENCE BUT ALSO NURTURES CRITICAL PROBLEM-SOLVING ABILITIES. COMPLEMENTING THIS APPROACH IS THE PERSONALIZED MENTORSHIP PROGRAM, OFFERING STUDENTS ONE-ON-ONE GUIDANCE AND SUPPORT TO CLEAR DOUBTS AND NAVIGATE THEIR COURSE PROJECT DURATION EFFECTIVELY IN JUST 30 DAYS.

IN A RAPIDLY EVOLVING WORLD, TRADITIONAL EDUCATIONAL PARADIGMS ARE BEING RESHAPED BY INNOVATIVE STARTUPS LIKE SOURCE CATALYST. WITH A CORE FOCUS ON SKILL DEVELOPMENT PROGRAMS THROUGH PROJECT-BASED LEARNING, SOURCE CATALYST HAS EMERGED AS A BEACON OF TRANSFORMATIVE EDUCATION. CO-FOUNDED BY ADITI AMBADKAR (CEO), MONISH MEHER (CTO), AND PRATIK LOMTE (COO) OF FR. CONCEICAO RODRIGUES INSTITUTE OF TECHNOLOGY, VASHI (FCRIT) DURING THEIR THIRD YEAR OF ENGINEERING, THIS ED TECH STARTUP HAS COME A LONG WAY IN A SHORT SPAN, REVOLUTIONIZING THE WAY STUDENTS LEARN AND PREPARE FOR A BRIGHTER FUTURE.

Source Catalyst

EMPOWERING STUDENTS THROUGH INNOVATIVE ED TECH SOLUTIONS



THE IMPACT OF SOURCE CATALYST IS EVIDENT IN THE NUMBERS - OVER 200+ STUDENTS HAVE ALREADY BENEFITED FROM THE PROGRAM, WITH ITS INFLUENCE REACHING BEYOND BOUNDARIES. COLLABORATIONS WITH MORE THAN 5 UNIVERSITIES ACROSS 17+ DIFFERENT ACADEMIC INSTITUTIONS REFLECT THE STARTUP'S COMMITMENT TO EXPANDING ITS REACH AND MAKING A SIGNIFICANT MARK IN THE EDUCATIONAL LANDSCAPE.

AT ITS CORE, SOURCE CATALYST IS MORE THAN JUST AN ED TECH STARTUP; IT'S A CATALYST FOR CHANGE. THE VISION TO EMPOWER STUDENTS FOR A BETTER, BRIGHTER FUTURE IS THE DRIVING FORCE BEHIND EVERY INITIATIVE. WITH A MISSION TO EQUIP INDIVIDUALS WITH THE NECESSARY TOOLS AND RESOURCES FOR GROWTH AND DEVELOPMENT, SOURCE CATALYST IS SHAPING A GENERATION OF LEARNERS WHO ARE READY TO TACKLE THE CHALLENGES OF TOMORROW WITH CONFIDENCE AND COMPETENCE.

THE JOURNEY OF SOURCE CATALYST PORTRAYS STRATEGIC GROWTH. THE INITIAL YEAR WAS MARKED BY WORKING ON THE PROOF-OF-CONCEPT MODEL, AN EFFORT TO IDENTIFY THE PERFECT PRODUCT-MARKET FIT. DURING THIS PHASE, THE FOUNDERS MAINTAINED A CONNECTION WITH THE MERCHANT LOGO CENTRE FOR INCUBATION AND BUSINESS ACCELERATION (CIBA), A RELATIONSHIP THAT EVENTUALLY LED TO OFFICIAL INCUBATION IN 2023. CIBA'S MENTORSHIP PROVED TO BE A GUIDING LIGHT, PROPELLING SOURCE CATALYST'S EVOLUTION INTO A TRANSFORMATIVE FORCE IN THE EDUCATION SECTOR.

IN A WORLD WHERE EDUCATION SHAPES DESTINIES, SOURCE CATALYST IS SHAPING EDUCATION, ONE EMPOWERED STUDENT AT A TIME.

WEBSITE: [THESOURCECATALYST.IN](https://thesourcecatalyst.in)
APP: PLAYSTORE > SOURCE CATALYST

PLACEMENT

 Agnel Charities'
Fr. C. Rodrigues Institute of Technology, Vashi
Department of Electronics and Telecommunication Engineering
Congratulations **EXTC** students for getting placed in **RELIANCE JIO**

 Pratik Lomte	 Anika Rai	 Abhinav Jha	 Vedant Deshmukh	 Khushi Jagtap
 Gaurav Lanjekar	 Harshada Ghadge	 Abhinav Panmand	 Kushagra Goel	

 Agnel Charities'
Fr. C. Rodrigues Institute of Technology, Vashi
Department of Electronics and Telecommunication Engineering
Congratulations **EXTC** students for getting placed in **COGNIZANT**

 Mokshada Wani	 Justin Enoch
--	--

 Agnel Charities'
Fr. C. Rodrigues Institute of Technology, Vashi
Department of Electronics and Telecommunication Engineering
Congratulations **EXTC** students for getting placed in **Godrej an Boyce**

 Levin Varughese	 Chetan Velonde
--	--



Fr. C. Rodrigues Institute of Technology, Vashi
Department of Electronics and Telecommunication Engineering

Congratulations **EXTC** students for getting placed in **LTI**



Neha Mandelka



Darshana Patil



Komal Parmar



Meenal Tiwari



Agnel Charities'
Fr. C. Rodrigues Institute of Technology, Vashi
Department of Electronics and Telecommunication Engineering

Congratulations to the following BE-EXTC Students (AY2023-24) for getting placed.



John Jerish
(Burns & McDonnell)



Shruti Shetty
(Burns & McDonnell)



Aditya Shah
(Sciative solutions)



Fr. C. Rodrigues Institute of Technology, Vashi
Department of Electronics and Telecommunication Engineering

Congratulations **EXTC** students for getting placed in **TCS**



Sagar Pawar



Shubhrajit Podder



Sonya Nadar



Rishi Kunder



Smriti Singh



Prathamesh Talekar



Devanshi Nigam



Jessica Fernandes



Benji Thalluri

ALUMINI THOUGHTS

When I look back at the four years in Agnells I realize that this institute has helped me to enhance my skills and to evolve as a human being. Many conclude Agnells as a jail but I choose to differ. This institute is just like our parents who expect their children to be disciplined. But again the strictness is for our benefit. Now when I am introduced to the industry atmosphere, I feel thankful for all the drilling and grilling done by our faculty which made me more adaptable. Our faculty members being very dedicated at workplace were a complete source of motivation for the students. The students used to complain about the number of exams we had or the grading scheme which was being followed, but now we realize that there's no alternative for hard work and our college was just making us used to it. Despite of all frustration, tension, stress I had been throughout the four years, now I appreciate the kind of quality education earned which will surely yield me lifelong satisfaction.

- Poonam P. Sakhare Batch: 2012 -2016

My 4 years at FCRIIT were one of the most memorable experiences. My college did not just teach me engineering but it taught me to engineer my life. Dealing with deadlines in my professional career reminded me of the much simpler times when we tried to meet our deadlines of submitting assignments on time. The overall culture of FCRIIT really helped us to shape our future. Besides being a student, I was also lucky enough to get a glimpse of the faculty life here. During my tenure as a lecturer, I got to know about the high commitment level and research orientation amongst professors. Overall amongst the various challenges, I had a great time with the amazing bunch of people I met here

- Jonaki Basu Batch: 2005-2008

ALUMINI TALKS

Hello to all my friends it's a long journey of 1st year to 4th year but every year you learn something new which will change you and your personality will be different from the day you came here in first year and by the end of final year you will be coming out with a good personality and will be confident to face the new challenges in your life after your college. This college teaches you the main thing struggling, facing new difficulties and make you strong enough to enable it out as a good output in life during college time. Rest is cherish these moments with friends and teachers you really gonna miss it once you are leaving this college trust me yours friendly.

- Jerin Mathew 2013-2017

**" ELECTRONICS
IS CLEARLY THE WINNER
OF THE DAY "**

**#PEACE #ENGINEERINGFORGOOD #ELECTRONICS
#TELECOMMUNICATION #FCRIT #BANDWIDTH
#ISF
#IETE#ETSA**

