

MODERN EDUCATION SOCIETY'S
COLLEGE OF ENGINEERING

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Department of Electronics & Telecommunication

Newsletter Volume – 16 Issue 25, JUN-NOV 2022

VISION

To Groom - Motivated, Environment friendly, Self-esteemed, Creative and Oriented Engineers.

MISSION

To Develop Industry Oriented Manpower to accept the challenges of Globalization, by promoting Value Education through motivated trained faculty, by maintaining conducive environment for education at affordable cost, by promoting Industry Institute interaction, by involving alumni.

PATRON

Dr. M. P. Dale (Principal)

EDITORS

Prof. U. D. Dattasamje

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FROM HOD'S DESK

It gives me an immense pleasure to write a few words for our newsletter. Education plays an important role in enabling a person to face a real-life situation with adequate knowledge. The current era is referred to as the era of Artificial Intelligence and machine learning. Sustained advancement in the previous decade has led to the burst of Internet and Wireless Communication and information technology. The processing performances once exclusive to Super Computers are now available in handheld personal digital devices. Improvements in Integrated Circuits have enabled space explorations, made automobiles more efficient, revolutionized the nature of warfare are brought vast libraries of information into our Web Browsers and made world a more interdependent place. As a part of this, MESCOE has made outstanding progress in academic, co-curricular, extra-curricular activities. The department of E&Tc is accredited by NBA for three years with a good grade. Also, the institute is accredited by NAAC with A++ Grade.

We, as Electronics & Telecommunication department always expose our students to various activities such as ASTITVA, ETSA, various technical and extracurricular Clubs such as ROBOCLUB, E-BAJA, etc. My best wishes to all the readers for scaling bigger success and achieving newer heights in future! Wish you all the best!

Dr. Pranoti P. Mane HOD, E&TC

FROM THE EDITOR'S DESK

Greetings!

Through this newsletter I had the opportunity to reflect our departmental activities carried out in last semester. This newsletter is intended to be published twice in a year. It would be a snapshot of the various activities and advancements for all associated with E&Tc department.

I am delighted to stay connected with you through this Newsletter 2022- 23 Sem1 which contains the details about the activities carried out in the last semester.

I appreciate your support and feedback

Prof. U. D. Dattasamje

FROM THE STUDENT EDITOR'S DESK

Dear Readers,

Welcome to this exciting edition of our **E&TC Department Newsletter**. As the student editor, I am delighted to present the various activities, achievements, and highlights of our department.

This issue showcases the talents, experiences, and accomplishments of our students, reflecting the creativity and enthusiasm within our community. I hope these pages inspire you and provide a glimpse of the dynamic environment of our department.

Heartfelt thanks to all our contributors for making this newsletter possible. **Happy reading!**

Mr. Christy Daniel

STAFF MEMBERS






Sr. No.	Abbreviations	Full Name
1	MPD	Dr. Manisha P. Dale
2	PPM	Dr. Pranoti P. Mane
3	PBC	Dr. Pravin B. Chopade
4	PNK	Dr. Prabhakar N. Kota
5	BMN	Prof. Bharati M. Narute
6	SND	Prof. Shrinivas. N. Dharwadkar
7	KST	Dr. Kanchan. S. Tiwari
8	AAD	Prof. Aparna. A. Dhavalikar
9	RSK	Dr. Rekha. S. Kadam
10	SSP	Prof. Sunil. S. Pansare
11	UVB	Prof. Usha. V. Bomble
12	NM	Prof. Nabega Masood
13	YMA	Prof. Yogita. M. Ajar
14	UDD	Prof. Uma. D. Dattasamje
15	MMD	Prof. Mrinai M. Dhanvijay
16	PMB	Prof. Priyanka. M. Bagul
17	PST	Prof. Priyanka. S. Tondewad
18	NPJ	Prof. N. P. Jangale
19	SST	Prof. S. S. Taori
20.	VHK	Prof. Vaishali. H. Kamble
21.	RJ	Prof. Ruchi Jain
22.	AVS	Prof. Akshata. V. Salunke
23.	PSD	Prof. Puja Deokate
24.	SDG	Prof. Suchita D. Ganage
25.	MCR	Prof. Mayuri C. Rathi

CLASS TOPPERS :






Toppers of SE

				
Sudnya Salgarkar	Anjali Jadhav	Christy Daniel	Sanket Darekar	Pranjal Balgude
SGPA: 9.18	SGPA: 9.14	SGPA: 9.09	SGPA: 9.07	SGPA: 9.02

Toppers of TE

				
Aarti Thakur	Akshada Shinde	Sanskrati Patankar	Mrunal Rawade	Vaishnavi Nalawade
SGPA: 9.83	SGPA: 9.81	SGPA: 9.79	SGPA: 9.69	SGPA: 9.67

Toppers of BE

				
Rishikesh Bagekar	Salomi Rathod	Ammit Gangawane	Varad Pawaskar	Nirzar Shah
SGPA: 9.73	SGPA: 9.68	SGPA: 9.56	SGPA: 9.49	SGPA: 9.46

Faculty Achievement / Special Work :

1. Dr. P. P. Mane, “Comprehensive Study of Brain–Computer Interface (BCI) with Emphasis on Strategies Used for Processing the Signals”, CRC Press, ISBN 9781003272694, 2022.
2. Prof. M.M Dhanvijay, “CoAP based energy-aware cluster-based mobility management protocol in WBAN health care environment”, M. E. S College of Engineering, Pune 2021
3. Dr. Kanchan. S. Tiwari , “TEMPERATURE BASED FAN SPEED CONTROL”, IJIRT, 2022.
4. Dr. Kanchan. S. Tiwari , “AN IOT BASED SMART MIRROR USING RASPBERRY PI WITH NEWS AND TEMPERATURE”, IJIRT, 2022.

WORKSHOP / FDP ATTENDED :

Sr . No	Name of teacher	Workshops attended
1	Dr. Kanchan. S. Tiwari	1.Create a Departure and Personal Statement for Interviews
		2. Create a Profile and Network on LinkedIn
		3.Linear Regression with NumPy and Python
		4. Create a Resume and Cover Letter with Word
		5. Introduction to Data Analysis using Microsoft Excel
		6. How to use Custom and Conditional Formatting in Excel
		7. 5 days FDP on Artificial Intelligence Machine Learning and Deep Learning
		8. FOW on VLSI Design and Technology
2	Prof. B.M.Narute	FOW on Cloud Computing
3	Prof. U.D. Dattasamje	FOW on Cloud Computing
		“Cloud Computing Lab Sessions”
4	Ms. Priyanka Tondewad	FOW on "Advanced JAVA Programming"
5	Prof. N. P. Jangale	1. National Level One week Online faculty Development Programme
		2. Faculty orientation workshop on Deep Learning
		3. 15 Days workshop on Machine learning for Data science using Python.
6	Prof. V. H. Kamble	1. National Level One week Online faculty Development Programme
		2. Faculty orientation workshop on Deep Learning
		3. 15 Days workshop on Machine learning for Data science using Python.
7	Prof. Ruchi Jain	IEEE One week faculty Development Programme on "Wireless communication Networks and its

		Applications"
8	Prof. Mayuri Chetan Rathi	IEEE One week faculty Development Programme on "Wireless communication Networks and its Applications"

DEPARTMENT ACTIVITIES :

1. Parent Meeting

Date: 15/10/2022 Venue: Seminar Hall 514

Important points discussed with the parents are as follows:

1. Department presentation (Information, activities and achievements of E&Tc Department)
2. Student's attendance and overall performance.
3. Regarding future plans of the students.

Name of Faculty Coordinators: Dr. R.S. Kadam , Dr. K.S. Tiwari



2. Guest Lectures :-

a) A guest lecture on Radiation and Microwave Theory

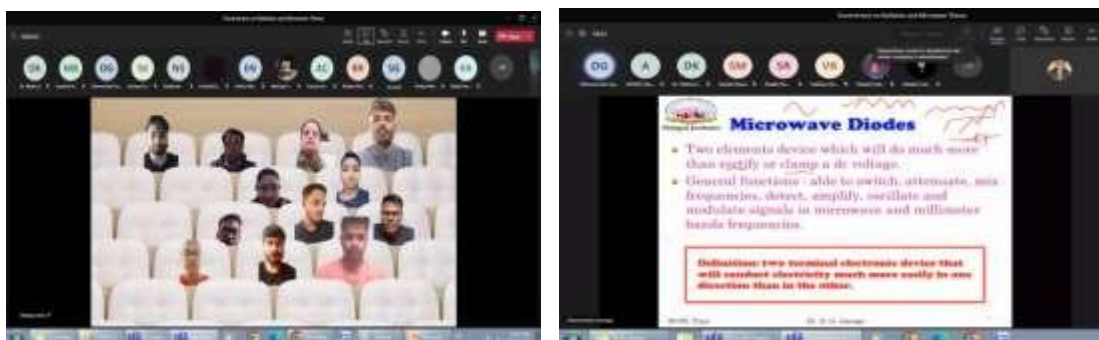
Date: 03-11-2022

Venue: Microsoft Teams

Summary report of the activity:

A guest lecture on Radiation and Microwave Theory have been organized by Coordinator of event and subject teachers Dr. Rekha Kadam and Prof. Sukruti Taori on 3rd November 2022 from 9AM to 11AM. The expert speaker Dr. Dharmendra Ganage from SCoE, Pune has invited for the lecture.

Name of Faculty Coordinators: Dr. Rekha S. Kadam and Prof. S. Taori



b) Cummins Scholarship program -Nurturing Brilliance for SE, TE students

Date: 18th October 2022 Venue: Online Mode Name of Trainer: Mr. Rohit Deo

Summary report of the activity: MESCOE E&Tc teaching faculty organized an online webinar on “**Cummins Scholarship program -Nurturing Brilliance** by Cummins India Foundation” on 18th and 24th October 2022 at 1:30pm to 2:30 pm through Department of E&TC MESCOE. The guest of Honour was an eminent Data Scientist Mr. Rohit Deo. He is Data Scientist from Cummins Inc, Pune. The main aim of the session was to create industrial scholarship awareness to SE and TE students of MESCOE by Cummins India Foundation. In his session he told about norms to avail scholarship to SE and TE students. He informed that economical criteria and students should scored minimum 60% in last year. He gave industrial scholarships awareness.

c) Graphs in Advanced Data Structure: Types, Storing & Traversal

Date: 13-12-22 Venue: Online mode

Summary report of the activity:

A Guest lecture on Graphs in Advanced Data Structure: Types, Storing & Traversal for S.E. E&TC students was successfully conducted on 13/12/2022 from 10 am to 12pm. The Expert Speaker

Prof. Anjali Yadav mam form Sinhgad Institute of Technology and Science Narhe, Pune has invited for the lecture. In the Session subject Expert explained Advanced Graphs in detail.



d) Offline Informative Session on “Internship & Mini project opportunities in Embedded systems and IOT and Industrial PCB designing”

Day &Date: Thursday, 3rd November, 22 **Time frame:** 11:00am to 1:00pm

Names of the Guest Speakers:

1. Mr. Aniket Bapat, Business Head, Teknomindz Institute of Advanced Technology
2. Mrs. Pallavi Dongardive, Head-PCB Design, Teknomindz Institute of Advanced Technology

Company Address: Teknomindz Institute of Advanced Technology, 103, 2nd Floor,

Sudarshan Building, Sheela Vihar Colony, Paud Rd, Kothrud, Pune, Maharashtra 411038

Highlights of event:

The entire session was divided in two parts. In the first part, Mr. Aniket Bapat, Business Head, Teknomindz Institute of Advanced Technology gave insights of opportunities available for engineers in the field of embedded systems and IOT. He also explained what are the advantages of doing career in the core domain. He highlighted the current research and development work that is going on in the industry.

In later part of the session, Mrs. Pallavi Dongardive Head-PCB Design, Teknomindz Institute of Advanced Technology explained the difference between the various soldering techniques. She also provided the information about various technologies that are used in the industry for mounting the components. She explained how to mount and solder the SMD components.



e) Offline Informative Session on “Study abroad options after engineering”

Date: 16/09/2022 **Time:** 3:30pm to 4:30pm

The entire session was divided in two parts. In the first part, Mr. Shreyas Ramakrishnan, Business Head, Jamboree Education Pvt. Ltd., gave insights of opportunities available for engineers in abroad countries like USA and Canada. He also explained what are the advantages of getting higher education in abroad. He highlighted the general admission criteria and required examinations to take the admission.

In later part of the session, Mr. Shreyas Ramakrishnan explained the difference between the various exams like GMAT and GRE. He also provided the information about various scholarships available to study abroad. He explained how to build strong resume to make individuals proposal and the documents required to apply.

Speaker Profile:

Name: Mr. Shreyas Ramakrishnan

Education:

- MBA from Fisher College of Business, The Ohio State University (Fellowship student) (USA)

- MSc from University of Bristol (UK)
- Bachelor of Engineering from Anna university
- GMAT Score 740 (98th percentile)

Work Experience:

Business Head, Jamboree Education Pvt. Ltd,

OfficeNo.83&84, 5thFloor, C-block, ShreenathPlaza, Dyaneshwar Paduka Chowk, FC Road, Pune, Maharashtra-411005

- Six Sigma green belt
- Worked in ABB as Supply Chain Analyst in Process Automation Division
- 13 years of Experience in education industry
- Trained over 5000 students
- Assisted students with application for MS and MBA.



f) Interaction on Placement Preparation for and higher Studies

Bhagwat Suryawanshi currently working as a software Engineer at Quick Heal shared his personal to crack an interview, what all points should on keep in mind while presenting yourself in front of an interviewer. He also gave tips to build a strong resume and how to keep it updated. Every and updated then, which really helped a lot of students because such tips are not taught by the college only an experienced person can give one. He focused more on off campus opportunities also motivated and supported the fact that making mistakes during your interviews is completely fine as you are new to it just keep learning from your mistakes and keep on giving more and more interviews to build self-confidence. Engineer at Quick Heal shared his personal experience on how crack interview, what all points should one keep in mind while presenting yourself in front of an interviewer. He also gave tips to build a strong resume and how to keep it.

Speaker Profile:

Name: Mr. ShreyasRamakrishnan

Education:

- MBA from Fisher College of Business, The Ohio State University (Fellowship student) (USA)
- MSc from University of Bristol (UK)
- Bachelor of Engineering from Anna university
- GMAT Score 740 (98th percentile)

Work Experience:

Business Head, Jamboree Education Pvt. Ltd,

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- Six Sigma green belt
- Worked in ABB as Supply Chain Analyst in Process Automation Division
- 13 years of Experience in education industry
- Trained over 5000 students
- Assisted students with application for MS and MBA.

g) Organizes TEST on "Awareness on Intellectual Property Rights

Start Date: 24/11/2022

Summary report of the activity:

The online material provided to students to study and students attended test on Intellectual Property Rights. The test is conducted objective type 60 questions.



h) "Seniors - To - Junior interaction on placement preparation and higher studies for BE-2023 E&TC students"

- Bhagwat Suryawanshi currently working as a Software Engineer at Quick Heal shared his personal experience on how to crack an interview, what all points should one keep in mind while presenting yourself in front of an interviewer. He also gave tips to build a strong resume and how to keep it updated every-now-and-then, which really helped a lot of students because such tips are not taught by the college only an experienced person can give one. He focused more on off-campus opportunities also motivated and supported the fact that making mistakes during your interviews is completely fine as you are new to it just keep learning from your mistakes and keep on giving more and more interviews to build self-confidence.
- Piyush Nindane currently pursuing his MBA at NITIE Mumbai and worked at TCS for a year, his point for interaction was package is not the only thing which is important while working- your job role, environment you are working in, projects you are working on-what are you learning new from it

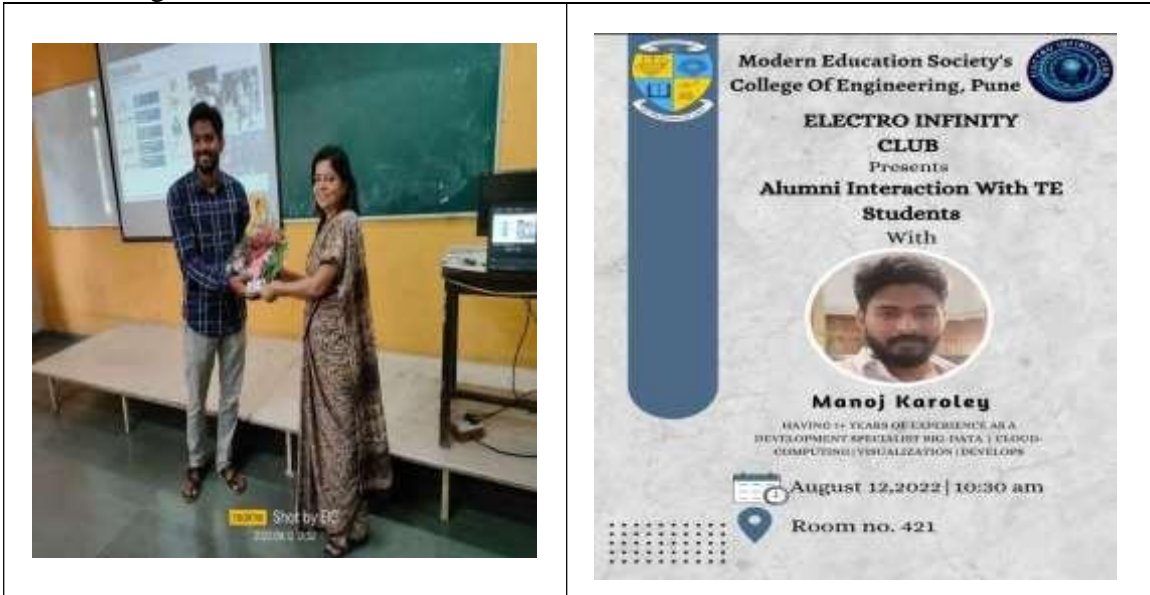
i) Event Name: Alumni Interaction with TE Students

Date: 12th August 2022 Time: 10:30 am Platform: Offline mode

On 12th August 2022, Electro Infinity Club conducted an Alumni Interaction with TE students. It was a successful event. All the participants as well as the club members were enthusiastic and equally active throughout the session. The workshop started with a brief introduction about the Speaker Mr. Manoj Karoley (Alumni of MESCOE) given by our President Mr. Aditya Khapake.

This session was divided into two sessions. The first half, was theoretical in which he explained all about the Data Science and AIML and various other courses needed to get good job placement and its contents by showing us PPT slides.

In the second half, we conducted QNA session. In this session he also cleared our doubts and guided the students to excel in future.



j) Event Name: Guest Lecture on Interview Preparation

Date: 19th October 2022 Time: 9:00 am – 4:00 pm Platform: Offline mode
 On 19th October 2022, Engineers Connect Club conducted their first guest lecture of AY 2022-23. It was a successful event. All the participants as well as club members were enthusiastic and equally active throughout the session. The workshop started with a brief introduction about the Speaker Dipti Inamdar (B-Com, MCM, MBA). Her experience in the field of human resources, marketing and soft skills.

This workshop was divided into three sessions. The first part, was theoretical in which mam explained how to prepare resume. Then the second session which was a group discussion session where mam guided the students about how to deal with various problems.

The last session was oral communication skills and delivering effective interview. In this session mam also cleared all doubts and helped the students in their resume building.

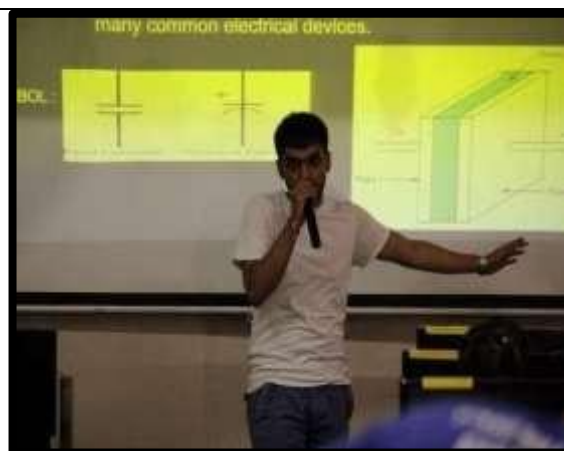




k) Electro Essential 2.0

Date: 2/11/2022 Time: 10 am onwards Platform : Offline mode.

About the Event: On 02nd September 2022, Electro Infinity Club conducted its First workshop of AY 2022-23. It was a successful event. All the participants as well as the club members were enthusiastic and equally active throughout the session. The workshop started with a brief introduction about the Speaker Mr. Vinay Khochare, Ramsha Shaikh, Arnav Botre (BE students of MESCOE) given by our host Anjali Pardeshi. This workshop was divided into three sessions. The first part, was theoretical in which Vinay explained different types of electronic components and its contents by showing PPT slides.



1) Python Boot camp

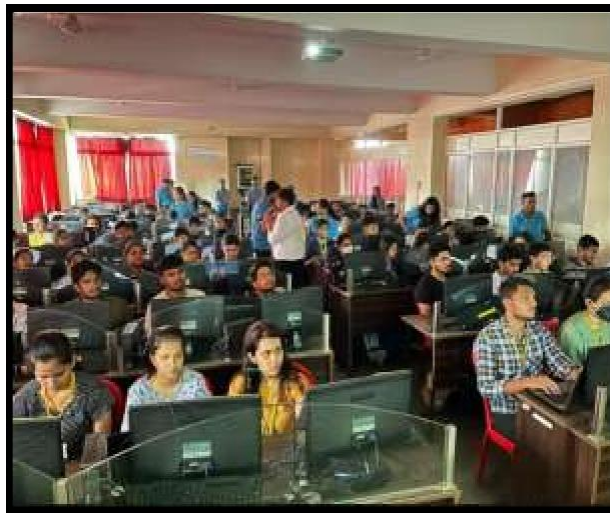
Date: 22nd August - 24th August 2022 Time: 2:00 – 4:00pm Platform: Offline mode
This boot camp was divided into three days.

Day 1: The first day began with an opening ceremony led by the speaker, Mr. Pranav Uikey, in the presence of Dr. Kanchan S Tiwari, faculty coordinator of Engineers Connect Club.

Day 2: Pranav sir clarifies additional Python concepts on the second day. Student's questions were answered by Sir. For the amusement of the students, we played the Tambola Housie game, and the winners received prizes as well. Second day covered topics are: String, storing values in variables.

Day 3: On day three, Sir taught how to create a simple game using the Python concepts learned in the previous session. Students were able to comprehend and build the game. Last day finished with a kahoot quiz and more fun, knowledge.

➤ Glimpse of the Event



Editorial Student Team – E&TC Newsletter



Mr. Christy Daniel



Sairaj Pujari



Neeraj Chajed



Simrit Gill



Sanika Dhaiture

PROGRAM OUTCOMES (POs)

1.Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2.Problem analysis: Identify, formulate,review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3.Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4.Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5.Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6.The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10.Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11.Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12.Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

1. Apply concepts and knowledge of mathematics, basic electronics engineering to various areas like Signal processing, Embedded Systems, VLSI, Communication engineering etc.
2. Design and analyze electronic engineering problem with given specification
3. Implement Electronic and Communication system using appropriate hardware and software tools, keeping in mind it's societal and environmental effect.