Marathwada Mitra Mandal's

College of Engineering

Department of

Electronics and Telecommunication Engineering

IMPULSE

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MESSAGE FROM HOD

Dr.G.S.Gawande
Head of the Department
Electronics & telecommunication Engineering

Dear Friends,

I am honoured and humbled by this opportunity to address future technocrats of the country. Swami Vivekananda once said, “We want that education by which character is formed, strength of mind is increased, the intellect is expanded, and by which one can stand on one's own feet”. He also said, “The education which does not help the common mass of people to equip themselves for the struggle for life, which does not bring out strength of character, a spirit of philanthropy, and the courage of a lion – is it worth the name? Real education is that which enables one to stand on one’s own legs.”

India has made remarkable progress in engineering and technical education in past few years. Many businesses directed their innovations towards society and the environment, leveraging technology and the entrepreneurial mind set to do better. Moreover, the COVID-19 pandemic also presented a huge opportunity for social entrepreneurship.

We, at Electronics and Telecommunication department of Marathwada Mitramandal’s College of Engineering, Pune, believes in imparting the education which empowers our students for welfare of masses. Department is committed to the holistic development of the students. Department provides a strong industry institute interface for keeping pace with the market requirements. We create an environment where the students identify and nurture their inherent potential. We know that we have the responsibility to shape-up the future of budding technocrats and to make them thorough professionals.

It gives me a great pleasure to share with you the progress being made by the department through this Newsletter. I wish all the best to all students and faculty advisors of Department and Professional Bodies Associations.

Marathwada Mitra Mandal's

COLLEGE OF ENGINEERING

Karvenagar, Pune-52

Department of Electronics & Telecommunication Engineering

Vision: To achieve excellence in Electronics and Telecommunication Engineering by creating competent and skilled graduates for the welfare of society

Mission:

- Facilitate students with necessary academic preparations in Electronics and Telecommunication Engineering for higher pursuits
- Inculcate team spirit through technical & extension activities
- Promote creativity, innovation and research culture in faculty & students for meeting global challenges
- Create Ethical and Social Professionals in the field of Electronics and Telecommunication Engineering

Program Specific Outcomes (PSOs):

Graduates of the program will be able to,

PSO1: Design and develop Embedded systems to provide solutions in the field of Electronics and Telecommunication Engineering.

PSO2: Apply and analyse Communication Engineering fundamentals in the field of wired and wireless communications and networking.

PSO3: Apply cutting-edge technology in Robotics and Internet of Things.

Workshop & Technical Events Conducted by Department

DEXTERITY-2K22

15th October 2022

Marathwada Mitra Mandal's College of Engineering organized a National level Technical Event- "DEXTERITY-2K22" on 15th of October 2022. Under this event the Department of E&TC organized events like "Embedded-You Know?", "Creatronics", "Techno Quest". The objective of this event was to provide a platform to the students to present their technical skills and to unleash their ideas in the domain of circuit design, interfacing the peripherals and debugging, simulation and present live demonstration of their ideas or prototype using various controllers.

Dexterity – 2k22

PARENTS TEACHERS MEET

Parents Teachers Meeting (PTM).

Parents Teachers Meeting was conducted on 24th September 2022 for SE,TE and BE.

Venue: Room no 308, Third Floor, Main Building.

One Day Skill Development Workshop

On the occasion of **Engineers Day (15/09/2022),** we have conducted a skill development workshop for Electrical and E&TC students.
The objective of this workshop is as follows:
After this workshop students are able to

1. Identify, select & test electronics/electrical components for Automatic Rechargeable Emergency Light.
2. Use soldering iron for assembly of Components.
3. Understand the operation of Automatic Rechargeable Emergency Light**.**

Number of students participated for this workshop: 52

Inauguration of First Year Engineering Books in Marathi Language

On the occasion of Children's Day (14/11/2022), AICTE inaugurated first year Engineering books in Marathi language.
The event was organized at Mumbai University at Kalina under coordination of DTE Mumbai. During the event a total nine books are published and specimen copies are issued to all the participants. I have submitted all these copies to the MMCOE library.
AICTE chairman, Minister of Education & DTE Director guided all the participants.

Guest Lectures

- Mr. S. Shrinivasan, Navy Commander and working in Antenna Design for Navigation, spoke about Direct to Home broadcast by satellite on 3/4/2017.
- Mr. Anil Raj, Director Cybervault Securities Solutions Pvt. Ltd., Pune, delivered a lecture on Cyber Security and Law on 27/3/2017.
- Mr. S. Shrinivasan, Navy Commander and working in Antenna Design for Navigation, discussed Noise on 27/3/2017.
- Mr. Amit B. Nahar, Senior Project Leader at Knorr Bremse Technology Center Pune, introduced PID controllers on 18/3/2017.
- Mr. Neeraj Kale, Design Engineer at Microembedded Technology, Pune, talked about Ethernet on 16/3/2017.
- Mr. S. Shrinivasan, Navy Commander and working in Antenna Design for Navigation, focused on Antenna Parameters and Design, with special attention to RADAR, on 14/3/2017.
- Mr. Rutvij Pathak and Mr. Chinmay Mahabal, Alumni Members from the 2016 Batch, discussed PCB Design EDA tool (EAGLE) on 9/2/2017.
- Mr. Narendra Sancheti, an Entrepreneur at Santron Meditronics, shared insights on how to plan your project on 18/1/2017.
- Mr. Pranav Dharmadhikari, with a Masters in Computer Engineering from the University of Cincinnati, spoke about Masters in VLSI and Future Scope on 13/1/2017.
- Mr. Avadhoot Deshpande, an Electrical Engineer Intern at KEYper Systems, discussed Masters in Embedded and career opportunities on 13/1/2017.
- Mr. Ashwin Bharat, a Validation Engineer at General Motors in Greater Detroit Area, USA, explored job scenarios in E&TC and higher studies in the U.S.A. on 19/12/2016.
- Prof. C. B. Joshi, a Professor, delivered an expert lecture on Switch Mode Power Supply on 24/9/2016.
- Mr. Ashish Bhopale, from MicroEmbedded Systems Pvt. Ltd., talked about Embedded Linux and cross-compilation Environment on 23/9/2016.
- Mr. Rohit Vatsa, a Senior Expert in Telecom & Media at Persistent Systems Ltd. Pune, discussed Smart Cities and Internet of Things on 20/9/2016.
- Dr. Shaila Apte, a Professor at RSCOE, Pune, covered the fundamentals of Signals & Systems, Fourier series, and Transform on 20/9/2016.
- Dr. Shaila Apte, a Professor at RSCOE, Pune, discussed FIR Filter Design on 20/9/2016.
- Mr. Pratik Khodke, an Alumni Member from NIIT, Pune, talked about Basic Concepts in Mathematics on 8/9/2016.
- Mr. Shreyas Athawale, an Alumni Member from KPIT Pune, discussed Computer Networks and Job Opportunities on 6/9/2016.
- Prof. C. B. Joshi, a Professor, delivered an expert lecture on Embedded RTOS: on 28/7/2016.

- Mr. Rajesh Chavan, the Head of Jeevan Sanjivani Manav Sanshodhan & Vikas Sanstha, discussed Personality Development on 26/7/2016 and 27/7/2016.
- Ms. Uttara Kulkarni, an Alumni Member, and Associate Software Engineer at Tech Mahindra Pune, covered Pointers (Data Structures & Algorithms) on 15/7/2016.
- Mr. Vishumendra Thakur, a Technical Expert at ARK Infosolutions Pvt. Ltd. Mumbai, spoke about the Simulation of Electromagnetic Laws in HFSS Tool on 15/7/2016.
- Mr. Srijit Jacob and Mr. Vishumendra Thakur, Technical Experts at ARK Infosolutions Pvt. Ltd. Mumbai, worked on a Project on Antenna & wave propagation on 15/7/2016.
- Mr. Anand Muglikar, the CEO of StomatoBot Tech. Pvt. Ltd., discussed Recent Trends in Signal & Image Processing on 11/7/2016.
- Mr. Suresh Aundhekar and Mr. Sharad Jadhav, Sub Divisional Engineers at BSNL Regional Telecomm Training center, Chinchwad, Pune, introduced the 'EETP BSNL Course' on 2/7/2016.
- Mr. Nitin Lokhande, the Director of E2A (Educate to Automate), covered PLC and Automation on 1/7/2016.
- Dr. Vinaya Gohokar, an Associate Professor at MIT, Pune, discussed Projects in the IoT Domain on 30/6/2016.

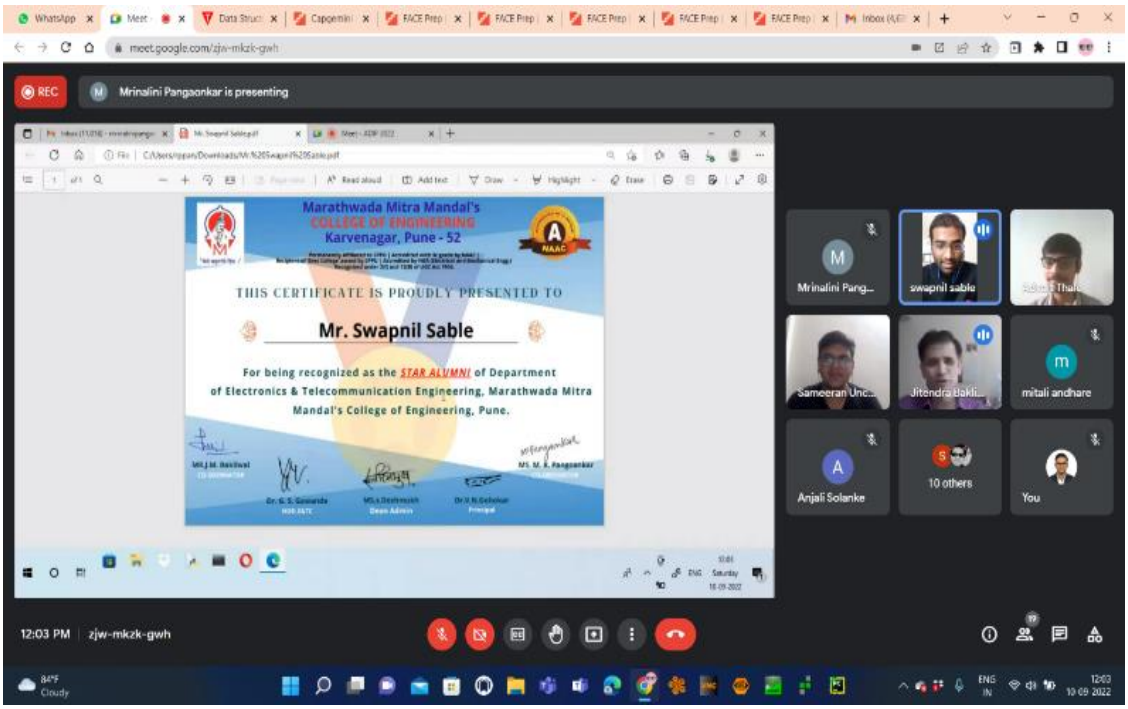
Alumni Activity

We invite Dynamic Alumni who are phenomenal professionals in the domains that they work in. Considering the valuable contribution, we felicitate them as Star Alumni of MMCOE.

Objective of this ADIP-2022 is to

Get to know:

1. Industry Requirements of specific domains.
2. Amazing Corporate Experiences from Alumni.
3. All the things to do and not to do while doing engineering.
4. List of Specific courses that students can pursue to make a better candidate.
5. Entrepreneurial Opportunities
6. Felicitation of Alumni as 'Star Alumni'



Organizing Committee

Co-ordinator

- Mr. Jitendra M. Bakliwal
- Ms.Mrinalini R. Pangaonkar

Program Advisory:

- Dr. Gopal Gawande
- Ms. Swati Deshmukh
- Dr. Anjali Solanke
- Ms. Manisha Dudhedia

BETA

Biasing Energy to Achieve

BETA is a student association of the Electronics and Telecommunication Department. BETA organizes various events based on social and technical importance. All students of the E & TC department are members of the association.

Ms. Isha Joshi	*President*
Mr. Hrutik Bhonde	*Vice President*
Mr. Nitish Mahajan	*Executive Secretary*
Mr. Mandar Keskar	*Secretary*
Mr. Vedang Randhir	*Executive President (Event Management)*
Mr. Ashok Dhaygode	*Vice President (Event Management)*
Mr. Nikhil Jagtap	*Executive President (Media & Publicity)*
Mr. Vedant Jawalekar	*Vice President (Media & Publicity)*
Ms. Sahana Deshpande	*Executive President (Social)*
Mr. Pratik Kalwankar	*Vice President (Social*
Mr. Yashraj Jadhav	*Treasurer*
Ms. Manasi Chitkote	*Treasurer*
Mr. Lokesh Chinchole	*Executive President (Co-curricular)*
Mr. Aniket Dighe	*Vice President (Co-curricular)*
Mr. Siddhant Chormale	*Executive Sports Secretary*
Ms. Rakshita Shetty	*Sports Secretary*
Ms. Chinmayee Deshmukh	*Ladies Representative*
Mr. Siddhant Deshmukh	*Executive President (Extra-Curricular)*
Mr. Shubham Sudrik	*Vice President (Extra-Curricular)*

Faculty coordinators

Ms. Harshada Burande

Dr. Amar Deshmukh

BETA Activities

Educational and recreational activities at Sai Seva Ashram

Event Date: 6th Sept 2022

BETA of E&TC Department had successfully organized a Social Activity event at Shree Sai Seva Ashram, it is a local trust which helps special children for their education and even fulfils their special needs. The main objective of this session was to interact, conduct educational and recreational activities with the students. The BETA committee members educated them with basic knowledge about computers and their usage, they also explained the importance of good hygiene and its maintenance. The drawing session was also conducted to interact with the children. Refreshments were provided to the students.

The reason behind this entire event was to help underprivileged children boost their self-confidence by engaging them in various activities.

Arduino Basics

1st October 2022

The student association BETA of the Department of Electronics and Telecommunication Engineering organized a workshop on 'ARDUINO BASICS' in association with 'ROBOCON -TEAM RUDRA'. This workshop was organized specifically for 10th, 11th, 12th, and diploma students. The main objective of this workshop was to introduce participants with Arduino from scratch. The workshop was inaugurated by Hon'ble Principal Dr. V. N. Gohokar. The workshop was conducted in two parts: theoretical session followed by hands-on practical session. The hands on session was given Tinker cad. Assignments completed on interfacing of various sensors with Arduino Board. Also participants visited the E & TC Department. They visited Robocon -Team Rudra and watched the robots of Team Robocop and FMCIII. Around 60 participants from various colleges and schools were present for the workshop. The event was coordinated by Ms. H. N. Burande, under the guidance of Dr. G. S. Gawande, HOD - E&TC and Dr. V. N. Gohokar, Principal.

Faculty Achievement

Sr. No.	Name	Award/ Recognition Received
1	Dr. Neeta Nitin Thune	Dr. Neeta Nitin Thune is awarded “Best Research Award (Advanced Research) for the year 2022” from Geh Research (Virtual International Awards on Multi-Disciplinary Research and Innovation) announced on 18th June 2022.
2	Dr. Manisha Ajaykumar Dudhedia	Patent On, “Identification And Elimination Of Frauds In Land Registration Process Using Blockchain” Application No.202241041957 A Dated :22/07/2022
3	Dr. Manisha Ajaykumar Dudhedia	Research Excellence Award 2022 awarded to Dr. Manisha Ajaykumar Dudhedia for the work in Journal Paper title" Performance Analysis of game based MAC protocol for cognitive radio based wireless network" in the Journal of King Saud University - Computer & Information Science in year 2021
4	Dr. Archana Bajirao Kanwade	Research Excellence Award 2022 awarded to Dr. Archana Bajirao Kanwade for the work in Journal Paper title" Classification of COPD and Normal Lung Airways using Feature extraction of Electromyographic Signals" in the Journal of King Saud in year 2019

Seminar Workshop Attended By Faculties

Sr. No	Faculty Name	Dates (from-to) (DD-MM-YYYY)	Title of the FDP / professional development / administrative training program
1	Dr. A.B. Kanawade	11th to 15th July 2022	"Inculcating Universal Human Values in Technical Education"
2	Dr. N.N. Thune	14th july to 16th july	BE(E&TC) revised syllabus (2019) Cloud Computing
3	Dr. H.M. Jadhav	14th july to 16th july	BE(E&TC) revised syllabus (2019) Cloud Computing
4	Prof. S. Koparde	14th july to 16th july	BE(E&TC) revised syllabus (2019) Cloud Computing
5	Dr. Anjali Bhatalavande	14th july to 16th july	BE(E&TC) revised syllabus (2019) RMT
6	Prof. H.N. Burande	14th july to 16th july	BE(E&TC) revised syllabus (2019)VLSI Design & Technology
7	Prof. M.R. Pangaonkar	14th july to 16th july	BE(E&TC) revised syllabus (2019)VLSI Design & Technology
8	Dr. A.B. Kanawade	14th july to 16th july	BE(E&TC) revised syllabus (2019) EPD
9	Prof. J. Bakliwal	14th july to 16th july	BE(E&TC) revised syllabus (2019)MIoT
10	Prof. Anup Dakre	14th july to 16th july	BE(E&TC) revised syllabus (2019)MIoT
11	Dr. H.M. Jadav	18th july to 23rd july	Recent Trends in Computations

Departments Technical Club Achievements

Team Rudra (Robocon).

Pune, 17 July 2022: Team Rudra of Marathwada Mitra Mandal's College of Engineering won the Ashoka award and the Prize of Rs 50,000/- in Doordarshan Robocon India 2022 (DD Robocon) held at Thyagaraj Sports Complex, New Delhi. The Team of 22 talented Individuals lead by

Saurabh Natu, represented their college in the National level competition under the able guidance of Prof. G.R. Choudhari.

DD Robocon is the National level robotics competition hosted by IIT DELHI. This competition is the national qualifier for ABU Robocon, an International Robotics Contest organized by Asia-Pacific Broadcasting Union. India being the hosting nation for the Robocon 2022 declared the theme of lagori in which each team must build two robots, first (R1) for breaking the lagori and second (R2) for piling the broken lagori. In the competition, robots compete to complete a task within a set period of time. The competition is conducted in 3 stages. In Stage 1 each participating team college has to submit a design details document which consists of the descriptive technical report and CAD designs of the robot. Team Rudra cleared this stage with a score of 82/100. In Stage 2 the selected teams must submit the proof-of-concept video of the Robots, where Team Rudra scored a grand total of 91/100 and qualified for the final stage of DD Robocon 2022.

TEAM ACHILLES MARKING VICTORY EVERY YEAR

….and the legacy continues

Society of Automotive Engineers Northern India Section (SAE NIS) is a committee that organises several events every year to encourage the youth to participate and develop innovative ideas that can be put forth in the practical world.

Effi-cycle is one such event organised every year where students have to manufacture efficient cycles and compete with each other in the challenges put forward in the event. The event is held in three categories namely, conventional, advanced hybrid and effi-que.

Team Achilles from Marathwada Mitra Mandal's College of Engineering had participated in the Effi-que category wherein they had to manufacture an

electrically powered vehicle from scratch in the college workshop. The Team had successfully achieved an All-India Rank 1 in the 2021 event.

This year the event took place from 22nd to 25th November 2022 in LPU, Punjab.

We are immensely proud to announce that the Team has come out with flying colours yet again with the Best CAE Award in the Effi-que category.

The continuous support from the college dignitaries, guidance of the faculty and exceptional hardwork of the Team has led to an achievement as such and we believe that the legacy of winning prizes will continue every year

Student's Achievements

Sr. No.	Name of the Student	Event	Level	Details
1	Swarneet Jagtap	Robocon	National	Team Rudra owned the "Ashoka Award" and a monetary prize of Rs. 50,000/- in DD ROBOCON 2022 held in New Delhi on 17th July 2022
2	Gaurav Bhat	Robocon	National	Team Rudra owned the "Ashoka Award" and a monetary prize of Rs. 50,000/- in DD ROBOCON 2022 held in New Delhi on 17th July 2022
3	Yash Dangi	Robocon	National	Team Rudra owned the "Ashoka Award" and a monetary prize of Rs. 50,000/- in DD ROBOCON 2022 held in New Delhi on 17th July 2022
4	Yash Shirke	Robocon	National	Team Rudra owned the "Ashoka Award" and a monetary prize of Rs. 50,000/- in DD ROBOCON 2022 held in New Delhi on 17th July 2022
5	Pranav Khadkhotkar	Robocon	National	Team Rudra owned the "Ashoka Award" and a monetary prize of Rs. 50,000/- in DD ROBOCON 2022 held in New Delhi on 17th July 2022
6	Sahil Gupte	Robocon	National	Team Rudra owned the "Ashoka Award" and a monetary prize of Rs. 50,000/- in DD ROBOCON 2022 held in New Delhi on 17th July 2022
7	Sankul Nandurkar	Celonis Academy certification	International	Celonis Academy certification in Academic Process Mining Fundamentals on 7th Sept. 2022
8	Mansi Vikram Shahapurkar	Virtual Internship	City	Process Mining Virtual Internship, 10 weeks, July-September 2022
9	Shubham Sudrik	Linkedin learning course	International	Learning Java, Course completed on 23rd Sept. 2022

10	Omkar Waghmare	Dexterity 2K22-23	National	Dexterity 2K22-23 in Creatronics on 15th Oct. 2022 at MMCOE Pune
11	Advait Ajit Thale	Dexterity 2K22-23	National	1st Rank, own 5000/- prize amount in Dexterity 2K22-23 in Creatronics on 15th Oct. 2022 at MMCOE Pune
12	Shubham Sudrik	Dexterity 2K22-23	National	Best Performer, Dexterity 2K22-23 in Ideation on 15th Oct. 2022 at MMCOE Pune
13	Aditya Kulkarni	Dexterity 2K22-23	National	3rd Rank, own 2000/- prize amount in Dexterity 2K22-23 in Creatronics on 15th Oct. 2022 at MMCOE Pune
14	Manasi Chitkote	Maharashtra startup Yatra 2022	State	Certificate of participation in Maharashtra Startup Yatra 2022 organized by Maharashtra State Innovation Society, on 14th & 15th Oct 2022
15	Soham Karkhanis	e Contemporary 3e Jeet Kune Do & Rapid Assault Tactics (Level 1) Program	International	Assistant Instructor on 4th June 2022

Spoken Tutorial Certification Summary

Sr. No.	Class	Date of conduction	Course Name	No. of students completed certification
1	SE	11-10-2022	LaTeX	132
2	TE	13-10-2022	Android app using Kotlin	148
3	BE	14-10-2022	Java	148

Placement for A.Y. 2022-23

Students are placed in the following companies during

Academic year 2022-23

PROXIMAL SOILSENS TECHNOLOGIES

INFOSYS

AVID TECHNOLGIES

TMCS

VOLKSWAGEN

TIETOEVRY

MINDTREE

TCS

MERCER

Wipro Pari

TTC INFOTECH LLP

DELOITTE

Capegimini	WIPRO	PERSISTENT
MPCI	BYJU'S	ROBSTUR
TRINITY HCL	VIRTUSA	BAJAJ FINSERV
DAR PI-HANDASAH CONSULTANTS INDIA PRIVATE LIMITED	LEAR CORPORATION	STAR HEALTH AND ALLIED

SANTRON MEDITRONIC	LGRS SOLUTIONS PVT LTD	U AND D SQUARE SOLUTION
BROSE	HEXAWARE	KPIT

Editorial Committee:

Staff: Ms. H.N.Burande, Ms. S.S.Tavase

Students: Nikhil Jagtap, Nishika Bhaskarwar