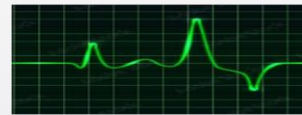




## Biannual Newsletter July- Dec. 2023



# Pulse



Editor: **Ms. M. R. Banwaskar**  
Student Coordinators: **Ms. Sanskruti More**  
**Ms. Vaishnavi Deshmukh**





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### Faculty Corner

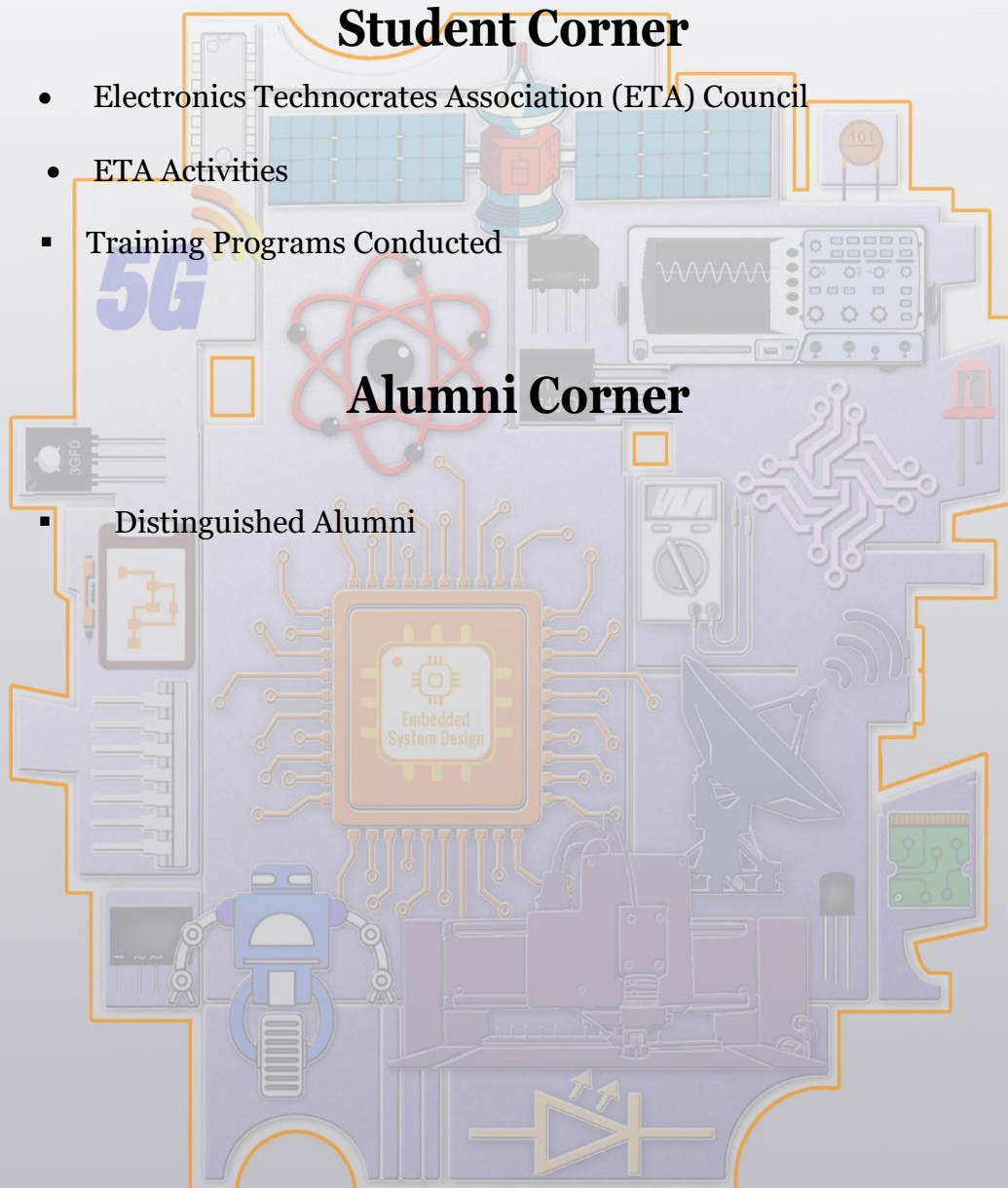
- Faculty Publications
- Workshops/FDP Attended Workshops Conducted

### Student Corner

- Electronics Technocrates Association (ETA) Council
- ETA Activities
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## MGM's College of Engineering, Nanded

### Department of Electronics and Telecommunication Engineering

#### Vision

To be one of the leading departments for Electronics and Telecommunication Engineering to develop proficient Electronics Engineers with global acceptance in the service of mankind

#### Mission

**M1:** Promoting academic excellence in Electronics and Telecommunication engineers through experiential learning and industry engagement, focusing on Communication Engineering, VLSI, Embedded Systems and Internet of Things (IoT) for global competitiveness.

**M2:** Inculcating professionalism, innovation, teamwork, and ethical values in 5G Technology, Artificial Intelligence & Machine Learning, Green and Sustainable Technology, and Biomedical Electronics for the benefit of Society and Industry.

**M3:** Elevating student employability through hands-on programming education and cultivating a robust collaborative network with industry, academic experts, alumni, and student projects.

**M4:** Empowering faculty with continuous training in AIML, Medical Image Processing, Signal Processing, and Pedagogy to improve student learning and research productivity.



## Program Educational Objectives (PEOs):

Graduates of Electronics and Telecommunication employed will:

**PEO 1:** Examine semiconductor device physics and enhance skills in advanced modeling and simulation using computational methods.

**PEO 2:** Master signal and Image processing principles as a core skill and specialize in designing embedded and VLSI systems.

**PEO 3:** Keep up with cutting-edge research in Signal and Image Processing, Communication systems and IoT.

**PEO 4:** Foster an academic environment that emphasizes excellence, leadership, and ethical standards in students, equipping them with lifelong learning skills and essential research components for a successful professional career.

## Program Specific Outcomes (PSOs):

Graduates will be able to:

**PSO 1:** Employ modern tools to model, simulate, experiment with, and analyze the performance of Electronics and Telecommunication systems.

**PSO2:** Address economic, social, environmental, ethical, health and safety issues keeping in pace with latest technological concepts.

**PSO3:** Drive need-based innovations in Electronics Telecommunication Engineering, and fostering 'Make in India' through an understanding of finance management and entrepreneurship product development.



## FACULTY PUBLICATIONS

Author/s	Title (with volume and year)	Name of Journal
A. K. Salve and Dr. K. C. Jondhale	An Accurate And Efficient Multi-Task Brain Tumor Detection with Segmented MRI Images using Auto-Metric Adolescent Neural Network, 2023	International Journal of Computational Vision and Robotics.
A. K. Salve and Dr. K. C. Jondhale	An improved grade-based MRI brain tumor classification using hybrid DCNN-DH framework, Vol. 85, August 2023	Biomedical Signal Processing and Control, Science Direct, Impact Factor 5.076

## FDP/WORKSHOPS ATTENDED

Sr. No	Faculty Name	Course Name	Organized by	Date
1	Dr. Mrs. K. P. Paithane	Design Thinking Course	Turnip Innovations	8 -14 Nov 2023
2	Dr. Mrs. K. P. Paithane	patent Analytics Course	Turnip Innovations	1-10 Sept. 2023
3	Sayed Shoaib Anwar	Cloud Computing	Turnip Innovation	21-27 Nov 2023
4	V. S. Jadhav	Entrepreneurship Awareness Program	Turnip Innovation	6-21 Dec 2023
5	V. S. Jadhav	Patent Analytics	Turnip Innovation	22-31 Dec.2023
6	M. R. Banwaskar	Energy Literacy Training	Energy Swaraj Foundation	29 Nov.2023
7	Ms. A. B. Dalvi	Energy Literacy Training	Energy Swaraj Foundation	10 Dec. 2023



## STUDENT CORNER

### Electronics Technocrats Association (ETA)

Beyond classroom, laboratory and academic experience, our student club ETA is a platform for holistic development of a students with opportunities to explore interests, groom hidden talents, meet and network with other students, interact with experts and to grow technically, professionally and personally.

#### Objectives of ETA:

To organize:

- Expert Lectures by Academicians, Alumni, industry experts
- Project Competitions, Debate competitions, Quiz
- Poster presentation, sketches, painting competitions
- Workshops, seminars, webinars
- Career guidance sessions
- Social activities, Campus Connect activities

In order to plan and execute various activities, ETA Council is formed in each academic year. It consists of Vice-president, Secretary, Treasurer, coordinator, Event Head and board members. Depending on student interest and capability, the selection of ETA council members is done.



### ETA Council

No.	Name	Class	Position
1	Shrutika Gundawar	Final year	Vice president
2	Shweta Suryawanshi	Final year	Secretary
3	Sanskruti More	TY	Treasurer
4	Sanskar Kotalwar	TY	Coordinator
5	Shreya Zarkar	TY	Technical event Head
6	Vaishnav Sasane	TY	Board member
7	Avinash Rathod	TY	Board member
8	Rudrani Dachawar	TY	Board member
9	Nagesh Kharat	TY	Board member
10	Tegampalle Anjana	TY	Board member
11	Shruti Sahare	TY	Board member
12	Aditya Mhaisekar	SY	Board member
13	Vaishnavi Deshmukh	SY	Board member
14	Siddhi Deshpande	SY	Board member
15	Shravani Muli	SY	Board member

Ms. Mangal R. Banwaskar  
**ETA- Coordinator**

Dr. Kalpana P. Paithane  
**ETA - President**



**Mahatma Gandhi Mission's  
COLLEGE OF ENGINEERING, NANDED .**

Dept. of Electronics & Telecommunication.

**ETA COUNCIL 2023 - 2024**



Shrutika Gundawar  
{ Final Year B.Tech }

**Vice President**



Shweta Suryawanshi  
{ Final Year B.Tech }

**Secretary**



Sanskar Kotalwar  
{ Final Year B.Tech }

**Treasurer**



Shreya Zarkar  
{ Final Year B.Tech }

**Technical Event Head**



Sanskruti More  
{ TY }

**Co-ordinator**

**Board Members :-**



Vaishnav Sasane  
{ TY }



Avinash Rathod  
{ TY }



Rudrani Dachawar  
{ TY }



Nagesh Kharat  
{ TY }



Tegampalle Anjana  
{ TY }



Vaishnavi Deshmukh  
{ SY }



Aditya Mhaisekar  
{ SY }



Siddhi Deshpande  
{ SY }



Shravani Muli  
{ SY }





### ETA Activities

Sr. No.	Activity	Date	Participants
1	One week Workshop on <b>Arduino</b>	30 Sept-3 Oct 2023	SY students
2	Formation of Google Developer Student Clubs: <b>Nagesh Kharat TY ECT Selected as GDSC Lead</b>	5 Aug 2023	-
3	Poster making on Independence Day	15 Aug. 2023	
4	Teachers' Day Celebration	5 Sept 2023	All students
5	Workshop on Eco-friendly Ganesh Idol Making	10 Sept. 2023	25 students
6	Engineers Day : Topic: (Online mode) <b>Design Thinking for Start up and Innovation</b> Recourse Person: <b>Mr. Vaibhav Kulkarni</b> , Prof. Dept of Mech. Engg., Walchand Institute of Technology, Solapur	15 Sept 2023	SY, TY, B. Tech. Final year students and faculty
7	Poster making for Gandhi Jayanti Wall Magazine	2 Oct 2023	SY, TY students
8	International year of Millet awareness	29 Nov 2023	SY, TY Students



## One Week Workshop on Arduino

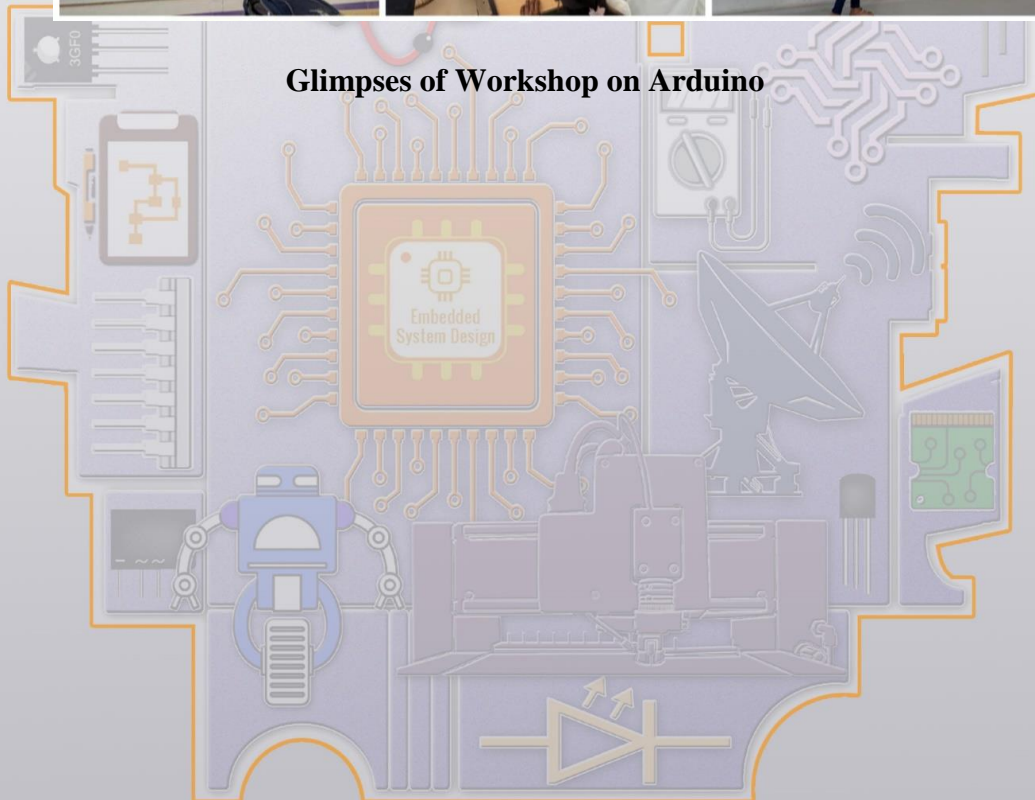
**Workshop on Arduino** is an interactive learning experience that introduces participants to the world of microcontroller programming and electronics prototyping using Arduino boards. It was conducted during 30 Sept-3 Oct 2023 for SY Students. It was coordinated by Mr. D. J. Tuptewar and student volunteers from B. Tech. Final

### Objectives of the workshop:

1. **Hands-on Learning:** Participants engage in practical exercises where they learn to program Arduino boards to perform various tasks, such as controlling lights, motors, sensors, and displays.
2. **Creative Exploration:** Arduino workshops encourage participants to explore their creativity by designing and building their projects. From simple LED blinkers to more complex robotics or IoT projects, the possibilities are endless.
3. **Problem-solving:** Participants learn problem-solving skills as they troubleshoot and debug their projects, gaining valuable experience in identifying and fixing errors in their code or circuit designs.
4. **Collaboration:** Workshops often foster a collaborative environment where participants share ideas, collaborate on projects, and learn from each other's experiences, enhancing teamwork and communication skills.
5. **Empowerment:** Arduino workshops empower participants by demystifying technology and providing them with the skills and confidence to create their electronic devices. This hands-on approach promotes a sense of accomplishment and inspires continued exploration in the field of electronics and programming.



**Glimpses of Workshop on Arduino**

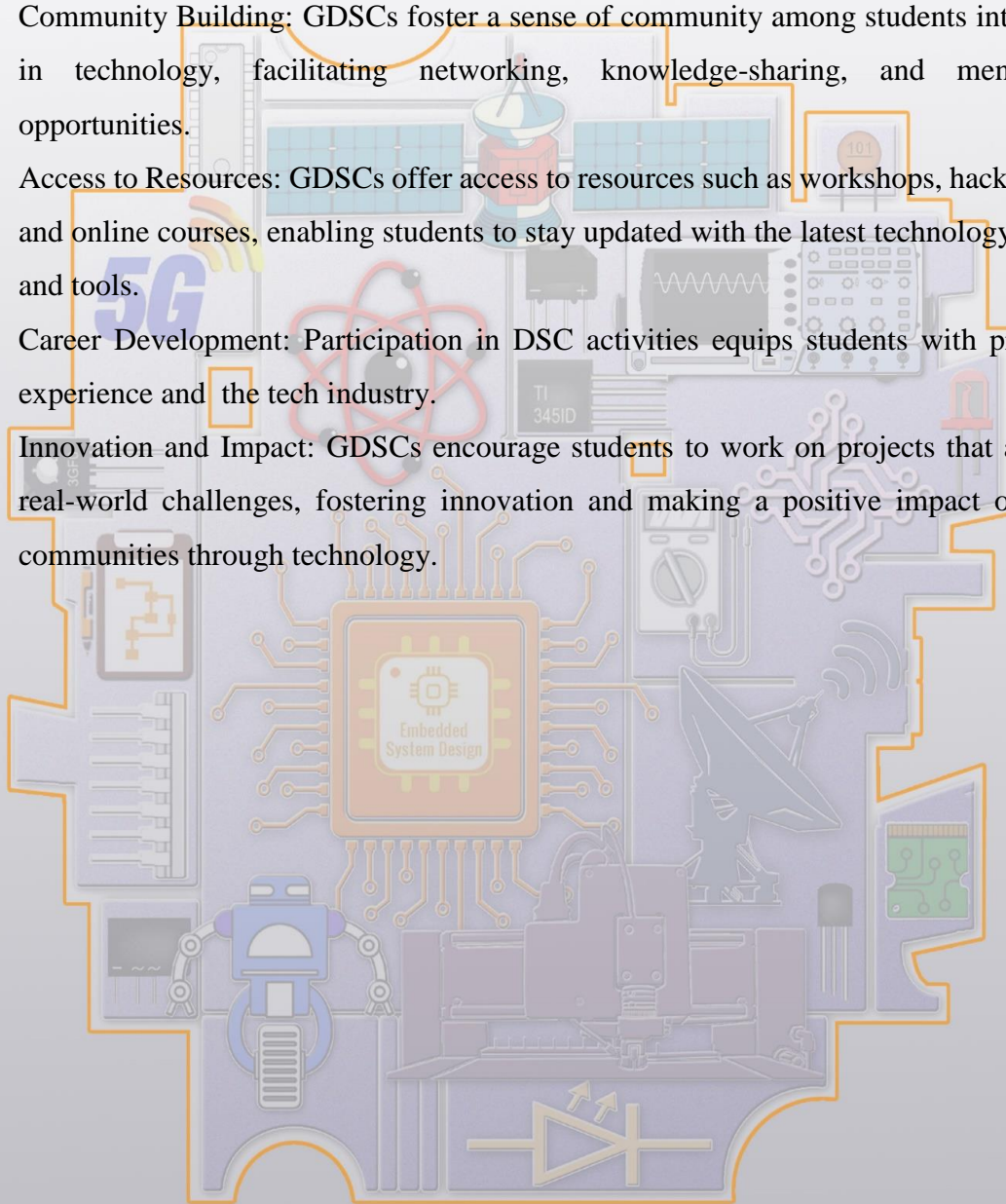




## Google Developer Student Clubs (GDSC)

The formation of GDSC is crucial for several reasons:

1. **Empowering Students:** GDSCs empower students by providing a platform to enhance their technical skills, collaborate on projects, and engage with industry experts.
2. **Community Building:** GDSCs foster a sense of community among students interested in technology, facilitating networking, knowledge-sharing, and mentorship opportunities.
3. **Access to Resources:** GDSCs offer access to resources such as workshops, hackathons, and online courses, enabling students to stay updated with the latest technology trends and tools.
4. **Career Development:** Participation in DSC activities equips students with practical experience and the tech industry.
5. **Innovation and Impact:** GDSCs encourage students to work on projects that address real-world challenges, fostering innovation and making a positive impact on their communities through technology.





## Our Shining Star

# Nagesh Shamrao Kharat



Nagesh Kharat TY (ECT) was selected as GDSC Lead of MGMCOE, Nanded. This a remarkable achievement. Hearty Congratulations Nagesh!!!

GDSC was inaugurated on 15th Aug 2023.

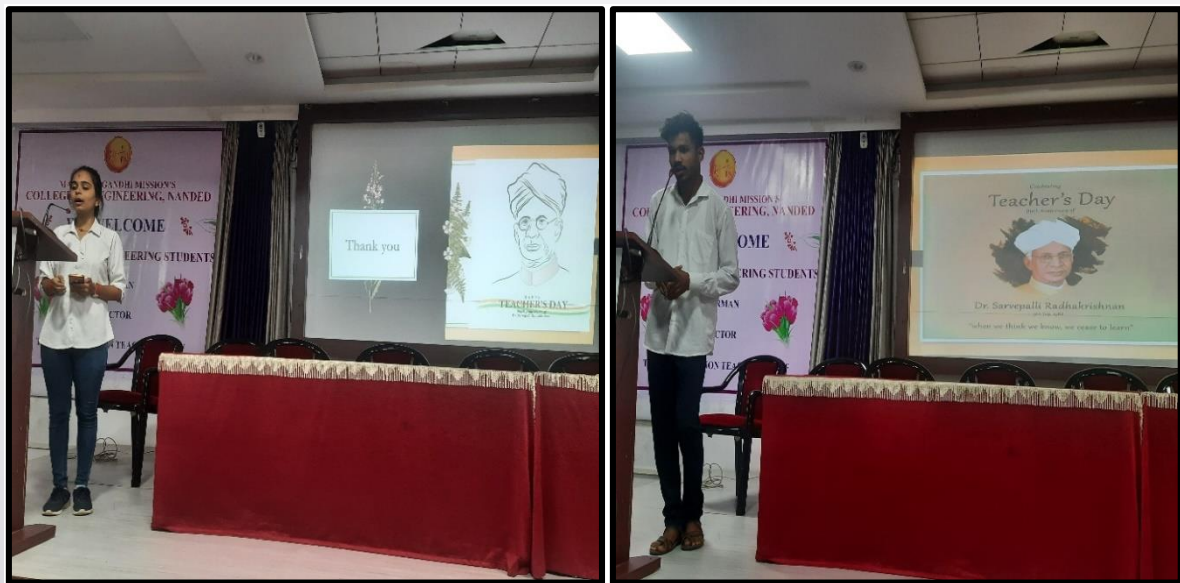


GDSC inauguration at the hands of Dr. Geeta Lathkar, Director, MGMCOE, Nanded

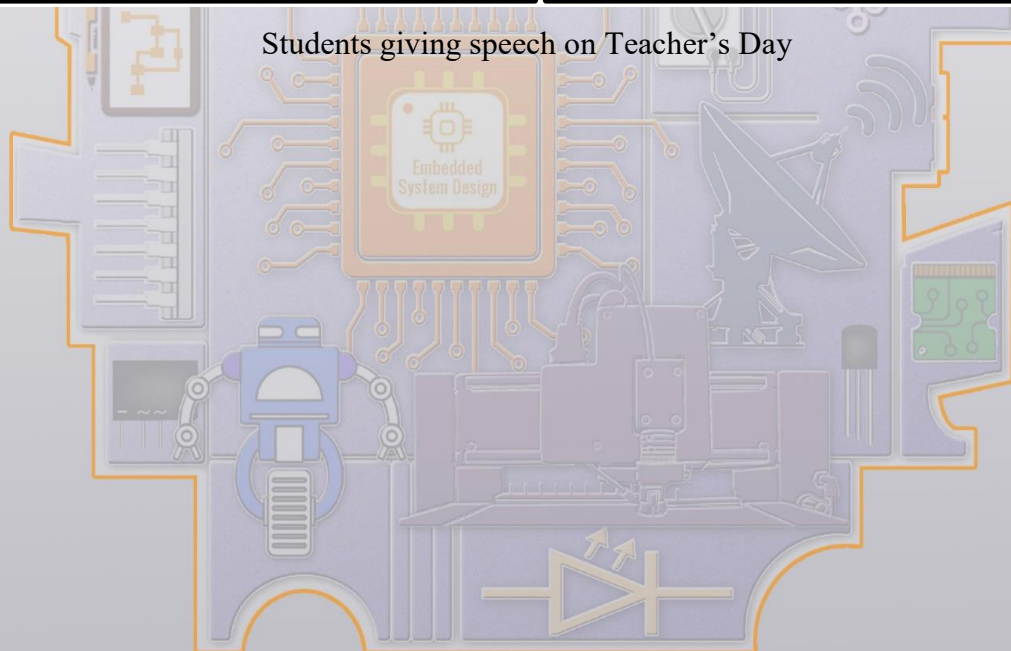


## Teachers' Day Celebration

It is a heartfelt tribute to the dedication, passion, and invaluable contributions of educators worldwide. During this occasion students express gratitude and appreciation towards their teachers for their unwavering support, guidance and mentorship that have shaped their lives and academic journey.



Students giving speech on Teacher's Day



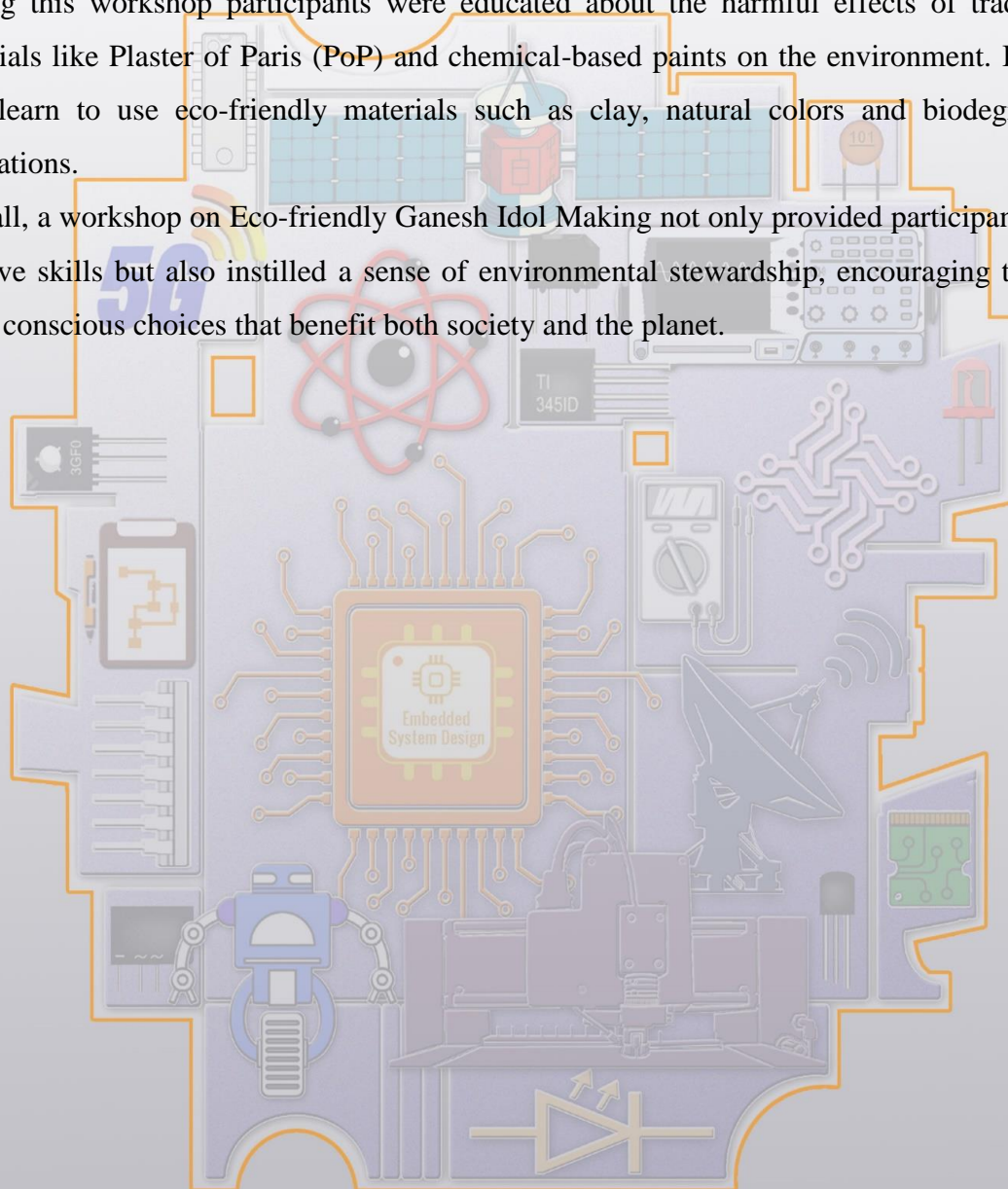


## Workshop on Eco-friendly Ganesh Idol Making

Workshop on Eco-friendly Ganesh Idol making is an initiative aimed at promoting sustainability and environmental consciousness among students. The workshop was conducted in association with Tech-life club of MGM. Around 77 students participated in the workshop. Ms. Kavita Shirpurkar (Clay Artist) conducted this workshop at MGM Campus on 10 Sept. 2023.

During this workshop participants were educated about the harmful effects of traditional materials like Plaster of Paris (PoP) and chemical-based paints on the environment. Instead, they learn to use eco-friendly materials such as clay, natural colors and biodegradable decorations.

Overall, a workshop on Eco-friendly Ganesh Idol Making not only provided participants with creative skills but also instilled a sense of environmental stewardship, encouraging them to make conscious choices that benefit both society and the planet.





## Engineers Day Celebration

It is a tribute to the ingenuity, innovation, and contributions of engineers worldwide. It's a time to honor the remarkable achievements of engineers and recognize their role in shaping the modern world.

The lecture on "Design Thinking for Startups and Innovation" by Prof. Vaibhav Kulkarni, Prof, Dept of Mech. Engg., Walchand Institute of Technology, Solapur, was arranged online which provided invaluable insights into leveraging design thinking methodologies to drive entrepreneurial success.

Attendees learned how to empathize with users, define problems, ideate innovative solutions, prototype rapidly, and iterate based on feedback. Through real-world case studies and interactive discussions, the lecture inspired participants to adopt a human-centered approach to innovation and problem-solving.

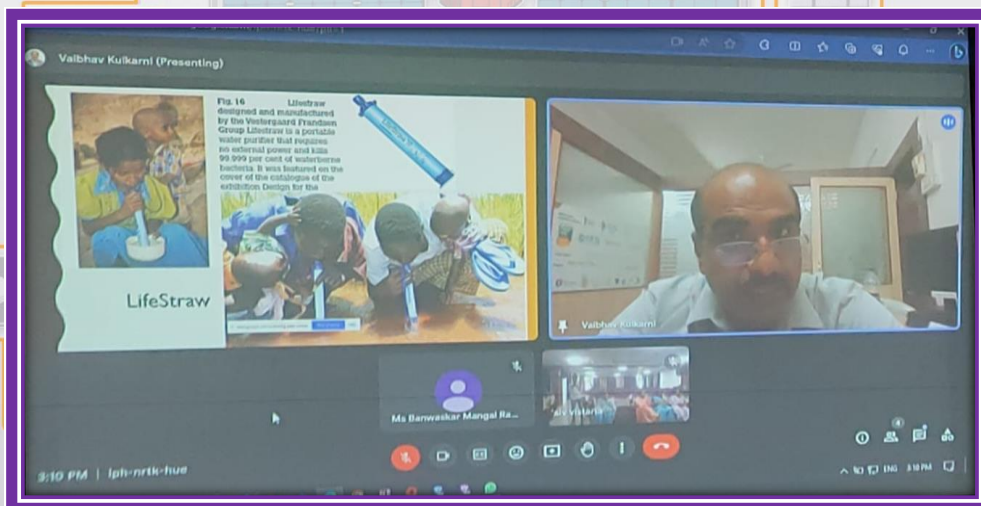
Happy **ENGINEER'S** Day



**A Salute to all Engineers**

Your ideas and innovations have truly changed people's lives.





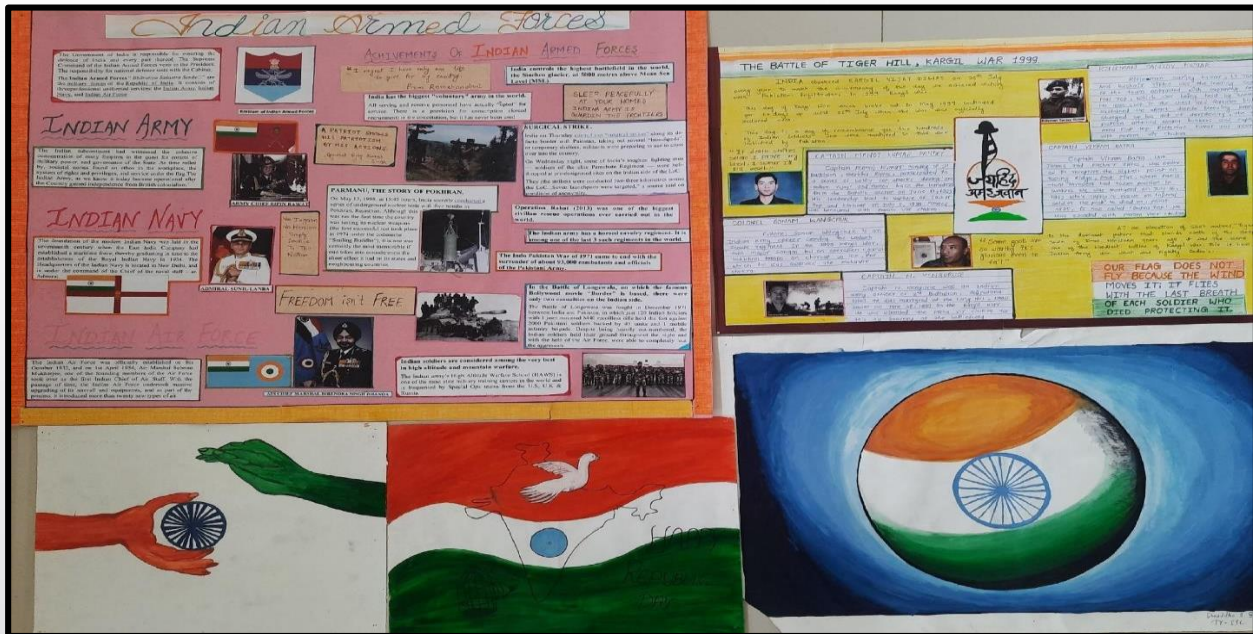
Online lecture on "Design Thinking" by Mr. Vaibhav Kulkarni Professor, Dept of Mech. Engg., Walchand Institute of Technology, Solapur



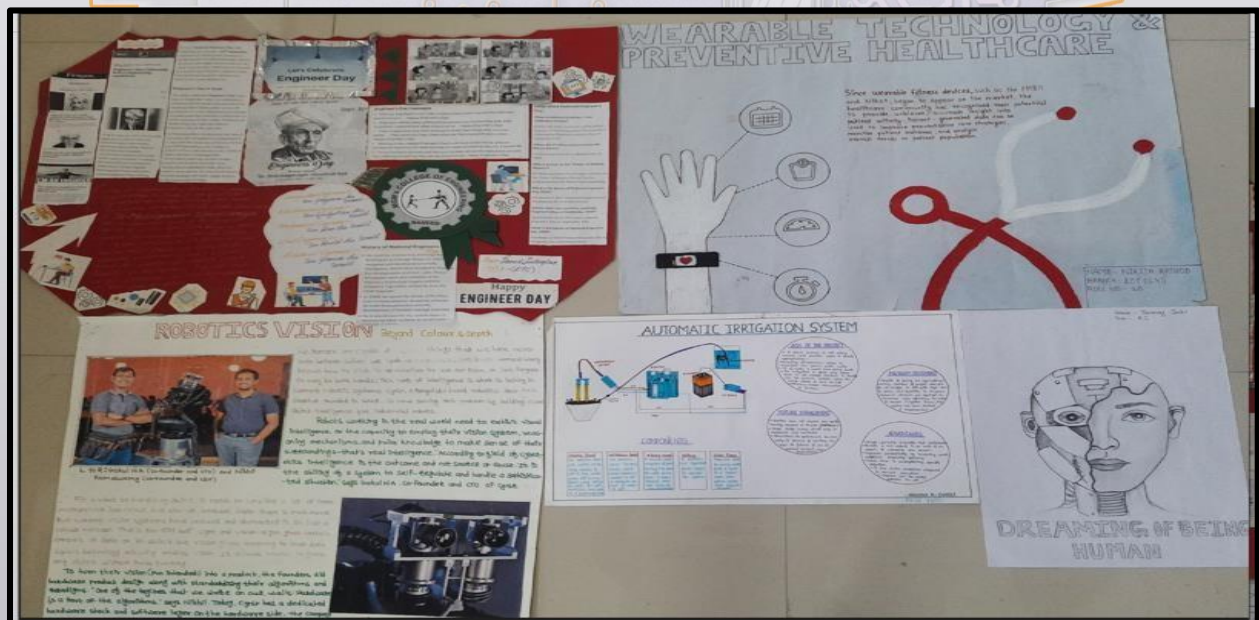
Students delivering speech on Teachers Day



## Posters made by students



Posters made by students on Independence Day 15 Aug 2023



Poster made by students on Engineer's Day 15 Sept 2023



## Alumni Corner

Alumni are the real ambassadors of any institute. Their contribution in development of institute and feedback really helps in continuous improvement in teaching-learning as well as placement activities. MGMCOE ECT alumni are holding high rank positions in industry and academia in India and abroad.

### Alumni Speaks



**Govind Jadhav 2008-2012**  
**Security Consultant, IBM, Pune**

My days in MGMCOE, Nanded were enriched by exceptional teaching, where professors went beyond imparting knowledge to truly caring for our all-round growth. The dedication of our educators fostered an environment of academic excellence and personal support. Moreover, the facilities provided were top-notch, enhancing our learning journey. It's the combination of caring mentors, superb teaching, and excellent facilities that truly made our alma mater a remarkable place to grow.



**Somesh Pokarne**

**Senior ASIC Design Engineer, NVIDIA Graphics India Pvt. Ltd.**

The atmosphere in our department was of encouragement, collaboration, and intellectual curiosity, where students thrived both academically and personally. Faculty and staff played a pivotal role in creating this nurturing setting, ensuring every student felt supported and valued. It's this environment that not only shaped our academic pursuits but also instilled lifelong values in us. I owe my success to the learning in MGM, Nanded.



**Indrajeet Pande**

**Verification Engineer, AMD Hyderabad**

Thanks to MGM, I owe who I am today to the invaluable education I received within during my college days. The transformative experiences and knowledge imparted have sculpted me into the person I am proud to be. MGM's commitment to academic excellence has been instrumental in shaping my journey towards success and personal growth. Gratitude fills my heart for the profound impact MGM has had on my life.



**Mr. Sagar Kankal**

**Team Lead, Software Quality Assurance, SSNC Pvt. Ltd., Hyderabad**

I attribute my success to the comprehensive support and holistic development opportunities I received when I was engineering student at MGM. In addition to academic knowledge my personal growth equipped me with invaluable skills and experiences. From mentorship programs to extracurricular activities, every facet of MGM's support network played a pivotal role in shaping my career. I am profoundly grateful for the nurturing environment that allowed me to flourish and become the person I am today.

