

**Mechanical Engineering Students Association Club
(MESA)**

STUDENTS' CORNER

Mechanical Engineering Students Association (MESA) is the active association of MGM's College of Engineering. This is formed by the students of Mechanical engineering students. This provides a platform to the students to explore their skills and express their views in front of everyone. MESA organizes various technical, cultural and social events to keep the students active throughout the year. The MESA is formed by the Head of the Department and the MESA faculty coordinators. The Students' Council consists of a President, Vice President, Secretary, Co- Secretary, Ladies Representative, Sports Incharge and Cultural Incharge.

**MECHANICAL ENGINEERING STUDENTS ASSOCIATION
(MESA) COUNCIL A.Y. 2022-2023**

Academic Year	Students Council	Responsibility
2022-2023	Mr.Ganesh L. Dhondkar	President
	Ms. Shital S. Kurhe	Vice President
	Mr.Hashmi Wajid Ali MaozamAli	Secretary
	Mr.Govind G. Hanmante	Co-Secretary
	Ms. Nikita R.Mahajan	Ladies Representative
	Mr.Abhishek A. Badge Mr.Parag R.Shinganwad	Sports Incharge
	Mr.Arjun T.Bansode Ms.Ranju P.Sharma Ms.Shruti S.Tammalwad Mr.Vaibhav V.Pathak	Cultural Incharge



MGM's College of Engineering, Nanded

Department of Mechanical Engineering

MESA COUNCIL 2022-23



Mr. Ganesh Dbondkar
President



Ms. Shital Kurbe
MESA Vice- President



Mr. Wajid Ali Hashmi
Secretary



Mr. Govind Hanmante
Co-Secretary



Ms. Nikita Mahajan
Ladies Representative



Mr. Abhishek Badge
Sports incharge



Mr. Arjun Bamode
Cultural Incharge



Ms. Ranju Sharma
Cultural Incharge



Mr. Vaibhav Pathak
Cultural Incharge

Mr. Prashant M. Pahinkar
MESA Co-Ordinator

Dr. Mahesh G. Harkare
HOD

Dr. Mrs. Geeta S. Lathkar
Director

Mechanical Engineering Students Association (MESA) has organized a Guest Lecture by Mr. Ramakant Kulkarni (Director, Malgudi Institute of English Nanded.) on topic “Importance of Communication in Day to Day Life and How to Improve Communication Skill to Face Technical Interviews and Events” on 6th June 2022.

During his lecture he has focused on following points.

1. Communication plays a vital part in building up a strong relationship across the world, either in organizational structure or outside of it
2. It is an essential pillar for people in sharing the ideas, delegating responsibilities, management of a team, building up a healthy relationship, etc
3. The communication process involves understanding, sharing, and meaning, and it consists of eight essential elements: source, message, channel, receiver, feedback, environment, context, and interference.
4. The four types of communication are verbal, non-verbal, visual and written communication.
5. Effective communication can help to resolve or avoid problems and/ or conflicts. It helps you connect with others and share ideas.
6. Effective communication clarifies information, reducing wasted time. Helps builds relationships, teamwork, and trust.

MESA ACTIVITIES



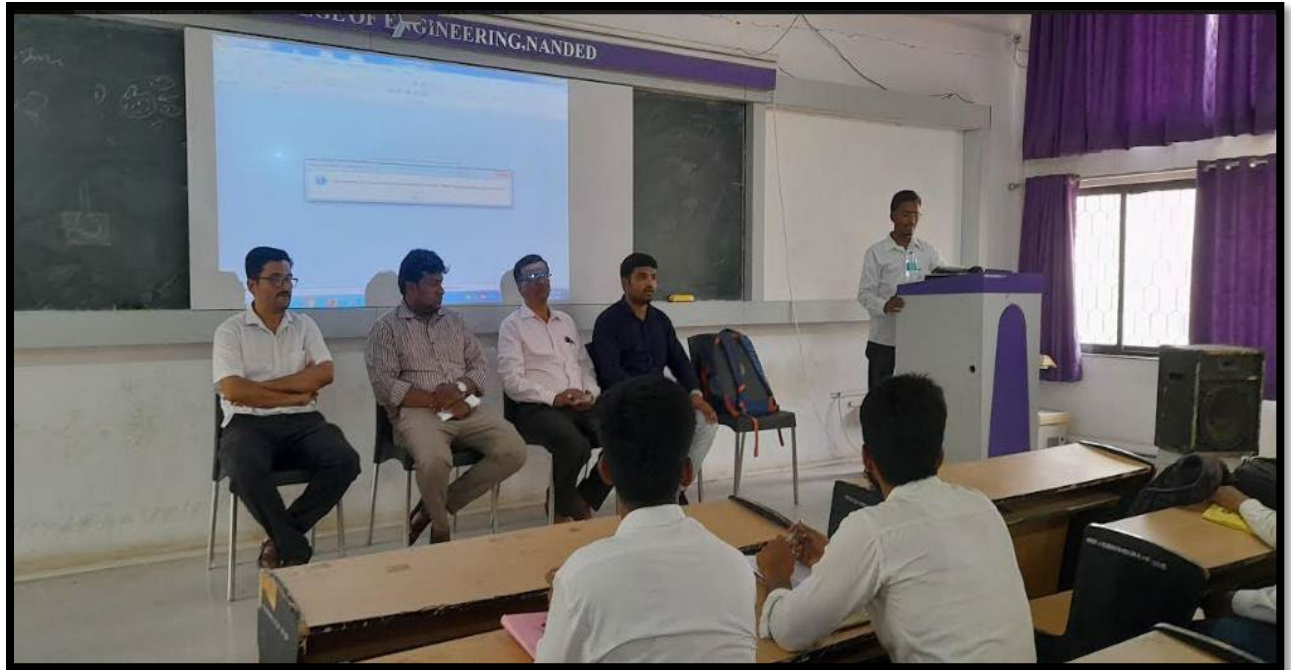
Guest Lecture arranged by MESA on topic “Importance of Communication in Day to Day Life and How to Improve Communication Skill to Face Technical Interviews and Events” by Mr. Ramakant Kulkarni

EXPERT LECTURE

An expert lecture on “Importance and Working of ERP in Industry” by Mr. Shahid Shaikh DNS ERP Private Limited was organized on 27th May 2022 for T.Y. and B.Tech Mechanical Engineering student in B.Tech classroom.

During his lecture he has focused on following points.

- 1 Enterprise resource planning (ERP) is a software system that helps you run your entire business, supporting automation and processes in finance, human resources, manufacturing, supply chain, services, procurement, and more.
- 2 ERP software allows businesses to manage data and conduct other office functions (such as human resources) by use of coordinated applications that work cooperatively to maximize efficiency.
- 3 Two major advantages of ERP are improved communication and better collaboration.
- 4 A key benefit of ERP software is improved visibility into your workforce, assets, inventory, and more.
- 5 Its reporting and analytics tools provide a high-level understanding of how various resources are connected and used.



An Expert Lecture by Mr. Shahid Shaikh (DNS ERP Private Limited) on topic “Importance and Working of ERP in Industry” on 27th May 2022

PHOTO GALLERY



Recruitment Team of Finulent Solutions visited on campus placement drive for Civil and Mechanical Engineering students on 22nd March 2022



Dr. C. J. Somwanshi has conducted group discussion and grooming for

Interview preparation for B.Tech students on 21st March 2022.



Students Visited with Mr. S. I. Titare and Mr. C. V. Bandela to Baba Ramdev COE, Nagpur for Tata Motors Campus Drive on 4th April 2022



131th Birth Anniversary Celebration of Bharatratna Dr. Babasaheb

Ambedkar on 14th April 2022



**Inauguration of the program organized on the 131th Birth Anniversary of
Bharatratna Dr. Babasaheb Ambedkar on 13th April 2022**



Dr. Ajay Gavane highlighting the revolutionary impact of Bharatratna Dr. Babasaheb Ambedkar's work on 13th April 2022



Students participation in an Essay Competition on the 131th Birth Anniversary of Bharatratna Dr. Babasaheb Ambedkar on 13th April 2022



An exquisite rangoli during the celebration of Chhatrapati Shivaji Maharaj Jayanti on 19th February 2022



A vibrant Dhol Pathak adding rhythm to the festivities during the celebration of Chhatrapati Shivaji Maharaj Jayanti on 19th February 2022



Students Performing Acts On Occasion of Chh. Shivaji Maharaj Jayanti



Girl Students Playing Lezim While Boys and Girls in Band Pathak



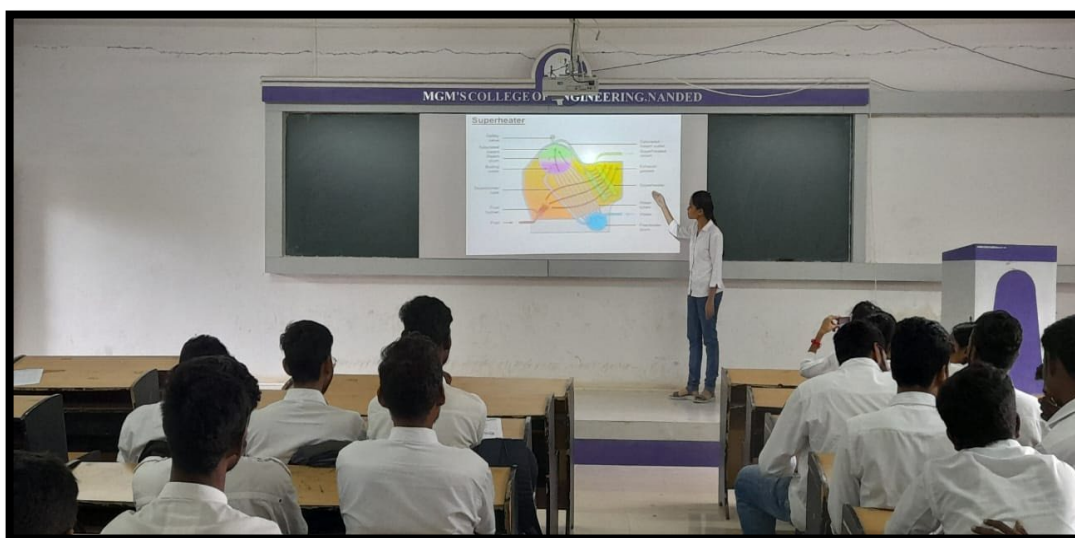
All Teaching, Non-teaching and Students celebrating Chh. Shivaji Maharaj Jayanti in Campus

MESA ACTIVITIES

1. Teachers' Day Celebration:

Teachers' Day in India is celebrated on the birth anniversary of Dr. Sarvepalli Radhakrishnan, who was a distinguished philosopher, scholar, and the second President of India. His birthday, September 5th, is commemorated as Teachers' Day to honour his contribution in the field of education and to recognize the importance of teachers in shaping the future of the nation.

On 5th September 2022, MESA has organized a programme of Teachers' Day. The event commenced with a Saraswati poojan, followed by garlanding Dr. Sarvepalli Radhakrishnan's photograph and ceremonial lamp lighting by the HOD and faculty members. MESA felicitated Head of the Department and all the teaching and Non-teaching faculty members for their invaluable contributions in the field of education. A speech was delivered by Mr. Ganesh L. Dhondkar and Ms. Shital S. Kurhe student of B.Tech. and tY about the life story of Dr. Sarvepalli Radhakrishnan. The celebration served as a poignant reminder of the pivotal role played by teacher in nurturing talent and inspiring future generations.



B.Tech Student Teaching to TY Class on Teachers' Day in the Department

2. Engineers' Day Celebration:

Engineers' Day commemorates the birth anniversary of Sir Mokshagundam Vishweswaraya, a legendary engineer whose astonishing achievements and contributions continue to inspire engineers throughout generations. On September 15th, 2023, the Department of Mechanical Engineering hosted a vibrant party to commemorate Engineers Day. The program in the department was begin with the Saraswati prayer, followed by the garlanding of Sir Mokshagundam Vishwesavraya's image and a lamp lighting ceremony performed by our Department Head, Dr. M.G.Harkare, and faculty members. Ganesh L. Dhondkar, a B.Tech-Mech. Student delivered a speech in respect to the famous engineer Sir Mokshagundam Visvesvaraya. Following this, members of the Mechanical Engineering Students Association gave a brief audio-visual display about Sir Visvesvaraya's life. Students in SY, TY, and B. Tech. Mechanical were given the opportunity to compete in speech on the topic of "Mechanical Systems." Ten students gave an example of how to illustrate the value of engineers in the modern society. The speech competition showcased how engineers propel innovation and progress in the globe with its insightful concepts and vibrant debates.



B.Tech Students delivering a speech on Engineers' Day in the Department

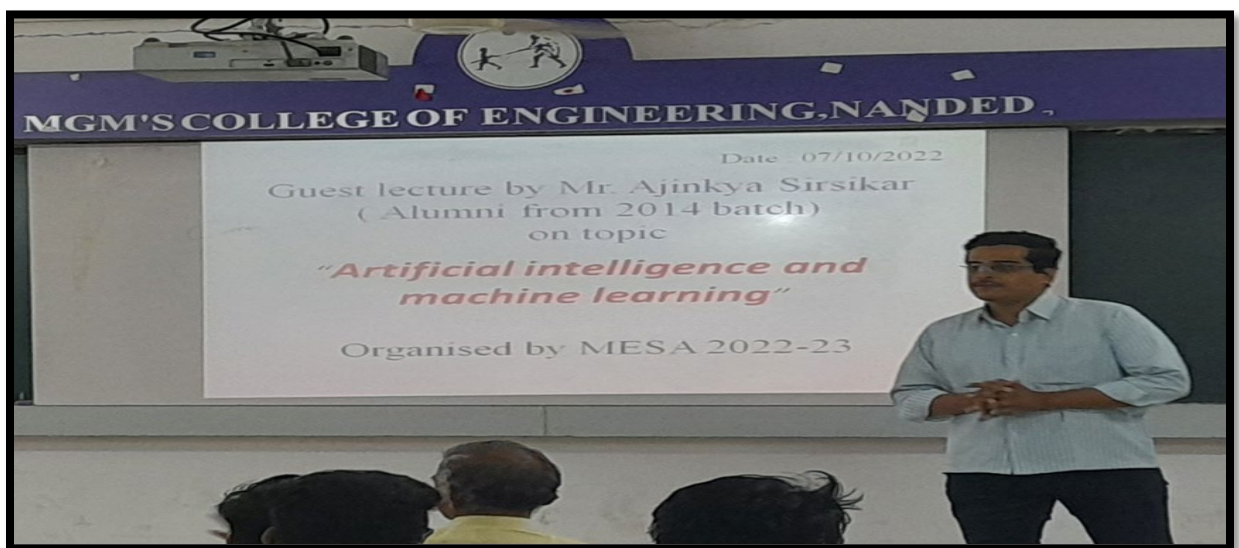
EXPERT LECTURES FOR STUDENTS

Name of Expert	Topic	Class & Strength	Date
Mr. Rajesh Chanchlani CBFC Financial Group and Mr. Aniket Deshmukh IGTR Aurangabad	“Entrepreneurship Awareness Program” by IGTR Aurangabad	SY Mech (34) TY Mech (40) B.Tech Mech (65)	26 th Dec. 2022
Mr. Abdul Majeed Technical Manager, C.A.T. International, Qatar	Career Opportunities in Abroad for Mechanical and Civil Engineering students	SY Mech (25) TY Mech (39) B.Tech Mech (58)	21 st Dec. 2022
Dr.D.P.Kothari (IIT Delhi)	Electrical Vehicles	B.Tech Mech (65)	8 th Dec. 2022
Mr. Deepak Kadam, Chief of Ambedkarwadi Mission, Nanded	Career Guidance for preparation of UPSC /MPSC/ GATE and other public services examination.	SY Mech (20) TY Mech (35) B.Tech Mech (55)	7 th Dec. 2022
Prof. Dr. Ajay Gavhane Yashwant College Nanded.	Importance of Constitution of India	SY Mech (34) TY Mech (40) B.Tech Mech (65)	28 th Nov. 2022
Mr. Ajinkya Sirsikar	Awareness about Artificial Intelligence and Machine Learning	SY Mech (30) TY Mech (37) B.Tech Mech (61)	7 th Oct. 2022

1. An expert lecture by Mr. Ajinkya Sirsikar (Alumnus 2014 Batch) on “Artificial Intelligence and Machine Learning” on 07th October 2022. The session is organized for TY and B.Tech. Mechanical Engineering students.

He has discussed the following points:

1. Machine learning is a subset of Artificial Intelligence that automatically enables a machine or system to learn and improve from experience.
2. It allows businesses to store, process, and analyze large datasets from various sources in a secure and efficient manner.
3. AI-powered systems can analyze real-time data from sensors, cameras, and other sources to make quick and informed decisions.
4. Machine Learning is a subfield of Artificial Intelligence, which is broadly defined as the capability of a machine to imitate intelligent human behavior.
5. The goal of Machine Learning is to train machines to get better at tasks without explicit programming.
6. Machine learning helps the logistics industry optimize shipping and delivery routes, the retail industry personalize shopping experiences and manage inventory, manufacturers automate factories, and helps secure organizations everywhere.



Expert lecture by Mr. Ajinkya Sirsikar on topic “Artificial Intelligence and Machine Learning”

2. An expert lecture on “Importance of Constitution of India” by Prof. Mr. Ajay Gavhane, Yashwant College Nanded. It is organized under MESA for all department branch students B.Tech Mechanical and Civil Engineering Students on 28th November 2022.

- 1) A constitution is defined as the set of written rules that are accepted by all the people living together in a country.
- 2) It determines the relationship between the people and the government.
- 3) The Constitution is the foundation of the nation's democratic and secular structure.
- 4) The Indian Constitution is the world's longest, describing the foundation for political ideas, procedures, and government authorities.
- 5) A constitution is a set of rules and regulations guiding the administration of a country.
- 6) The constitution of India is the framework for political principles, procedures and powers of the government.
- 7) This is a written document which lays down the framework demarcating fundamental basic code, structure, procedures, powers, and duties of Government and its organizations and rights & duties of the citizen.



Expert lecture by Prof. Dr. Ajay Gavhane (Yashwant College, Nanded) on topic “Importance of Constitution of India” on 28th November 2022.

3. An expert lecture on ” Career Guidance for preparation of UPSC /MPSC/ GATE and other Public Services Examinations” by Mr. Deepak Kadam, Chief of Ambedkarwadi Mission, Nanded. It is organized under MESA for B.Tech Mechanical and Civil Engineering Students. On 07th December 2022.

During the session Mr. Deepak Kadam focused on following points:

- 1) UPSC is the toughest exam in India. It is an exam to select the candidate for various civil services of the government of India like Indian Administrative Service (IAS), Indian Police Service (IPS), and Indian Foreign Service (IFS).
- 2) Understand the need of the examination and pattern
- 3) Eliminate Distractions
- 4) Identify your strengths and weaknesses. Overcome weakness
- 5) Be motivated and be consistent.
- 6) Make and follow timetable
- 7) Stay updated with General knowledge and current affairs.
- 8) There is no shortcut to get success. Hard work is the key to get success in UPSC examination.



Expert lecture by Mr. Deepak Kadam (Chief of Ambedkarwadi Mission, Nanded)

on topic “Career Guidance for preparation of UPSC /MPSC and other Public Services Examination” on 07th December 2022.

4. An expert lecture on “Entrepreneurship Awareness Program” by Mr. Rajesh Chanchlani CBFC Financial Group & Mr. Deshmukh, IGTR Aurangabad was organized for B.Tech, Mechanical Engineering students on 26th December 2022.

During the session Mr. Rajesh Chanchlani and Mr. Deshmukh focused on following points:

- 1) Entrepreneurship is the pursuit of starting, managing, and scaling a business.
- 2) It involves combining innovation, skills, and vision to develop new products, services, or ideas that meet market demand and create value for a target audience.
- 3) An Entrepreneur is an individual who takes on financial risks to start and grow a business, using innovative ideas and strategies to capitalize on market opportunities.
- 4) Different courses and trainings run by IGTR Aurangabad.





**Expert lecture by Mr. Rajesh Chanchlani CBFC Financial Group &
Mr. Aniket Deshmukh, IGTR Aurangabad on
“Entrepreneurship Awareness Program”**

5. An expert lecture on “Career Guidance for Mechanical and Civil Engineering Students” by Mr. Abdul Majeed Technical Manager, C.A.T. International, Qatar. It is organized under MESA for B.Tech Mechanical and Civil Engineering Students on 21st December 2022.

During the session Mr. Abdul Majeed focused on following points:

- 1) The extension of Mechanical Engineering in Gulf countries is region has a flourishing construction, manufacturing, and energy sector.
- 2) From manufacturing and designing to automotive and aerospace, the demand for Mechanical Engineers is increasing across all the major sectors of the USA.
- 3) Mechanical Engineers are needed in every project, from construction to automotive and aviation industries.
- 4) Requirement for qualified Civil Engineers in areas like buildings, roads, and transportation.
- 5) There are lot of opportunities in abroad, Gulf Countries for Mechanical and Civil Engineering students.



**Expert lecture by Mr. Abdul Majeed (Technical Manager, CAT International Qatar) on
“Career guidance for Mechanical and Civil Engineering Students”**

6. An expert lecture on “Electric Vehicles” by Dr. D.P. Kothari (Ex. Director, IIT Delhi) was organized for B.Tech, Mechanical Engineering students on 26th December 2022. During the session Dr. D.P. Kothari focused on following points:

1. Electric vehicle are automobile, which are powered by the electric engine and electric engine.
2. The development of the electric vehicle is a very perspective important process.
3. EV’s are vehicle that are powered by an electric motor instead of an internal combustion engine.
4. electric vehicles derive all or part of their power from electricity supplied by the electric grid. They include AEVs and PHEVs. AEVs (all-electric vehicles) are powered by one or more electric motors. They receive electricity by plugging into the grid and store it in batteries.
5. All-electric vehicles (AEVs) run only on electricity. Most have all-electric ranges of 80 to 100 miles, while a few luxury models have ranges up to 250 miles. When the battery is depleted, it can take from 30 minutes (with fast charging) up to nearly a full day (with Level 1 charging) to recharge it, depending on the type of charger and battery.



Expert lecture by Dr. D.P. Kothari (Ex. Director, IIT Delhi) on Electric Vehicles





**Blood Donation Camp on the occasion of Mahatma Gandhi Jayanti on
2nd October 2022**

ACADEMIC YEAR 2022-23

EXPERT LECTURES FOR STUDENTS

Name of Expert	Course	Class & Strength	Date
Mr. Kiran and Mr. Gotmaleji (TATA Consulting Engineers)	Industrial Opportunities and Internships.	B.Tech Mech (44)	3 rd June 2023
Mr. Ashish Kalambe and Mr. Mayank Ranjan	Skill and Personality Development	SY Mech (22) TY Mech (30)	31 st May 2023

(TATA Consulting Engineers)		B.Tech Mech (38)	
Mr.Vijay Delmade (Sr. Project Manager, Siemens Ind. Software Ltd., Pune)	Introduction to Product Management	TY Mech (39) B.Tech Mech (42)	26 th May 2023
Dr. A.V. Deshmukh (COE , Pune)	Industry Project, Internship, Research and Innovation	TY Mech (22) B.Tech Mech (38)	26 th April 2023

An expert lecture on “Industrial Opportunities and Internships” by Mr.Kiran and Mr.Gotmaleji from Tata Consulting Engineers on 3rd March 2023. An expert lecture was organized in M.G.M’s College of Engineering, Nanded on “Industrial Opportunities and Internships” by Mr.Kiran and Mr.Gotmaleji from Tata consulting Engineers on 3rd March 2023. This expert lecture was organized for TY and B.Tech BE Mechanical students. He interacted with students related to opportunities and internship in software industries.

Mr. Kiran and Mr.Gotmaleji had given the information and focused on present trend with their requirements; discussed the following points:

- 1) The Industry Internship Program is designed to help the students to get experience in the corporate sector before they enter the workforce.
- 2) An internship gives a student the opportunity for career exploration and development, and to learn new skills.
- 3) It offers the employer the opportunity to bring new ideas and energy into the workplace, develop talent and potentially build a pipeline for future full-time employees.
- 4) E-commerce internships value skills in digital marketing, logistics, inventory control, supply chain management, business development and customer experience.

An expert lecture on “Skill and Personality Development” by Mr. Ashish Kalambe and Mayank

Ranjan from Tata Consulting Engineers on 3rd March 2023.

An expert lecture was organized in M.G.M’s College of Engineering, Nanded on “Skill and personality development for SY, TY and B.Tech Mechanical Engg. Student on 0303.2023

During the session Mr. Ashish Kalambe and Mayank Ranjan had focused on following points:

- 1) Multiple factors come together to contribute to one's personal development, but personally, he emphasize on five aspects of personality development – mental, social, spiritual, emotional, and physical.
- 2) Continuous personal development is a necessity for top professionals.
- 3) Finding and utilizing opportunities and resources,
- 4) Improving communication and social networking,
- 5) Exercising and maintaining healthy and productive ways of being and living.

An expert lecture on “Introduction to Product Management” by Mr. Vijay Delmade, Sr. Project Manager, Siemens Ind. Software Ltd., Pune on 26.05.2023. An expert lecture was organized By MESA in M.G.M’s College of Engineering, Nanded for TY and B.Tech BE Mechanical students .

During the session Mr. Vijay Delmade had focused on following points:

- 1) Product management is the practice of strategically driving the development, market launch, and continual support and improvement of a company's products.
- 2) The 4 stages of the product life cycle are introduction, growth, maturity, and decline.
- 3) Product management is the business process of planning, developing, launching, and managing a product or service.
- 4) It includes the entire lifecycle of a product, from ideation to development to go to market.

- 5) A product life cycle (PLC) describes a product's various stages, from its development and introduction to the market to its decline and removal.



**An expert lecture on “Introduction to Product Management” by
Mr. Vijay Delmade, Sr. Project Manager, Siemens Ind. Software Ltd.,
Pune**

WORKSHOPS / TRAININGS ORGANISED FOR STUDENTS

Resource Person/Organizer	Topic	Class & Strength	Date
Mr.Aditya Hazare (SSigma) Mr.Azar Bargir (IIRC,MGMU)	3D Printer Training in collaboration with SSIGMA Pvt. Ltd. Pune at IIRC, JNEC Aurangabad	SY Mech (35)	16 th June 2023
Dr.P.D.Machkale and Mr. Bandela C.V.	3D Printer Training	SY Mech (33)	13 th June 2023 and 14 th June 2023

Mr. Aditya Hazare (SSigma) Mr. Azar Bargir (IIRC,MGMU)	3D Printer Training in collaboration with SSIGMA Pvt. Ltd. Pune at IIRC, JNEC, Aurangabad.	TY Mech (41)	17 th April 2023
Mr.Bandela C.V.	Extra Class for MBA students on topic “TOTAL QUALITY MANAGEMENT”	MBA students of SRTMU, Nanded	15 th April 2023
Infosys HR	Infosys Mysore, ISRO (Industrial Visit)	SY Mech (01) and T&P Coordinator	29 th Mar 2023 to 4 th April 2023
Prof. T. V. Rao	Python Training	SY Mech (33) TY Mech (39) B.Tech Mech (56)	21 st March 2023 and 22 nd March 2023



TY Mech Students Participated in Group Discussion and Personal Interview organized by Departmental TPO Mr. C.V. Bandela

Group Discussion and Personal Interview organized by Departmental TPO Mr. C.V. Bandela for TY Mechanical students for preparing campus interviews and drives. They were groomed about the ethics while appearing the campus drives.

Following points were discussed with students:

1. Resume building.
2. Enhancing communication skills.
3. Body language (gestures and postures).
4. Group discussion preparation.
5. Interview preparation.



Alumni of the college also joined celebration of Chhatrapati Shivaji Maharaj Jayanti, alongside our esteemed Director Madam and Honorable Chairman Sir on 19th February 2023



Alumni and Faculty members gathered in celebration of Chhatrapati Shivaji Maharaj Jayanti, alongside our esteemed Director Madam and Honorable Chairman Sir on 19th February 2023



NCC participants marking the significance of Republic day on 26th January 2023



NCC Members with Respected Director Madam on 26th January 2023

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	Mr. Hashmi Wajid Ali Maozam Ali	Vice president
	Mr. GovindG. Hanmante	Secretary
	Mr. Vaibhav V.Pathak	Co-Secretary
	Ms. Malleshwari S. Vadnala	Ladies Representative
	Mr.GautamS. Bhandare	Sports Incharge
	Mr.Parag R. Shinganwad	
	Mr. Ashutosh A. Kamble	Cultural Incharge
	Ms. Sujata S. Raut	
	Ms. Venkat S. Pawar	
	Mr. Satbeersingh Jalnewale	



M.G.M's College Of Engineering, Nanded
Department Of Mechanical Engineering



MESA COUNCIL
2023-2024



Mr. Arjun Bansode
MESA President



Mr. Wajids Ali Hashmi
MESA Vice-President



Mr. Hanmante Govind
MESA Secretary



Mr. Vaibhav Pathak
MESA Co-Secretary



Ms. Malleshwari Vadnala
MESA Ladies Representative



Mr. Gautam Bhandare
Sports Incharge



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Ms. Sujata Raut
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Mr. Venkat Pawar
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Mr. Satbeersingh Jalnewale
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Mr. Prashant M. Pahinkar
MESA Coordinaator

Mr. Mahesh G. Harkare
H.O.D

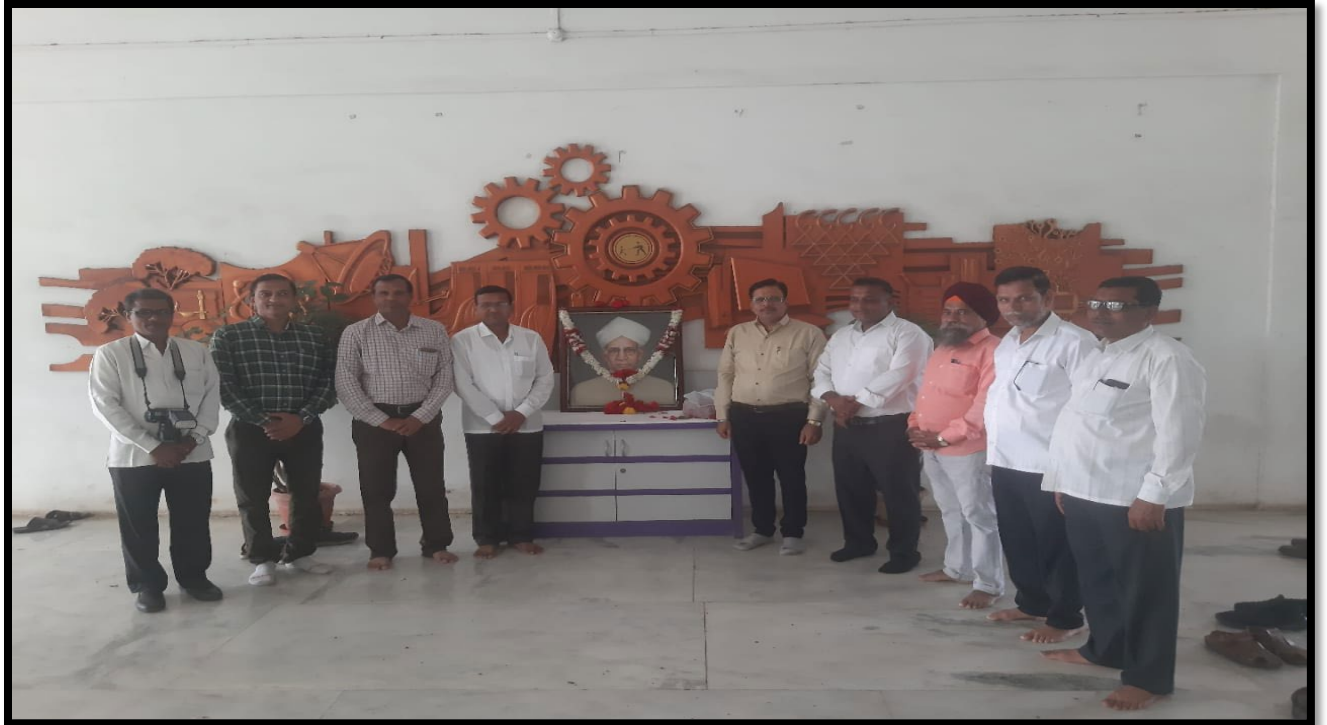
Dr. Geeta. S. Lathkar
Director

MESA ACTIVITIES

2. Teacher's Day Celebration:

Teachers' Day in India is celebrated on the birth anniversary of Dr. Sarvepalli Radhakrishnan, who was a distinguished philosopher, scholar, and the second President of India. His birthday, September 5th, is commemorated as Teachers' Day to honor his contribution in the field of education and to recognize the importance of teachers in shaping the future of the nation.

On September 5th, 2023, MESA has organized a programme of Teachers' Day. The event commenced with a Saraswati poojan, followed by garlanding Dr. Sarvepalli Radhakrishnan's photograph and ceremonial lamp lighting by the HOD and faculty members. MESA felicitated Head of the Department and all the teaching and Non-teaching faculty members for their invaluable contributions in the field of education. A speech was delivered by Mr. Arjun Bansode and Ms. Malleshwari S. Vadnala student of B.Tech. and SY about the life story of Dr. Sarvepalli Radhakrishnan. The celebration served as a poignant reminder of the pivotal role played by teacher in nurturing talent and inspiring future generations.



Teacher's Day Celebration on 5th September 2023 in the Campus



Students Participation in Teacher's Day Events on 5th September 2023 in the Department

2. Engineer's Day Celebration:

Engineers' Day is celebrated in the honor of birth anniversary of the esteemed engineer in the history, Sir Mokshagundam Vishweswaraya, whose remarkable achievements and contributions continue to inspire engineers across generations. On September 15, 2023, the Department of Mechanical Engineering organized a celebration to mark the Engineers Day.



Engineer's Day Banner by MESA on 15th September 2023 in the Department



**Engineer's Day Celebration by Director Dr. Mrs. Geeta S. Lathkar
Madam, Vice-Principal Dr. S. L. Kotgire and all HODs on Engineer's Day**

EXPERT LECTURES FOR STUDENTS



Photo Session with Director Madam on the occasion of Engineer's Day

1. Expert Lecture on Metal Forming and Analysis by Dr. Sachin Waigaonkar Professor at BITS GOA Campus Alumni of Batch 1996.

An expert lecture was organized by MESA on 28th October 2023 an alumni of batch 1996.

- 1) Metal forming is a process where materials are subjected to plastic deformation

to obtain the required size, shape, and/or change the physical and chemical properties.

2) Metal forming is a process where materials are subjected to plastic deformation to obtain the required size, shape, and/or change the physical and chemical properties.

3) In any forming operation, the material must be exposed to tension, compression, or both, i.e., bending.

4) The sheet metal forming processes include deep drawing, stamping, bending, rolling, spinning, cutting, and blanking.

5) Typical applications can be seen in cars, washing machines, airplane wings, house-hold appliances like gas cylinders, beverage cans, and building roofs.



**Expert Lecture on Metal Forming and Analysis by Dr. Sachin
Waigaonkar
(Professor at BITS GOA Campus)**

2. Expert Lecture conducted by Mr. Siraj Khan Globe Optimum Solutions PVT Ltd Pune for B.Tech students on 13th Dec 2023 on Topic “Product Life cycle Management”.

An expert lecture was organized by MESA on topic “Product Life cycle Management”. Mr. Siraj Khan has explained the overall view about the product life cycle management to the students.

Product lifecycle management (PLM) deals with every stage across a product’s lifetime. From the creative thinking of the product designer, to the valuable data being sent and received by your IoT network, and finally, to the frank and timely feedback you get from your customers – every piece of information across a product’s lifecycle is part of a bigger story.

And with today’s circular economies and more transparent supply chains, that story extends back to the raw materials used in production, and forward to the end-of-life stages of that product such as recycling and repurposing. The trick to a good PLM strategy is to listen to all those stories — and be able to act on them. This means integrating and analysing them so that you can make meaningful improvements and innovations, quickly.

1. **Concept and design:** The ideation phase, where a product’s requirements are defined based on factors including competitor analysis, gaps in the market, or customer needs.
2. **Develop:** The detailed design of the product will be created, along with any necessary tool designs. This phase includes validation and analysis of the planned product, as well as prototype development and piloting in the field. This

generates vital feedback on how the product is used and what further refinements are needed.

3. **Production and launch:** Feedback from the pilot is used to adjust the design and other components to produce a market-ready version. The production of the new product is scaled – followed by launch and distribution to the market.
4. **Service and support:** Following the launch of the new product, the period of time when service and support is offered.
5. **Retirement:** At the end of the product's lifecycle, its withdrawal from the market must be managed – along with any retrials or absorption into new concept ideas.

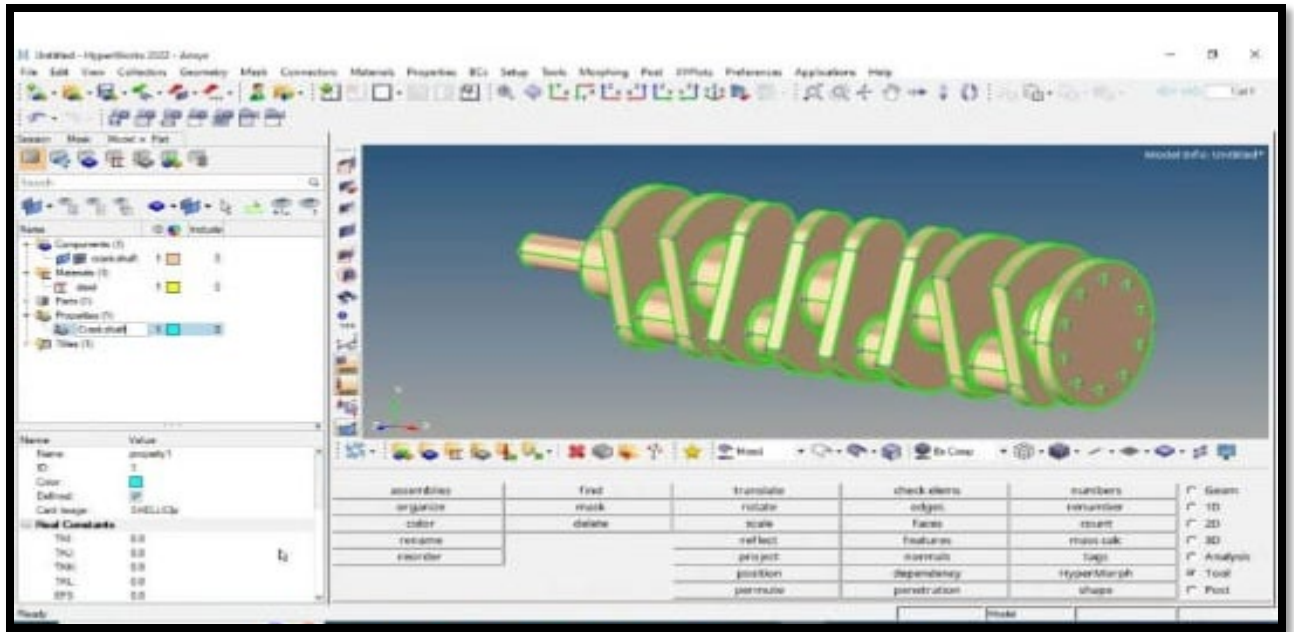




Expert Lecture conducted by Mr. Siraj Khan Globe Optimum Solutions PVT Ltd. Pune for B.Tech students on 13th Dec 2023 on topic “Product Life cycle Management”.

WEBINAR

Webinar was conducted for Mechanical Engineering students on Hypermesh and Ansys. HyperMesh is a multidisciplinary Finite Element preprocessor widely used to generate complex and high quality mesh. It loses the loop between CAD and FEA capabilities. The concept of Finite Element Analysis (FEA) Meshing for structural applications. It covers mesh morphing, and geometrical dimensioning, and creating best in class and high fidelity meshing.



FE Analysis on Mastering CAE: Unleashing Power of Hypermesh & ANSYS

Webinar on **“Importance of Millets”** For SY, TY and B.Tech. Mechanical Engineering students.

During the webinar what are millets and their benefits for health were discussed. The points highlighted are:

- Millet is a good source of protein, fiber, key vitamins, and minerals.
- Regulate Blood Glucose Levels. Millets, when compared to wheat and maize, are high on nutrients, gluten-free and have a low glycemic index of 54-68.
- Help In Weight Loss.
- Good For Heart.

- Battles Cancer Cells.
- Promotes Digestion.



Industrial Visit

The industrial visit was organized for SY, TY students on Monday 9th Oct 2023 to Mahindra Ujjwal Enterprises near Hanuman Gad, Nanded to get industrial exposure of Mahindra vehicles which is relevant to Automobile Engineering Subject.



Visit to Mahindra Ujjwal Enterprises Nanded

Dr.R.S.Hingole have done meeting with Mr. Sushil Gaikwad, Managing Director, SRDCORP INDIA PVT LTD Pune for internship of students, project with industries and training work.





Industry Meet by Dr. R.S. Hingole with Mr. Sushil Gaikwad, Managing Director SRDCORP INDIA PVT LTD Pune

Unnat Bharat Abhiyan (UBA)

Envisioned by Mahatma Gandhi in his seminal work, 'Hind Swaraj,' the Western developmental paradigm, grounded in centralized technologies and urbanization, has engendered pressing challenges such as burgeoning inequality (resulting in crime and violence) and climate change due to rapid ecological degradation. Addressing these issues requires the fostering of rural development in harmony with Gandhi's vision of self-sufficient 'village republics,' utilizing local resources and deploying decentralized, eco-friendly technologies.


OBJECTIVES OF UNNAT BHARAT ABHIYAN 2.0

- To engage the faculty and students of Higher Educational Institutions in understanding rural realities.
- To identify & select existing innovative technologies, enable customisation of technologies, or devise implementation methods for innovative solutions, as per the local needs.
- To leverage the knowledge base of the educational institutions for effective implementation of various government programmes.



Water Literacy Training

KNOWLEDGE-COLLEGE-VILLAGE SCHEME



DGRD, GIPE
Dr. Dhansanjayrao Gadgil Center for Sustainable Village Development is organizing a Water Literacy Training Program in collaboration with "Sahaj Jalbodh Abhiyan/सहज जलबोध अभियान" and "Jeevan Prabodhini Trust"

GRAM JAL ARAKHRA NIRMAN PROJECT - 2023-24 INAUGURAL PROGRAMME

Date : **09th September, 2023**
Time: **10:30a.m. Onwards**
Venue: **New Seminar Hall, New Academic Building, Gokhale Institute of Politics and Economics**



उन्नत भारत अभियान
UNNAT BHARAT ABHIYAN

GOOGLE MEET LINK: [HTTP://MEET.GOOGLE.COM/FPA-IHFO-OXG](http://meet.google.com/FPA-IHFO-OXG)

Event under Knowledge-College- Village scheme Attended online training on water literacy program on 9 September 2023 at 10.30am

PHOTO GALLERY



Respected Director Madam Attending the 9th International and 30th All India Manufacturing Technology, Design & Research Conference at IIT (BHU) Varanasi, UP (India) dated from 8th to 10th December 2023



**Respected Director Madam Awarded for her contribution in Chairing
a Session in the 9th International and 30th All India Manufacturing
Technology, Design & Research Conference held at IIT(BHU)
Varanasi,India From 8th to 10th December 2023**

Mechanical Engg. Dept. Alumni Meet in Campus on 28th October 2023



Mechanical Engg. Dept Alumni visits Research Lab of the Department on 29th October 2023