

Institution of Engineers certificate





MGM's College of Engineering, Nanded

Near Air-port, Hingoli Road, Nanded-431605.

Mechanical Engineering Department

Following is the list of activities completed under Student Chapter Institution of Engineers

Academic Year 2022-23			
Sr. No.	Name of Activity	Name of Expert	PO
1	Inauguration of Student Chapter Institution of Engineers and Guest Lecture	Dr Geeta S. Lathkar Director	PO5, PO6
2	Seminar on "Introduction to Product management Present trend and future scopes"	Mr. Vijay Delmade	PO9, PO11
3	Guest Lecture on Career Opportunities for Computer students in Oil refinery field"	Mr. Santosh Kulkarni , ABB Bangalore India	PO9, PO11, PO12
Academic Year 2023-24			
1	Guest Lecture on Design and analysis of Machine Component	Dr. Santosh Choudhary	PO5, PO7,
2	Guest Lecture on "Application of Heat Transfer in Domestic and industrial applications	Dr. D. A. Kamble, Deputy Director, DTE, Mumbai	PO5, PO6
3	Guest Lecture on "Entrepreneurship Development"	Dr. Prasad Rewanwar, Business Developer, Wisconsin USA	PO5, PO8



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Mechanical Engineering Department

Report on

Institution of Engineers Student Chapter

Date 28/02/2024.

The **Institution of Engineers (India)**, the IEI, is a national organization for engineers in India. It is the world's largest multi-disciplinary engineering professional society. It has more than one million members in 15 engineering disciplines. The institution was established in 1920 in Kolkata, West Bengal, and was incorporated by Royal Charter in 1935. It is currently headquartered at 8 Gokhale Road, Kolkata.

Mahatma Gandhi Mission's College of Engineering, Nanded have opened Students' Chapter of Institute of Engineers, India in our Mechanical Engineering Department. The inauguration of Institution of Engineers Student Chapter have been done with auspicious hand of Dr. Mrs. Geeta S. Lathkar Director, Mahatma Gandhi Mission's College of Engineering, Nanded on date 27/02/2024.



Dr. G. S. Lathkar, Dr. S. L. Kotgire, Dr. M G Harkare for inauguration of Institution of Engineers Student Chapter

Dr. R. S. Hingole have given speech on overview of Institution of Engineers Student Chapter. Dr. Mrs. Geeta S. Lathkar Director have given speech on Importance of Institution of Engineers Student Chapter and its future. Dr. S. L. Kotgire Vice Principal, Dr. M G Harkare HoD Mechanical, Dr. J. S. Sihdu, Mr. J. K sawale and other staff members were present for this event.



Dr. G. S. Lathkar, Dr. S. L. Kotgire, Dr. M G Harkare, Dr. J. S. Sidhu, Dr. R. S. Hingole and all faculty members for inauguration of Institution of Engineers Student Chapter

The program is end with vote of thanks by TE Mechanical student Dipak Devenpal. The students of Mechanical Engineering Department have actively participated in this programme.

PO5: Modern tool usage and PO6: The engineer and society are mapped through this guest lecture.

R.S.Hingole
28/01/2023
Dr. R. S. Hingole
Coordinator

M.G.Harkare
Dr. M G Harkare
HoD Mechanical



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DEPARTMENT OF MECHANICAL ENGINEERING

REPORT OF SEMINAR

Date: 26.05.2023

Student Chapter, Institution of Engineers

Activity: Seminar on “Introduction to Product management Present trend and future scopes” by Name of guest: Mr. Vijay Delmade ,Sr. Project Manager, Siemens Ind. Software Ltd., Pune on 26.05.2023. A Seminar on was organized by Student Chapter, Institution of Engineers of Mechanical Engineering Department M.G.M's College of Engineering, Nanded for TY and

B.Tech

Mechanical

students



Fig: Mr. Vijay Delmade and students of Mech Engg Dept.

Mr. Vijay Delmade have 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.
- 6) **PO9: Individual and team work and PO11: Project management and finance are mapped**

R.S.Hingole

Dr. R. S. Hingole
Faculty Co-ordinator

M.G.Harkare
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DEPARTMENT OF MECHANICAL ENGINEERING

REPORT OF GUEST LECTURE

02 /12/2023

Student Chapter, Institution of Engineers

Activity: Guest Lecture on Career Opportunities for Computer students in Oil refinery filed"

Name of guest: Mr. Santosh Kulkarni , ABB Banglore India

The Department of Mechanical Engineering at MGM's College of Engineering, Nanded, organized a session on the "Career Opportunities for Computer students in Oil refinery filed" on 02 December 2023 at 3.30 pm to 5.30 pm in conference hall. Mr. Santosh Kulkarni , currently associated with the ABB Banglore India and possessing approximately 22 years industrial experience.

Dr. R. S. Hingole, warmly welcomed Mr. Santosh Kulkarni. The session witnessed active participation from both students and faculty members of the Mechanical Engineering Department. During the lecture, Mr. Santosh Kulkarni highlighted the importance of oil refinery plants in india and abroad. The speaker focused on importance of software's like C, C++, dot net and other software in oil refineries.

An insightful takeaway emphasized was the Data collection and data modeling, Data preprocessing, data visualization and bringing insight form the data to excel in the business. The vote of thanks was extended by Dipak Devenpalle, a student from the Mech.Department. The students from electronics and telecommunication, mechanical engineering department have taken advantage of this session. Participants expressed their appreciation, stating that the session provided valuable learning experiences and enhanced their understanding of career opportunities in oil refineries.



Fig.1 Mr. Santosh Kulkarni and other faculty members



Fig 2. Felicitation of Mr. Santosh Kulkarni by Dr J. S. Siddhu



Fig 3. Students Attending Session

The following Pos are covered through this guest lecture

**PO9: Individual and team work and PO11: Project management and finance are mapped,
PO12: Life-long learning**

R.S.Hingole
Dr. R. S. Hingole
Faculty Co-ordinator

M.G.Harkare
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DEPARTMENT OF MECHANICAL ENGINEERING REPORT OF Guest Lecture Student Chapter, Institution of Engineers

Date: 24/02/2024

Activity: Guest Lecture on “Design and Analysis of Machine components ”

Name of guest: Dr. Santosh Choudhary, Govt. ITI Nanded

A Guest Lecture was organized by Student Chapter, Institution of Engineers of Mechanical Engineering Department M.G.M's College of Engineering, Nanded for SY, TY and B.Tech Mechanical students .



Fig: Dr. Santosh Choudhary, Dr. M G Harkare, Dr R S Hingole and staff members

Dr. Santosh Choudhary has explained following points

He has given insides about the Machine Design and its principles, technical information and imagination in the description of a machine system.

He has covered design steps and its procedures with analysis industrial example. Students are able to understand and apply knowledge of analysis of selected machine components and assemblies for static strength, fatigue failure and failure due to elastic instability.

They are able to apply the rudimentary design process for selected machine components and assemblies.

They can make design decisions supported by logical reasoning, knowledge and creativity when provided with uncertain, ambiguous, imprecise and/or redundant information through this guest lecture.

PO5: Modern tool usage PO7, PO7: Environment and sustainability are mapped through this guest lecture



Dr. R. S. Hingole
Faculty Co-ordinator



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DEPARTMENT OF MECHANICAL ENGINEERING REPORT OF Guest Lecture Student Chapter, Institution of Engineers

Date: 11/08/2024

Activity: Guest Lecture on “Application of Heat Transfer in Domestic and industrial applications”

Name of guest: Dr. D. A. Kamble, Deputy Director, DTE, Mumbai, Maharashtra, on 10th August 2024.

A Guest Lecture was organized by Student Chapter, Institution of Engineers of Mechanical Engineering Department M.G.M's College of Engineering, Nanded for SY, TY and B.Tech Mechanical students .



Fig: Mr. J K Sawale felicitating Dr. D. A. Kamble, Dr. R.S. Hingole, Dr. P. D. Machkale

Dr. D. A. Kamble have discussed on following points:

Heat transfer describes the flow of heat (thermal energy) due to temperature differences and the subsequent temperature distribution and changes. The study of transport phenomena concerns the exchange of momentum, energy, and mass in the form of conduction, convection, and radiation. He explained on following application

1. Oil & Gas Industry: Offshore as well as onshore drilling, down hole heating, hydraulic fracturing, and maintaining petrochemicals' viscosity.
2. Packaging & Plastics: Heaters are used in form-fill-seal machines, portion packaging, tamper-proof packaging, extrusion, and softening polymers to reshape them.
3. Power Plants: Process air heaters for inlet housing, superheating, sulphur reduction, catalytic cracking and regeneration, gas dehydration, etc.
4. Aerospace: Heating systems are used to heat air in turbine systems, batteries, engines, cockpits, etc.
5. Food and beverage: Applications include fryers, ovens, grills, deep fryers, hot plates, and steam tables.
6. Medical field: Heating of blankets, jackets, flasks, monitoring of equipment in laboratories, fluid as well as blood warming, etc.
7. Automobile Manufacturing: Heaters are used for making automobile parts, such as clutch plates, brake shoes, etc.
8. Building & Construction: Hot water temperature maintenance; freeze protection; frost prevention; pipe freeze protection.

PO5: Modern tool usage and PO6: The engineer and society are mapped through this guest lecture.



Dr. R. S. Hingole
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DEPARTMENT OF MECHANICAL ENGINEERING REPORT OF Guest Lecture Student Chapter, Institution of Engineers

Date: 05/09/2024

Activity: Guest Lecture on “Entrepreneurship Development”

Name of guest: Dr. Prasad Rewanwar, Business Developer, Wisconsin USA

A Guest Lecture was organized by Student Chapter, Institution of Engineers of Mechanical Engineering Department M.G.M's College of Engineering, Nanded for B.Tech Mechanical students .



Fig: Dr. Prasad Rewanwar, Dr. J. S. Sidhu, Dr. R S Hingole, Dr Dr. D. A. Kamble and Students
He has explained following points

1. Discussion of entrepreneurship.
2. Discussed the relationship between opportunity and entrepreneurship.
3. The key factors affecting entrepreneurial viability.
4. Explained the different motivations for entrepreneurs and foreign opportunities
5. Discussed about admission in foreign universities

PO5: Modern tool usage and PO6: The engineer and society are mapped through this guest lecture.

R.S.Hingole

Dr. R. S. Hingole
Faculty Co-ordinator

M.Harkare
Dr. M.G. Harkare

HOD, Mechanical Dept.

Some of Glimpses of Student Chapter Institution of Engineers



Fig: Dr S P Kallurkar, Dr. Geeta S. Lathkar and other guests



Fig: Dr S P Kallurkar, delivering speech on EDP



Fig: Dr. Geeta S. Lathkar, Dr S L Kotgire, Dr M G Harkare, Dr. J S Sidhu, Dr R S Hingole and other staff members



Fig: Dr. Geeta S. Lathkar, Dr S L Kotgire, Dr M G Harkare and other guests