



Department of Mechanical Engineering

The following technical talks were organized for the benefits of U.G and Faculty members of the department for the even semester 2013.

Sl. No	Date	Title of the technical talk	Name of Invited speaker
1	16-9-2013	Problem Solving in Engineering And Creativity	Dr. S M Kulkarni, Professor, Department of mechanical Engineering NITK, Suratkal
2	16-9-2013	Solar Energy	Dr. T.P.Ashok Babu, Professor, Department of mechanical Engineering NITK, Suratkal.
3	27-9-2013	Nano technology	Dr Umashankar K.S. Professor, Dept. of Mechanical Engineering KVG College of Engineering Sullia.
4	30-9-2013	A perspective of thermal power plant	Er.V.S.Ekbote Executive Engineer Raichur Thermal Power Plant
5	29-10-2013	Application of infrared radiation in food processing	Dr. Vishwanathan.K.H, Associate Professor, Department of mechanical Engineering st joseph Engg college, Mangalore



DATE AND TIME: Monday, 16th September 2013 AT 2:30PM

VENUE: SEMINAR HALL (MBA BLOCK)

PLACE: A.I.E.T, MIJAR.

Department of Mechanical engineering conducted a technical talk session under the forum “*Mech- Maestros*” on the topic “**Problem Solving in Engineering And Creativity**”, by **Dr. S M Kulkarni, Professor, Department of mechanical Engineering NITK, Suratkal**. The event was presided by **Prof. K V Suresh**, Head of mechanical Department shared the dais with esteemed guests of the session. The session was organized under the special guidance of Chief Technical Forum Coordinators of *Mech- Maestros*, Asst.Prof. Puneeth.

The session began with the prayer by Mr.Satyajeeth. Welcome speech by Mr.Neelesh of VII semester ME and introduction of the chief guest by Mr.Deep U of VII semester ME.

Technical talk was mainly an interactive session where our honored guest talked about Problem Solving in Engineering & Creativity. He started by giving a brief introduction about Creativity and told how to solve Engineering Problem.

Professor discussed about *TRIZ-Teoriya Resheniya Izobretatelskikh Zadatch*. He spoke about “a problem-solving, analysis and forecasting tool derived from the study of patterns of invention in the global patent literature”.

He Mentioned about *TRIZ* activities which include:-

1. Identify Problem
2. Formulate the problem: the Prism of TRIZ.
3. Search for Previously Well-Solved Problem.
4. Look for Analogous Solutions and Adapt to My Solution.

Finally he summarized as,

- Six levels in Bloom’s Taxonomy of Learning
- Inventive Problem Solving
- Psychological Inertia
- Triz for Inventive Problem Solving
- Triz Case Study

Honoring the Chief Guest was done by Dr. Kishore Shetty, Dean-Academics of AIET. Finally, Vote of thanks was proposed by Mr. Sudeer Hegde of VI ME. The session was excellent and it was very useful for the students and staffs of ME to upgrade their knowledge.



2nd technical talk on SOLAR ENERGY

DATE AND TIME: Monday, 16th September 2013 AT 2:30PM

VENUE: SEMINAR HALL (MBA BLOCK)

PLACE: A.I.E.T, MIJAR.

Department of Mechanical engineering conducted a technical talk session under the forum “*Mech- Maestros*” on the topic “**SOLAR ENERGY**”, by *Dr. T.P.Ashok Babu, Professor, Department of mechanical Engineering NITK, Suratkal*. The event was presided by *Prof. K V Suresh*, Head of mechanical Department shared the dais with esteemed guests of the session. The session was organized under the special guidance of Chief Technical Forum Coordinators of *Mech- Maestros*, Asst.Prof. Puneeth.

The session began with the prayer by Mr.Satyajeeth. Welcome speech by Mr.sadhanand of VII semester ME and introduction of the chief guest by Mr.Aswin neel fernandes of VII semester ME.

Technical talk was mainly an interactive session where our honored guest talked about solar energy. He started by giving a brief introduction about energy sources.

Professor discussed about *solar power plants*. He spoke about “renewable and non renewable energy sources and harnessing of solar energy ”.

He Mentioned about *solar power plant* which include:-

1. constructional features.
2. problems in installation .
3. advantages and disadvantages of solar energy.
4. types of solar plates.

Finally he summarized as,

- How to overcome the disadvantages of solar power plant.
- Different ways to harness the solar energy.
- Different instruments used in solar plant

Honoring the Chief Guest was done by Prof.K.V.Suresh, HOD mechanical dept.Finally, Vote of thanks was proposed by Mr. Gladson of VI ME. The session was excellent and it was very useful for the students and staffs of ME to upgrade their knowledge.



Technical talk on “Nano technology”

DATE AND TIME: Monday, 27th September 2013 AT 2:30PM

VENUE: ENGINEERING SEMINAR HALL

PLACE: A.I.E.T, MIJAR.

Department of Mechanical engineering conducted a technical talk session under the forum “*Mech- Maestros*” on the topic “**NANO TECHNOLOGY**”, by *Dr Umashankar K.S. professor dept. of mechanical engineering KVG College of engineering Sullia*. The event was presided by *Prof. K V Suresh*, Head of mechanical Department shared the dais with esteemed guests of the session. The session was organized under the special guidance of Chief Technical Forum Coordinators of *Mech- Maestros*, Asst.Prof. Puneeth.

The session began with the prayer by Mr.Satyajeeth. Welcome speech by Mr.Jeevan.P.Abraham of VII semester ME and introduction of the chief guest by Mr.Aswin Neel Fernandies of VII semester ME.

Technical talk was mainly an interactive session where our honored guest talked about Nano technology. He started by giving a brief introduction about basic material science principle.

Professor discussed about *nanotechnology engineering*. He spoke about “features of nano technology, what is nano technology and applications of nano technology”.

He Mentioned about *nanotechnology* which include:-

1. generations of nanotechnology:-

- 1st generation- passive nanostructure.
- 2nd generation –active nanostructure.
- 3rd generation- systems of nanostructure.
- 4th generation-molecular nanostructure.

Finally he summarized as,

- Applications of nanotechnology
- Research challenges
- Nanomaterials
- Carbon nanotubes
- Case study of nanomaterial
- Future application

Honoring the Chief Guest was done by proff.K.V.Suresh, HOD Mechanical Dept. Finally, Vote of thanks was proposed by Mr. Alwin mendonsa of VI ME. The session was excellent and it was very useful for the students and staffs of ME to upgrade their knowledge.



Technical talk on “A perspective of thermal power plant”

DATE AND TIME: Monday, 30th September 2013 AT 2:30PM

VENUE: SEMINAR HALL (MBA BLOCK)

PLACE: A.I.E.T, MIJAR.

Department of Mechanical engineering conducted a technical talk session under the forum “*Mech- Maestros*” on the topic “**A perspective of thermal power plant**”, by *Er.V.S.Ekbote executive engineer (mechanical) raichur thermal power plant*. The event was presided by *Prof. K.V. Suresh*, Head of mechanical Department shared the dais with esteemed guests of the session. The session was organized under the special guidance of Chief Technical Forum Coordinators of *Mech- Maestros*, Asst.Prof. Puneeth.

The session began with the prayer by Mr.Satyajeeth. Welcome speech by Mr.Nizamuddeen of VII semester ME and introduction of the chief guest by Mr.Aswin neel fernadis of VII semester ME.

Technical talk was mainly an interactive session where our honored guest talked about thermal power plant. He started by giving a brief introduction about thermal power.

Engineer discussed about *history of indian power plant*. He spoke about “power consumption in various cities I india. Other methods of power generation, global energy senario”.

He Mentioned about *power generation* which include:-

1. History
2. Power consumption in India per day.
3. Global energy senario.
4. Concept of radial layout.

Accesseries of thermal plant,

- Boilers
- Super heaters
- Reheaters
- Economizer
- Burners etc..

Honoring the Chief Guest was done by Prof.K.V.Suresh, H.O.D. Mech. Dept.. Finally, Vote of thanks was proposed by Mr. surendra shettigar of VI ME. The session was excellent and it was very useful for the students and staffs of ME to upgrade their knowledge.

5th Technical Talk on APPLICATION OF INFRARED RADIATION IN FOOD PROCESSING

DATE AND TIME: Tuesday, 29th Oct 2013 AT 2:30PM

VENUE: Engineering SEMINAR HALL

PLACE: A.I.E.T, MIJAR.



Department of Mechanical engineering conducted a technical talk session under the forum “*Mech- Maestros*” on the topic “*Application of infrared radiation in food processing*”, by **Dr. VISHWANATHAN.K.H, Associate Professor, Department of mechanical Engineering at Joseph Engg college, Mangalore.** The event was presided by **Prof. K V Suresh,** Head of mechanical Department shared the dais with esteemed guests of the session. The session was organized under the special guidance of Chief Technical Forum Coordinators of ***Mech- Maestros***, Asst.Prof. Puneeth.

The session began with the Welcome speech by Mr.Ramachandra of VII semester ME and introduction of the chief guest by Mr.Aswin of VII semester ME.

Technical talk was mainly an interactive session where our honored guest talked about Apply of infrared radiation in food processing. He started by giving a brief introduction about infrared radiations.

Professor discussed about ***Food processing***. He spoke about how to process the food by the application of infrared radiation renewable

He Mentioned about ***Infrared radiation*** which include:-

1. Storage of food.
2. Problems involved in storing of food.
3. Advantages and disadvantages of food processing.
4. Types of food storage.

Finally he summarized as,

- How to overcome the disadvantages of storing of food.
- Different ways to store the food.
- Different instruments used to store the food.

Honoring the Chief Guest was done by Prof.K.V.Suresh, HOD mechanical dept. Finally, Vote of thanks was proposed by Mr. Chiranjeevi.B.M. of VI ME. The session was excellent and it was very useful for the students and staffs of ME to upgrade their knowledge.

