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**DEPARTMENT OF
MECHANICAL ENGINEERING**

ACTIVITIES HELD DURING ACADEMIC YEAR 2022-23 (ODD SEMESTER)

| SL NO. | EVENT TYPE | DATE | TITLE OF THE EVENT | RESOURCE PERSON | MODE |
|--------|----------------------------|------------|--|---|----------|
| 1 | Technical Talk | 04/11/22 | Innovations In Designing Of Electric Vehicle | Mr. Rakesh,
Vehicle Designer, MAGARITA TECH, New Delhi | Online |
| 2 | Technical talk | 5/12/22 | Brief over view of NDT | Sri. B.S Venkata Subramaniyan,
NDT Coordinator, Training and certification superintendent | Off line |
| 3 | Technical talk | 6/12/22 | Reliability of NDT | Sri. Ganesh Thahashildar,
Quality manager, V & G testing Laboratories, Pvt. Ltd | Off line |
| 4 | Site visit & demonstration | 13/12/2022 | Demonstration on Fire Safety | Fire & emergency services Department , moodabidri | Off line |
| 5 | Technical Talk | 16/12/22 | Career Management in Mechanical Engineering | Mr. Gajanan Shridar hegde,
Head of Electrical and instrumentation, JSW | Off line |
| 6 | Technical Talk | 19/12/2022 | Electrical explosion phenomenon and it's application on Synthesis of Carbon Nano materials | Dr. Xin Gao,
Assistant Professor, Shock Physics & amp, chemistry lab, state key, Beijing Institute of Technology, Beijing, China | Online |
| 7 | Technical Talk | 25/01/2022 | Research and Job opportunities in United States of America | Dr. Codrik John Martis
Quality & development Project controls & Qualification Engineer, Big River Steel. Osceola. | Off line |

"A TECHNICAL TALK ON "BRIEF OVERVIEW OF NON DESTRUCTIVE TESTING"



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri)
Affiliated to Vignansaraya Technological University, Belagavi & Approved by AICTE,
New Delhi. Recognized by Government of Karnataka.

A+, Accredited by NAAC & NBA (EC&CE)

Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka

Ph: 08258-262725; Mob: 722262724, 7026262725, mail: principal@alvaet08@gmail.com

Department of Mechanical Engineering

To

Date 01/12/22

IQAC Chairman

AJET, Mijar

Respected Sir

Sub: Seeking Permission to conduct a technical talk on

05/12/2022

We are happy to inform you that Department of Mechanical Engineering technical forum is conducting a technical talk on 05/12/22.

Title of the talk : Brief Over view of Non destructive testing

The details are mentioned below, kindly request you do the needful.

Resource person details

Name: Sri. B S Venkata Subramanian

Designation: NDT coordinator (training & certification)

Organization/Company/details: V&G testing laboratories

Venue: CAMD lab

Date/month/year: 05/12/2022


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DEPARTMENT OF MECHANICAL ENGINEERING

net/Mech/AY2022-23/002

Date: 05/12/2022

CIRCULAR


It is hereby informed to all that Department of Mechanical Engineering, is organising a Technical talk on "Brief Over view of Non destructive testing" is arranged on 05/12/22.

Venue: CAMD Lab

Talk By: Sri. B S Venkata Subramaniyan,

NDT coordinator (training & certification), V&G testing laboratories

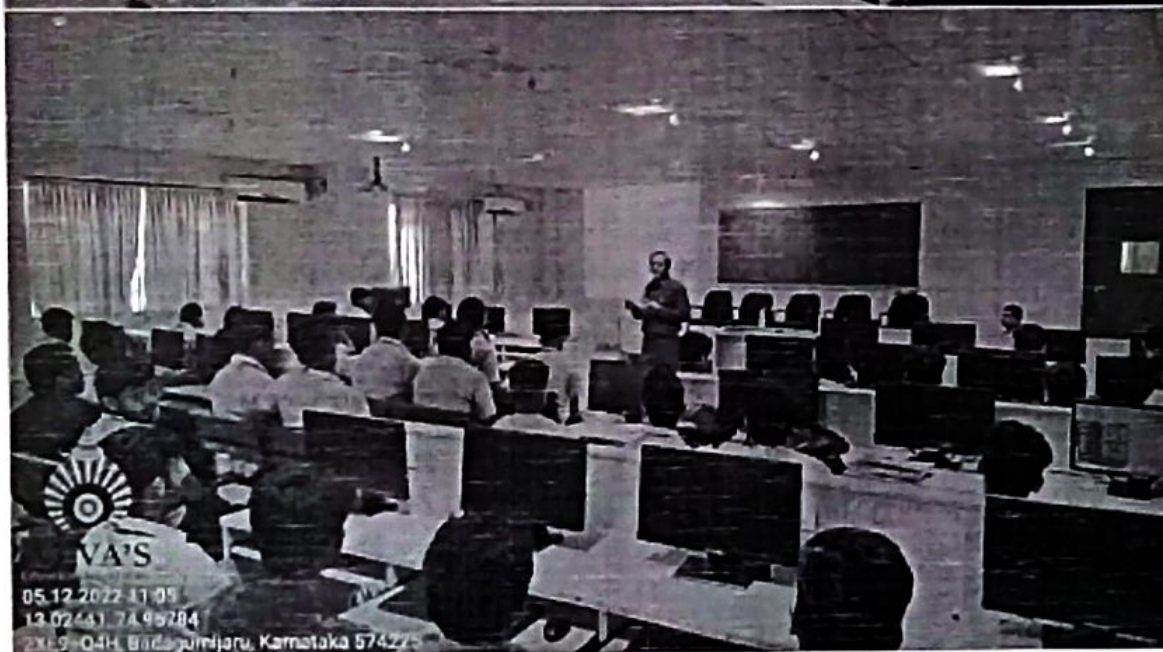
It is mandatory for all Students to attend the technical talk


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"A TECHNICAL TALK ON "BRIEF OVERVIEW OF NON DESTRUCTIVE TESTING"



An Inaugural ceremony of the workshop was conducted on 5/12/2022 by the department of Mechanical engineering at 10.30 am the invited guest was Sri. B.S Venkata Subramaniyan, NDT Coordinator, Training and certification superintendent and Sri. Ganesh Thahashildar, Quality manager, V & G testing Laboratories, Pvt. Ltd. The program was started by lighting a lamp and followed by the small talk by the chief guest Sri. B.S Venkata Subramaniyan mainly

focused on the opportunities for the upcoming mechanical engineering graduate. He gave proper direction to build the career. HOD addressed the gathering and told about all the upcoming talks/training/plans for the academic year 2023/24. The inaugural ceremony was concluded by giving a vote of thanks.

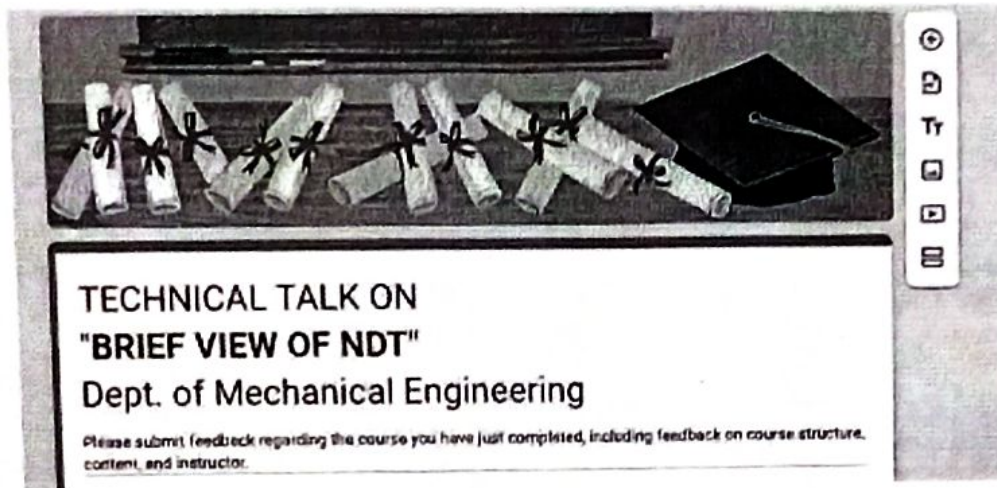
Soon after an inaugural ceremony a technical talk on "Brief overview of NDT" was conducted the speaker Sri. B.S Venkata Subramaniyan gave a brief introduction about the NDT, he explained all the basic concepts which is related to the NDT. He told about the various branches of the Non destructive testing those methods are visual Inspection, Film evaluation of Radio, Ultrasonic inspection, Dye penetrant Inspection and magnetic particle inspection. He also clearly explained about the difference between Non destructive testing and Destructive testing. He told about what V & G industry does V&G Provides qualified and experienced inspection for piping, welding, coating, civil and structure for industrial Inspections in India as well as abroad.

He focused on different types of NDT methods individually, the first method he explained was Liquid penetrant testing, it locates surface breaking defects in all Non-porous materials. It detects casting, forging, welding, surface defects. The various steps in this process are pre clean, apply penetrant, penetrant dwell, remove penetrant, apply developer. Evaluate indications, post cleaning parts. The next topic he focused was Ultrasonic testing in which it uses high frequency sound energy to conduct examinations and make the measurements here the size of the reflector plays a very important role if there is presence of the defect. In ultrasonic testing there are various types such as pulse echo where it sends out a pulse of energy and the same or a second transducer listens for the reflected energy. The next type is Normal and Angled beam where the sound beam is introduced into the test sample at 90 degree to the surface while in angled beam it was introduced to around 45 degree to the surface. The next type is Immersion technique when the test surface is placed in the water bath clearly the defects are identified. The next test he explained was Radiographic testing in this method the part is placed between radiation source and a piece of film the main part of this technique is x ray generators where we can detect the defects which is present on the surface. The next method the speaker explained was Gamma ray generators where it generates the gamma rays to detect the defect on the surface. He also explained about the Imaging Modalities and about the Image quality. Before the conclusion of the talk he told us

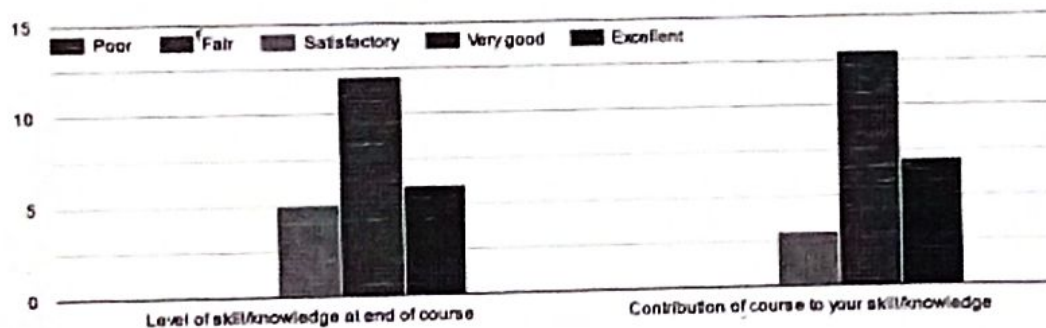
about the collection effort, and how the collection will affect it and how changes the rate efforts are able to conduct the talk by saying that there is a huge opportunity for the mechanical graduates in the field of working.

After the talk the interaction session was held where a lot of students shared their doubts regarding the topics. The technical talk was ended by the vote of thanks given by the student member, Harshita B. Kulkarni. The participants of the management laboratory and technical talk were Mechanical students and faculties. Around 100 students and faculties were benefited by this technical talk.

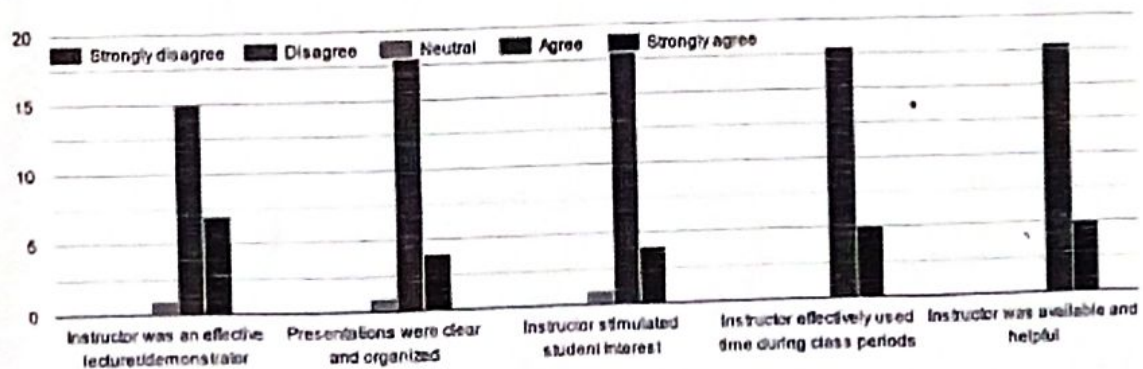
FEED BACK ON "BRIEF OVERVIEW OF NON DESTRUCTIVE TESTING"



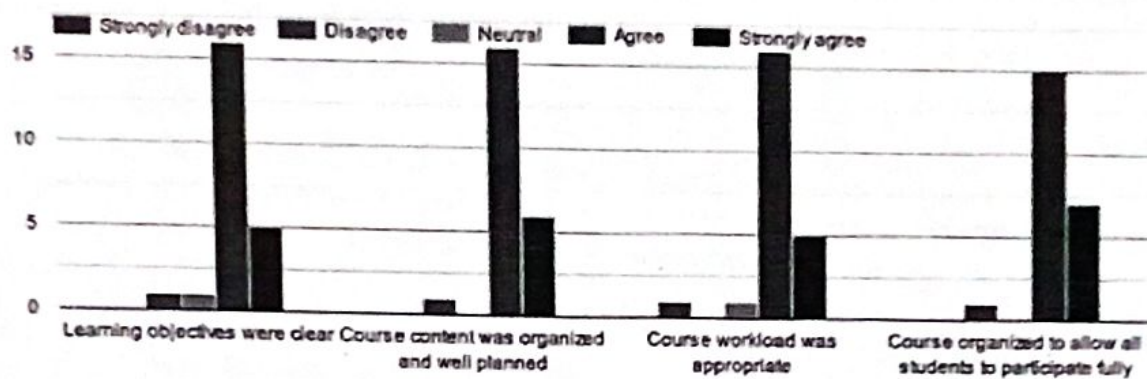
Contribution to learning



Skill and responsiveness of the instructor



Course content



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"A TECHNICAL TALK ON RELIABILITY OF NON DESTRUCTIVE TESTING"



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri)
Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE,
New Delhi. Recognized by Government of Karnataka.
A*, Accredited by NAAC & NBA (ECE & CSE)
Shobhavana Campus, MIJARI 574225, Moodbidri, D.K., Karnataka
Ph: 08258-262725; Mob: 722262724, 7026262725, mail: principal@alvaetd@gmail.com

Department of Mechanical Engineering

To
IQAC Chairman
AIET, Mijar
Respected Sir

Date 01/12/22

06/12/2022 Sub: Seeking Permission to conduct a technical talk on

We are happy to inform you that Department of Mechanical Engineering technical forum is conducting a technical talk on 06/12/22.

Title of The Talk: Reliability of Non Destructive testing

The details are mentioned below, kindly request you do the needful.

Resource person details

Name: Sri. Ganesh Thabashildar

Designation: Quality Manager

Organization/Company/details: V&G testing laboratories

Venue: CAMD lab

Date/month/year: 06/12/2022

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Dept. Of Mechanical Engineering
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DEPARTMENT OF MECHANICAL ENGINEERING

aiet/Mech/AY2022-23/003

Date: 06/12/2022

CIRCULAR


It is hereby informed to all that Department of Mechanical Engineering, is organising a Technical talk on "Reliability of Non Destructive testing" is arranged on 06/12/22.

Venue: CAMD Lab

Talk By: Sri. Ganesh Thalashildar,

Quality Manager ,V&G testing laboratories

It is mandatory for all Students to attend the technical talk


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“A TECHNICAL TALK ON RELIABILITY OF NON DESTRUCTIVE TESTING”



A technical talk was organized by the department of mechanical Engineering on 06/12/22 about Reliability of NDT

Sri. Ganesh Thahashildar, Quality manager, V & G testing Laboratories, Pvt. Ltd. Has briefed the students about the Reliability of NDT

Non-destructive testing (NDT) is a wide group of analysis techniques used in science and industry to evaluate the properties of a material, component or system without causing damage. The terms Nondestructive examination (NDE), Nondestructive inspection (NDI), and Nondestructive evaluation (NDE) are also commonly used to describe this technology. Because NDT does not permanently alter the article being inspected, it is a highly-valuable technique that can save both money and time in product evaluation, troubleshooting, and research.

He demonstrated that Non-destructive Testing is one part of the function of Quality Control and is Complementary to other long established methods. By definition non-destructive testing is the testing of materials, for surface or internal flaws or metallurgical condition, without interfering in any way with the integrity of the material or its suitability for service.

The technique can be applied on a sampling basis for individual investigation or may be used for 100% checking of material in a production quality control system. Whilst being a high technology concept, evolution of the equipment has made it robust enough for application in any industrial environment at any stage of manufacture - from steel making to site inspection of components already in service.

In his talk while emphasizing the skill aspect he informs the audience that A certain degree of skill is required to apply the techniques properly in order to obtain the maximum amount of information concerning the product, with consequent feed back to the production facility. Non-destructive Testing is not just a method for rejecting substandard material; it is also an assurance that the supposedly good is good. The technique uses a variety of principles; there is no single method around which a black box may be built to satisfy all requirements in all circumstances. What follows is a brief description of the methods most commonly used in industry, together with details of typical applications, functions and advantages

After the talk the interaction section was held lot of students asked the questions regarding the topic. The talk was concluded by giving the vote of thanks and Christon pinto student of mechanical engineering. 2nd, 3rd and 4th year students were benefited by this talk.


Non-destructive testing (NDT) is a wide group of analysis techniques used in science and industry to evaluate the properties of a material, component or system without causing damage. The terms Nondestructive examination (NDE), Nondestructive inspection (NDI), and Nondestructive evaluation (NDE) are also commonly used to describe this technology. Because NDT does not permanently alter the article being inspected, it is a highly-valuable technique that can save both money and time in product evaluation, troubleshooting, and research.

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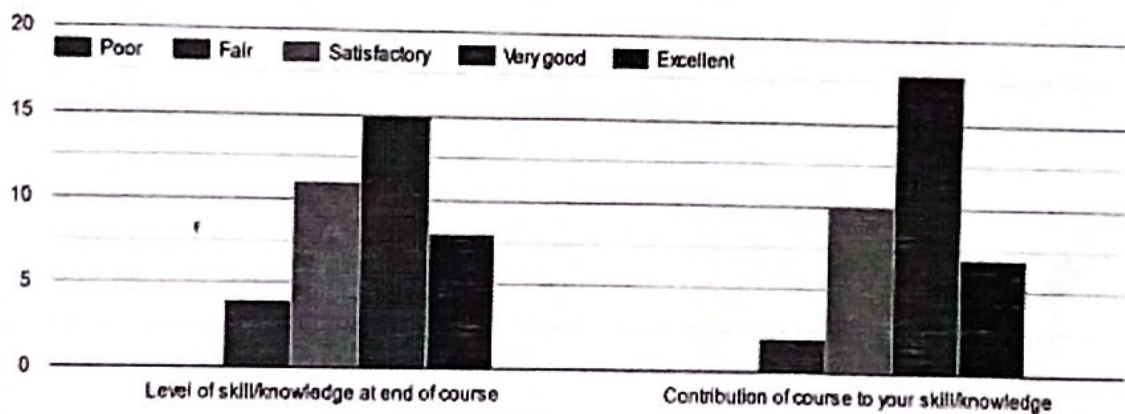


TECHNICAL TALK ON "RELIABILITY OF NDT"

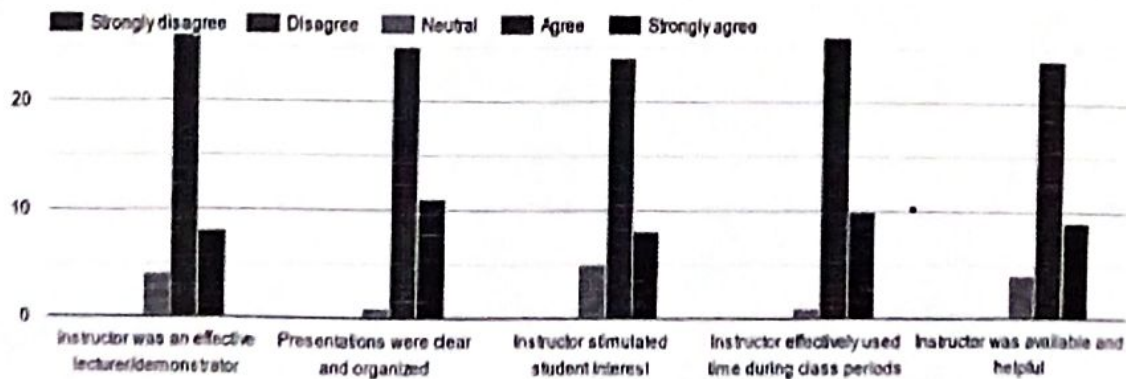
Dept. of Mechanical Engineering

Please submit feedback regarding the course you have just completed, including feedback on course structure, content, and instructor.

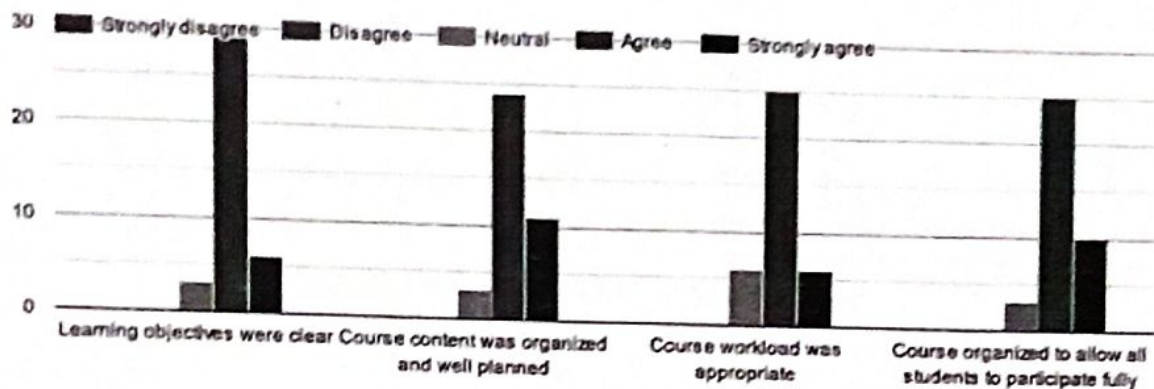
Contribution to learning



Skill and responsiveness of the instructor



Course content



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TEHCNICAL TALK ON "CAREER MANAGEMENT IN MECHANICAL ENGINEERING"



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri)
Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE,
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Department of Mechanical Engineering

To

Date 13/12/22

IQAC Chairman

AIET, Mijar

Respected Sir

16/12/2022

Sub: Seeking Permission to conduct a technical talk on

We are happy to inform you that Department of Mechanical Engineering technical forum is conducting a technical talk on 16/12/22.

Title of The Talk: Career Management in Mechanical Engineering

The details are mentioned below, kindly request you do the needful.

Resource person details

Name: Mr. Gajanan Sridhar Hegde

Designation: Head, Electrical & Instrumentation Division

Organization/Company/details: Jindal Steel Works Ltd

Venue: CAMD Lab

Date/month/year: 16/12/2022


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DEPARTMENT OF MECHANICAL ENGINEERING

niet/Mech/AY2022-23/007

Date: 16/12/2022

CIRCULAR

It is hereby informed to all that Department of Mechanical Engineering, is organising a Technical talk on "Career Management in Mechanical Engineering " is arranged on 16/12/22.

Venue: CAMD Lab

Talk By: Mr. Gajanan Sridhar Hegde,

Head, Electrical & Instrumentation Division, Jindal Steel Works Ltd

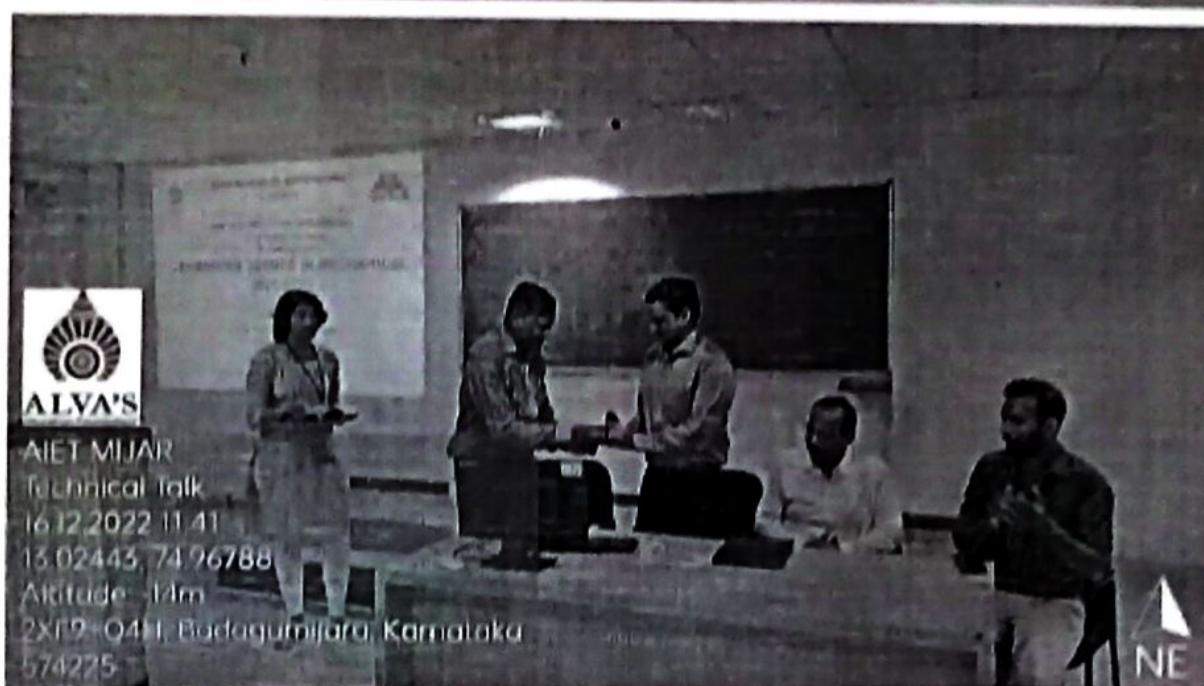
It is mandatory for all Students to attend the technical talk


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TECHNICAL TALK ON "CAREER MANAGEMENT IN MECHANICAL ENGINEERING"



A technical talk on "Career Management in Mechanical Engineering" was organized on 16 December 2022 at Alvas Institute of Engineering and Technology college at 11:30 am and the invited speaker was Mr. Gajanan Shridar hegde, Head of Electrical and instrumentation, JSW and Mr. Ganashyam Senapati, Senior team member of HR department, JSW.

He started his talk by showing us a small video about Jindal saw ltd and various group present in the industry, It was founded in 1952 and JSAW was founded in 1984.

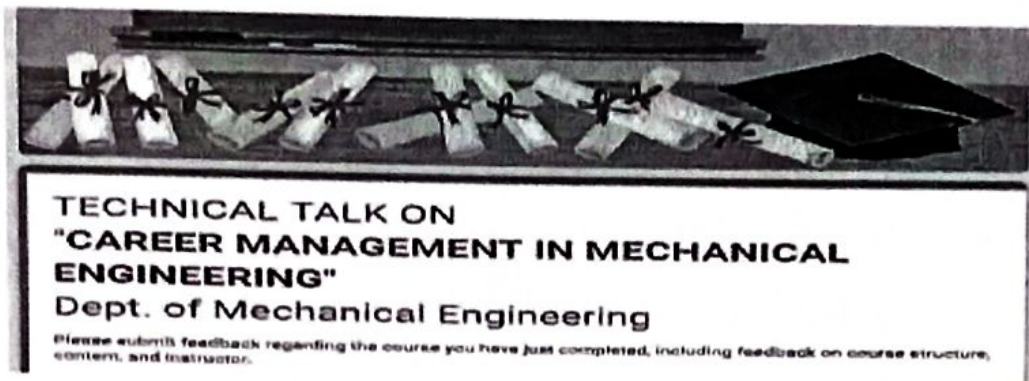
Firstly he started his talk by explaining about OP Jindal Group, Jindal Saw mainly focuses on Pipes and Tubes, JSW mainly focuses on manufacturing steel, Jindal stainless mainly focuses on manufacturing plates for industries and Jindal Steel and power mainly focuses on Manufacturing Steel. He also explained us about Welded line pipes, Ductile Iron pipes, Seamless pipes and tubes and pellets and Mining.

He briefly explained us about SAW where it manufactures welded line pipes and also he told us about Lsaw pipes which is having a diameter of 16 to 60 inches of diameter WT2 the production rate is 6 lakh T/A. He also told us about HSAW pipes which is having 18 to 158 inches of diameter WT1, and the production rate is 1.165 MT/A. Further he explained about Ductile Iron Pipes there are main two types, Ductile Iron pipes which is ranging from DN80 TO DN2200, LMT/A and Ductile Iron Fittings which is ranging from DN80 TO DN2200, 0.18 LT/A. Further he explained about seamless pipes and tubes in which there are carbon and alloy steels having a production rate of 4L T/A, and stainless steel pipes and tubes having a production rate of 0.5L T/A. Next he explained about the Mining and pellet Division he explained us about extraction of the ore and pelletisation and the production rate was 1.5 MT/A the plant is mainly situated in rajasthan. He briefly explained about Bellary unit where it manufactures HSAW pipes having a diameter of pipe 20 to 158 inches WT1 having a production rate of 2 LT/A. They have Anti corrosive coating of 4 to 158 inches diameter 2MT/A Anti corrosive agents are 3LPE, FBE, PU, CML, PAINT, COAL TAR, EPOXY ETC. He also showed us a video on Pipe Manufacturing process.

He explained us about career management and how the organisational Industry, he explained about the various roles such as HR, Admin, Security, he also told us about finance/Insurance and also he told about various operations such as Production, Maintenance, Electrical Instrumental. He also explained about the Quality testing and R & D, Marketing, Purchase, Stores, Logistics. He also told us about the safety and statutory needs, Safety requirement and Statutory Compliance. He also explained us about different acts about Industrial safety. He told us about the Importance of Technical skills, Importance of Communication skills 7C of communication such as Clear, Concise, Concrete, Correct, Coherent, courteous. At last he concluded his talk by a quote "Truly for some men destiny isn't written unless they write it".

After the talk the interaction section was held lot of students asked the questions regarding the topic. The talk was concluded by giving the vote of thanks and Christon pinto student of mechanical engineering. 2nd, 3rd and 4th year students were benefited by this talk.

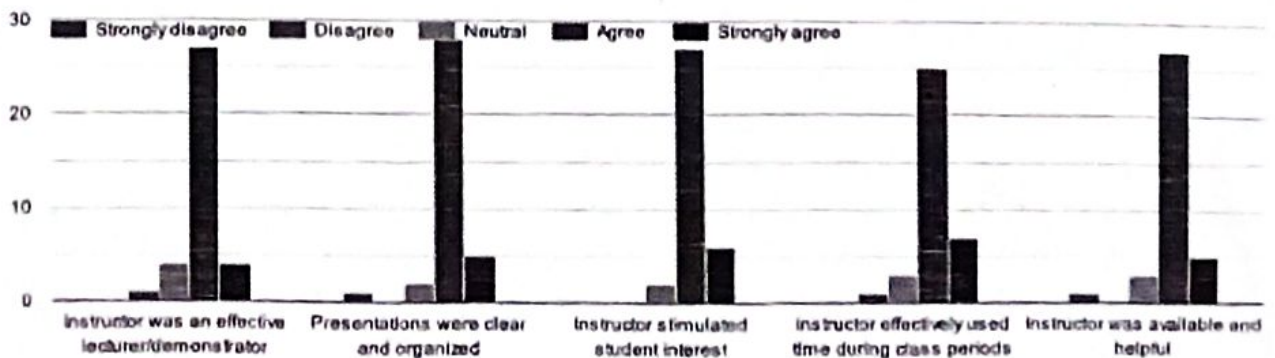
FEEDBACK ON "CAREER MANAGEMENT IN MECHANICAL ENGINEERING"



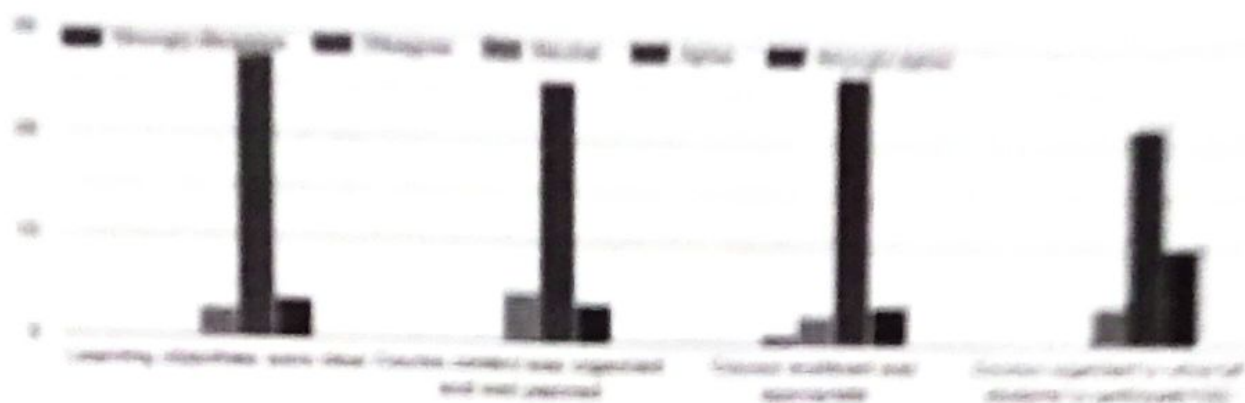
Contribution to learning



Skill and responsiveness of the instructor



Course content



[Signature]
R.C.B.

Dept. of Mechanical Engineering
Govt. Institute of Engineering & Technology
Wazirpur, New Delhi-110028

A TECHNICAL TALK ON "ELECTRICAL EXPLOSION PHENOMENON AND IT'S APPLICATION ON SYNTHESIS OF CARBON NANO MATERIALS"



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri)
Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE,
New Delhi. Recognized by Government of Karnataka.
A+, Accredited by NAAC & NBA (CCE & CSE)
Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka
Ph: 08258-262725; Mob: 722262724, 7026262725, mail: principal@alvaet@gmail.com

Department of Mechanical Engineering

To

Date 16/12/22

IQAC Chairman

AIET, Mijar

Respected Sir

Sub: Seeking Permission to conduct a technical talk on
19/12/2022

We are happy to inform you that Department of Mechanical Engineering technical
forum is conducting a technical talk on 19/12/22.

Title of The Talk: Electrical Explosion Phenomenon & its application on
Synthesis of carbon nano materials

Mode: Online

The details are mentioned below, kindly request you do the needful.

Resource person details

Name: Dr. Xin Gao

Designation: Assistant Professor, Shock Physics & Chem Chemistry lab,

Organization/Company/details: Beijing University, Beijing, China

Venue: CAMD lab

Date/month/year: 19/12/2022


PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K.


H. O. D.
Dept. Of Mechanical Engineering
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY
(Unit of Alva's Education Foundation (R), Moodbidri)
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Shobhavara Campus, MIJAR-574225, Moodbidri, D.K., Karnataka
Ph: 08258-262725; Mob: 722262724, 7026262725, mail: principal@alva108@gmail.com

DEPARTMENT OF MECHANICAL ENGINEERING

alet/Mech/AY2022-23/005

Date: 19/12/2022

CIRCULAR

It is hereby informed to all that Department of Mechanical Engineering, is organising a Technical talk on "Electrical Explosion Phenomenon & its application on Synthesis of carbon nano materials" is arranged on 19/12/22.

Venue: CAMD Lab

Mode: Online

Talk By: Dr. Xin Gao,

'Assistant Professor, Shock Physics & amp Chemistry lab,
Beijing University, Beijing, China

It is mandatory for all Students to attend the technical talk

HOD. D.

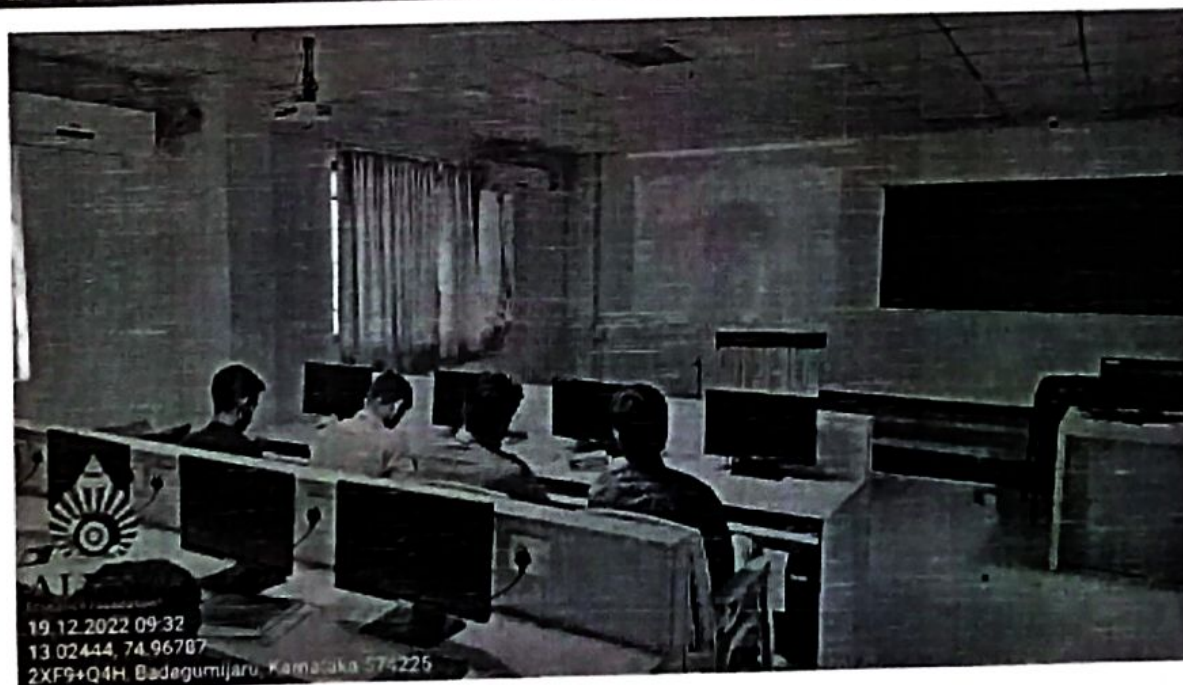
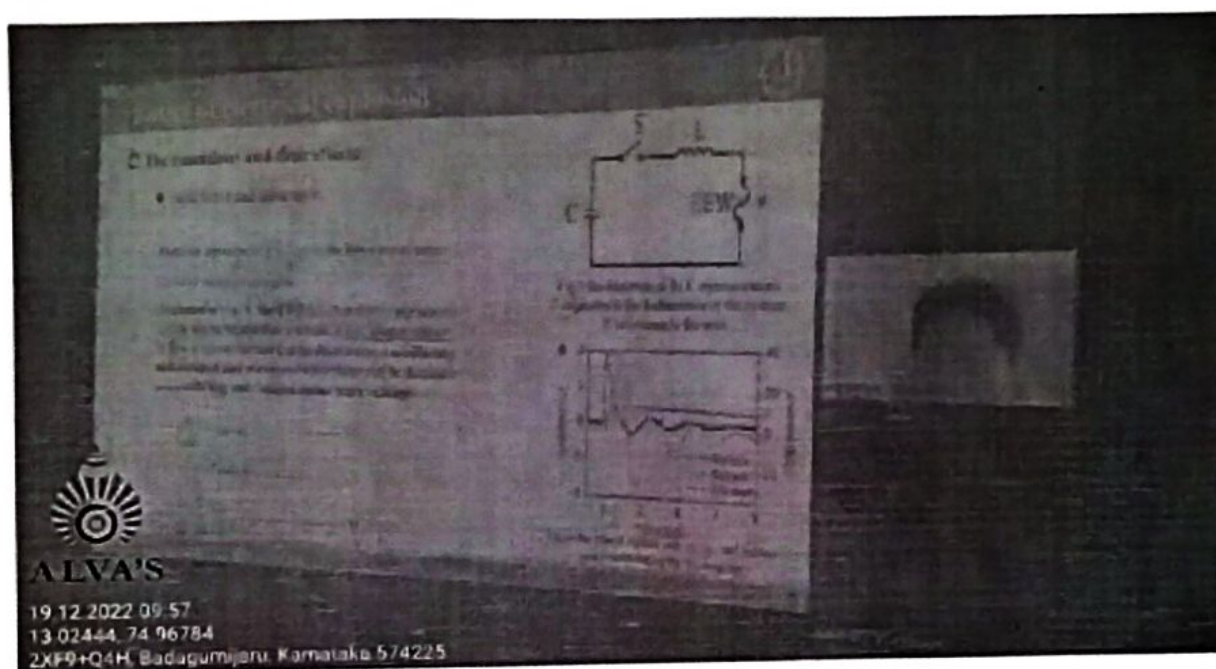
Dept. Of Mechanical Engineering
Alva's Institute of Engg. & Technology
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Alva's Institute of Engg. & Technology
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TECHNICAL TALK ON “ELECTRICAL EXPLOSION PHENOMENON AND IT’S APPLICATION ON SYNTHESIS OF CARBON NANO MATERIALS”



Dr. Xin Gao, briefing the students


A Webinar on “Electrical explosion phenomenon and it’s application on Synthesis of Carbon Nano materials” was organized on 19 December 2022 at Alva’s Institute of Engineering and Technology college at 10:00 am and the the talk was given by Dr. Xin Gao,

Assistant Professor, Shock Physics & amp, chemistry lab, state key, Beijing Institute of Technology, Beijing, China.

His talk contained five main areas such as Basic of electrical explosion, Synthesis of graphene by electrical explosion, Synthesis of Fe/FeO/graphene by electrical explosion, Synthesis of TiO₂ nano powder by electrical explosion, Synthesis of Si nano powder by electrical explosion. So started explaining about the Electrical wire explosion. He told that when a strong current produced by the discharge of a capacitor passes through a wire, the wire is evaporated in burst with bright flash by joule heating. He also told that it can be divided into joule heating process and then explosion process he also showed us the animation of electrical explosion, also he displayed us the pictures of x ray of different process which occurred in electrical explosion. Next he explained about the different types of discharge he explained about the R-L-C circuit. He also told us about the Underdamping pulse waveform. The different types of discharge phenomena is Matched type, Current interrupt and Arc-discharge. He also showed us the schematic of the electric wire explosion system it mainly consist of a power supply, a capacitor, an explosion chamber the measuring devices consist of Rogowski coil, voltage probe, pressure gauge, infrared monitor, high speed camera. Also he told us about the facilities in Beijing Institute of Technology and Kumamoto University. He explained the characteristics of electrical wire explosion they are the discharge and explosion duration are extremely short, the product usually is spherical nano powders, the distribution of particle size along with the log-normal distribution, high usage of the energy, Environmental friendly, overheat effect is high. He explained about the various nanoparticles synthesized by electrical wire explosion the various nanoparticles are AlN nano powder, TiO₂ nano powder, co nano powder, needle-like CuO nano powder, BN/Fe nanocomposite and CNT. He also discussed about the conditions and their effects firstly is the energy density, secondly is the capacitance and inductance, thirdly is the medium. He also explained about how energy density equation is obtained also he expressed us about the importance of k value. He explained how capacitance and inductance is obtained. Lastly he explained about the Synthesis of Si nanopowder by electrical wire explosion. He showed us the graphical representation of formation mechanism. He also told us about the plasma formation like semiconductor joule heating followed by conductor joule heating followed by formation of plasma.

After the talk the interaction section was held a lot of students asked the questions regarding the topic. Final year mechanical students and faculties benefitted by this talk.

Questions
Responses 90
Settings

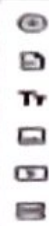


TECHNICAL TALK ON

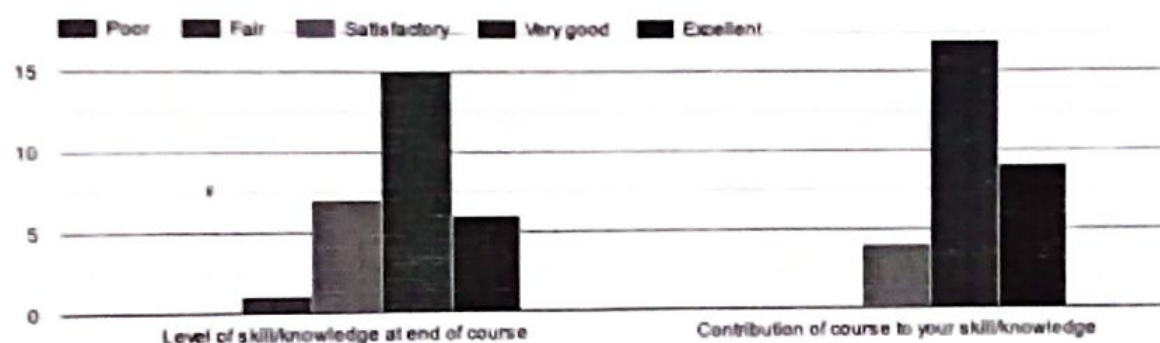
"ELECTRICAL EXPLOSION PHENOMENON & ITS APPLICATIONS IN SYNTHESIS OF CARBON NANO MATERIALS"

Dept. of Mechanical Engineering

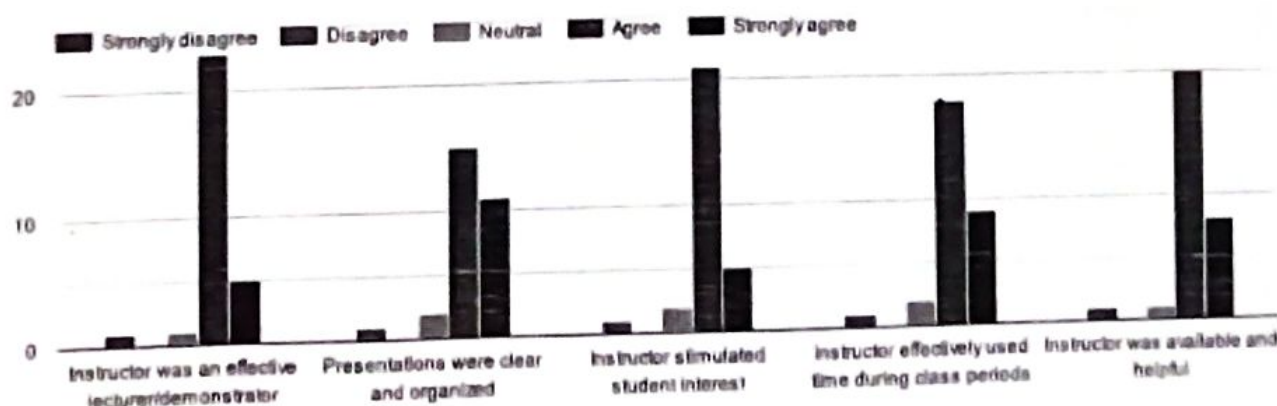
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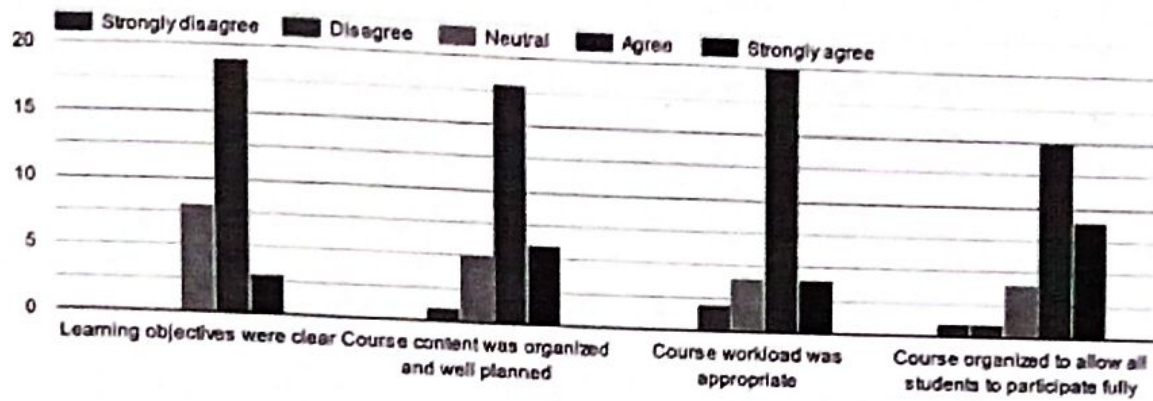
Contribution to learning



Skill and responsiveness of the instructor



Course content



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Dept. Of Mechanical Engineering
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

A TECHNICAL TALK ON "RESEARCH AND JOB OPPORTUNITIES IN UNITED STATES OF AMERICA"



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY
(Unit of Alva's Education Foundation (R), Moodbidri)
Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE,
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Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka
Ph: 08258-262725; Mob: 722262724, 7026262725, mail: principal@alvet08@gmail.com

Department of Mechanical Engineering

To

Date 21/01/23

IQAC Chairman

AIET, Mijar

Respected Sir

**Sub: Seeking Permission to conduct a technical talk on
25/01/2023**

We are happy to inform you that Department of Mechanical Engineering technical
forum is conducting a technical talk on 25/01/23.

Title of The Talk: Research and Job opportunities in United states of America

Mode: Offline

The details are mentioned below, kindly request you do the needful.

Resource person details

Name: Dr. Codrik John Martis

Designation: Quality & Development Project Controls & Qualification Engineer

Organization/Company/details: Big River Steel, Osceola

Venue: CAMD lab

Date/month/year: 25/01/2023

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Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K.

HOD
Dept. Of Mechanical Engineering
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY
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Moodbidri Campus, MO.168 574225, Moodbidri, D. K. , Karnataka
Ph: 08258 267725, Mob: 722267725, 7026707725 email: principal@alvaengg.com

DEPARTMENT OF MECHANICAL ENGINEERING

alvt/Mech/AY2022-23/008

Date: 25/01/2023

CIRCULAR

It is hereby informed to all that Department of Mechanical Engineering, is organising a Technical talk on "Research and Job opportunities in United states of America " is arranged on 25/01/23.


Venue: CAMD Lab

Mode: Online

Talk By: Dr. Codrik John Martis,

Quality & Development Project Controls & Qualification
Engineer , Big River Steel , Osceola

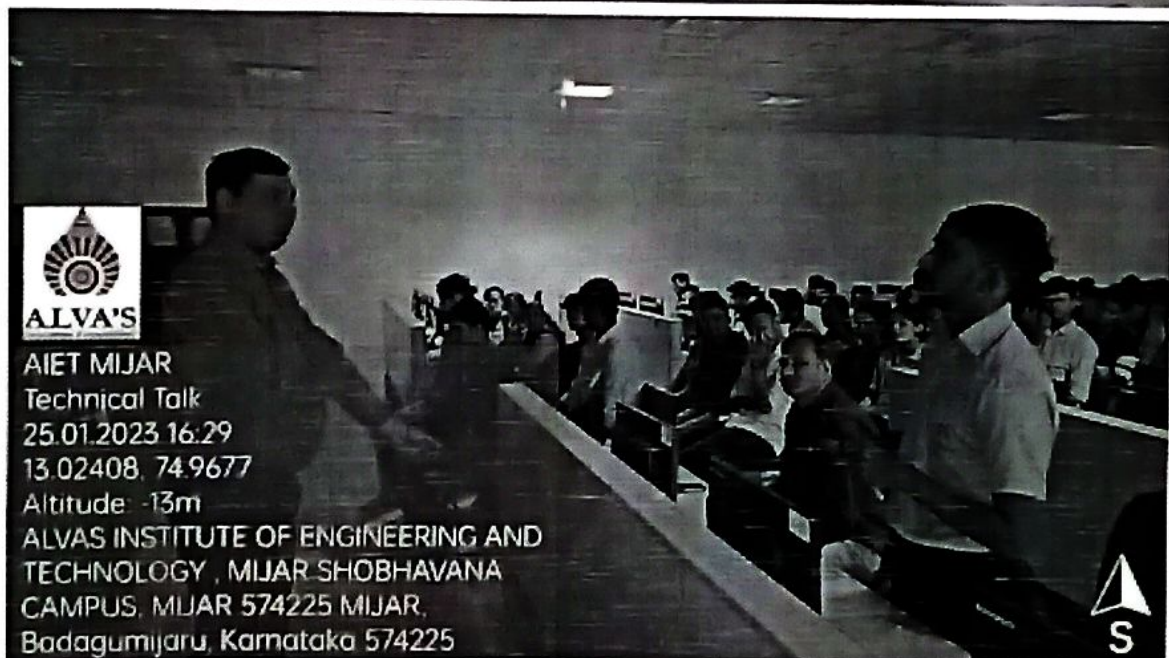
It is mandatory for all Students to attend the technical talk


HOD, D.
Dept. Of Mechanical Engineering
Alva's Institute of Engg. & Tech. - 574 225
Mijar, MOODBIDRI - 574 225
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Principal
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225, D.K.

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A TECHNICAL TALK ON "RESEARCH AND JOB OPPORTUNITIES IN UNITED STATES OF AMERICA"



Interaction with Students after the briefing

A Technical talk was organised by Mechanical department on 25.01.2023. The description of the Talk was "Research and Job opportunities in United States of America". The Talk was

delivered by Dr. Codrik John Martis Quality & development Project controls & Qualification Engineer, Big River Steel, Osceola.

At the outset, Mr. Chiranth, Student of Mechanical department welcomed the participants in the Technical Talk. Student of Mechanical department gave an introductory profile of the speaker. After this he requested Dr. Codrik John Martis to proceed with his Talk.

In his presentation the speaker talked about the research and job opportunities in United states of America. He started his talk by giving the introduction about his company Altair Product Design and Big River street a U.S steel company. Altair mainly focuses on FEA Analysis, Hypermesh and simlab. He worked there for around 4 and a half year. Now he is working in Big River steel which manufactures raw materials, Bumpers of car. He also explained about the Tests for Qualifications of the products where major tests are conducted to check for quality. He also told us about the Motor laminations which is done in their company. Next, he explained about his Phd Thesis Research which concentrated on Advanced high strength Steel". He explained about his work where high strength steels is the combination of high strength and high toughness material.

He told us about the Wayne State University. Where there are mainly 3 research area, they are Noise and Vibration control, Advanced materials and manufacturing, Advanced Propulsion and Energy Systems. He also told us about the requirement criteria required to join the university. He also explained about the various labs available in their campus they are

- Acoustic pseudospin and topological metamaterials laboratory.
- Acoustics, Vibration, and noise control (AVNC) laboratory.
- Advanced composites research laboratory.
- Atomic- scale predictive simulation and modelling (aPriSM) lab.
- Autonomous systems and controls lab.
- Centre for automotive research
- Dynamics, vibration and energy research group
- Combustion physics laboratory (CPL)
- Energy storage research lab
- Fluid dynamics research (FDR) Lab
- Ming- Chia lai's research group
- Soft Robotics Lab.

He also told us about the basic requirements for the Masters program such as GPA requirements, Language requirements. He also gave us a brief idea about Visa the main documents required are the letter of motivation, English proficiency test score, Transcript, Letter of recommendation. He also told us about the top 50 University of US. He also told about the top 10 automotive suppliers like Bosch, Denso, Magna, Aisin seiki etc. He also listed the top steel companies such as Nucor, BRS, Cliffs, Steel Dynamics. SMS group, Primetals, SKF.

After the talk there was an Interaction session where a lot of students asked the doubts regarding the higher studies. Dr. Satyanarayan HOD of mechanical department addressed the gathering and thanked the speaker for giving a technical talk. He also told us about the upcoming events and talks in the mechanical department. The talk was held in the CAMD lab Students from 1st, 2nd, 3rd and 4th year benefitted from this session. And also the department faculties were the audience of this talk. Around 70 students benefitted from this session.

FEEDBACK ON RESEARCH AND JOB OPPORTUNITIES IN UNITED STATES OF AMERICA"



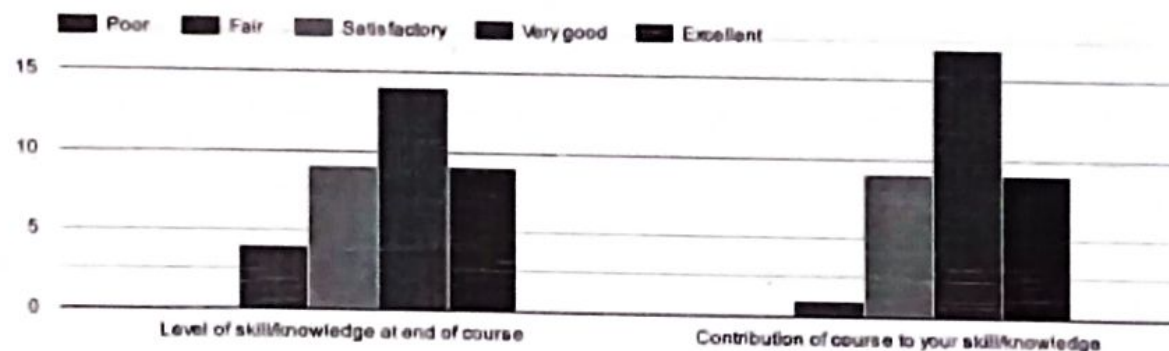
TECHNICAL TALK ON "RESEARCH & JOB OPPORTUNITIES IN UNITED STATES OF AMERICA"

Dept. of Mechanical Engineering

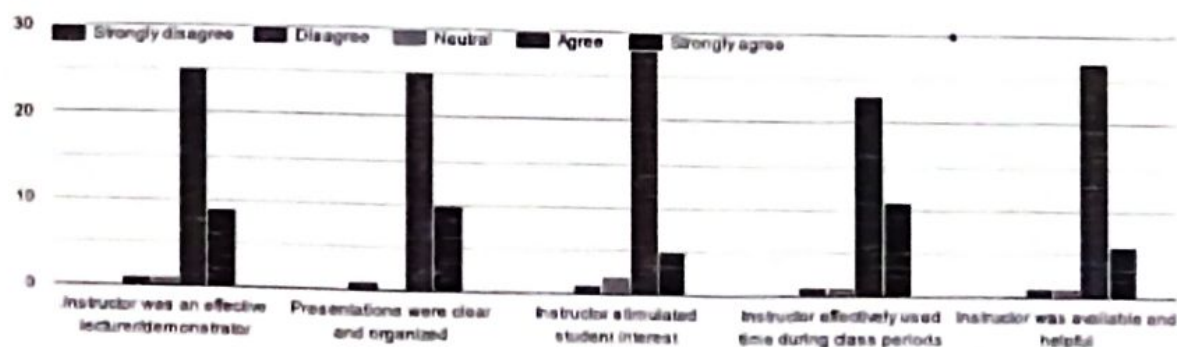
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FEEDBACK

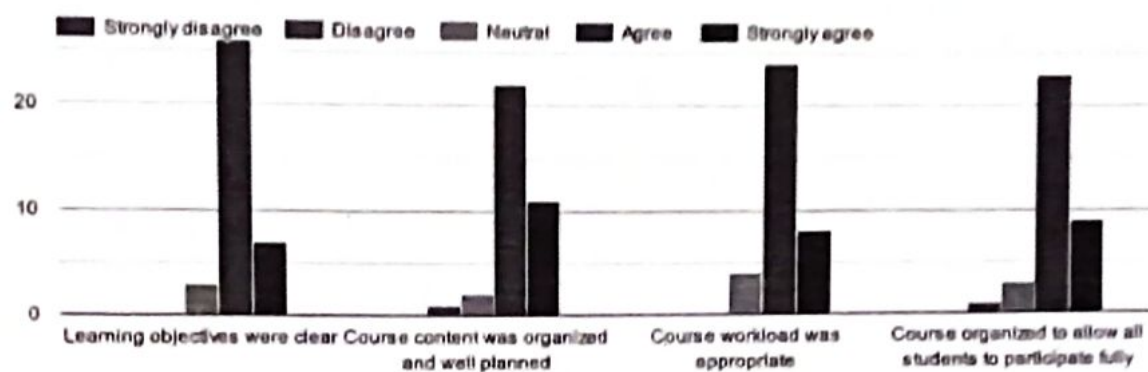
Contribution to learning



Skill and responsiveness of the instructor



Course content



[Signature]
HOD

H. O. D.
Dept. Of Mechanical Engineering
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

TECHNICAL TALK ON
"INNOVATIONS IN DESIGNING OF ELECTRIC VEHICLE."



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY
(Unit of Alva's Education Foundation (R), Moodbidri)
Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE,
New Delhi. Recognized by Government of Karnataka.
A*, Accredited by NAAC & NBA (SCE & CSE)
Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka
Ph: 08258-262725; Mob: 72226/2724, 7026262725, mail: principal@alvaet08@gmail.com

Department of Mechanical Engineering

To

Date 03/11/22

IQAC Chairman

AJET, Mijar

Respected Sir

Sub: Seeking Permission to conduct a technical talk on
04/11/2022

We are happy to inform you that Department of Mechanical Engineering technical forum is conducting a technical talk on 04/11/22.

Title of The Talk: Innovations in Electrical Vehicle Design

Mode: Online

The details are mentioned below, kindly request you do the needful.

Resource person details

Name: Mr. Rakesh

Designation: Head, Vehicle Design Division

Organization/Company/details: Magarita Tech, New Delhi

Venue: CAMD Lab

Date/month/year: 04/11/2022

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Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225, D.K.

HOD
H. O. D.
Dept. Of Mechanical Engineering
Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225



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(Unit of Alva's Education Foundation (R), Moodbidri)
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A+, Accredited by NAAC & NBA (as a coe)
Bhatluwasa Campus, M.JAR-574225, Moodbidri, D.K., Karnataka
Ph: 08258-262725, Mob: 922263734, 9026262725, mail: principal@alva.edu.in

DEPARTMENT OF MECHANICAL ENGINEERING

aliet/Mech/AY2022-23/001

Date: 04/11/2022

CIRCULAR

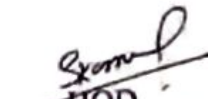
It is hereby informed to all that Department of Mechanical Engineering, is organising a Technical talk on "Innovations in Electrical Vehicle Design" is arranged on 04/11/22.

Venue: CAMD Lab

Talk By: Mr. Rakesh,

Head, Vehicle Design Division, Magarita Tech, New Delhi

It is mandatory for all Students to attend the technical talk


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Dept. Of Mechanical Engineering
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Mijar, MOODSIDRI - 574 225, D.K.

Principal table/Deans/HODs/AO/Office/---

TECHNICAL TALK ON
"INNOVATIONS IN DESIGNING OF ELECTRIC VEHICLE."

Date: 04-11-2022, Time: 11.00 am.

Mode: Online, Link: <https://meet296.webex.com/meet/pr26413764655>

Resource Person: Mr. Rakesh, Vehicle Designer, MAGARITA TECH, New Delhi.

Online Talk on "Innovations in Designing of Electric Vehicle" was arranged on 4th November 2022, at 11.00 am in CAMD lab, ME block, by Mechanical Engineering Department. Mr. Rakesh, Vehicle Designer, MAGARITA TECH, New Delhi was the resource person.

84 Students and 06 Faculties were attended the talk. Mr. Rakesh explained thoroughly design and development of electric vehicle with advanced innovative techniques. He also gave inputs to students to adopt the innovative skills to execute the design and manufacture of Electric Vehicles.

Objectives:

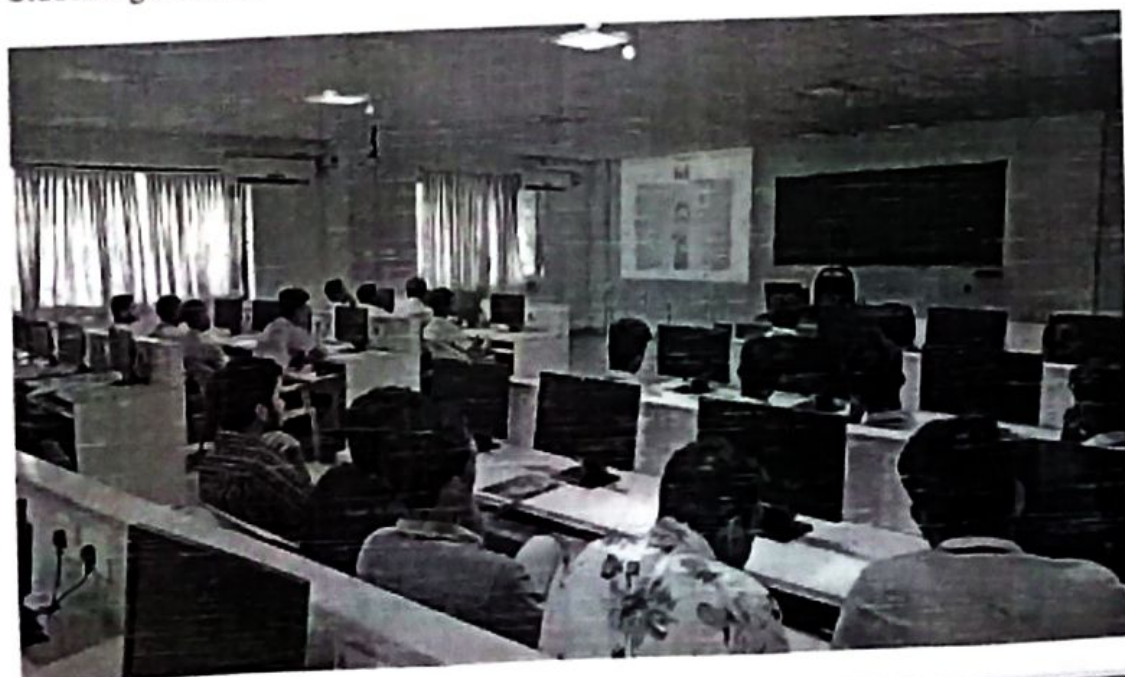
Provide wide exposure to students in the field of Electric Vehicles.

Importance of manufacturing skills in developing of Electric Vehicles.

Outcomes:

Students able to understand how to initiate the designing of electric vehicles.

Students got to know the various skills required to develop electric vehicles.



Mr. Rakesh delivered a talk on "Innovations in designing of Electric Vehicles".




Students attended a talk on "Innovations in designing of Electric Vehicles".



Mr. Rakesh explaining the designing of Electric Vehicles.


FEEDBACK on "INNOVATIONS IN DESIGNING OF ELECTRIC VEHICLE."



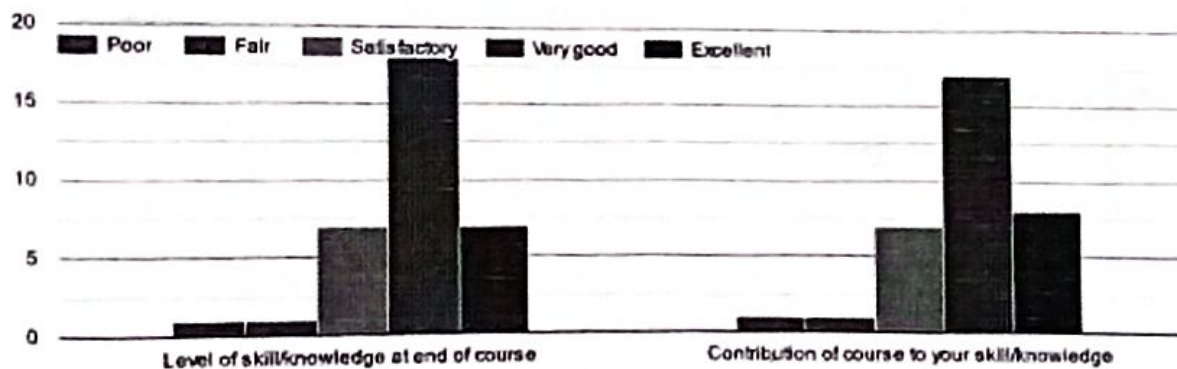
TECHNICAL TALK ON "INNOVATION IN DESIGNING OF ELECTRIC VEHICLE"

Dept. of Mechanical Engineering

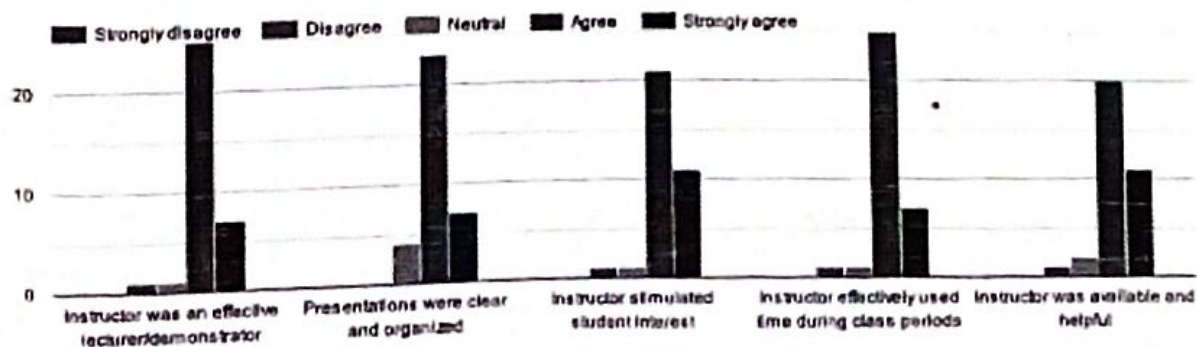
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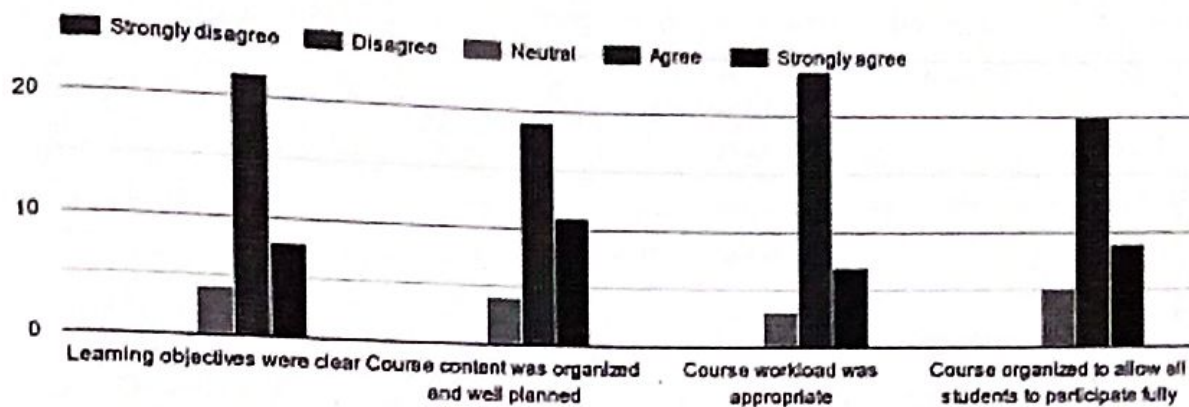
Contribution to learning



Skill and responsiveness of the instructor



Course content



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DEMONSTRATION ON FIRE SAFETY



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri)
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Shobhavara Campus, MIJAR-574225, Moodbidri, D.K., Karnataka
Ph: 08258-262725; Mob: 722262724, 7020262725, mail: principalalet08@gmail.com

Department of Mechanical Engineering

To

Date 10/12/22

IQAC Chairman

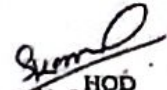
ALET, Mijar


Respected Sir

Sub: Seeking Permission to conduct a Field Visit to Fire station on 13/12/2022

We are happy to inform you that Department of Mechanical Engineering technical forum has arranged a field visit.

This particular Field visit is arranged for all final year engineering students as a part of hands on demonstration of fire safety & different fire extinguishing techniques.


H.O.D.
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Mijar, MOODBIDRI - 574 225, D.K.



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DEPARTMENT OF MECHANICAL ENGINEERING

aict/Mech/AY2022-23/007

Date: 24/01/2023

CIRCULAR

It is hereby informed to all that Department of Mechanical Engineering,
is organising a field visit to Fire station, moodbidri on 25/01/23.

It is mandatory for all Students to participate


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Dept. Of Mechanical Engineering
Alva's Institute of Engg. & Technology
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M/JAR, MOODBIDRI - 574 225, D.K.

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DEMONSTRATION ON FIRE SAFETY

A visit to moodabidri fire station was arranged by the Technical forum of Department of mechanical Engineering . The visit was organised on 13/12/22

This visit was intended to give a demonstration to students about different types of fire hazards & methods to control fire.. The following points were discussed, and Mock drill also conducted to create awareness to all of the attendees and how to use fire extinguishers and how many types of extinguishers we are using in our university also explained by the concept Fire department officers

1. Class on how to create fire.
2. Different types of fire extinguishers and their usage.
 - a. Water Type Extinguishers
 - b. Carbon dioxide Extinguishers
 - c. Dry Powder Extinguishers
 - d. Put off the gas fires(Domestic & Business)
3. How to use fix fighting equipments
 - a. Hose Reel Hose
 - b. Yard Hydrant

The session was all about understanding the basic nature of fire and causes of its breakout, and how we can protect ourselves under such circumstances. The importance of fire safety was highlighted by citing real life examples; use of firefighting gadgets were demonstrated by the team to help students understand and act on time during a fire breakout situation. Real life training was also provided i.e. few students were made to use the firefighting gadgets to help them practically understand how they work and operate.

Experts from the Department of Fire and Emergency Services were equipped with the fire engine and professional fire safety equipment to sensitize the staff and the students about the life saving and rescue techniques in case of fire. They were highly impressed with the staff members and students knowledge in the ability to use the fire extinguishers.





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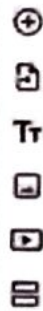
FEEDBACK ON DEMONSTRATION ON FIRE SAFETY



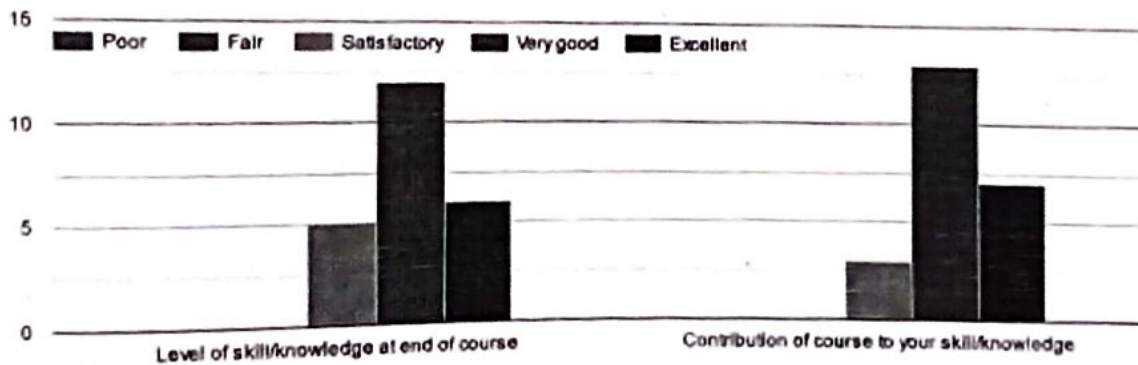
TECHNICAL TALK ON "DEMONSTRATION IN FIRE SAFETY" Dept. of Mechanical Engineering

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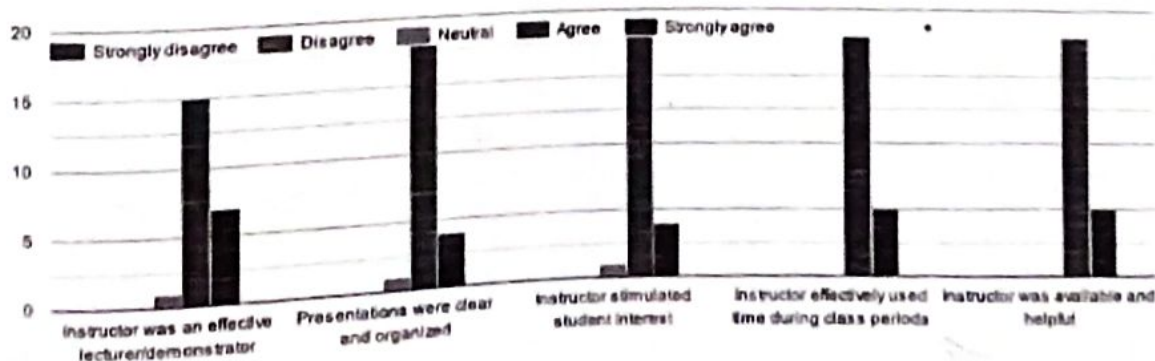
Please submit feedback regarding the course you have just completed, including feedback on course structure, content, and instructor.



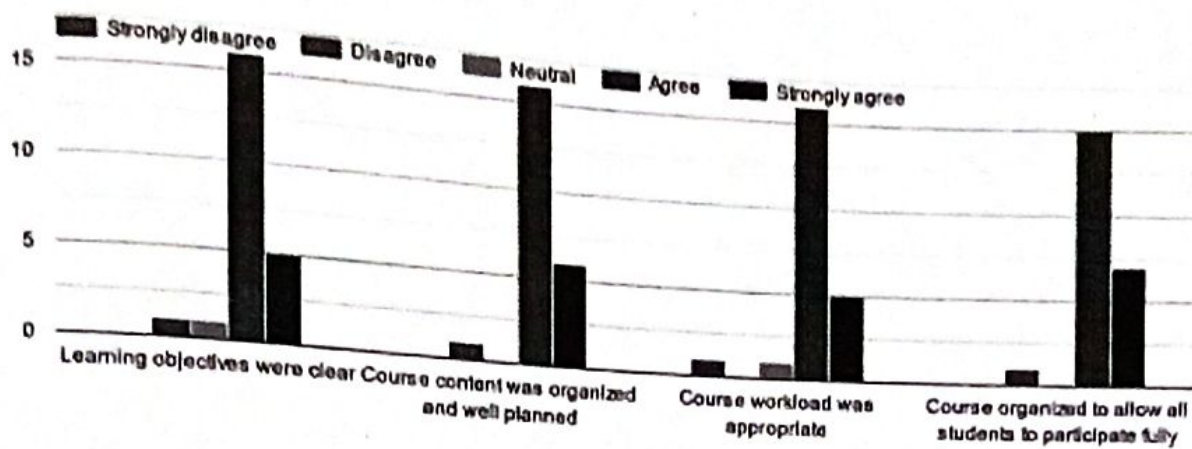
Contribution to learning



Skill and responsiveness of the instructor



Course content



[Signature]
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