

(An Autonomous Institution, Approved by AICTE & Affiliated to Anna University)

DEPARTMENT OF MECHANICAL ENGINEERING

2D AND 3D CNC ROUTER WORKSHOP

DATES: 15.07.2024 TO 19.07.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 3rd and 4th Year Mechanical Engineering Students

RESOURCE PERSON

MR. PRAVEEN GLOBAL SYSTEM

ABOUT THE WORKSHOP

This hands-on workshop focused on training students in 2D and 3D CNC router programming and operation. The program covered essential skills in CAD/CAM integration, tool path generation, and live machine operation, helping students gain practical expertise aligned with modern manufacturing technologies.

- Introduction to CNC router machines and working principles
- Design techniques for 2D and 3D parts using CAD tools
- CAM software usage for toolpath creation
- Live demonstration of CNC routing and machining operations
- Error detection and troubleshooting during operations
- Real-time hands-on practice with CNC machines
- Certificate of Participation



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DEPARTMENT OF MECHANICAL ENGINEERING

GUEST LECTURE ON NON-DESTRUCTIVE

DATES: 18.07.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 4th Year Mechanical Engineering Students

RESOURCE PERSON

MR. SELWIN

SAI SIS Institute of NDT

ABOUT THE GUEST LECTURE

This lecture provided students with in-depth knowledge of Non-Destructive Testing (NDT) techniques, essential for evaluating materials and components without causing damage. The session highlighted the relevance of NDT in various industries including aerospace, automotive, and infrastructure, emphasizing its role in ensuring quality and safety.

- Introduction to key NDT methods (Ultrasonic, Radiographic, Magnetic, etc.)
- Principles and applications of NDT in industry
- Case studies and practical use-cases
- Demonstration of NDT equipment and procedures
- Industry certifications and career pathways in NDT
- Q&A with an experienced practitioner
- Certificate of Participation



(An Autonomous Institution, Approved by AICTE & Affiliated to Anna University)

DEPARTMENT OF MECHANICAL ENGINEERING

TWO-DAY WORKSHOP ON NON-DESTRUCTIVE TESTING (NDT)

DATES: 23.07.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 3rd Year Mechanical Engineering Students

RESOURCE PERSON

MR. SELWIN

SAI SIS Institute of NDT

ABOUT THE WORKSHOP

This intensive two-day workshop aimed to equip students with practical knowledge and technical expertise in Non-Destructive Testing (NDT) techniques. With a balance of theory and hands-on demonstrations, the program helped students understand inspection methods used in quality assurance and maintenance across industries.

SEMINAR HIGHLIGHTS

- In-depth coverage of major NDT methods (UT, RT, MT, PT, VT)
- Real-time demonstrations with NDT equipment
- Defect identification techniques in welds and materials
- Hands-on experience with industry-grade tools
- Safety practices and procedural standards in NDT
- Career guidance and certification information
- Certificate of Participation



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DEPARTMENT OF MECHANICAL ENGINEERING

TWO-DAY WORKSHOP ON NON-DESTRUCTIVE TESTING (NDT)

DATES: 23.07.2024 & 24.07.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 4th Year Mechanical Engineering Students

RESOURCE PERSON

MR. SELWIN

SAI SIS Institute of NDT

ABOUT THE WORKSHOP

This comprehensive workshop was tailored for final-year students to deepen their knowledge in Non-Destructive Testing (NDT). It emphasized practical training, industry applications, and certification awareness, enhancing the students' readiness for careers in quality control, safety inspection, and industrial diagnostics.

- Overview and applications of key NDT techniques
- Practical sessions on Ultrasonic, Magnetic, and Dye Penetrant Testing
- Identification of material defects and interpretation of results
- Industry-standard procedures and safety protocols
- Certification pathways and job roles in NDT
- Interaction with experienced professionals
- Certificate of Participation



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DEPARTMENT OF MECHANICAL ENGINEERING

SEMINAR ON PRODUCT DEVELOPMENT

DATES: 16.07.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 3rd and 4th Year Mechanical Engineering Students

RESOURCE PERSON

MR. RAMANAN

CADDAM Technologies

ABOUT THE SEMINAR

This seminar introduced students to the fundamentals of product development, covering the complete cycle from idea generation to market launch. Mr. Ramanan shared insights into modern engineering practices, tools, and strategies used in developing innovative, customerfocused products.

SEMINAR HIGHLIGHTS

- Introduction to product design and innovation
- Stages of product development lifecycle
- Role of CAD/CAM tools in prototyping
- Case studies on successful product launches
- Industry expectations and skill requirements
- Interactive Q&A with expert guidance
- Certificate of Participation



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DEPARTMENT OF MECHANICAL ENGINEERING

2D AND 3D CNC ROUTER WORKSHOP

DATES: 31.07.2024 TO 02.08.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 3rd Year Mechanical Engineering Students

RESOURCE PERSON

MR. S. SENTHIL KUMAR

IDEA LAB

ABOUT THE WORKSHOP

This intensive workshop was designed to provide hands-on experience with 2D and 3D CNC router machines, offering valuable exposure to modern subtractive manufacturing techniques. It focused on machine operation, tool path generation, and software integration with CAM systems.

- Introduction to CNC technology and applications
- Tool path creation using CAD/CAM software
- Live demonstration on 2D and 3D CNC routers
- Material selection and machining best practices
- Hands-on training and supervised practice sessions
- Industry use-cases and real-time problem solving
- Certificate of Participation



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DEPARTMENT OF MECHANICAL ENGINEERING

WORKSHOP ON CO2 LASER ENGRAVING

DATES: 08.08.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 3rd Year Mechanical Engineering Students

RESOURCE PERSON

MR. RAJESH

RETECH LASER

ABOUT THE WORKSHOP

This hands-on workshop offered students practical exposure to CO₂ Laser Engraving Technology. The session aimed at enhancing students' technical knowledge on laser engraving processes used in additive manufacturing and product customization industries.

- Basics of CO₂ laser technology and engraving methods
- Safety practices and machine operation
- Live demos on different materials
- Understanding laser settings, speed, and power control
- Use of CAD/CAM tools for laser design
- Industry use-cases and real-time applications
- Certificate of Participation



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DEPARTMENT OF MECHANICAL ENGINEERING

WORKSHOP ON CO2 LASER ENGRAVING

DATES: 12.08.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 3rd Year Mechanical Engineering Students

RESOURCE PERSON

MR. S. SENTHIL KUMAR

IDEA LAB

ABOUT THE WORKSHOP

This practical workshop introduced students to CO₂ Laser Engraving Technology, equipping them with hands-on experience in engraving techniques applied in additive manufacturing and modern fabrication industries. Under the guidance of the expert, students explored various engraving methods and learned the integration of design and production.

- Fundamentals of CO₂ laser engraving and machine setup
- Demonstrations on various materials and surface finishes
- Safety standards and operational best practices
- CAD/CAM-based laser design workflow
- Control of laser parameters like power, speed, and frequency
- Industrial applications and project-based discussions
- Certificate of Participation



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DEPARTMENT OF MECHANICAL ENGINEERING

NQT AWARENESS LECTURE

DATES: 09.08.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 3rd Year Mechanical Engineering Students

RESOURCE PERSON

MR. P. LAKSHMAN PRAKASH

GM, GLOBAL HR HEAD. IOT AND DIGITAL ENGINEERING, TCS

ABOUT THE LECTURE

The NQT Awareness Lecture aimed to provide students with an understanding of the National Qualifier Test (NQT), a crucial step for many companies during recruitment. Mr. P. Lakshman Prakash shared insights on how students can excel in the test and improve their chances of securing job offers in the competitive corporate world.

LECTURE HIGHLIGHTS

- Introduction to NQT and its significance in recruitment
- Key strategies to prepare for the test
- Importance of soft skills and technical proficiency
- Insight into the recruitment process at TCS and similar companies
- Tips for enhancing personality and professional communication
- Q&A session to address students' concerns
- Certificate of Participation



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DEPARTMENT OF MECHANICAL ENGINEERING

NQT AWARENESS LECTURE

DATES: 09.08.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 4th Year Mechanical Engineering Students

RESOURCE PERSON

MR. P. LAKSHMAN PRAKASH

GM, GLOBAL HR HEAD. IOT AND DIGITAL ENGINEERING, TCS

ABOUT THE LECTURE

The NQT Awareness Lecture was designed specifically for IV Year students to help them understand the importance of the National Qualifier Test (NQT) in their final placement process. Mr. P. Lakshman Prakash, an industry expert, provided valuable insights into the test's structure and highlighted how students can enhance their skills to meet industry expectations.

LECTURE HIGHLIGHTS

- Introduction to NQT and its significance in recruitment
- Key strategies to prepare for the test
- Importance of soft skills and technical proficiency
- Insight into the recruitment process at TCS and similar companies
- Tips for enhancing personality and professional communication
- Q&A session to address students' concernS
- Certificate of Participation



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DEPARTMENT OF MECHANICAL ENGINEERING

3D PRINTING CLUB INAUGURATION

DATES: 21.08.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 2nd Year Mechanical Engineering Students

RESOURCE PERSON

MECHANICAL DEPARTMENT

ABOUT THE EVENT

The 3D Printing Club Inauguration marked the beginning of a new student initiative aimed at exploring and advancing the capabilities of 3D printing technologies in mechanical design and manufacturing. The club seeks to provide a platform for students to experiment, innovate, and share knowledge on additive manufacturing techniques.

- Introduction to 3D Printing and its importance in modern manufacturing
- Overview of the club's objectives, vision, and upcoming projects
- Demonstrations of various 3D printing techniques and technologies
- Discussions on the role of 3D printing in prototyping, product development, and innovation
- Membership opportunities and how students can actively participate in future projects
- Collaboration with industry experts and faculty



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DEPARTMENT OF MECHANICAL ENGINEERING

3D PRINTING CLUB INAUGURATION

DATES: 21.08.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 3rd Year Mechanical Engineering Students

RESOURCE PERSON

MECHANICAL DEPARTMENT

ABOUT THE EVENT

The 3D Printing Club Inauguration was designed to bring together students passionate about 3D printing and additive manufacturing. The club provides a collaborative space for students to learn, innovate, and contribute to various 3D printing projects, focusing on product design and prototyping.

- Overview of 3D printing and its revolutionary impact on manufacturing industries
- Club objectives and goals to foster innovation in additive manufacturing
- Introduction to various 3D printing technologies and their applications
- Opportunities for students to collaborate on hands-on projects and learn through experimentation
- Interactions with industry professionals and faculty members
- Insights into the future of 3D printing in engineering design



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DEPARTMENT OF MECHANICAL ENGINEERING

3D PRINTING CLUB INAUGURATION

DATES: 21.08.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 4th Year Mechanical Engineering Students

RESOURCE PERSON

MECHANICAL DEPARTMENT

ABOUT THE EVENT

The 3D Printing Club Inauguration event aimed to kickstart a student-driven initiative for exploring innovative applications of 3D printing in mechanical engineering. This club serves as a platform for students to learn, collaborate, and engage in practical 3D printing projects that enhance their academic experience and prepare them for industry challenges.

- Introduction to the significance of 3D printing in modern engineering and product design
- Goals and vision of the 3D Printing Club, with an emphasis on hands-on learning and innovation
- Demonstration of various 3D printing processes and materials
- Student involvement in upcoming projects and workshops
- Networking opportunities with professionals in the field of additive manufacturing
- Discussions on the future of 3D printing in mechanical engineering



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DEPARTMENT OF MECHANICAL ENGINEERING

JAPANESE LANGUAGE TRAINING PROGRAM

DATES: 21.08.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 2nd Year Mechanical Engineering Students

RESOURCE PERSON

NATIVE TRAINERS

ABOUT THE PROGRAM

The Japanese Language Training Program offered students an opportunity to learn the basics of the Japanese language, which is valuable for both personal development and future career opportunities. Conducted by native trainers, the program focused on practical communication skills, cultural awareness, and preparation for Japanese language proficiency tests.

PROGRAM HIGHLIGHTS

- Introduction to the Japanese language and its significance in global business
- Basic conversational skills for everyday situations
- Cultural nuances and etiquette when interacting with Japanese speakers
- Preparation for Japanese proficiency tests (JLPT)
- Interactive learning through role-playing and language exercises
- Exposure to Japanese customs and traditions to enhance global communication skills
- Certificate of Participation



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DEPARTMENT OF MECHANICAL ENGINEERING

JAPANESE LANGUAGE TRAINING PROGRAM

DATES: 21.08.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 3rd Year Mechanical Engineering Students

RESOURCE PERSON

NATIVE TRAINERS

ABOUT THE PROGRAM

The Japanese Language Training Program was designed to provide III Year students with practical skills in the Japanese language, enabling them to communicate effectively in a global business environment. Conducted by native trainers, the program focused on enhancing language proficiency, understanding Japanese culture, and preparing students for professional opportunities in Japanese-speaking industries

PROGRAM HIGHLIGHTS

- Introduction to Japanese grammar, vocabulary, and sentence structure
- Practical conversational skills for both formal and informal situations
- Cultural understanding, including business etiquette and traditions in Japan
- Focus on preparing students for JLPT (Japanese Language Proficiency Test)
- Interactive sessions for improved listening, speaking, reading, and writing skills
- Role-playing scenarios and language exercises to simulate real-world interactions
- Certificate of Participation



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DEPARTMENT OF MECHANICAL ENGINEERING

WEEKLY CODING CHALLENGE

DATES: Weekly

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 2nd Year Mechanical Engineering Students

RESOURCE PERSON

Department of Computer Science and Engineering

ABOUT THE CHALLENGE

The Weekly Coding Challenge was designed to enhance the coding skills of II Year Computer Science students, focusing on problem-solving abilities, algorithmic thinking, and cloud computing concepts. The challenge involved tackling coding problems of varying difficulty levels, which encouraged students to apply their theoretical knowledge to practical coding tasks.

CHALLENGE HIGHLIGHTS

- Weekly coding problems based on cloud computing and general programming topics
- Focus on improving problem-solving techniques and algorithmic efficiency
- Real-time coding environment and instant feedback for submissions
- Emphasis on cloud-based solutions and modern development tools
- Friendly competition environment to encourage peer learning
- Top performers recognized with certificates and rewards



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DEPARTMENT OF MECHANICAL ENGINEERING

WEEKLY CODING CHALLENGE

DATES: Weekly

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 3rd Year Mechanical Engineering Students

RESOURCE PERSON

Department of Computer Science and Engineering

ABOUT THE CHALLENGE

The Weekly Coding Challenge for III Year students was organized to foster practical coding skills, enhance problem-solving abilities, and deepen understanding of cloud computing concepts. The challenge encouraged students to tackle coding problems related to algorithms, data structures, and cloud-based applications.

CHALLENGE HIGHLIGHTS

- Advanced coding problems related to cloud computing, data structures, and algorithms
- Opportunities to explore cloud-based tools, APIs, and services in solving coding tasks
- Weekly competition to foster a healthy, challenging environment
- Real-time problem-solving and coding practice to improve technical proficiency
- Solutions evaluated based on efficiency, scalability, and cloud deployment potential
- Recognition of top performers with certificates and rewards



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DEPARTMENT OF MECHANICAL ENGINEERING

SEMINAR ON SUSTAINABLE DEVELOPMENT THROUGH RENEWABLE ENERGY RESOURCES

DATES: 22.08.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 3rd Year Mechanical Engineering Students

RESOURCE PERSON

MR. IA. LEO BERNARD

(MANAGER – ASHOK LEYLAND)

ABOUT THE SEMINAR

The Seminar on Sustainable Development focused on the pivotal role of renewable energy resources in promoting sustainable development. Mr. I.A. Leo Bernard, a seasoned expert from Ashok Leyland, shared insights into the current trends and challenges in adopting renewable energy technologies. The seminar aimed to raise awareness about sustainable practices and how renewable energy can contribute to a greener, more sustainable future.

SEMINAR HIGHLIGHTS

- Introduction to renewable energy sources: Solar, Wind, Hydro, and Biomass
- Sustainable development goals and the role of renewable energy
- Industrial adoption of renewable technologies and case studies
- Energy efficiency improvements in transportation and manufacturing
- Discussion on policies, challenges, and innovations in renewable energy
- Interactive session and Q&A with the resource person



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DEPARTMENT OF MECHANICAL ENGINEERING

TWO-DAY WORKSHOP ON DRONE ASSEMBLY

DATES: 04.09.2024 & 05.09.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 2nd Year Mechanical Engineering Students

RESOURCE PERSON

AVIATORQ

(MR. DAMODHARAN R)

ABOUT THE WORKSHOP

The Two-Day Workshop on Drone Assembly provided II Year Mechanical Engineering students with hands-on experience in assembling and understanding the basic components of drones. Led by Mr. Damodharan R from AviatorQ, the workshop focused on the principles of drone design, assembly, and practical applications of drones in various industries.

- Introduction to drone technology and its components
- Step-by-step guide to assembling a drone from scratch
- Hands-on training in wiring, motor installation, and calibrating drone components
- Understanding the role of drones in industrial robotics and automation
- Live demonstration of drone operation and testing
- Discussion on safety protocols, regulations, and applications of drones in industries like agriculture, surveillance, and delivery systems
- Exploring career opportunities in drone technology and robotics



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DEPARTMENT OF MECHANICAL ENGINEERING

ONE-DAY WORKSHOP ON ADVANCED AUTOMATION

DATES: 25.09.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 2nd Year Mechanical Engineering Students

RESOURCE PERSON

MR. BALASUBRAMANI

(DIAGONAL CAD)

ABOUT THE WORKSHOP

The One-Day Workshop on Advanced Automation aimed to provide II Year Mechanical Engineering students with an in-depth understanding of advanced automation systems used in modern manufacturing. Mr. Balasubramani from Diagonal CAD shared his expertise on automation technologies, including PLC programming, SCADA systems, and robotics integration in manufacturing.

- Overview of automation systems in manufacturing
- Introduction to PLC (Programmable Logic Controller) and its applications
- Hands-on training in SCADA (Supervisory Control and Data Acquisition) systems
- Integration of robotics and automation in manufacturing lines
- Future trends in automation and Industry 4.0
- Real-world case studies on successful automation implementations
- Exploring the role of automation in improving efficiency and quality in manufacturing



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DEPARTMENT OF MECHANICAL ENGINEERING

ONE-DAY SEMINAR ON "CAREER OPPORTUNITIES FOR MECHANICAL ENGINEERS"

DATES: 25.09.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 3rd and 4th Year Mechanical Engineering Students

RESOURCE PERSON

MR. AJAY ZENER

(GRADSQUARE)

ABOUT THE SEMINAR

The One-Day Seminar on Career Opportunities for Mechanical Engineers was designed to inform and inspire III & IV Year Mechanical Engineering students about the diverse career paths available to them. Mr. Ajay Zener from Gradsquare shared insights into the evolving job market, emerging industries, and entrepreneurial opportunities for mechanical engineers.

SEMINAR HIGHLIGHTS

- Exploring various career paths for mechanical engineers in industry and academia
- Opportunities in manufacturing, automotive, aerospace, and robotics industries
- Entrepreneurship in engineering: How to start and grow a tech business
- Skills required by employers in mechanical engineering fields
- Emerging technologies: IoT, automation, and renewable energy



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DEPARTMENT OF MECHANICAL ENGINEERING

GATE WORKSHOP

DATES: 30.09.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 3rd Year Mechanical Engineering Students

RESOURCE PERSON

MR. DEEPAK (TIME)

ABOUT THE WORKSHOP

The GATE Workshop was aimed at III Year Mechanical Engineering students aspiring to pursue higher studies or careers in research and development. Mr. Deepak, a seasoned GATE coach from TIME, provided valuable tips and strategies for cracking the GATE exam, along with an overview of the exam pattern, important subjects, and resources to maximize preparation.

- Introduction to the GATE exam: Structure, syllabus, and eligibility
- Strategies to crack GATE with a focus on mechanical engineering subjects
- Time management techniques for effective GATE preparation
- Insights into important topics in Finite Element Analysis and related fields
- How to approach problem-solving in GATE: Tips and tricks
- Discussion on the benefits of GATE: Higher studies, research opportunities, and career growth
- Q&A session for addressing doubts and personal study strategies



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DEPARTMENT OF MECHANICAL ENGINEERING

ONE-DAY WORKSHOP ON MECHANICAL MODELLING SOFTWARES

DATES: 09.10.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 2nd Year Mechanical Engineering Students

RESOURCE PERSON

MR. BALAJI (CADD INDIA)

ABOUT THE WORKSHOP

The One-Day Workshop on Mechanical Modelling Softwares was designed to provide II Year Mechanical Engineering students with a comprehensive understanding of mechanical modeling and simulation software. Mr. Balaji from CADD India led the session, offering hands-on training on various CAD software and their applications in design and manufacturing processes.

- Introduction to various mechanical modeling software tools (AutoCAD, SolidWorks, CATIA, etc.)
- Basics of 2D and 3D modeling for mechanical components
- Understanding the principles of Computer-Aided Design (CAD) and its role in the manufacturing process
- Hands-on training in designing mechanical parts and assemblies
- Real-world examples and industry applications of CAD in manufacturing
- Tips for improving design accuracy and efficiency using modeling software



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DEPARTMENT OF MECHANICAL ENGINEERING

ONE-DAY TRAINING PROGRAM ON E VEHICLES

DATES: 08.10.2024

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: 3rd Year Mechanical Engineering Students

RESOURCE PERSON

MR NITHIN

GTT FOUNDATION

ABOUT THE TRAINING PROGRAM

The One-Day Training Program on E Vehicles was designed to provide III Year Mechanical Engineering students with an in-depth understanding of electric vehicle technology. Mr. Nithin from GTT Foundation conducted this training, covering the fundamentals, components, and working principles of electric vehicles (EVs) and hybrid vehicles.

TRAINING PROGRAM HIGHLIGHTS

- Introduction to the fundamentals of Electric Vehicles (EVs) and Hybrid Vehicles
- Overview of key components: Electric motors, batteries, and power electronics
- Charging infrastructure and battery management systems
- Working principles of EVs and how they differ from conventional vehicles
- The future of the automotive industry: Electric vs. internal combustion engines
- Hands-on demonstrations of electric vehicle components
- Industry trends, challenges, and job opportunities in the EV secto



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DEPARTMENT OF MECHANICAL ENGINEERING

SCOPE OF PURSUING HIGHER EDUCATION AT FOREIGN UNIVERSITIES AND CREATING AWARENESS

DATES: 17.07.2023

VENUE: Department of Mechanical Engineering

TARGET AUDIENCE: Final Year Mechanical Engineering Students (75 Members)

RESOURCE PERSON

WALK INTERNATIONALS

ABOUT THE GUEST LECTURE

This session aimed to create awareness among students about the opportunities and procedures for pursuing higher education in foreign universities. Experts from Walk Internationals provided detailed guidance on international admissions, scholarships, visa processes, and selecting the right universities based on career goals.

EVENT HIGHLIGHTS

- Global trends in higher education and university selection
- Admission procedures, tests, and eligibility criteria
- Country-wise opportunities and scholarship options
- Visa application and documentation support
- Tips for adapting to international student life
- Interactive session with real-time queries

Certificate of Participation