

# MECHANICAL NEWS LETTER

JUNE-2022

## MECHANICAL ENGINEERING

universal engineering college , Thrissur



### VISION

Provide excellent engineering education to create competent and innovative mechanical engineers to cater the society with strong ethical values.

### MISSION

- To produce technically skilled and innovative engineering graduates through experienced faculty and robust infrastructure.
- Foster the students to achieve lifelong learning and to become competitive through proper curriculum delivery and holistic development strategies.
- To inculcate multidisciplinary approach in engineering and to prepare them for global skill set
- Mould the students to be socially, ethically and environmentally responsible citizens

## AUTOCAD + SKETCHUP WORKSHOP

### AUTOCAD-SKETCHUP WORKSHOP



Mr. Vimal Ashok N A  
Associate professor  
Department of Mechanical  
Engineering

14/01/2022  
9:30 AM

Department of Mechanical Engineering

A technical workshop was organized by the Technocad Club Team for Mechanical Engineering students, focusing on AutoCAD and SketchUp, with the objective of introducing fundamental CAD concepts and practical design workflows. The Principal, Vice-Principal, and Dean were not present for the event. Participants were trained in essential 2D drafting commands in AutoCAD and explored the intuitive 3D modeling interface of SketchUp, with hands-on sessions that included drawing mechanical components and simple architectural structures. A live demonstration showcased 3D modeling, material application, and basic rendering in SketchUp, providing valuable insights into real-



world CAD usage. Through this workshop, students developed an understanding of the basic commands and interface of AutoCAD, explored 3D modeling features in SketchUp, and appreciated the combined use of both tools for efficient and effective design tasks. Posters and event photographs were prepared and documented to record and showcase the successful conduct of the program

## 2 DAY WORKSHOP – UAV TECHNOLOGY

A two-day workshop on UAV Technology was organized by the Department of Mechanical Engineering at Universal Engineering College on 15 January 2022 in association with ARMS. The event was conducted at the CAD Lab, B-Block, with expert trainers from CADD Centre, Kodungallur as resource persons. The workshop combined technical sessions and hands-on training to

provide students with both theoretical knowledge and practical exposure to Unmanned Aerial Vehicle (UAV) systems. Topics included UAV fundamentals, components, applications, and safety practices. Through



demonstrations and interactive sessions, students gained a practical understanding of drone operations and industry relevance, motivating them toward advanced learning and projects.

### 2 DAY WORKSHOP UAV TECHNOLOGY

CADD Centre  
Kodungallur

15/01/2022

CADD Lab B-Block

Department of Mechanical Engineering

# TECHNICAL TALK – BUSINESS MODEL CANVAS



## BUSINESS MODEL CANVAS

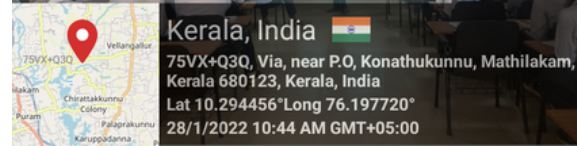
DATE: 28/01/2022  
TIME: 10:00 AM

DEPARTMENT OF MECHANICAL ENGINEERING



Mr. Antonio Joseph V K  
ASSISTANT PROFESSOR  
DEPARTMENT OF ME

The Department of Mechanical Engineering at Universal Engineering College, in association with ARMS, organized a technical talk on “Business Model Canvas” on 28 January 2022 at 10:00 AM. The session was delivered by Mr. Antonio Joseph V K, Assistant Professor in the department. The speaker explained the Business Model Canvas as a strategic business planning tool, detailing its nine building blocks with practical examples. The programme included welcome and presidential addresses, the technical talk, an interactive session, and a vote of thanks. Faculty members and students attended the event.



Key outcomes included improved understanding of the Business Model Canvas framework, enhanced awareness of entrepreneurship concepts, better ability to structure business ideas, and strengthened strategic thinking skills.

# MOCK GROUP DISCUSSION



## MOCK GROUP DISCUSSION

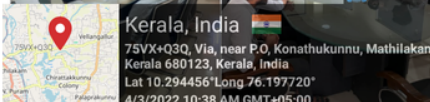


SUPRABHA C C  
ASSISTANT PROFESSOR  
DEPARTMENT OF ASH

04/03/2022  
Time : 10:00AM

DEPARTMENT OF MECHANICAL ENGINEERING

A Mock Group Discussion (GD) session was organized by the Training and Placement Cell on 4th March 2022 from 10:00 AM to 12:30 PM to prepare students for recruitment processes of leading companies. The session aimed to enhance students' communication skills, confidence, analytical thinking, leadership, and teamwork, which are essential qualities evaluated during placement interviews. Participants were divided into groups and engaged in discussions on topics related to current affairs, social issues, and abstract themes such as the Impact of Social Media, Online Education vs Traditional Learning, Is Technology Making Us Less Human? and Sustainable Development. The discussions were moderated by experienced faculty and industry trainers, and each round was followed by constructive feedback to help students identify strengths and areas for improvement. The session significantly improved students' articulation, listening skills, GD etiquette, and confidence, contributing effectively to their overall placement preparedness and professional development.



# TALK ON DRUG USAGE AMONG STUDENTS – HOW TO IDENTIFY AND HOW TO DEAL

## TALK ON DRUG USAGE AMONG STUDENTS HOW TO IDENTIFY AND HOW TO DEAL

The Department of Mechanical Engineering at Universal Engineering College, in association with ARMS, organized an awareness talk on “Drug Usage Among Students – How to Identify and How to Deal” on 08 April 2022. The session was led by Mr. Syamvishnu O S, Senior



Civil Police Officer at North Paravur Police Station. He spoke about the harmful effects of drug abuse, early warning signs, prevention methods, and legal consequences. The



**SYAMVISHNU O S**  
SENIOR CIVIL POLICE OFFICER  
NORTH PARAVUR POLICE STATION

DATE: 08/04/2022  
TIME: 10:00 AM

DEPARTMENT OF MECHANICAL ENGINEERING

programme included an interactive session, allowing students to clarify doubts and understand the importance of maintaining a healthy lifestyle, counseling, and peer support. Faculty members and students of the department attended the event.



## TECHNICAL TALK – AUTOMOTIVE DIAGNOSTICS

The Department of Mechanical Engineering at Universal Engineering College organized a one-day technical talk and workshop titled “Automotive Diagnostics” on 30 April 2022 in association with the Association of Royal Mechanical Students (ARMS). The programme was inaugurated by Dr. Jose K Jacob, Principal, and Dr. K K Narayanan, Director IQAC and HoD (ASH). The session was led by Mr. Jinesh Vinayachandran, Academic Advisor at Little Flower Engineering Institute. The forenoon session covered the fundamentals and latest trends in



automotive diagnostics, while the afternoon session provided hands-on training in four-wheeler diagnostic systems, including fault identification, sensor analysis, and scanning tools. The workshop successfully bridged academic knowledge with practical skills, enhanced students’ understanding of modern vehicle diagnostics, and created awareness about career opportunities in the automotive service sector.

## TALK ON WORK ETIQUETTE

### TALK ON WORK ETIQUETTE



Mr. Anil Viswanbaran  
(Sachindra Rubber Plus)

04/05/2022  
TIME: 10:00 AM

B-BLOCK  
SEMINAR HALL

Department of Mechanical Engineering

relationships. Through practical examples, the session helped students understand workplace expectations and prepared them for corporate environments.

The Department of Mechanical Engineering at Universal Engineering College, in association with ARMS, organized an online talk on “Work Etiquette” on 04 May 2022 at 10:00 AM. The session was delivered by Mr. Anil Viswanbaran, Associate Partner and Branch Head at Altacit Global, Cochin. The programme included a welcome address, presidential address, expert talk, interactive session, and vote of thanks, with faculty and students in attendance. The talk focused on professional conduct, workplace ethics, communication skills, time management, and interpersonal



## SOFT SKILL ADD-ON COURSE

### SOFT SKILL ADD-ON COURSE



Mrs. NIRMALA PARAMESWARAN  
(JIT TRAINER)

Time : 10:00 AM  
Date: 10/05/2022

Department Of Mechanical Engineering

The Department of Mechanical Engineering at Universal Engineering College, in association with ARMS, conducted a Soft Skill Add-On Course on 10 May 2022 at 10:00 AM in the seminar hall. The programme began with a welcome address, followed by an inaugural speech by the Head of the Department. The training session was led by Mrs. Nirmala Parameswaran, JIT Trainer, and focused on

communication skills, interpersonal development, professional etiquette, and personality enhancement through interactive activities. Faculty members and students actively participated.



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75VX+Q3Q, Via, near P.O, Konathukunnu, Mathilakam,  
Kerala 680123, Kerala, India  
Lat 10.294456°Long 76.197720°  
10/5/2022 10:35 AM GMT+05:00

The programme highlighted the importance of soft skills in professional life and helped students improve communication, interpersonal abilities, professional ethics awareness, and overall confidence.

# WORKSHOP ON ARTIFICIAL INTELLIGENCE (AI) AND MACHINE LEARNING (ML)

A one-day workshop on “Artificial Intelligence (AI) and Machine Learning (ML)” was conducted on 13th May 2022 from 10:00 AM to 12:00 PM, organized by the AI Club, Universal Engineering College, and led by Mr. Sreeraj R. The workshop aimed to equip students with foundational knowledge and practical exposure to AI and ML, which are transforming modern technology across multiple sectors. The sessions covered core concepts of AI and ML, machine learning algorithms such as regression, classification, clustering, and decision trees, and hands-on training using Python tools and libraries including



NumPy, pandas, matplotlib, and scikit-learn through Jupyter Notebook. Participants also explored real-world applications in healthcare, finance, manufacturing, and smart cities, along with guidance on career opportunities and portfolio building in AI/ML. The interactive Q&A session and hands-on activities made the workshop highly engaging, enabling students to gain strong conceptual clarity and practical skills, and motivating them to pursue projects and careers in AI and data-driven technologies.

## WORKSHOP ON AI & ML



Dr. SREERAJ R  
PROFESSOR & HOD  
DEPARTMENT OF CSE



Department of Mechanical Engineering

# EXPERT TALK ON AUTOMOTIVE DESIGN AND ENGINEERING

The Department of Mechanical Engineering at Universal Engineering College, in association with ARMS, organized an expert talk on “Automotive Design and Engineering” on 14 May 2022 at 10:00 AM in the seminar hall. The session was delivered by Mr. Jinesh Vinayachandran, Technical Trainer at Devise Electronics and Academic Mentor at Little Flower Engineering Institute. The programme included a

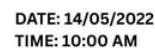


welcome address, presidential address, expert talk, interactive session, and vote of thanks. The session covered automotive design processes, CAD-based development, material selection, electric vehicles, and advanced driver assistance systems.

## EXPERT TALK ON AUTOMOTIVE DESIGN AND ENGINEERING



JINESH VINAYACHANDRAN  
(TECHNICAL TRAINER, DEVISE ELECTRONICS  
ALSO WORKING AS ACADEMIC MENTOR FOR  
LITTLE FLOWER ENGINEERING INSTITUTE)



DEPARTMENT OF MECHANICAL ENGINEERING

Faculty and students actively participated, gaining insights into industry expectations, required skills, and career opportunities in automotive engineering

# TALK ON INTELLECTUAL PROPERTY RIGHTS (IPR)

## TALK ON INTELLECTUAL PROPERTY RIGHTS (IPR)



**ADV. A B MANJU**  
 (Associate Partner – Branch Head at Altacit Global Cochin)

25/05/2022  
 TIME: 10:00 AM

B-BLOCK SEMINAR HALL

Department of Mechanical Engineering

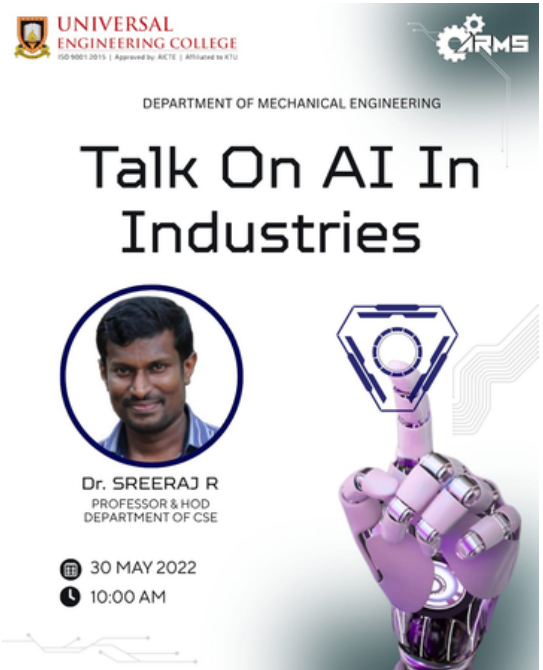
A talk on Intellectual Property Rights (IPR) was conducted on 25 May 2022 by the Innovation and Entrepreneurship Development Centre at Universal Engineering College. The session was delivered by Adv. Manju, an IPR consultant and legal expert. The talk covered the importance of IPR in innovation and research, different types of intellectual property (patents, copyrights, trademarks, industrial designs, and trade secrets), and the patent filing process in India and internationally. It also emphasized the



role of IPR in academic projects and startups. The interactive session clarified participants' doubts and encouraged students and faculty to protect their innovations, making the event highly informative and impactful.

## TALK ON AI IN INDUSTRIES

A technical talk on “Artificial Intelligence in Industries” was conducted on 30th May 2022 from 10:00 AM to 12:30 PM, organized by the Department of Mechanical Engineering, and delivered by Dr. Sreeraj R. The session focused on the transformative role of AI in modern industrial environments, highlighting its impact on automation, productivity, decision-making, and innovation. The talk covered key applications of AI in manufacturing, supply chains, predictive maintenance, quality inspection, and resource optimization, supported by real-world case studies from leading companies such as Siemens, Bosch, and Tata. Future trends including autonomous



systems, digital twins, and smart factories were also discussed, along with guidance on career opportunities and essential skillsets in industrial AI. The interactive Q&A session addressed ethical considerations, implementation challenges, and research opportunities, making the session highly informative and relevant. The event successfully inspired students and faculty to explore AI as a powerful enabler of industrial transformation and innovation