

- **January 2022**
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January 2022
News letter

BUILDERS ENGINEERING COLLEGE

A Newsletter of DEPARTMENT OF MECHANICAL ENGINEERING



COLLEGE VISION&MISSION

Vision:

To be the most preferred knowledge provider.

Mission:

Builders Engineering College endeavors to prepare rural students for successful career through academic and applied research.

Department - Vision & Mission

Vision

To be a leading light in, and renowned for Mechanical Engineering and Research

Mission

To maintain state of the art research facilities to provide collaborative environment that stimulates students and faculty members with opportunities to create, analyze, apply and disseminate knowledge

Program Educational Objectives (PEOs)

PEO1: Successful Professional careers in Mechanical Engineering and related fields are awaiting

PEO2: Graduates who pursue further education will participate in technological advancements

PEO3: Graduate will work in their fields with respectable leadership abilities and moral principles

Program Specific Objectives (PSOs)

PSO1: Apply the knowledge gained in Mechanical Engineering for design and development and manufacture of multi-disciplinary engineering systems and projects.

PSO 2: Use the knowledge acquired to investigate research problems in mechanical engineering with due consideration for environmental and social impacts.

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EDITORIAL BOARD

Faculty In-Charge

Mr. S. Ravi HoD/Mech
Mr. A. Thirumalaikumaran, AP/Mech

Student Members

E.BASKAR, IV/Mech
E. Srithar, III/Mech
S. Selvaram, II/Mech

Feedback and suggestions may be sent to
mec@builderscollege.edu.in

PRINCIPAL'S *Message*



"Builders Engineering College fosters excellence through innovative education, industry partnerships, holistic student support, community engagement, and a commitment to shaping the future of engineering."

Dr. S. Gopalakrishnan
Principal

HOD'S *Message*



The Department of Mechanical Engineering was started in the year 2009 with an intake of 60 students in the UG programme. The department aims to develop mechanical engineers who are innovative, entrepreneurial and equipped to become global leaders in research and technology. In the objective of the department is to graduate individual who can design system, components or processes to meet desire needs within the realistic constrains such as economics, environmental, social, health, safety and manufacturability.

Mr. S. Ravi
HoD/Mech

EVENTS *Organized*



Career in Defence and Paramilitary Forces

June 12,2021

Guest Lecture on “Career in Defence and Paramilitary Forces” on 12.06.2021 & by Captain. Manoj Logusamy, Indian Army, Arunachal Pradesh

Motivational Speech on 26.06.2021 & by Mr.T.T.PARANTHAMAN, Managing Director, Paranthaman Exporters (PRD),Perundurai,Erode



Advanced knowledge in Mechanical

July 24,2021

“Advanced knowledge in Mechanical field”on 24.07.2021 & by Mr.R.Kandasamy, NMVST manpower service & Quality Assurance Manager, NMVST ALLOY Cast, Coimbatore.

Research and Development in Valves

August 14,2021

“Research and Development in Valves” on 14.08.2021 & by Mr.Laural Marsh, Senior Design Engineer, Bray Technical Services India Pvt. Ltd,(BRAY INTERNATIONAL, INC.) Bangalore



Strengthen your Career with Mechanical Design

September 14,2021

Seminar on “Strengthen your Career with Mechanical Design” on 07.09.2021 & by Mr. Sankar Mahalingam, Managing Director of Profenaa Industrial Training Centre, Erode Franchise

FACULTY *Participation*

- Dr M S SENTHIL KUMAR has participated in FDP “Advances in Composite Materials, Manufacturing processes and Optimisation Techniques” on 01.06.2021 to 14.06.2021 at AMET University, Chennai. He also participated in FDP about “Machine Learning in Industrial Revolution 4.0” on 24.06.2021 to 26.06.2021 at KSR Rangasamy College of Technology, Namakkal.
- S RAVI has participated in an FDP of “English for Oral Communication” on 02.08.2021 to 20.11.2021 at IITBX

- Dr K SAKTHIVADIVEL has participated in an FDP of “Meeting the Challenge of Global Economy in 21st Century” on 01.06.2021 to 10.06.2021 at Builders Engineering College, Tamilnadu. He also participated in FDP “NOVEL MATERIALS AND THEIR APPLICATIONS” on 19.07.2021 to 23.07.2021 at Maharaja Ranjit Singh Punjab Technical University, Bathinda. He also participated in FDP “Meeting the Challenges of Global Economy in 21st Century” on 01.06.2021 to 14.06.2021 at AMET University, Chennai.
- M SURESH has participated in FDP “Automotive Engineering Systems” on 04.10.2021 to 08.10.2021 conducted by SAEINDIA. He also participated in FDP “Recent Trends in Manufacturing Technology and Thermal Engineering” on 06.10.2021 to 13.10.2021 conducted by Bharath Institute of Higher Education and Research, Chennai and FDP of “Learning Through Virtual Labs for Technical Institutions” on 18.10.2021 to 22.10.2021 by Lendi Institute of Engineering & Technology, Andhra Pradesh. He also participated in FDP Automotive Friction Materials 13.12.2021 to 17.12.2021 SRM Institute of Science and Technology, Kattankulathur. He also participated in FDP about “FEA for Solving Real Time Problems” on 27.12.2021 to 01.01.2022 at NBKR Institute of Science & Technology, Andhra Pradesh.
- M MOHANRAJU has participated in an FDP about “Sheetmetal Design in Solid Edge” on 27.09.2021 to 01.10.2021 at ICT Academy. He also participated in FDP about “Meeting the Challenges of Global Economy in 21st Century” on June 2021-July 2021 at Builders Engineering College, Tamilnadu

FACULTY *Publication*

- S.RAVI, Dr.N.SATHISHKUMAR A.THIRUMALAIKUMARAN, R.SENTHIL
Has published Experimental investigation of LPG cooking stove by improving thermal efficiency using different burners with wire mesh and wind proof.International Journal of Science Technology and Management
- Dr K SAKTHI VADIVEL
Has published Mechanical and Water Absorption Properties of Acacia Arabica Bark Fiber/Polyester Composites: Effect of Alkali Treatment and Fiber Volume Fraction Materials Today: Proceedings
- Dr K SAKTHI VADIVEL,C.SIVARAJ
Has published Troubleshooting of Raw Material Handling in Bagasse Pulping Journal of Manufacturing Engineering
- Dr K SAKTHI VADIVEL,C.SIVARAJ
Has published Study on the Mechanical Properties of Roselle Fiber and Palm Seed Powder Reinforced Epoxy Hybrid Composites Journal of Manufacturing Engineering
- M MOHANRAJU,M SURESH, A.THIRUMALAIKUMARAN
Has published Experimental Investigation of Thermo Physical Properties of Lubricating Oil and Bio Lubricating Oil in Single Cylinder Four Stroke IC Engine International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET)
- M MOHANRAJU,M SURESH
Has published Wear Behavior of Aluminium Alloy 2218 Fly ash - Talc Hybrid Metal Matrix Composites International Journal of Innovative Research in Science and Engineering (IJIRSE)
- Dr M S SENTHIL KUMAR
Has published Effect of Nanomaterials on Tribological and Mechanical Properties of Polymer Nanocomposite Materials Advances in Materials Science and Engineering Then he published towards improved performance and lower exhaust emissions using exhaust gas recirculation coupled compression ignition engine fuelled with Nano fuel blends Energy Sources, Part A: Recovery, Utilization, and Environmental Effects And he also published Wear Behavior of Aluminium Alloy 2218 Fly ash - Talc Hybrid Metal Matrix Composites International Journal of Innovative Research in Science and Engineering (IJIRSE)

- Dr M S SENTHIL KUMAR has published a invention of “A NOVEL METHOD - INTEGRATION OF INTERNAL COMBUSTION ENGINE WITH IOT DEVICE” during the year of 8/2021 Dated 09/07/2021 India
- S P SUNDARESWARAN Has published Analysis of leaf spring by using ANSYS software for composite materials in light motor vehicle. International Journal of advance research in science and engineering.

STUDENTS *Participation*

On 19-06-20201 R.Krishna Bharath and L.Kalaiyarasu has attented the webinar about “Fuel Cell Technology” at SNS College Of Technology

MEMORANDUM OF UNDERSTANDING *With Industry*



The MOU has been signed on 01-11-2021 with “schwing stetter” to give a better guest lecture to the students



The MOU has been signed on 29-11-2021 with “CMK projects ” to make a better career for the students



The MOU has been signed on 29-11-2021 with “RCCL ” to make a better career for the student