# BONAM VENKATA CHALAMAYYA ENGINEERING COLLEGE

(AUTONOMOUS)

ODALAREVU – 533210, KONASEEMA DISTRICT, ANDHRA PRADESH

योगः कर्मसु कौशलम्

## DEPARTMENT OF MECHANICAL ENGINEERING

A HALF-YEARLY NEWSLETTER

A.Y 2022-23 | JULY – DEC | VOL 14 | ISSUE - 1


# COVER LETTER

**Date:** May 2023

To
The Readers, Faculty, Students & Stakeholders

**Subject:** Release of Department Newsletter –
A.Y 2022-23, JULY–DEC, VOL 14, ISSUE-1

It gives us immense pleasure to present the Mechanical Engineering Department Half-Yearly Newsletter for the Academic Year 2022-23 (July–December), Volume 14, Issue–1.

This newsletter showcases the academic achievements, research contributions, innovative practices, co-curricular activities, workshops, industrial interactions, student accomplishments, and various initiatives undertaken by our department during the first half of the academic year.

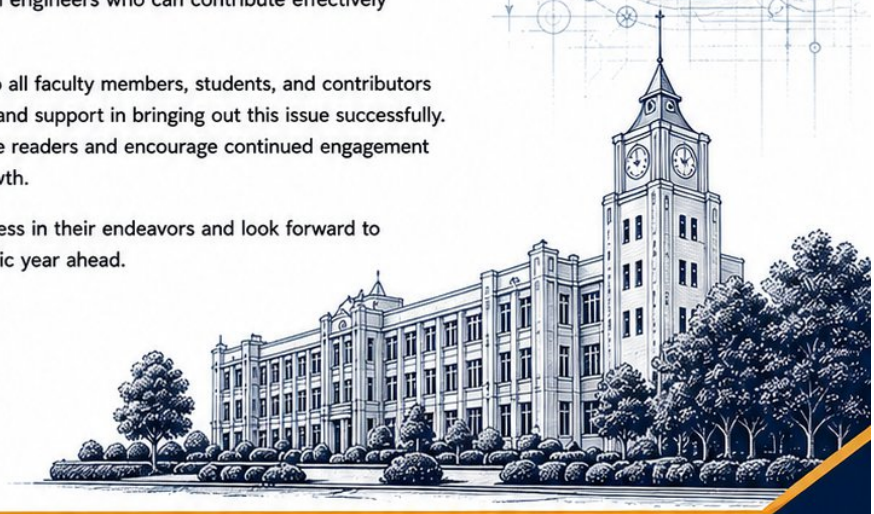
The Department of Mechanical Engineering is committed to imparting quality education, enhancing technical skills, and fostering research and innovation to produce competent and ethical engineers who can contribute effectively to industry and society.

We extend our sincere gratitude to all faculty members, students, and contributors for their enthusiastic participation and support in bringing out this issue successfully. We hope this newsletter will inspire readers and encourage continued engagement in academic and professional growth.

We wish everyone continued success in their endeavors and look forward to a productive and fulfilling academic year ahead.

**With Regards,**


**Prof. B. Srinivas**
Head of the Department
Department of Mechanical Engineering
BVC Engineering College (A)
Odalarevu, Konaseema District,
Andhra Pradesh – 533210

# DEPARTMENT OF MECHANICAL

# A HALF-YEARLY NEWSLETTER

**Academic Year: 2022-23**
**July -Dec**
**Volume: 14**
**Issue - 1**




# BVC ENGINEERING COLLEGE(A)

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# BVC ENGINEERING COLLEGE

## (An autonomous institution)

### Department of Mechanical Engineering

**Vision and Mission of the Institute**

INSTITUTION VISION

To become a leading technical institute of academic excellence by impartinghigh patterns of discipline through innovative programs of global standards making our students Technologically superior and ethically strong to serve the Nation

INSTITUTION MISSION

To create an environment that shall foster the growth of intellectually capable,innovative professionals who can contribute to the growth of Technology in partnership with industry and develop and harness it for the welfare of the Nationand mankind.

**Vision and Mission of the Department**

## VISION:

To provide valuable resources for industry and society through excellence in teaching, learning and research in the field of Mechanical Engineering

## MISSION:

Impart quality education and training to produce successful entrepreneurs and globally competent engineers for meeting the current and future needs of Mechanical and allied Engineering Industries.

- Engage in research and development in cutting edge and sustainable technologies.
- Enhance industrial collaboration and professional ethics to serve the society



**Dr.Bonam krishna satish**

**Chairman**

## Chairman's Message

It gives me immense pleasure to present this edition of the college newsletter. At BVC Engineering College, we are committed to fostering academic excellence, innovation, and ethical values among our students. This newsletter reflects the vibrant activities, achievements, and collective efforts of our students and faculty.

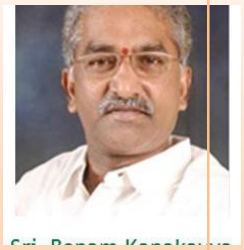
I congratulate the editorial team for their dedication in bringing out this publication and appreciate all contributors for showcasing their talents. Let this serve as a platform to inspire creativity, share knowledge, and celebrate success.

I wish all our students a bright and successful future

## Secretary's Message

I am delighted to share a few words on this occasion of releasing our college newsletter. It is encouraging to see the enthusiasm and creativity of our students and faculty reflected in this publication.Such initiatives not only highlight achievements but also promote knowledge sharing and innovation. I appreciate the efforts of the editorial team and all contributors for their valuable work.

Wishing everyone continued success in all their endeavors.



Sri Bonam kanakayya
Secretary

## Principal's Message

I am pleased to present this edition of our college newsletter, which reflects the dynamic academic environment and achievements of BVC Engineering College. It is inspiring to witness the enthusiasm, creativity, and commitment of our students and faculty in various academic and co-curricular activities.This newsletter serves as a valuable platform for sharing knowledge, ideas, and accomplishments. I appreciate the sincere efforts of the editorial team and contributors in bringing out this publication successfully.I encourage all students to continue striving for excellence and uphold the values of discipline, innovation, and integrity.

Wishing you all a bright and successful future.

**Dr. Chandra Mouli .V.S.M**
Principal
BVC Engineering College

## HOD's Message



It gives me great pleasure to share a few words through this newsletter. The Department of Mechanical Engineering at BVC Engineering College continues to strive for excellence in academics, research, and innovation.This newsletter is a reflection of the hard work, creativity, and technical skills of our students and faculty. It showcases various achievements, activities, and advancements within the department.I appreciate the efforts of the editorial team and contributors for bringing out this wonderful publication. I encourage all students to actively participate in such initiatives and continue to enhance their knowledge and skills.

Wishing everyone success in their future endeavors.

**Prof.B.Srinivas**
Head of the Department
Mechanical Engineering
BVC Engineering College

# Faculty Details:

| Sl.No | Name | Designation | Qualification |
|---|---|---|---|
| 1 | Dr. Chandra Mouli V.S.M | Principal | M.Tech., Ph.D |
| 2 | Prof. B. Srinivas | HOD | Ph.D |
| 3 | Dr. G. Narasa Raju | Professor | Ph.D |
| 4 | Dr.S.Vijay Kumar | Professor | Ph.D |
| 5 | Dr.Y.Sujatha | Professor | Ph.D |
| 6 | Mr. Y.V. Ramana Murty | Assoc. Prof. | M.Tech. |
| 7 | Mr. G. Venkateswara Rao | Assoc. Prof. | M.Tech. |
| 8 | Mr. N. Vasudeva Rao | Assoc. Prof. | M.Tech. |
| 9 | Mr. G. Ganesh | Asst. Professor | M.Tech. |
| 10 | Mr.A.S.V Prasad | Asst. Professor | M.Tech. |
| 11 | Mr. S.S.S. Krishna Kumar | Asst. Professor | M.Tech. |
| 12 | Mr. N. Guru Murthy | Asst. Professor | M.Tech. |
| 13 | Mr.Ganta Raju | Asst. Professor | M.Tech. |
| 14 | Mr.B.Srikanth | Asst. Professor | M.Tech. |
| 15 | Mr.Ch.Vinodh | Asst. Professor | M.Tech. |
| 16 | Mr.Ch.Jaya Teja | Asst. Professor | M.Tech. |
| 17 | Mr. K. Krishna Chaitanya | Asst. Professor | M.Tech. |
| 18 | Mr. Manoj Kumar | Asst. Professor | M.Tech. |
| 19 | Ms.G.Sirisha | Asst. Professor | M.Tech. |

# Faculty publications/Patents/Conferences

**Prof.B.Srinivas**

1.Srikanth Kumari, M Geetha, Bathula Srinivas " Optimizing Tensile Strength and Hardness in Al- based Hybrid Composites via Stir Squeeze technique", 2nd International Conference on Smart Sustainable Materials and Technologies (ICSSMT 2023), Advances in Science, Technology & Innovation, https://doi.org/10.1007/978-3-031-49826-8_2; Springer Book Series (Scopus Indexed)

Bathula Srinivas & Ranga Janardhana, "Effect of strontium modifier on the microstructure, mechanical properties and fractography analysis of as-cast AlSi7Mg0.3 alloy", Advances in Materials and Processing Technologies", Taylor & Francis Publications, ISSN: 0921-5107 / 1873-4944, https://doi.org/10.1080/2374068X.2023.2201534

Bhiksha Gugulothu, P. S. Satheesh Kumar, Bathula Srinivas, Alapati Ramakrishna,and S. Vijayakumar, "Investigating the material removal rate parameters in ECM for Al5086 Alloy-Reinforced Silicon carbide/Flyash hybrid composites by using Minitab 18", ***Journal: Advances in Materials Science and Engineering,*** Hindawi Publishers; **SCI-E Indexed,** Vol.2021, pp.1-6; https://doi.org/10.1155/2021/2079811; ISSN: 1687-8442 (Online)

Dr. Y. Sujatha, Prof. B. Srinivas, "Profile Modification, Validation and Manufacturing of Spur Gear to Increase the Gear Tooth Strength, ***Journal of Shanghai Jiaotong University, Scopus indexed,*** Vol.17, pp.132-142, 2022;

Published an Invention on "3-Axis Actuator", The Patent Office Journal No. 52/2022 Dated 30/12/2022; (Application No. 202241072914 A)

**Mr.Y.V.RAMANA MURTHY**

1."*Fabrication and Characterization of Ly556 Epoxy based Glass fiber and Natural Fiber Composite Materials, Mathematical Statistician and Engineering Applications*" 2022,ISSN: 2094-0343-2326-986**5.**by Y.V.Ramana Murthy

2."*Microstructural and mechanical behaviour of hybrid composite aluminium reinforced withcashew nut shell ash and B4c particulates"*, Dogo Rangsang Research Journal, 2022, ISSN: 2347-7180 by Y.V.Ramana Murthy

` 3."*Optimization of Micro EDM Process parameters on Al7075/CNT Composite using grey relational Analysis"*, Dec 2021, ISSN: 0886-9367.

4."Optimization of Process parameters and selection of cutting tools for hard milling of Aluminium HE 15& HE 30", Nov2021, ISSN(online) 2456-0774

**Mr.G.Narasaraju**

1.Narasa Raju Gosangi, Lingaraju Dumpala, "Influence of nano fly ash on wear behavior of friction stir weld joints of Al6063/nano fly ash composites", *International conference on research and advances in mechanical engineering*

## FACULTY DEVELOPMENT PROGRAMME/WORKSHOPS ATTENDED

### Mr.Y.V.RAMANA MURTHY

1) Attended National Workshop on "Socially Relevant Technical Education-Exploring Cooperation Oriented Actions" between 6th & 7th December 2022 at NITTR, Chennai organized by IIIT Sri City & NITTR Chennai.
2) Attended One day National workshop on "Advances in Mechanical Engineering" at Andhra University, Visakhapatnam on 11th JUNE 2022.

### Dr.G.NARASARAJU

1. Participated in FDP on "Advancements in manufacturing and welding", from 17th to 22nd June 2022, organized by JNTUK, Kakinada, E.G.Dt, A.P, India.
2. Participated in FDP on "Advances in materials and manufacturing processes", from 29th to 03rd October 2022, organized by JNTUK, Kakinada, E.G.Dt, A.P, India.

### Mr.G.VENKATESWARA RAO

1.Certified in NPTEL online course on " IC Engines and Gas Turbines " during Jul-Sep 2022 conducted by IIT Guwhati.

2.FDP in NPTEL-AICTE online course on " IC Engines and Gas Turbines " during August 2022conducted by IIT Guwhati.

### Mr.GANESH GUBBALA

1. Certified in NPTEL online course on " Engineering Graphics and Design " during July-Oct 2022 conducted by IIT Madras.

2.Certified in NPTEL-AICTE online course on "Advanced Machining Processes " during Aug-Oct 2022 conducted by IIT Guwahati.

### Mr.GURUMURTHY NATHI

1.Certified in NPTEL online course on " Engineering Graphics and Design " during July-Oct 2022 conducted by IIT Madras.

2.Certified in NPTEL-AICTE online course on "Advanced Machining Processes " during Aug-Oct 2022 conducted by IIT Guwahati.

BVC GROUP
Pioneers
in
Engineering Education

# BONAM VENKATA CHALAMAYYA ENGINEERING COLLEGE
(Autonomous)
ODALAREVU


Dr B V Rajesh



## INVITATION



# ACHIEVERS' DAY 2022

We Cordially Invite All the Student Achievers of our first **Autonomous Batch** (2022 Passing Out) and their Parents to grace the joyful moments and accept our **Felicitation** on the Occassion of their Achievement in Placements in this **Silver Jubilee Year**

On **SUNDAY**

**June 12th 2022**

**10:00 am To 4:00 pm**

**Venue: Mokshagundam Visvesvaraya Auditorium**

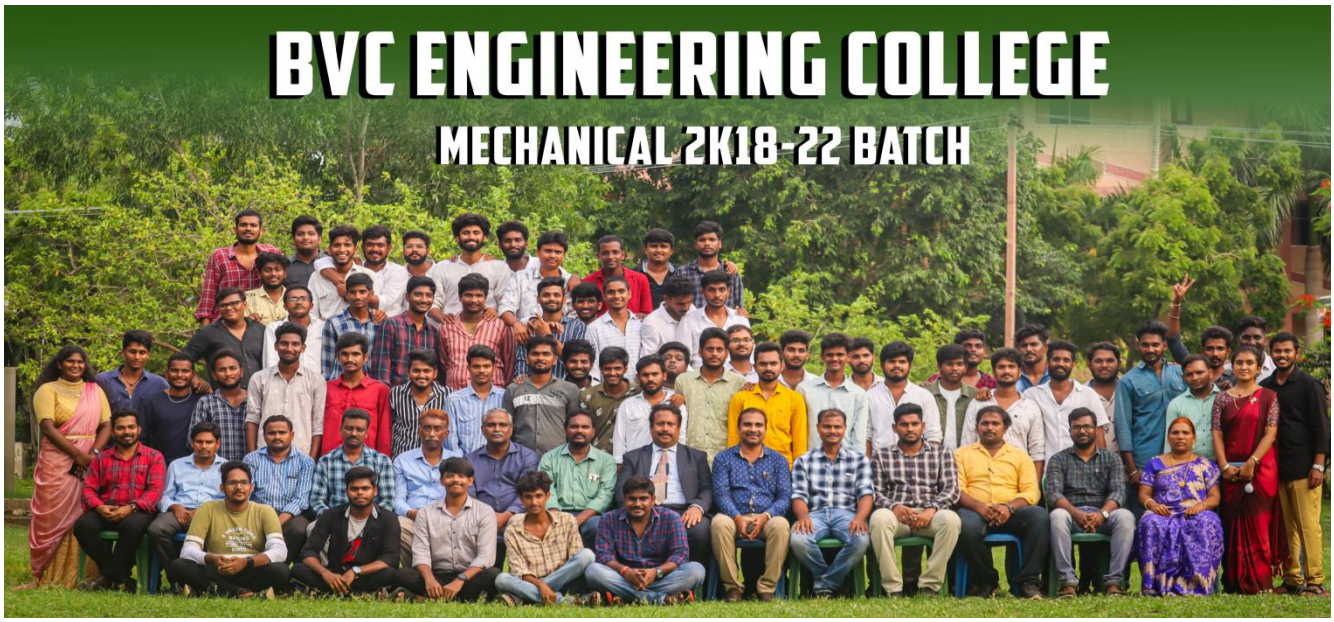
**Guests of Honor**

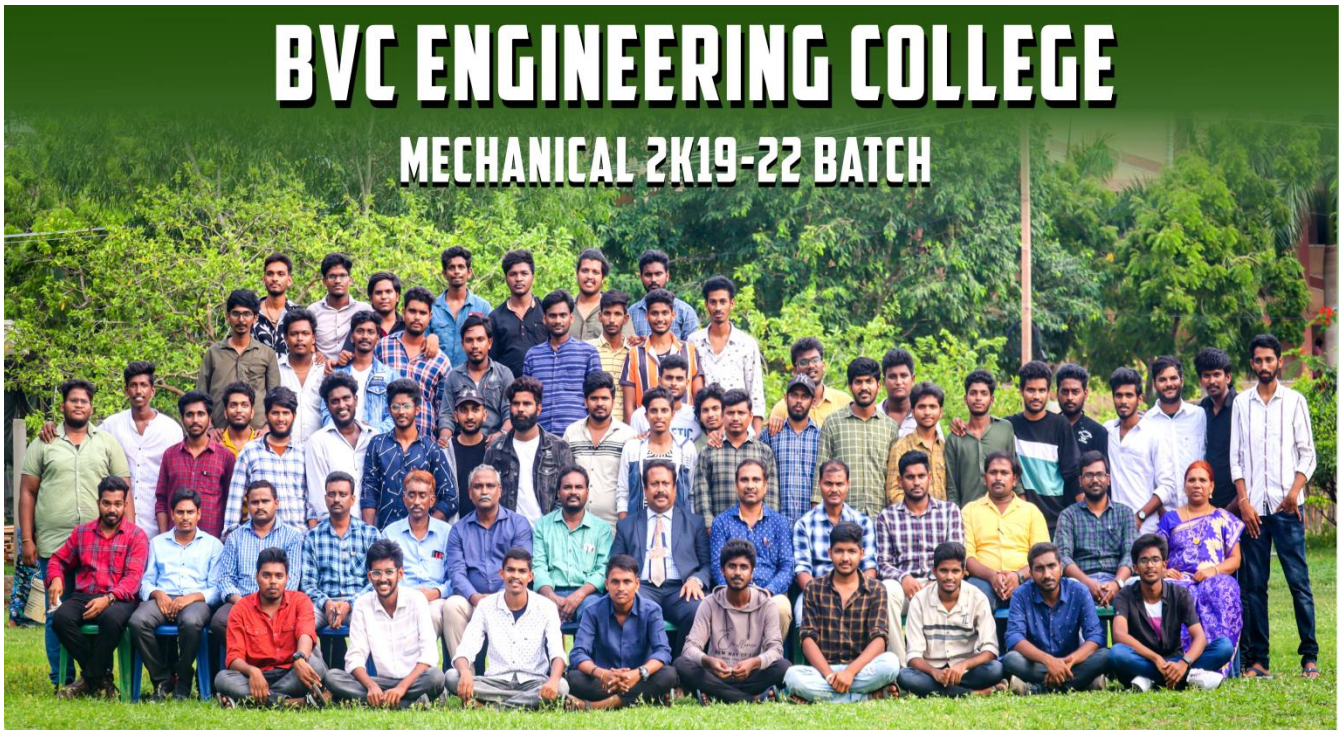
**Sri Bonam Krishna Satish**
Chairman
BVC Group of institutions

**Sri Bonam Kanakayya**
Secretary
BVC Group of institutions

**In the Presence of**

Principal, Dean, HODs, Head Corporate Relations,
Training and Placement Officer & Staff


BVC ENGINEERING COLLEGE
MECHANICAL 2K18-22 BATCH


BVC ENGINEERING COLLEGE
MECHANICAL 2K19-22 BATCH

## Dept of Mechanical Events Organized :

Program1: One week skill improvement program on " **BUILDING INFORMATION MODELING USING REVIT-MEP" conducted during 19th-24th Dec 2022**








CERTIFICATE OF APPRECIATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

*Kotum Prasanth*

Who has particiapated in the One week Skill improvement Program on "BUILDING INFORMATION MODELLING USING REVIT-MEP" conducted during 19th - 24th December 2022 at B V C Engineering college ,Odalarevu.

26th Dec 2022
Date

Head of Training and Develpoment
Vmould Design consultants



CERTIFICATE OF APPRECIATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

*Achanta Tarun*

Who has particiapated in the One week Skill improvement Program on "BUILDING INFORMATION MODELLING USING REVIT-MEP" conducted during 19th - 24th December 2022 at B V C Engineering college ,Odalarevu.

26th Dec 2022
Date

Head of Training and Develpoment
Vmould Design consultants

Program2 : 12-08- 2022 One week skill improvement programme on " Mechanical Componets DRAFTING by AutoCAD"-APSSDC




Program 3 :16-05- 2022 Career Opportunities for Mechanical Engineering Graduates




**ProgProgram 4:**Mechanical Engineering Students are hosting a "Freshers' Day Party" to their

juniors on 28th November 2022






**Program 5:** Advance Certification on Emerging Technologies



# Editorial Board

## Faculty Coordinator

**Mr.G.Narasaraju**

**Assistant Professor**

## Students Editors

A.Vamsi 19221A0302

Kunche Tarun 20221A0326

Ch.Siddarth 20221A0305

***Prepared by***

***The Department of Mechanical Engineering, BVC Engineering College (A)***

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