

# MECH VAARTHA

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**A QUARTERLY NEWSLETTER OF JULY-SEPTEMBER 2023**



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**DEPARTMENT OF  
MECHANICAL ENGINEERING**

**Bapatla Engineering College, Bapatla**  
**522102, Andhra Pradesh, India.**

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Bapatla Engineering College::Bapatla  
(AUTONOMOUS)  
DEPARTMENT OF MECHANICAL ENGINEERING

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### Vision of the Department

"To become a center of Excellence in producing the graduates as professional Mechanical Engineers with a high-quality education, innovative and entrepreneurial skills to secure the society and industry needs".

### Mission of the Department

- To impart high-quality education in curriculum and to build the students in their capacity and enhancing skills to make them globally competitive Mechanical Engineers.
- To prepare the students by providing exceptional academic environment, leadership, ethical guidelines and lifelong learning needed for a long professional career.
- To enhance the overall academic performance of the students gradually and thereby increasing their placement potential.
- To build the institute-industry interaction by providing the internship programs

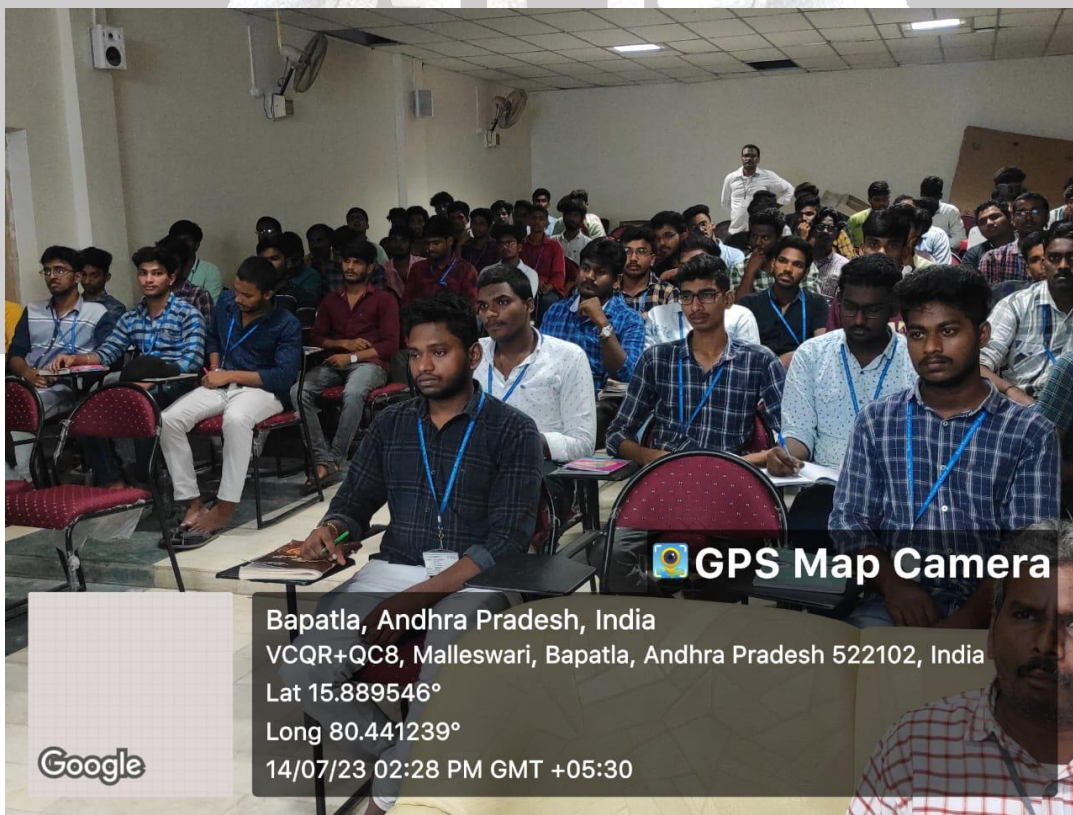
### Events organized by the department:

- Organized a guest lecture on “**Powder Metallurgy: Introduction, developments and applications**” on 14-07-2023.
- A Three Day workshop on “ **Applications and Importance of NDT in various industries**” during 07, July, 2023, to 09 July, 2023
- Organized a five day workshop on “3D Printing and its Applications in Mechanical Engineering” from 19<sup>th</sup> September to 23<sup>rd</sup> September 2023.
- The Andhra University has awarded a doctoral degree to D. Vijay Praveen, Assistant Professor of ME.
- Held an orientation session for lateral entry students on September 14, 2023.





A Three Day workshop on “ Applications and Importance of NDT in various industries” during 07, July, 2023, to 09 July, 2023



Organized a guest lecture on “Powder Metallurgy: Introduction, developments and applications” on 14-07-2023



**Teacher's day was celebrated on 5<sup>th</sup> September 2023**

### **Department of Mechanical Engineering (Jul-Sept 2023) data for Newsletter**

#### **Journal papers**

1. Sai Chand Kundurti, Venkat Sai Aditya Mocherla, Ambuj Sharma, B. Ratna Sunil, Sunkulp Goel, Design and Development of Novel AA7075-T6 based Armor Plate through Numerical and Experimental Approach, *Journal of Mines, Metals and Fuels*, 71(9) Sept (2023) 1271-1285
2. P.Umamaheswarrao, D.Vijay Praveen, "Multi-objective optimization of process parameters during friction stir welding of similar AA6061 using MOORA", *Incas Bulletin*, Volume 15, Issue 3, pp. 127-137, 2023. DOI: 10.13111/2066-8201.2023.15.3.10
3. P.Umamaheswarrao, KNS Suman, D.Ranga Raju, Multi objective optimization of process parameters in hard turning of AISI 52100 steel with surface irregularities using GRA-PCA, *Engineering Research Express*, Vol.5, 045010, 2023. <https://doi.org/10.1088/2631-8695/acfc17>

#### **Conferences attended:**

P. Umamaheswarrao participated in International Conference on Functional Nanomaterials and Nanodevices (ICFNN 2023) organized by Faculty of Allied health sciences, Chettinad academy of research and education, Kelambakkam, Chennai on 26 Sep 2023.

#### **WORKSHOPS/SEMINARS/CONFERENCES ATTENDED BY THE FACULTY OF MECHANICAL ENGINEERING DEPARTMENT:**

Name of the Event	Title	Faculty Name	Organizers
Workshop	One week national e-workshop on innovation and intellectual property rights	SALKAPURAM VIJAY	CSIR, Institute of Minerals and Materials Technology, Bhubaneswar-751013
FDP	Five Day online Faculty Development Programme (FDP) on “Future Scopes for Additive Manufacturing in Industrial and Biomedical Applications”	Dr. B. IFTEKHAR HUSSAIN	Aditya Engineering College (A), Surampalem, A.P.
Seminar	Online guest lecture on "Introduction to Intellectual Property Rights and Patent Filing Procedure"	Dr. B. IFTEKHAR HUSSAIN	Institution Innovation Council, CK College of Engineering and Technology, Cuddalore - 607 003, Tamil Nadu.
FDP	Five day faculty orientation program on “ C Programming”	Dr. B. IFTEKHAR HUSSAIN	Bapatla Engineering College (A), Bapatla, A.P.
Webinar	IP Awareness/Training program under "National Intellectual Property Awareness Mission (NIPAM)”	Dr. B. IFTEKHAR HUSSAIN	Intellectual Property Office, India
Webinar	DELNET-IIT Delhi Webinar "Best Practices for Improving NIRF Ranking"	Dr. B. IFTEKHAR HUSSAIN	IIT DELHI