

<<SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY>>



MECH VIBES NEWS LETTER

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DEPARTMENT VISION, MISSION, PEOs & PSOs

DEPARTMENT VISION

To become a global knowledge hub of mechanical engineering fulfilling the industry and society needs with ethical practices.

DEPARTMENT MISSION

DM1: Provide quality education for global requirements.

DM2: Improve pedagogical methods employed in delivering the academic programmes.

DM3: Enhance the knowledge, skill by industry- institution interaction

DM4: Cultivate the spirit of entrepreneurship with the sense of ethical, professional responsibility.

PROGRAM EDUCATIONAL OBJECTIVES (PEO's)

Graduates of Mechanical Engineering will be able to

PEO1: Get good job opportunities or pursue higher studies

PEO2: Exercise latest techniques to get solutions to industrial/engineering problems.

PEO3: Gain the knowledge of other fields of engineering continuously to grab more opportunities

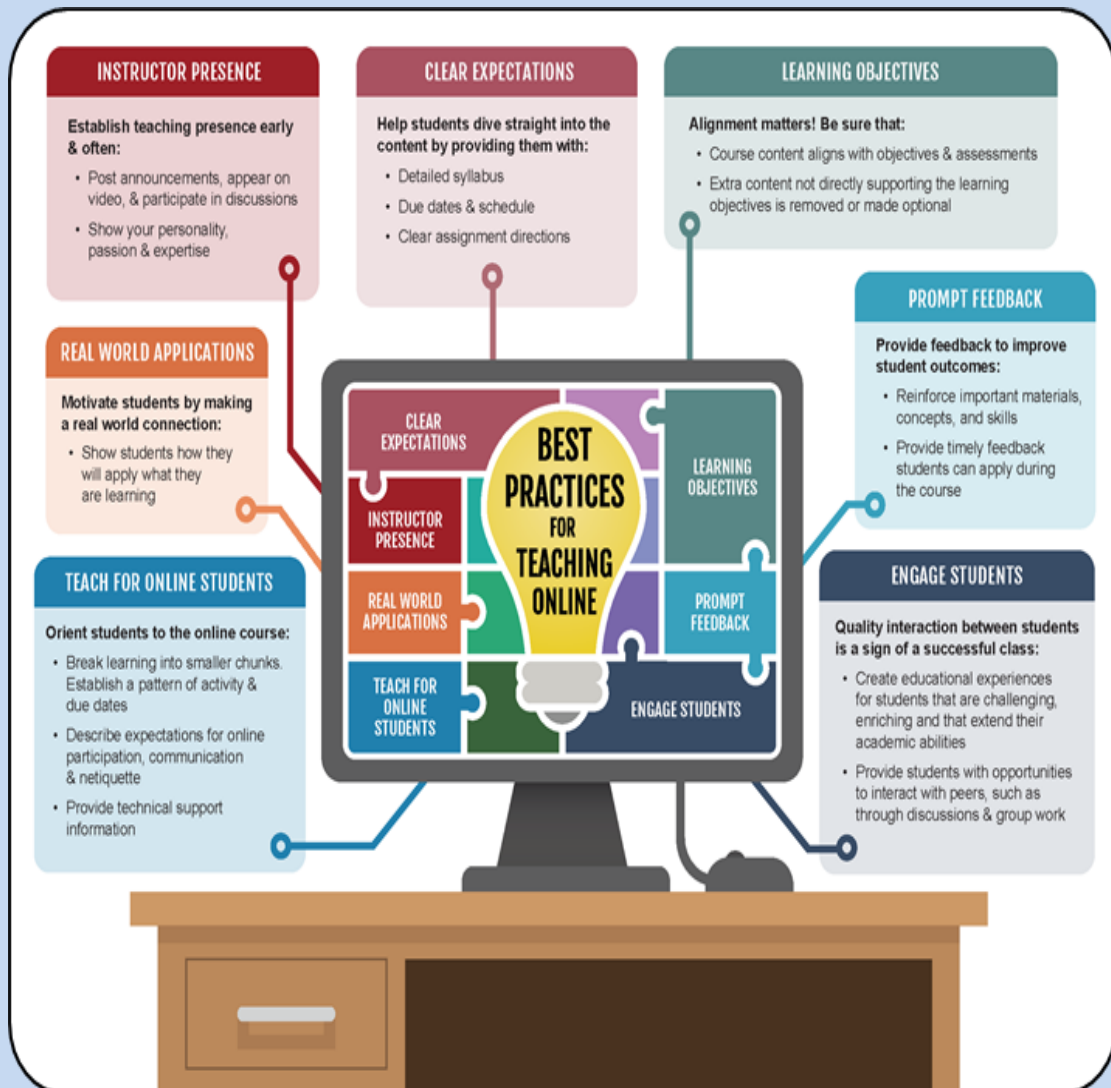
PEO4: Establish as entrepreneurs with continuously learning, professionalism, managerial skills, social responsibilities and ethical practices.

PROGRAM SPECIFIC OUTCOMES (PSO's)

PSO1. **SKILLS FOR SUCCESSFUL CAREER:** Able to apply engineering knowledge to get through the competitive examinations for employment/higher studies.

PSO2. **PROBLEM SOLVING SKILLS:** Exercise latest techniques, innovative methods and multi disciplinary knowledge in solving engineering problems of industry and serve the society

Online Teaching Methodology



- The economic recession, layoffs, lockdown measures, and the risk of illness caused by COVID-19 make self-employed, remote jobs like online teaching very attractive.
- Online teaching is the process of educating others via the internet. Various methods can be used, such as one-on-one video calls, group video calls, and webinars.
- This is because interactions with students will take place through messaging platforms, email, and video calls. Also, many online teachers need to create digital resources to share with their students, such as PowerPoint presentations, videos, audio lectures, and pdf guides.

Bio Medical Engineering



The biomedical and mechanical engineering program integrates life sciences with the traditional mechanical engineering topics of solid mechanics, dynamics, fluid mechanics, thermodynamics, heat transfer, materials, robotics and control systems to analyze and solve problems related to biomechanical engineering, biotechnology and medicine.

The program provides students with a skill set that enables the development of advanced components, systems and techniques for biomechanical applications that are crucial to modern health care.

The curriculum is designed with an emphasis on the development of practical and problem-solving skills based on hands-on laboratory and design work.

Biomedical Engineers: The hidden heroes of the COVID-19 crisis!

With the hugely increased demand for ventilators and other equipment over the last few weeks, we've seen the important role that medical technology plays in patient care. Many people working in engineering have responded to the on-going crisis by adapting their existing skills and equipment to help fight COVID-19.

The role of a Biomedical Engineer includes designing biomedical equipment and devices to aid the recovery or improve the health of individuals. This can include internal devices, such as stents or artificial organs, or external devices, such as braces and supports (orthotics). It can also include creating and adapting medical equipment. It's a role that requires excellent knowledge of computing, biology and engineering, an inventive nature, and good problem solving skills.

Biomedical Engineers from a range of industry backgrounds have been putting their normal tasks to one side to build ventilators and PPE (personal protection equipment) to help the NHS care for the increasing numbers of patients in Intensive Care Units with COVID-19.

One of the many processes used in manufacturing is 3D printing. This is a useful tool for engineers, as it allows them to make copies of precise items several times over. In response to the COVID-19 outbreak, many small companies or individuals with access to 3D printers are doing their part to produce additional face masks and visors for healthcare workers, and those working in close proximity to other people.

FDPs Attended by Faculty

Heartfelt Congratulations to Our Faculty Members for Their Active Participation in FDPs

We take immense pride in acknowledging the commitment and enthusiasm demonstrated by our esteemed faculty members who have actively participated in various **Faculty Development Programmes (FDPs)** organized by reputed institutions across the country.

Your dedication to enhancing academic knowledge, pedagogical skills, and research insights reflects your continuous pursuit of excellence in teaching and learning. Participation in such programs not only contributes to personal academic growth but also enriches our institution with fresh perspectives and innovative approaches.

S.No	Name of the Faculty	Institution/Organization	Name of the Topic	Date
1	Dr.D.Raja Ramesh	QIS College Of Engineering And Technology	Multi Objective Optimization For Mechanical Engineering	08.06.2020 to 12.06.2020
2	Dr.D.Raja Ramesh	QIS College Of Engineering And Technology	Refrigerants Progression- Environmental Concerns	01.06.2020 to 05.06.2020
3	Dr.D.Raja Ramesh	Swarnandhra College Of Engineering & Technology	Real Time Applications Of Cad/Cam & Systems Engineering In Industry	05.06.2020 to 07.06.2020
4	K. Ravi	Prasad V. Potluri Siddhartha Institute Of Technology	Recent Developments In Mechanical Engineering	10.08.2020 to 14.08.2020
5	K.Sukumar	Prasad V. Potluri Siddhartha Institute Of Technology	Recent Developments In Mechanical Engineering	10.08.2020 to 14.08.2020
6	K.Sukumar	Vardhaman College of Engineering, Hyderabad	Research Among Youth 2020	28.05.2020 to 03.06.2020
7	Ch.Anusha	Aditya Institute Of Technology & Management, Tekkali	Advance manufacturing enterprise in digital era	01.06.2020 to 05.06.2020
8	P. Bhargava Kumar	Saraswathi Institute Of Technology, Maharastra	The Effective Techniques Of Teaching And Ecommerce	01.06.2020 to 05.06.2020
9	P. Bhargava Kumar	QIS College Of Engineering	Refrigerants Progression-	01.06.2020

		And Technology, Andhra Pradesh	Environmental Concerns	to 05.06.2020
10	P. Bhargava Kumar	QIS College Of Engineering And Technology, Andhra Pradesh	Multi Objective Optimization For Mechanical Engineering	08.06.2020 to 12.06.2020
11	P. Bhargava Kumar	Swarnandhra College Of Engineering & Technology	Real Time Applications Of Cad/Cam & Systems Engineering In Industry	05.06.2020 to 07.06.2020
12	P. Bhargava Kumar	Pani Malar Institute of Technology	Renewable energy systems	08.06.2020 to 12.06.2020
13	P. Bhargava Kumar	Gudlalleru engineering college, Gudlalleru	Research Trends In Mechanical Engineering	15.06.2020 to 20.06.2020
14	P. Bhargava Kumar	Hyderabad institute of technology and management	Advancements in Science and its applications in engineering	22.06.2020 to 26.06.2020
15	P. Bhargava Kumar	CMR Technical Campus, Hyderabad	Emerging Research Areas In Mechanical Engineering	29.06.2020 to 03.07.2020
16	P. Bhargava Kumar	Prasad V. Potluri Siddhartha Institute Of Technology	Recent Developments In Mechanical Engineering	10.08.2020 to 14.08.2020
17	M.Sujan Kumar	St. Anns College Of Enginnering And Technology	Advances In Composite Materials And Manufacturing Process	22.06.2020 to 26.06.2020
18	M.Sujan Kumar	Vishnu Institute Of Technology	Recent Research Development In Materials Engineering And Mechanical Design	21.07.2020 to 25.07.2020
19	N.Jahnavi Chandrika	Department Of Chemistry Anurag University	Sustainable Development With Green Technologies: Precovid, Covid And Post covid	11.06.2020 to 13.06.2020

Faculty Publications

S.No	Name Of The Faculty	Title Of The Paper	Indexing
1	P.Vijaya Kanth	A numerical simulation for prediction of thermal ablation in composite rocket motor casing	Scopus
2	S. Venkata Reddy	Demand forecasting – Using Simulation for SCM Environment	Scopus
3	P.Bhargava Kumar	Performance evaluation of mini channel heat sink using different nano fluids	Scopus

We extend our heartfelt congratulations to our distinguished faculty members for their **noteworthy contributions to research and academic publishing**. Their recent publications in reputed **Scopus-indexed journals** reflect a strong commitment to academic excellence, innovation, and knowledge dissemination.

We proudly acknowledge the following faculty members:

- **Mr. P. Vijaya Kanth** for his publication titled "*A Numerical Simulation for Prediction of Thermal Ablation in Composite Rocket Motor Casing*" in the **International Journal of Computational Material Science and Engineering (IJCMSE)**, Volume 9, Issue 4, pages 2050020-1 to 2050020-15, ISSN 2047-6841, **December 2020**.
- **Mr. S. Venkata Reddy** for his article "*Demand Forecasting – Using Simulation for SCM Environment*" published in **International Journal of Innovative Technology and Exploring Engineering (IJITEE)**, Volume 9, Issue 8, ISSN 2278-3075, **June 2020**.
- **Mr. P. Bhargava Kumar** for his research work titled "*Performance Evaluation of Mini Channel Heat Sink Using Different Nanofluids*" in the **International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)**, Volume 10 (Special Issue), **August 2020**, ISSN 2249-6890.

Publishing in **Scopus-indexed journals** is a significant achievement that enhances the research profile of both the individual and the institution. We commend your efforts and encourage continued pursuit of impactful and high-quality research.

Once again, congratulations on your scholarly accomplishments!

MOTIVATIONAL QUOTE

- HOWEVER PROFOUND IT IS, EVERYTHING THAT COMES FROM `MEMORY SPELLS KARMIC BONDAGE.
- PURE INTELLIGENCE CREATES MEMORY OUT OF ITSELF; THE REST OF CREATION PROJECTS MEMORY AS INTELLIGENCE.



.....*Empowering Minds*

