



JAIN UNIVERSITY

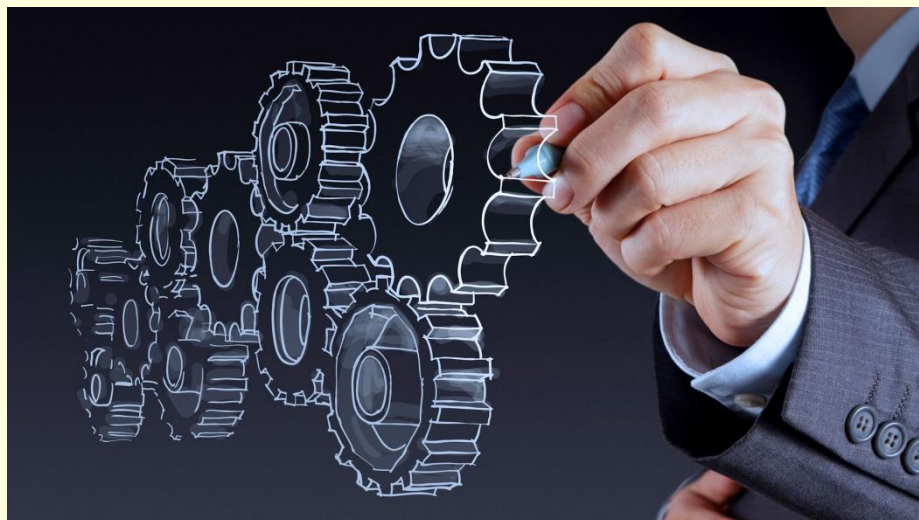
Declared as Deemed-to-be University u/s 3 of the UGC Act 1956

SCHOOL OF ENGINEERING AND TECHNOLOGY

MECHANICAL ENGINEERING JNANA VITHAHA

July-Dec 2017

News bulletin Issue 1; Volume 3.



DIRECTOR'S MESSAGE

I am happy that school of Engineering and Technology (SET), Jain University is bringing out a Newsletter. The college newsletter will definitely help to show case the activities that are happening in the campus. It also helps in building up team work which is very much needed today in the world of competition. It provides a platform for exposing the merits and academic achievements of the faculty as well as students. This enhances the documentation culture of the institute. This would definitely create an impact in the minds of readers, by way of providing larger visibility and dimension to the campus all credits and thanks go to the dedicated staff and their team work.



Dr. S A Harlprasad

FROM THE DESK OF HOD



Our aim is to be a centre of excellence in the field of Mechanical Engineering, where the best of teaching, learning and research synergize. The department offers B.Tech. in Mechanical Engineering with an annual intake of 60 students, & M.Tech in Thermal Engineering. Our department is engaged in the student-centered teaching with an emphasis on OBE (Outcome Based Education) frame work. The Mechanical Engineering branch was started in the academic year 2005. All the laboratories have been established procuring state of the art equipment's. The department has a team of talented and well qualified staff members, with a blend of industrial and academic experience. Faculty members with Master's and Doctorate degree qualification having specialization in Machine Design, Thermal engineering, Product Design and Maintenance Engineering are rendering their service to academics.

Dr. A Ramprasad
Professor,
Head, Mechanical Engineering

VISION

- To impart quality education in the field of mechanical engineering that empowers graduates to be innovative, entrepreneurial, ethical, and successful and cater to the growing industrial and societal demands.

MISSION

- To educate, prepare, and mentor students to excel as modern society professionals through outcome-based education and innovative teaching processes.
- To provide a conducive environment leading to diverse careers as well as research that solves societal and industrial problems with engineering and technology.
- To encourage the students to pursue higher education to acquire entrepreneurial skills through academic and scholarly activities.
- To inculcate strong ethical values and professionalism to serve society with responsibility.

Program Educational Objective (PEOs)

Student graduating from the program will be able to

- PEO 1: Have successful careers in the mechanical and allied industries by demonstrating their skills in facing the challenges forced by industrial and research sectors.
- PEO 2: Work in teams discharging social responsibilities as engineers following ethical practices.
- PEO 3: Engage in entrepreneurial and professional society activities to meet the needs of society.
- PEO 4: Expand their technical competence by developing their knowledge, skills, and engaging themselves in learning activities throughout their life.

Program Specific Outcomes (PEOs)

- PSO 1: Our graduates will be able to apply knowledge of design, thermal, materials, and manufacturing to solve complex problems in mechanical engineering and allied areas.
- PSO 2: Our graduates will create and implement new ideas on product/process design and development with the help of modern CAD/CAM/CAE tools while ensuring best engineering practices.

About the Department

The Department of Mechanical Engineering was established in the year 2005. A faculty of repute, excellent faculty and good student community has all contributed to make the department vibrant and strive hard to achieve excellence in the areas of academics and research. It has procured state-of-art equipment to inculcate aptitude for research in young faculty and students. Faculty are pro-actively involved in R&D and have published and presented numerous papers in national & international journals and conferences. Laboratories in emerging areas like CAD/CAM, ANSYS have already been set up. In addition to this the department has full-fledged workshop which is spread over many basic and advanced shops. The workshop of the department is fully equipped with modern machines tools, equipment's and measuring instruments

The department has faculty who are alumni of international institutes such as NTU Singapore; University of Michigan, USA. Students take on projects during their pre-final year itself and regularly go on internships during their semester holidays all of which help them keep abreast with current industry trends and technologies

ACADEMICS

Bachelor of Technology Program: The 4-years, B.Tech programme structure such as foundation, core discipline, perspective, skill, Elective-core discipline, Elective open choice and practice school. Students are required to take a certain number of credit units from each of the categories.

M.Tech Program: Over the first two semesters, M.Tech students are required to do substantial amount of course work to complement their undergraduate or masters level education. the third semester is devoted mostly to internships and projects although there are some courses to be taken during that period. The fourth semester is fully devoted to completion of the project. The curriculum has been designed to provide all students with general background in Thermal Engineering. Electives taken during the second and third semester provide specialized knowledge in the area of individual interest.

Ph.D. Program: The focus of the PhD. programme is a multi-disciplinarily and sustainability, linkage engineering, Technology, management, science, social science and education pedagogy based societal challenges, specifically with an aim to deliver inclusive innovation. The uniqueness of the SET, JU would be the opportunity to excel in research supported with eminent publications and patenting.

Department Faculties

Sl. No.	Name	Designation
1	Dr. S C Sharma	Distinguished Professor and Advisor-JGI
3	Dr. Adarsha H	Associate Professor & Head
4	Prof. Ravinarayan V	Associate Professor
5	Dr. Venkadeshwaran	Associate Professor
6	Dr. Sunil Bhat	Associate Professor
7	Prof. Gantasala Sreenivasulu	Assistant Professor
8	Prof. Ravishankar S	Assistant Professor
9	Prof. P. S. Raghavendra Rao	Assistant Professor
10	Prof. Arun Kumar D T	Assistant Professor
11	Prof. Nagaraj Patil	Assistant Professor
12	Prof. Sandeep V	Assistant Professor
13	Prof. Ramesh S	Assistant Professor
14	Prof. Karthik N	Assistant Professor
15	Prof. Kaushik V Prasad	Assistant Professor
16	Prof. G V Pradeep	Assistant Professor
17	Prof. Ranganatha Swamy MK	Assistant Professor
18	Prof. Manjunath I B	Assistant Professor
19	Prof. Vinod	Teaching Assistant
20	Dr. Alok Kumar Rohit	Assistant Professor
21	Dr. M K Aravindan	Assistant Professor
22	Dr. Ashutosh Pattanaik	Assistant Professor
23	Dr. Prashanthakumar H G	Assistant Professor
24	Prof. Abhijeeth Nagaraj	Teaching Assistant

Department Technical Staffs

Sl. No.	Name	Designation
1	Mr. Srinivasa.K	Superintendent
1	Mrs. Mamatha Rao	Office Assistant
3	Mr. Ramesh Naik H R	Attender
4	Mr. Srinivasamurthy R V	Attender
5	Mr. Devendrappa	Instructor
6	Mr. Prasanna	Instructor
7	Mr. Siddaraju S	Instructor
8	Mr. Vijaya Kumar	Lab Assistant
9	Mr. Tejas	Lab Assistant
10	Mr. Karthik T	Instructor
11	Mr. Manjunath Rao V	Instructor
12	Mr. Guru Raghavendra D	Instructor

Faculty Achievements

Dr. Adarsha.H submitted the proposal titled “Grey Relational Optimization Technique of Process Parameters for Deposition of Composite Coatings using HVOF Technique on A 36 Steels” to VGST on 31st Oct-2017.

Dr Karthikeyan Palani, Dr A Ramprasad, and Dr S.C Sharma submitted the proposal titled “Numerical modeling of plasma refining process for silicon wafer recycling” to Science and Engg. Board Govt.India, New Delhi.



Prof Ramesh Batkurki submitted the proposal titled “Awareness on green technology to avoid effects on environment automobiles and focusing on utilization of renewable energy” to VGST.



Prof. Kausik V. Prasad published a paper titled “Simulation of Dual Microstructure Heat Treatment Process and Residual Stresses in Gas Turbine Disc by Deform HT Software” in the Journal of Materials & Metallurgical Engineering, ISSN (P): 2249-6890; ISSN (E): 2249-8001, Vol.7, 30-42, 2017.

Prof. Kausik V Prasad published a paper titled, “Grey Relational Optimization of Turning Parameters in Dry Machining of Austenitic Stainless Steel Using Zr Based Coated Tools”, ISSN Online: 2165-3925, ISSN Print: 2165-3917, July 2017.

Prof. Harishanand K. et.al published a paper titled “Entrepreneurial aspects of Nano-technology in developing countries” in the International Journal of Business Management & Research (IJBMR), ISSN(P): 2249-6920; ISSN(E): 2249-8036, Vol. 7, Issue 2, 43-48, April 2017.

Prof. Adarsha.H, et.al published a paper titled “Development of electromagnetic engine for future transport applications, (IJMPERD), ISSN (P): 2249-6890; ISSN (E): 2249-8001, Vol. 7, Issue 2, 145-154, Apr, 2017.

Dr. Adarsha H et al published a paper titled “Information and Communication Technology and its Brunt on Learning Objectives, (IJLTEMAS), ISSN: 2278-2540, Volume VI, Issue VS, May 2017.

Prof. Ranganatha Swamy M K, published a paper titled “Shape memory polymers Synthesized for Controllable Switching temperatures” Materials Today; Proceedings 4, 11148-11153, 2017.

Student achievements

Himanshu Asawa (VII sem), Jaison C.V. (M.Tech Ist sem), Krishnan mahadevan (V sem), Prateek Ghorawat (Ist sem), Santosh Panda (VII sem) all participated in the tournament of badminton held on 20 Sept to 26 Oct. 2017.



SET-JU winner of Badminton championship

Dipesh thapa belongs to (VII sem), Sarath Ravindranath (III sem), Tony Rosset (V sem) & Yashaswi Khandelwal (VII sem) all participated in the tournament of football held on 13 Aug to 26 Oct. 2017.



SET, Jain University college cricket team won runners in Reva Cricket tournament organized by Reva University from 30th to 4th April 2017.

SET-JU cricket team won runners up in REVAMP-17

Chandrashekar Reddy (VII sem) & Jaideep C.H. (VII sem) participated in the tournament of Kabaddi held in between 11 to 26 Oct. 2017

Kunal K. (IIIsem), Raghu (V sem) & Shreyas (V sem) all participated in the tournament of volley ball held in between 13 Aug. to 31 Oct. 2017.



Viswanth Kolavennu our student from 4th semester mechanical awarded 2nd place in American society of Mechanical Engineers (ASME) Quiz Competition



Athletics W, Kumari Rachana H K VIII Sem AE bagged 3 Silver Medals in 1500 mtrs , 800 mtrs, and Javelin throw, MIT Manipal All India Inter-Engg Tournament REVELS 17 held at MIT Manipal on 8th to 11th march- 2017.

SET-JU volleyball team won 1st prize in state level inter-engineering collegiate SAI LEO THROPHY 17 organised by Sai Ram college of Engg on 3rd and 4th May 2017.

Semester Toppers

Sl.No	Semester	Toppers	%age
1	3rd	Kolavennu Viswanath	94.86
2	5th	Infant Roshan	90.29
3	7th	Nikitha Nair	91.56

Department Events

Skill Development Program

Two days **Skill Development Program** on “**Solar Vehicle Design and Development**” associated with **Imperial Society of Innovative Engineers** organized by Dept. of Mechanical Engineering SET-JU on 11th -12th November, 2017.



Students Participation in SDP

Faculty Development Program

A two days **Faculty Development Program** on “**Faculty Orientation and Training**” organized by SET-JU on 22/09/2017. Prof. Shiva Prasad, Prof. Vinod, Prof. Ramesh Batakurki, Prof. Alok Kumar Rohit, Prof. Kausik V Prasad, Prof. Ranganatha Swamy, Prof. Ramesh S, Prof. Adarsha, Prof. Pradeep, Prof. Karthik N and Prof. Karthikeyan P attended the FDP program. The objective of the program is to provide new faculty with in-depth information about the multiple resources that are available on campus to support their teaching service and research; to provide new faculty with a faculty mentor who facilitates segments of the orientation process; and to provide opportunities for experienced faculty to learn about new programs and become mentors to new faculty.

MARGADARSHAN

MARGADARSHAN, Parents –teachers meet was organized by Dept. of mechanical engineering heldat SET-JU on 23rd September, 2017.



More than 40 parents participated in the event, Dr. Adarsh, Associate Professor of Mechanical Engineering department, welcome the gathering. Dr. A Ramprasad Prof & HOD addressed the parents with an over view of the Mechanical Dept covering the strategic goals of the department, progress of the department. The topics like CBCS, students centered learning and the role of teachers and parents was discussed in length. Students of the mechanical department who have excelled in research and publications also presented their topics.



Brainstorming on Research Techniques



Department of Mechanical Engineering organized a **BRAINSTORMING SESSION ON RESEARCH Techniques** for M.Tech students (EMCCT and Thermal Engineering) on 27th Sep-2017.

Brainstorming Session from Prog. Kaushik VPrasad

Blood Donation Camp

Blood Donation Camp Organized by SET-JU.

SET-JU Students participated in Blood donation camp. Both staff and students are participated in annual blood donation camp on 27th September, 2017.



MOU's

MOU between Mechanical Engineering Department, SET and Indian Machine Tool Manufacturer's Association (IMTMA)



Department of Mechanical Engineering has entered into a Memorandum of Understanding with Indian Machine Tool Manufacturer's Association (IMTMA) on 17th November 2017.

The highlight of the event is about the Finishing School Programme on Production Engineering for two weeks at IMTMA campus. The purpose programme is to make final year students to get ready for industry. The students will have an a hands on experience in the areas like, process planning, CNC machining, measurement & quality control and CNC& CAD/CAM programming. Industry visits will be arranged for major machine tool manufacturing industries, followed by project work and weekly evaluation tests and assignments.

Patents Filed by the Department

Title Of The Invention	Patent No.	Date of Approval
Skate Bike (National)	201741016852	13-05-2017
Switch Mechanism for Four Wheel and Two Wheel Ternary Link Steering System(National)	201741019340	1-06-2017
Development of Graphic user Interface (guide) for Non Symmetric Gear by Matlab Application (International)	OM/P/2017/00219	30/07/2017

PHOTO GALLERY

