



राजलक्ष्मी न्यूज

Department of Mechanical Engineering

RVR & JC College of Engineering, GUNTUR - 522 019

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MESSAGE FROM THE HEAD OF DEPARTMENT

We trace our roots back to 1985, I am very proud of what our staff, students and alumni have accomplished. This is an exciting time for RVR&JC college Mechanical Engineering, as we reflect on our part of history in the college silver jubilee Celebration and look ahead to the new opportunities and challenges from the rapid engineering development in world and in the region.

We have attracted the quality local and national students to join our undergraduate programmes. In our innovative and engaging curriculum, we attempt to integrate the latest advances in robo-technology, energy and environment, sustainability and IT; we engage our young able students with their passion, creativity, curiosity and dreams. Our students have an opportunity to develop a deep understanding of mechanical engineering foundation; a broad understanding of major areas of traditional and modern mechanical engineering; and their professional skills through applied research and hands-on design projects. The long held open-door tradition allows students to talk to any teaching staff any time. We are looking forward to the exciting new 4-Year Undergraduate Curriculum in 2009.

My academic colleagues who graduated from renowned universities excel in their research, teaching and knowledge exchange. Our faculty and research students grow our leading-edge research programs in biomechanical engineering, nano-materials, energy and environmental engineering, mechanics, thermo-fluids, design and manufacturing, and dynamics, acoustics and control etc.. We establish multi-disciplinary collaboration with our sister faculties such as electronics, chemical, computer science etc.; develop collaboration with industry and government, and integrate research and teaching. Excitingly, 9 new faculty members joined us in the past 3 years to strengthen our teaching and research.

Mechanical engineers develop innovative technologies and break-through solutions for people. New challenges in energy, environment, resources and rapid knowledge expansion suggest the growing needs for knowledge of mechanical engineers. We will continue to improve our curriculum, learning and research environment to attract the best and brightest young students to explore the amazing world of mechanical engineering with us.

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Department Profile

The Department of Mechanical Engineering right from its inception of the undergraduate course B.Tech. (Mechanical) in the year 1985 has been contributing its modest share of the Mechanical Engineering graduates for national needs. A graduate study was introduced in 2004 in the specialization of CAD/CAM. The Department of Mechanical Engineering at RVR&JC College of engineering is as old as the Institute itself and has grown many fold during these twenty five years of its existence. Its impact on the institute is easily demonstrated by noting the alignment of the department's evolution with key events of the institution. Today, the Department of Mechanical Engineering of RVR&JC College of Engineering attracts and features an rich diversity and quantity of talented individuals, with nearly 120 undergraduates, 18 graduate students and over 27 faculty members. The impressive array of students makes the department as the largest in the state and one of the largest in the Guntur district.

The department's standing among the professional institutions was recognized by NBA with it's A grade accreditation for three years in 1998, for five years in 2002 and for three years in 2007 and APSCHE's rank.

The broad areas of teaching include Engineering Design, Thermal Engineering Sciences, Manufacturing Processes and Tools, Industrial Engineering and Mechatronics lab.

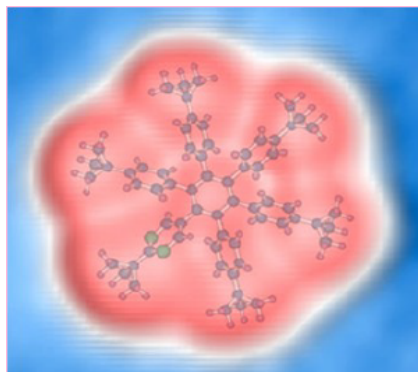
shop, Thermal sciences lab, Metrology lab, Kinematics and Vibrations lab and CAD/CAM lab are all provided with the state of the art equipment for training the students. The department has a well established computer centre with more than 100 P-IV systems with all the latest CAD/CAM software.

To modernize teaching aids and laboratories, grants worth Rs. 55 Lakhs were sanctioned under various categories by AICTE, NEDCAP, APCOST etc.

There are five Professors, six Assistant Professors and sixteen Lecturers with an average experience of 12 years. The faculty is well qualified with vast experience in various fields of Mechanical Engineering and published about 80 technical papers in various International and National Journals and Conferences.

Students of the department have been excelling in their academic performance and are securing University First and Top Ranks every year.

Alumni of this department are well placed and are doing well in reputed industries like Hyundai Motors, Intergraph, Asian Motor Works, Cummins, Larsen & Toubro, Reliance, Essar Steels, Coca-Cola, TCS, CTS, HAL, IBM, Infosys, Mahindra satyam, ITC Info, VSP, Indian Railway Service, Satyam Ventures, InfoTech, Value Labs, Kirloskar etc.



World's Smallest Gear

Singapore's Institute of Material Research and Engineering have created the world's smallest controllable gear. The gears are up 100,000 times smaller than the width of a single strand of hair and can only be viewed

Achievements of the Department

The Department of Mechanical Engineering standing among all the other branches of our college.

- Accredited “A” grade for three years by NBA , AICTE New Delhi in the year 2007 for three years.
- Accredited “A” grade for five years by NBA , AICTE New Delhi in the year 2002 for three years.
- Accredited “A” grade for three years by NBA , AICTE New Delhi in the year 1999 for three years.
- College Accredited by APSCHE, Hyderabad in academic Audit Grade. It is informed that it is the Second best among the private Engineering Colleges in Andhra Pradesh.
- P.G. Course M.Tech. in CAD/CAM was started in 2004 with an intake of 18 students.
- The Students of the department excels in the University Examinations by receiving GOLDMEDAL for being University I Rank Every Year.
- The Department is the winner of CZARS Title (Overall Championship) twice in the years 2006,2008 within the college.
- The Department is the Overall Sports Champion for the year 2009.
- The Department was awarded nearly Rs.66 lakhs worth projects by AICTE, TAPTEC, NEDCAP and APCOST.
- Six staff members of the department are PhD holders and 12 more staff members registered for PhD in Andhra University , JNTU, Osmania University etc.. and Five are in advanced stage of submission of their thesis.
- Dr.Kolla Srinivas ,Professor of Mechanical Engineering Department Received the Crops of Mechanical and Electrical Gold Medal For the Paper titled “ Optimum Design of Axial Flow Gas Turbine using GA”in the 20th Indian Engineering Congress of the Institution of Engineers, India held at Kolkata during December 15th -18th 2005.



First Automobile

In 1769, the very first self-propelled road vehicle was a military tractor invented by French engineer and mechanic, Nicolas Joseph Cugnot. Cugnot used a steam engine to power his vehicle, and it was used by the French Army to haul artillery at a whopping speed of 2 1/2 mph on only three wheels. The vehicle had to stop every ten to fifteen minutes to build up steam power. Historians, who accept that early steam-powered road vehicles were automobiles, feel that Nicolas Cugnot was the inventor of the first automobile.

CHARLES

Never break four things
in your life - Trust,
Promise, Relation &
Heart because when they
break they don't make
noise but pains a lot ?

Student Corner

Results Analysis

	Total Appeared	Total Passed	Pass percentage
IV / IV IInd sem	56	53	94.64
III/ IV IInd sem	117	98	83.76

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No of students qualified	Highest all India rank
10	149

Staff Corner

Research Papers Published in Journals :

- **Dr. Srinivas Kolla**, Professor, “The impact of cutting conditions on cutting forces and chatter length for steels and aluminium, **Journal of Manufacturing Engineering**; pp 178-184, Vol.3, issue 3, 2008.
- **Dr. Srinivas Kolla**, Professor, “The impact of cutting conditions on cutting forces and vibrations for steels and aluminium, **Journal of Manufacturing Technology Today**; pp 32-38, Vol.8, issue 1, January 2009.

Research Papers Published in Seminars/Conferences/Workshops(with ISBN no):

- **Dr. Srinivas Kolla**, Professor, “Noise reduction of air blower casing using composites, Proceeding of 8th International Conference on vibration problems, organized by Bengal Engineering and science University, Shibpur, West Bengal, Springer Publishers in Physics-126, edited by Inan et al., pp 215-222, 2009.

Papers Published in Seminars/Conferences/Workshops

- **Dr.D.V.V.Krishna Prasad**, Professor and **Sri M.Siva Nayak**, Lecturer “Multi Objective optimization of machining parameters by using genetic algorithm approach, **National Conference OPTTEST-2009**, organized by Bannari Amman institute of technology, Satyamangalam, Erode Dist., during 27-28 March, 2009.

Seminars/Workshops/Conferences attended by the Faculty :

- ✚ **Sri N.Govind**, Fracture Mechanics, Organised by Pro-Sim, Bangalore, during 22-24 February, 2009.
- ✚ **Sri K.Praveen Kumar**, **Sri K.Krishna Kishore**, and **Sri M.Gopi Krishna**, Lecturer, National workshop on Composite Materials and Nanotechnology, organized by Department of Mechanical Engineering, Sir C.R.Reddy Engineering College, Eluru, during 11-15 March, 2009.
- ✚ **Dr.K.Ravindra**, Professor&Head, Two-Day workshop on Intelligent Manufacturing, organized by Department of Mechanical Engineering, A.U College of Engineering, Visakhapatnam, during 16-17 March, 2009.
- ✚ **Dr.K.Ravindra**, Professor&Head, Two-Day workshop on Tool Design and its Applications, organized by Department of Mechanical Engineering, A.U College of Engineering, Visakhapatnam, during 20-21 March, 2009.
- ✚ **Sri V.Rama Koteswara Rao**, **Sri G.Kishore Chowdary**, **Sri N.Govind**, **Sri S.Vijaya Kumar**, **Sri D.Sameer Kumar**, **Sri M.Siva Nayak** Lecturers, one week short term course on Computational Mechanics, organized by the Department of Mechanical

Promotions to the Faculty

- **Sri N.V.V.S. Sudheer** Senior Lecturers, Department of Mechanical Engineering was promoted as Assistant Professor in the same Department, w.e.f.1st January, 2009.



- **Sri B.Ramgopal Reddy**, Senior Lecturers, Department of Mechanical Engineering was promoted as Assistant Professor in the same Department, w.e.f.1st January, 2009.



The RAJMEA like to know what is happening in your professional life. Visit the following website to update your information or let us know about your accomplishments: www.rvrjcce.ac.in/mech