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Department of Mechanical Engineering

RVR & JC College of Engineering, GUNTUR - 522 019

Volume : 6

July – December 2011

2011 – A YEAR OF SILVER JUBILEE FOR THE DEPARTMENT OF MECHANICAL ENGINEERING:



The Department of Mechanical Engineering has been the heart and spirit of this Premier Institution right from its inception in 1985. Rated very high today, this Department is the Alma mater of several Technocrats and Researchers in India and Abroad.

The Silver Jubilee celebrations were started on 13th August, 2011 with the inaugural function. Dr.D.N.Reddy, Vice-Chancellor, JNTU-Hyderabad, Dr.K. Viyyanna Rao, Vice-Chancellor, Acharya

Nagarjuna University, Guntur and Sri M. Murali Mohan, cine actor and Managing Director of Jayabheri Trust were the chief guests. On this occasion College Boys Hostel, e-class room in Mechanical Engineering Department were inaugurated and foundation stone was laid for Hi-Tech block.

Many events were planned spanning five month long celebrations of Silver Jubilee.



National Conference on Recent Advances in Mechanical Engineering:

As part of silver jubilee celebrations the department for the first time has organized a two day National Conference on Recent Advances in Mechanical Engineering (NCRAME-2011) during 7 - 8 July, 2011 where 125 participants had attended and presented their papers. On this occasion Dr D.Nageswera rao, Prof of ME, A.U, Visakhapatnam and our alumni Dr N. Venkat Reddy , Prof of ME ,I.I.T. Kanpur were felicitated by the College Management and Principal.

Dr. N. V. Reddy has delivered a key note address on "A Flexible Manufacturing Process: Incremental Forming" The presentation covered some of the attempts made to develop flexible manufacturing processes with emphasis on forming processes (specifically on incremental sheet metal forming). He further said that the analytical model developed provides quantitative measurements on the influence of each process parameter on the formability.

OPEN HOUSE Exhibition:

As part of the Silver Jubilee celebrations, an "OPEN HOUSE Exhibition" was organized on 9th & 10th September 2011 for the school and college students to visit various laboratories. Sri G. Vishnu, honorable Collector of Guntur District inaugurated the event. In his address to the visiting students he dwelled about the scope of the Engineering Education and advised them to choose and excel in Engineering profession and thereby build the Nation to stand forefront of the Globalization.

Many of the Mechanical Engineering students have come forward to volunteer the event. The student volunteers have explained various fundamental concepts related to experiments and functioning to visitors at Thermal Science Lab, Heat Transfer lab, Foundry Lab, Machine Shop, Metrology lab, CAD Lab, CAM Lab and Mechatronics Lab. A total of 7000 students have visited our Department Laboratories. Our Mechanical Engineering Students have enjoyed the



experience of explaining to the visitors and are thrilled to be a part of the event.

A short film, made by Surya Teja, Karthik, Pasha & Co Third Year Mechanical Engineering Students has bagged good applauses from the audience. The theme of the film is the genesis and the growth of the mechanical engineering and its role in the revolutionary changes in Technological Global Scenario, starting from the inception of the wheel. This short film was screened uninterruptedly for every one hour on both days of the event.

National Level Technical Students Meet:

A two day National level Students Meet **"MechMantra-2k11"** was organized by the RAJMEA during 29th - 30th Nov, 2011 as part of the SILVER JUBILEE TECHNO FEAST. A total of 400 participants (both from In-house & outhouse) across the country have Participated. Events like Technoviz (Paper Presentation), Techno Avatar (Model Presentation), SurroGates (Robo Races), Junkyard wars, Contraptions, Quiz, Mr. & Mrs. MechMantra-2k11, etc.. are conducted.

Sri N. Nageswara Rao, GM, IOCL, Mumbai delivered a lecture on "Mind Mapping". Many external participants of

Mechanical and Civil Engineering branches have attended the Lecture.

The Valedictory function was organized on 30th November, 2011. Prizes are distributed to the winners by Dr. A.V. Rathna Prasad, Professor & HOD-ME, VR Siddharadha Engineering College, Vijayawada and Dr. K. Hari Babu, Principal, Chebrolu Engineering College, Chebrolu, Guntur Dt. The Winners are:

SURROGATES

ROBO RACE

- 1st-D.poorna sri vikas & group (V.R Siddartha)
- 2nd-K.Lakshmi reddy & Group (R.V.R.& J.C)
- 3rd-D.Viswanath varma & group (Raghu Institute Of Technology)

RUGGED ROVER

- 1st- B.Srikanth Reddy & group (R.V.R & J.C)
- 2nd-A.P.Apoorv (Raghu Inst. of Tech. Vizag)
- 3rd- P.Nagaraju (V.R.Siddartha)

ROBO SOCCER

- 1st- G.Mahesh & Group (CIT, Lam)
- 2nd-B.Manoj Kumar & Group (R.V.R & J.C)
- 3rd- M.Srinivas Rao & Group (CIT, Lam)

TECHNO WIZ (Paper Presentation)

- 1st- B.Amulya, S.Haritha (V.R.Siddartha)
- 2nd-Vijay Kumar Kalwa, Vivekanand (PDA College Of Engg., Gulbarga)
- 3rd- S.Mamatha (R.V.R & J.C)

JUNKYARD WARS

- 1st- Abbas Sharief & Group (R.V.R. & J.C)
- 2nd-A.Dheeraj kumar & Group (BEC, Bapatla)
- 3rd- D.Viswanath & Group (Raghu Institute Of Technology, Vizag)

I.Q.BUZZ

- 1st- M.Sri Divya (D.I.E.T)
- 2nd- Janga Sai Chandu Chowdary (D.I.E.T)
- 3rd- shaik Nayab Rasool (B.E.C)

CONTRAPTIONS

- 1st- N.Rajesh & Group (R.V.R & J.C)
- 2nd-Vamsi & Group (R.V.R & J.C)

Mr.MECHMANTRA - U.Karthik (R.V.R & J.C)

Ms.MECHMANTRA - T.Sultana (R.V.R & J.C)

SPOT EVENTS

ADD CORNER

- 1st- Ajay & Group (PDACE, Gulbarga)
- 2nd- D.Prakash & Group (R.V.R & J.C)
- 3rd- Bhargavi & Group (V.R.Siddartha)

POETRY STAR

1st- K.Vishnu Vardhan (R.V.R & J.C)

2nd-Adil Baig (V.R.Siddartha)

WATER ROCKETS

1st- Srinivas Reddy, P.S.Vasu (R.V.R. & J.C)

SHORT FILM

1st- Vivekananda & Group (PDACE, Gulbarga)

2nd- Surya Teja & Group (R.V.R. & J.C)

DESIGNER OF MECHMANTRA

1st- Hari Kishore (V.R.Siddartha)

2nd- Gopi Krishna (Vignan)

Dr.K. Ravindra, HOD and Dr.V. Chittaranjan Das, Coordinator of this event praised the Student Organizing Committee members Mr. G. Chandra Sekhar, Mr. P. Vinay Kumar and Mrs. G. Krishna Santhi of Final Year Mechanical Engineering and their team for organizing the event MechMantra-2011 meticulously and made it a grand success.

Mechanical Engineering Department goes from strength to strength:

The Department's academic development initiative, which has been running since 1985, incorporates project-based hands-on activities, like computer training, technical reporting, model building and a mentorship programme, where senior students offer support to first- and second-year students. The overall aim of academic development is to improve the teaching and learning experience at RVR&JC CE, and to provide students with the tools they need to succeed.

The Department of Mechanical Engineering attracts a diverse and talented group of students at both undergraduate and postgraduate level.

Over the past couple of years there has been a significant increase in the number of first year students. In 2010 there were 120 first-year students, and in 2011 the intake was 180. AICTE has sanctioned a Third section only to the Mechanical Engineering programme in the Campus.

We are in the process of benchmarking our Department to ensure we remain globally competitive and that we graduate mechanical engineers who will be able to identify and solve

problems and provide the technological leadership needed for the 21st century workplace

AICTE Funding to Modernize CAM lab:

The Department was awarded a grant of 11 lakhs for Modernization of CAM Laboratory under MODROBS Scheme by AICTE, New Delhi. This amount is utilized to procure Automated Storage and Retrieval System (AS/RS), Conveyor System, etc. This additional facility strengthens the CAM Lab and useful to the students of Final Year of UG and PG students to carry out the experiments and projects. Prior to this, the Department was awarded with of Rs. 35 Lakhs to the Modernization of CAM lab, Mechatronics Lab and Thermal Sciences lab.

RESEARCH:

Acharya Nagarjuna University recognised **Dr. K.Ravindra, Dr. K.Srinivas, Dr. D.V.V. Krishna Prasad, Dr. V. Chittaranjan Das and Dr. G.Srinivasa Rao** as Research Supervisors in Mechanical Engineering. Around 12 research scholars have registered their PhD's under the guidance of the above Professors.

Sri G. Kishore Chowdari, Lecturer and Sri C.Tara Sasanka, Lecturer have registered for Ph.D at Acharya Nagarjuna University.

Autonomous Status to RVRJCCE:

UGC expert committee visited our Department during September as part of the granting of Autonomous status to our college. We are pleased to announce the college was granted autonomous status and is effective from the Academic Year 2012-13

Faculty Development:

Seminars/Workshops/Conferences attended by the Faculty :

Dr.V.Chittaranjan Das , Professor , attended Faculty Development programon " Advanced Numerical and Statistical Techniques for Engineers(ANSTE)" organized by NIT Calicut during 30th May- 3rd June, 2011.

Mrs. M. Vijaya , Lecturer , attended a two day national seminar on " Finite Element formulations for Nano Structures" organized by V.R Siddhartha Engineering College, Kanuru, Vijayawada during 19th – 20th August, 2011

CONGRATS TO STELLAR STUDENTS:

Ms. D.C Padmaja (Y8ME834) of IV year, Ms S. Mamatha (Y9ME904) of III Year and Ms. V.Chandana Deepthi of II year have shown outstanding performance to secure top ranks in University Examinations.

FACULTY PUBLICATIONS:

Research Papers Published in Journals :

B.Ramgopal Reddy, K.Ramji and B.Satyanarayana, "*Free Vibration Analysis of Carbon Nanotube Reinforced Laminated Composite Panels*",

International Journal off Mechanical and Materials Engineering(World Academy of Science, Engineering and Technology), Vol.2 number1,Aug2011, pp. 13-17.

Papers Published in Seminars /Conferences /Workshop:

V.Tarachand, Kondala Rao.D , Haribabu K , "Analysis of combined cycle Power plant" ,Proceedings of NCRAME-2011(National Conference on Recent advances in Mechanical Engineering) organized by R.V.R & J. C College of Engineering , Guntur during 7th -8th July2011 pp:83-88.

using Taguchi inner Array and Outer Array Design" , Proceedings of NCRAME-2011(National Conference on Recent advances in Mechanical Engineering) organized by R.V.R & J. C College of Engineering , Guntur during 7th -8th July2011 pp:208-211.

G.Srinivasa Rao , Neelakanteswara Rao.A , "Optimization of tool parameters

Kolla Srinivas, Ch. Deva Raj and Sadhu.Venkateswarlu , "*Ant Colony Algorithm-based multi-objective optimization of Cutting parameters in turning processes* "Proceedings of National Conference on Recent Advances

in Mechanical Engineering(NCRAME-2011) at R.V.R & J.C College of Engineering, Guntur-19 July 7-8,2011 pp. 212-217.

V. Phanindra Bogu , **V.Chittaranjan Das** ,
" Mathematical Modelling of EDM parameters effect on DIN1.2738 Tool Steel" , Proceedings of NCRAME-2011(National Conference on Recent advances in Mechanical Engineering) organized by R.V.R & J. C College of Engineering , Guntur during 7th -8th July2011 pp:260-265.

D.Sameer Kumar , K.N.S. Suman, **K.Ravindra** , "ABC Metaheuristic for the design optimization of a composite leaf Spring", Proceedings of National Conference on Recent Advances in Mechanical Engineering(NCRAME-2011) at R.V.R & J.C College of Engineering, Guntur-19 July 7-8,2011 pp. 411-416.

C.Tarasasanka , **K.Ravindra** , Ch. Tirumalarao , "Transient response of cylindrical shells using Artificial Neural

STUDENTS DEVELOPMENT:

Industrial Tours & Short Visits:

The Mechanical Engineering Department organized a short industrial visit for III/IV B.Tech (Both A & B Sections) students to M/s. Sangam Dairy., Vadlamudi, Guntur Dt & M/s. Kumar Pumps , Tenali, during 18th & 19th August 2011.

Guest Lectures:

Sri. K. Raghava , Flying Officer, Indian Air Force, delivered a Guest Lecture on " **Prospects in Indian Air Force**" on 29th June 2011 to Final Year Students.

5K Awareness Walk To Avoid Plastic:

The use of plastic is causing severe damage to the environment. To create awareness of this menace, the Institute has organized a 5Km walk on 30th October 2011. The Management members, Sri Rayapati Sambasiva Rao, M.P., Sri Shyam Sundar, S.P., Principal, Staff and Students have actively

Networks" , Proceedings of National Conference on Recent Advances in Mechanical Engineering(NCRAME-2011) at R.V.R & J.C College of Engineering, Guntur-19 July 7-8,2011 pp. 423-428.

M.Ashok Chakravarthi, **V.Rama Koteswara Rao**, Dr, Y.Krishna, Dr. V.V.Subba Rao, C.Hari Krishna and B.Srinivas "A Numerical Simulation and Turbulence for a Butterfly Valve" Proceedings of National Conference on Recent Advances in Mechanical Engineering(NCRAME-2011) at R.V.R & J.C College of Engineering, Guntur-19 July 7-8,2011 pp. 512-518

B.Ramgopal Reddy and G.Anil Kumar, "Investigation of Mechanical Properties of Lime Sludge Reinforced Particulate Composites", Joint International Conference on Advanced Materials (ICAM 2011), August 19-20, 2011, BTLIT, Bangalore, India, pp.501-506.



Participated in the event for this noble cause. Many Mechanical Engineering Students showed lot of enthusiasm and played active role in the grand success of the event.

Prizes, Awards and Scholarships :

Ms. B. Sirisha (Y9ME812) has one Second Prize for her paper in Paper Presentation competition at Sapience-2011, during 23rd & 24th Dec 2011 organized by Sri Vasavi Institute of Engineering & Technology, Hyderabad.

The College Cultural Committee organized the National Level Cultural Competitions 'Coloridos-2011' during 28-30 December, 2012. Let us congratulate the following students, who have won good number of prizes in various events.

N.Rajesh (Y8ME892) final year mechanical and his team has secured first place in skit at the National Level Cultural Competitions 'Coloridos-2011' during 28-30 December, 2011., at RVRJCCE, Guntur.

U.Karthik (Y9ME914) third year mechanical has secured first place in mono action light music and singing at the National Level Cultural Competitions 'Coloridos-2011' during 28-30 December, 2011., at RVRJCCE, Guntur

G.Ganesh (Y9ME832) final year mechanical and his team has secured second place in Ramp walk at the National Level Cultural Competitions 'Coloridos-2011' during 28-30 December, 2011., at RVRJCCE, Guntur

M.Sriharsha (Y8ME876) final year mechanical and his team has secured first place in Choreonite at the National Level Cultural Competitions 'Coloridos-2011' during 28-30 December, 2011., at RVRJCCE, Guntur.

Ms G. Krishna Santhi of Final Year and her team has secured Second Place in Basketball Tournament conducted at J.K.C.College, Guntur in Dec 2011.

Mr. I.V.S Yaswanth of first year Mechanical Engineering has secured third place in swimming competitions

under Enadu Tournaments, at RVRJCCE, Guntur in Dec 2011.

Ms G.H.G.K. Murthy and his team of final year Mechanical Engineering has secured Second place in Basketball in the tournament conducted at J.K.C. College, Guntur in Dec 2011.

PLACEMENTS:

Department of Mechanical Engineering is delighted to say that 28 students are placed in various reputed organizations during July- December 2011 even during the period of slow economic growth of the country. CONGRATULATIONS

S. No.	REGDNO	NAME OF THE STUDENT	COMPANY SELECTED
1	Y8ME821	Ch Lakshmi Kaumudi	Cummins Research India Limited
2	Y8ME834	Duvuru C Padmaja	Cummins Research India Limited
3	Y8ME835	G. Chandrasekhar	Intergraph
4	Y8ME903	Peddineni Vinay Kumar	Intergraph
5	Y8ME835	G. Chandrasekhar	Mahindra Satyam/Tech Mahindra
6	Y8ME855	K. Venkata Krishna Reddy	Mahindra Satyam/Tech Mahindra

7	Y8ME858	Koganti Sri Vidya	Mahindra Satyam/Tech Mahindra
8	Y8ME896	Oruganti Karthik	Mahindra Satyam/Tech Mahindra
9	Y8ME903	Peddineni Vinay Kumar	Mahindra Satyam/Tech Mahindra
10	Y8ME926	Yalamoori N Nitin	Mahindra Satyam/Tech Mahindra
11	Y8ME813	Bellamkonda Avinash	Satyam Ventures Engineering Pvt. Ltd.
12	Y8ME820	B V S N Sanjeev Kumar	Satyam Ventures Engineering Pvt. Ltd.
13	Y8ME842	Gutha Ram Sudheer	Satyam Ventures Engineering Pvt. Ltd.
14	Y8ME884	Muppa Rajasekhar	Satyam Ventures Engineering Pvt. Ltd.
15	Y8ME892	Nelapati Rajesh	Satyam Ventures Engineering Pvt. Ltd.
16	Y8ME895	Nuvvula Siva Kumar	Satyam Ventures Engineering Pvt. Ltd.
17	Y8ME926	Yalamoori N Nitin	Satyam Ventures Engineering Pvt. Ltd.
18	L9ME939	Pethakamsetty Sudheer	Tata Consultancy Services
19	Y8ME806	Anil Kumar Reddy M	Tata Consultancy Services
20	Y8ME838	Gattupalli Abhijith	Tata Consultancy Services
21	Y8ME854	Karavadi Krishna Vandana	Tata Consultancy Services
22	Y8ME869	Madhavi Latha Kotha	Tata Consultancy Services
23	Y8ME870	Medisetty Ram Kumar	Tata Consultancy Services
24	Y8ME876	Maruturi Sai Sriharsha	Tata Consultancy Services
25	Y8ME893	Nirjogi Srikanth	Tata Consultancy Services
26	Y8ME919	Thouhid Sultana	Tata Consultancy Services
27	Y8ME922	Vankayalapati Aditya	Tata Consultancy Services
28	Y8ME927	Yalavarthi Phani Krishna	Tata Consultancy Services

Mr. U. Karthik, (Y9ME914), of final year Mechanical Engineering has participated in the event 'Paduta Theeyaga' and has reached semifinal organized by E-TV. He is a man of immense talent where he was blessed with rare combination of academic excellence and a brilliant performer in cultural events. He has won the 'RVR&JC IDOL' last year. His academic record is good and stands as one of the toppers in the final year. The Mechanical Engineering Department wishes all the success of this rare talent in all his future endeavors.



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