

# DEPARTMENT OF MECHANICAL ENGINEERING

**“NEWS LETTER”**

*JANUARY-JUNE, 2014*



## **PRASAD V. POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY**

**(Autonomous & permanently affiliated to JNTUK, Kakinada**

**Accredited by NBA, an ISO 9001:2008 Certified Institution,**

**Approved by AICTE, New Delhi)**

**KANURU, VIJAYAWADA-520007.**

PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY, KANURU, VIJAYAWADA.  
MECHANICAL ENGINEERING DEPARTMENT

- Workshops/ Seminars/ Guest Lectures/ Training Programmes Conducted in the Department:

GUEST LECTURES

1. The Guest Lectures & Seminars Committee of Mechanical Engineering Department organized a Guest Lecture on “**HIGHER STUDIES**” by V.V. Kishore Kumar, CEO & Founder, KISHCAT, CAT Institute, Vijayawada, on **11.02.2014**.
2. The Guest Lectures & Seminars Committee of Mechanical Engineering Department organized a Talk on “**COURSE FILE FOR SELF ASSESSMENT REPORT (SAR/NBA)**” by Sri. P. Satish Kumar Reddy, Associate Professor, V. R. Siddartha Engineering College, Kanuru, Vijayawada, on **13.02.2014**.
3. The Guest Lectures & Seminars Committee of Mechanical Engineering Department organized a Workshop on “**NON DESTRUCTIVE TESTING METHODS**” by Sri. N. Hema Chandra Reddy, Technology Consultant, A-Star Training & Consultancy Pvt. Ltd., Singapore-609966 on **04.03.2014**.
4. The Guest Lectures & Seminars Committee of Mechanical Engineering Department organized a Guest Lecture on “**NANO COMPOSITES**” by Dr. K. Ramji, Professor of Department of Mechanical Engineering & TEQIP Nodal Officer, Andhra University, Visakhapatnam on **21.03.2014**.
5. The Guest Lectures & Seminars Committee of Mechanical Engineering Department organized a Guest Lecture on “**AUTOMOTIVE ELECTRONICS**” by Dr. V. Vasudeva Rao, Professor & HOD, Department of ECM, PVPSIT, Vijayawada on **28.03.2014**.

TRAINING PROGRAMMES

1. Training Programme on “Pro-E Wild Fire-4.0 Software” organized by Department of mechanical engineering from 21-02-2014 TO 01-03-2014 by Sri. N. Raghu Ram and Sri. Ch. Kishore Reddy faculties of PVPSIT, kanuru, Vijayawada.
2. Department of Mechanical Engineering organized a one week training programme on **ANSYS** Software by Sri. U Koteswara Rao, Associate Professor, PVPSIT, Kanuru, Vijayawada, Smt. P. Phani Prasanthi, Assistant Professor, PVPSIT, Kanuru, Vijayawada from 24.03.2014 to 29.03.2014.

3. The Guest Lectures & Seminars Committee of Mechanical Engineering Department organized a Training Programme on “**CREO PARAMETRIC-2.0**” by Mr. G. Mahesh Kumar, Application Executive, Adroitec Engineering Solutions Pvt. Ltd. Secunderabad, on 28.04.2014.

#### WORKSHOPS

1. The Guest Lectures & Seminars Committee of Mechanical Engineering Department organized a workshop on “**FINANCIAL PLANNING FOR YOUNG INVESTORS**” by Dr. Rajesh.C.Jampala, Professor & Head, Department of Business Administration, Assistant Director P.G. Section, P.B. Siddhartha Arts and Science College, Vijayawada on 21.01.2014.
2. 2-Week ISTE Workshop on “**Fluid Mechanics**” under the National Mission on Education through ICT, MHRD, Govt. of India, conducted by IIT Karagpur from **20-05-2014 to 30-05-2014**.

#### • **Publications by the faculty (National/International Journals/ Conferences):**

#### INTERNATIONAL JOURNALS

1. G.Dilli Babu, K.Sivaji Babu, B.Uma Maheswar Gowd, “Determination of Delamination and Surface Roughness for Machined Fiber Reinforced Plastics using Machine Vision”, Journal of Mechanical and Industrial Engineering Research, ISSN 2304-7445, Vol. 3, No.1, 2014, pp. 60-68.
2. A. Phanindra, T. Vidyasagar, N. Prabhu, D. Sai Teja, Dr. K. Sivaji Babu, M. Mounika, Thermal Characterization of Sugar Cane Fiber Reinforced Composite, International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 3 Issue 4, April - 2014
3. M. Somaiah Chowdary, Dr. M. S. R Niranjana Kumar, Effect of Nanoclay on the Tensile properties of Polyester and S-glass Fiber(Al), International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 3 Issue 5, May – 2014
4. G. Leela Siva Rama Prasad, M.V.H. Satish Kumar, Gunti Rajesh, “Effect of Fibre Loading and Successive Alkali Treatments on Tensile properties of Short Jute Fibre Reinforced Polypropylene Composites”, International Journal of Engineering Science Invention, ISSN: 2319-6734, Volume 3, Issue 31 March 2014, pp. 30-34
5. P. Vinod, U. Koteswara Rao, Ch. Kishore Reddy, Analysis of Railway Wheel to Study the Stress Variations, International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 3 Issue 2, February – 2014.

6. Karthik Matta, Kode Srividya, Inturi Prakash, “Static and Dynamic Response of an Impeller at varying effects”, IOSR Journal Of Mechanical and Civil Engineering, ISSN 2320 – 334, Vol. 11, No. 1, January 2014, Pp. 101 – 106
7. Maguluri Nagarjuna, E. Kavitha, Anoosha Peyyala, “Optimized Manufacturing Processes For Cooler Tank”, International Journal Of Research And Innovation (Ijri) , ISSN: 1401-1402 Vol.1, Issue.2, Mar-Apr. 2014
8. P. Prasanthi, G. Sambasiva Rao, B. Umamaheswar Gowd, Mechanical Properties of Fiber Reinforced Composites Using Buckminster Fullerene Reinforcement, International Journal of Research in Mechanical Engineering & Technology, ISSN : 2249-5762 (Online), Vol. 4, Issue Spl - 1, 2014
9. Maguluri Nagarjuna, E. Kavitha, Anoosha Peyyala, “Optimized Manufacturing Processes For Cooler Tank”, International Journal Of Research And Innovation (Ijri), ISSN: 1401-1402 Vol.1, Issue.2, Mar-Apr. 2014
10. Sk. Siraz Rafi, P. Anusha, M N. Swapna Sri, “Estimation of Young`S Modulus for Single Walled Carbon Nanotube With Finite Element Method”, International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 3 Issue 5, May – 2014, pp. 54-62
11. Dr. K. Sivaji Babu, M. Mounika, A. Phanindra, T. Vidyasagar, N. Prabhu, D. Sai Teja, Thermal Characterization of Sugar Cane Fiber Reinforced Composite, International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 3 Issue 4, April – 2014
12. N. Raghu Ram, K. Venkata Rao, Ch. Lakshmi Kanth, M. Naga Swapna Sri, “Parametric Analysis on the Effect of Cryogenic Treatment on the Work Piece Material of EDM Process”, International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 3 Issue 1, January – 2014
13. Sk. Siraz Rafi, P. Anusha, M N. Swapna Sri, “Estimation of Young`S Modulus for Single Walled Carbon Nanotube With Finite Element Method” International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 3 Issue 5, May – 2014, pp. 54-62
14. P. Vinod, U. Koteswara Rao, Ch. Kishore Reddy, Analysis of Railway Wheel to Study the Stress Variations, International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 3 Issue 2, February – 2014.
15. Anudeep M, G Diwakar, Ravi Katukam, “Design of A Quad Copter and Fabrication”, International Journal of Innovations in Engineering and Technology, ISSN: 2319-1058, Vol. 4 Issue 1 June 2014, pp.59-65

16. Kode Srividya, V. Balakrishna Murthy, M.R.S. Satyanarayana, "Effect of Boundary Conditions on Free Vibration Analysis of Thick Fiber Reinforced Plastic Skew Laminate with Circular cutout" International Journal of Engineering Sciences & Research Technology. ISSN 2277-9655, IMPACT FACTOR: 1.852, Vol.3 No. 6, June-14

#### NATIONAL CONFERENCE

1. V. V. Venu Madhav, P. Phani Prasanthi, Dr. V. Bala Krishna Murthy, Effect Of Delamination Size Around A Square Cutout On Fracture Analysis Of Frp Laminates, NCRAME'14, March 22nd 2014, JNTUK- UCE Vizianagaram

#### INTERNATIONAL CONFERENCE:

1. Nagaraju, Harikrishna Ch., Koteswara Rao U., Vibration Analysis of Structural Element by Employing Spectrum Analyzer, ICEMP, CSIR- Institute of Minerals and Materials Technology, 2014
2. G. Sambasiva Rao, P. Phani Prasanthi, B. Umamaeshwar, V. Balakrishna Murthy, Analysis of Buckminster Fullerene Reinforced Composites - Influence of homogenized wall thickness First International conference on Mechanics of Composites, Stony Brook University, June 9-12, 2014.

#### **• Workshops/Seminars/Conferences/Faculty Development Programmes attended by the faculty:**

1. Dr.G.Vijay Kumar & G.Bala Krishna has participated in the Two Day National Workshop on "Vibrations and Health Monitoring of Engineering Infrastructures(VHMEI-2014)" at A.U.CollegeofEngineering(Autonomous),Visakhapatnam under TEQIP phase II on 3<sup>rd</sup> -4<sup>th</sup> January,2014.
2. Mr.K.Venkata Rao has participated in an AICTE sponsored short term course on "Modern Control Perspectives in solid and Fluid Mechanics" at IIT Madras from 18<sup>th</sup> -22<sup>nd</sup> January,2014.
3. E. Kavitha & M. Naga Swapna Sri has participated in a 3-day Workshop on "Creative Design & Rapid product Development Technologies" organised by the department of Mechanical Engineering at NIT Warangal from 29<sup>th</sup>-31<sup>st</sup> January,2014.
4. Dr.Vijay Kumar, Smt. K.I.V.Vandana has participated in "Training Programme for Resource persons and Evaluators on Outcome Based Accreditation" conducted by V.R.S.E C ,NBA Training Centre,Vijayawada to identify Resource persons and Evaluators from 15<sup>th</sup> - 17<sup>th</sup> Feb,2014.
5. P.Phani Prasanthi has attended 3<sup>rd</sup> International Conference on Material Processing and Characterization and presented a paper on "Effectiveness of Buckminster Fullerene Reinforcement on Mechanical Properties of FRP Composites" at Gokaraju Rangaraju Institute of Engineering & Technology from 8<sup>th</sup> -9<sup>th</sup> March,2014.

6. Sri. G. Diwakar acted as a resource person for One day Refresher course on vibration-Measurement and Analysis Techniques at Vignan University from 7<sup>th</sup> March,2014.
7. Dr.K.Sivaji Babu participated in the 2<sup>nd</sup> World summit on accreditation organized by National Board of Accreditation at New Delhi from 8<sup>th</sup>-10<sup>th</sup> March,2014 .
8. MVH Satish Kumar, K.Srividya, P.Srikant , P.Madhu Kumar has participated in a 3-Day Workshop on “Aero Modelling” at P.V.P.S.I.T from 10<sup>th</sup>-12<sup>th</sup> March,2014 .
9. Smt. P.Phani Prasanthi has attended One day National Conference on Recent Advances in Mechanical Engineering and presented a paper on “ Effect of Delamination size Around a Square cutout on Fracture Analysis of FRP Laminates”at JNTU,Kakinada on 22<sup>nd</sup> March,2014.
10. Dr. G. Vijay Kumar has participated in a 5-day short Term Course on “Essential Techniques for Research Problems in Materials and Manufacturing(ETRPMM)” at at NIT Warangal from 14<sup>th</sup>-18<sup>th</sup>April,2014.
11. Sd.AbdulKalam, K.Venkata Rao has participated in a 2-week Audit Course on “ Research Methodologies” at JNTU-K from 1<sup>st</sup> - 15<sup>th</sup> May,2014.
12. Sd.AbdulKalam, K.Venkata Rao has participated in a 2-week Audit Course on “ Intellectual Property Rights & Patents” at JNTU-K from 16<sup>th</sup> - 30<sup>th</sup> May,2014.
13. M.Mounika has received a certificate of excellence in recognition of her contribution as Workshop Coordinator in the successful completion of the 2-week ISTE workshop on “1 Fluid Mechanics” conducted by IIT Kharagpur under the National Mission on Education through ICT (MHRD)from 20<sup>th</sup>-30<sup>th</sup> May, 2014.
14. Sri. M.V.H. Satish Kumar, Sri. G. Diwakar , U.Koteswara Rao, Sri. V.V. Sridhara Raju, Smt. K. Srividya, Smt. E. Kavitha, Sri. P. Ravi Kumar , P.Anusha, Smt. M.Rajya Lakshmi, Mr. N.Raghuram,CH.Kishore Reddy , has participated in a 2-week ISTE Main Workshop on “Fluid Mechanics” conducted by IIT Kharagpur under the National Mission on Education through ICT (MHRD)from from 20<sup>th</sup>-30<sup>th</sup> May,2014.
15. Ch.Kishore Reddy, P.Mastan Rao has participated in the Faculty Enablement programme on “Effective Teaching and Assessment Strategies” at V.R.Siddhartha Engineering College from 16<sup>th</sup>-21<sup>st</sup> June, 2014.
16. P.Anusha, K.I.V.Vandana, Ch.Mohan Sumanth has participated in the Entrepreneurship Awareness Programme on “Exploring Entrepreneurship Opportunities in Andhra Pradesh” organized by the centre for Entrepreneurship Development, JNTU, Kakinada at Dhanekula Institute of Engineering &Technology, Ganguru from 20<sup>th</sup>-21<sup>st</sup> June, 2014.
17. K.Srividya has participated in Two-Day workshop on “Recent Trends in Manufacturing Process” at Gudlavalleru Engineering College from 27<sup>th</sup>-28<sup>th</sup> June, 2014.

• **Students achievements:**

1. A.Eshwar Sahithya of III B-Tech has attended a 2-Day program on “Mobile controlled Robotics” at Gudlavalluru College of Engineering from 19<sup>th</sup> -20<sup>th</sup> January-2014.
2. T.Sai Krishna, Sree Harsha.Ch of III B-Tech has presented a paper entitled “Magnetic Bearings” at the National Level Technical Paper Contest GEMSMEET’14 at Gudlavalluru Engineering College from 30<sup>th</sup> Jan-1<sup>st</sup> Feb 2014.
3. Ch.Savani of III B-Tech has participated in swing ‘n’ win and **won 2<sup>nd</sup> prize** in the event AFOSEC’14 at V.R.Siddhartha Engineering College from 14<sup>th</sup> -15<sup>th</sup> Feb-2014.
4. M.Venkata Raghava, R.Suresh of III B-Tech has participated in screw-it in the event AFOSEC’14 at V.R.Siddhartha Engineering College from 14<sup>th</sup> -15<sup>th</sup> Feb-2014.
5. G.Praneeth of III B-Tech has participated in Robo Fight event of AFOSEC’14 at V.R.Siddhartha Engineering College from 14<sup>th</sup> -15<sup>th</sup> Feb-2014.
6. M.Surendra Babu of III B-Tech has participated in the National Level Techno Management Cultural Fest Samyak13-14’ and presented a paper at K.L University from 20<sup>th</sup> -22<sup>nd</sup> February 2014.
7. M.Sai Chaitanya of II B-Tech has participated in the National Level Techno Management Cultural Fest Samyak13-14’ and presented a paper at K.L University from 20<sup>th</sup> -22<sup>nd</sup> February 2014.
8. T.Aasish, M.Surendra Babu, N.Vishnu Kumar, M.Sathwik, T.Sai Venkat of III B-Tech has participated in the speech, PC and Internet Controlled Robotics Workshop at Pragnan’14, the International Techno- Management festival of National Institute of Technology, Tiruchinapalli.
9. T.Aasish,M.Surendra Babu,N.Vishnu Kumar,M.Sathwik,T.Sai Venkat of III B-Tech has participated in RoboIngress, a two day workshop on Robotics recognized by SCIENCE PARK ,Korea in association with MSRDS-UG and AIESEC IIT Delhi a NIT, Trichy from 7<sup>th</sup> -8<sup>th</sup> March 2014.
10. M.Jagathi, T.Gayathri, T.Anoop Kumar, T.Sai Sudha Priya of III B-Tech has participated in a Three Day Workshop on “Aero Modeling” organized by AERO CLUB, Department of Aeronautical Engineering at P.V.P.Siddhartha Institute of Technology from 10<sup>th</sup> -12<sup>th</sup> March 2014.
11. Md.Azeezulla, Sk.Sadik of II B-Tech has participated at the Sixth National Level Technical Symposium and presented a paper on “Introduction to Robotics” at Nimra Group of Colleges on 22<sup>nd</sup> March 2014.
12. R.Suresh, S.Shanmukha Srinivas had participated in the Event Paper presentation at Mechanica’14 at Chaitanya Bharathi Institute of Technology (CBIT) from 24<sup>th</sup> -25<sup>th</sup> March 2014.
13. S.N.C.S Vamsi Krishna of III B-Tech has participated in Two- Day National Level Techno-Cultural Symposium DHANUSH-2014 and secured **2<sup>nd</sup> position** in the Event “Engine Assembly” at Dhanekula Institute of Engineering & Technology from 2<sup>nd</sup>-3<sup>rd</sup> April,2014.

14. V.Leelu Nitish, N.S.G.R.S.Siddhardha of III B-Tech has participated in the Event Race A Maze in Torque' 14 at JNTU-K from 29<sup>th</sup> -30<sup>th</sup> March, 2014.

15. S.Vamsi, R.Suresh, S.Shanmukha Srinivas of III B-Tech has participated in Two- Day National Level Techno-Cultural Symposium DHANUSH-2014 at Dhanekula Institute of Engineering & Technology from 2<sup>nd</sup>-3<sup>rd</sup> April, 2014.

• **Industrial Visits Organized**

<b>S.No</b>	<b>Year of Study</b>	<b>Name of the Industry Visited</b>	<b>Date of visit</b>	<b>Place</b>
1	III B.Tech I semester	K.C.P sugar Industry	23.01.2014	Vuyyuru
2	IV B.Tech II semester	Deepanjan power cables and Hal Aerospace Museum(industrial tour)	07.03.2014	Mysore &Bangalore
3	III B.Tech II semester	NTTPS thermal power plant	13.03.2014	Ibrahimpatnam
4	II(section-2) B.Tech II semester	Coca cola beverages	10.04.2014	Atmakuru, Guntur district
5	II(section-1) B.Tech II semester	Liners India limited	25.04.2014	Autonagar , Vijayawada



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**“NEWS LETTER”**

*JULY-DECEMBER, 2014*



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PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY, KANURU, VIJAYAWADA.  
MECHANICAL ENGINEERING DEPARTMENT

- Workshops/ Seminars/ Guest Lectures/ Training Programmes Conducted in the Department:

1. Department of Mechanical Engineering has organized a Guest Lecture on "NANO MATERIALS" on 05-07-2014 and the resource person was Dr. V. Vasu, Assistant Professor, Department of Mechanical Engineering, National Institute of Technology, Warangal.
2. Department of Mechanical Engineering has organized a talk on "INTERACTIVE SESSION FOR FACULTY" on 23-07-2014 and the resource person was Dr.V.Rama Chandra Raju Professor, Dept of Mechanical Engineering, Director CE-RDD JNTU, Kakinada.
3. Department of Mechanical Engineering has organized a Guest Lecture on "AUTOMATION" on 23-07-2014 and the resource person was Dr. G. Ranga Janardhan, Professor of Mechanical Engineering dept, Director IST, JNT University, Kakinada.
4. One day Training Programme on "EFFECTIVE TEACHING METHODOLOGIES" organized by ISTE chapter PVPSIT on 26.07.2014.
5. Department of Mechanical Engineering has organized a Seminar & Interactive Session on ENTREPRENEURSHIP-CONTEMPORARY ISSUES on 31-07-2014 and the resource person was Yugandhar Chakravarthy Kancherla, Director ,Indwell Construction Pvt. Ltd.
6. Department of Mechanical Engineering has organized a Guest Lecture on "OUT COME BASED EDUCATION" on 24-10-2014 and the resource person was Sri. A Sarath Babu, Professor of Mechanical Engineering dept, NIT, Warangal.
7. Department of Mechanical Engineering has organized a Guest Lecture on "AFDEX, Z-CAST and VMACHINE (Manufacturing related softwares), FLOWNEX and FLOWVISION (Thermal related softwares)" on 07-11-2014 and the resource person was Sri. Vittal Chulaki, Technical Manager, DHIO Research and Engineering Pvt.Ltd. Rajajinagar, Bangalore-560010.

8. Department of Mechanical Engineering has organized DST Sponsored A two day National Seminar on “SMART MATERIALS, ADAPTIVE STRUCTURES AND INTELLIGENT SYSTEMS” from 28.11.2014 to 29.11.2014 and the resource persons were Dr.L.Ramakrishna, Scientist-E, ARCI, Dr.K.Srikanth, Assistant professor, NIT Warangal., Dr.A.Rajan, Associate Professor, IIT Chennai., Dr.R.Vijay, Scientist –F, ARCI and Dr.T.N.Rao, Scientist – F, ARCI.



Four Photos related to A two day National Seminar on “SMART MATERIALS, ADAPTIVE STRUCTURES AND INTELLIGENT SYSTEMS”

- Faculty Attended Workshops/Seminars/Conferences/Faculty Development Programs:

1. K.Srividya , Ch.Kishore Reddy, K.Venkat Rao, P.Mastan Rao, K.Sri Ram Vikas, B.Kishore Kumar, P.Anusha, M.Naga Swapna Sri, Y. Mohan S.S.Ram has participated in the One Day Training Programme on “Effective Teaching Methodologies” at P.V.P.Siddhartha Institute of Technology on 26<sup>th</sup> July,2014.
2. G.Diwakar,Sd.Abdul Kalam,P.Ravi Kumar, K.I.V.Vandana,R.Rajya Lakshmi Ch.Mohan Sumanth, P.Mastan Rao, Mohan S.S.Ram ,G.Bala Krishna,N.Raghu Ram, K.Venkat Rao, T.Srinag ,Sri Ram Vikas has participated in one day Faculty Development Programme on “Recent Advances in Additive Manufacturing” at V.R.Siddhartha Engineering College on 18<sup>th</sup> Oct,2014.
3. K.Venkat Rao, P.Mastan Rao has participated in an AICTE sponsored short term course on “Fluid Dynamics-Theory to Industrial Applications (FTIA)” at IIT Madras from 17<sup>th</sup> -22<sup>nd</sup> Nov, 2014.

4. M.V.H. Satish Kumar, G. Diwakar , Dr.V.V. Sridhara Raju, K. Srividya , E. Kavitha , P. Ravi Kumar ,Abdul Kalam, P. Phani Prasanthi ,G.Bala Krishna, P.Anusha , K.I.V.Vandana , M.Rajya Lakshmi, M.Mounika, P.Srikant ,M. Naga Swapna Sri, K.Venkata Rao, N.Raghuram , Ch.Lakshmi Kanth , Ch.Kishore Reddy , Y. Mohan S.S.Ram , T.Srinag , P.Mastan Rao , Sri Ram Vikas B.Kishore Kumar, Ch.Mohan Sumanth, has participated in a 2-Day DST sponsored National Seminar on “Smart Materials, Adaptive Structures & Intelligent Systems” from 28<sup>th</sup> -29<sup>th</sup> Nov 2014 organised by the department of Mechanical Engineering, P.V.P.Siddhartha Institute of Technology.
5. P.Anusha , K.I.V.Vandana , M. Naga Swapna Sri has attended Faculty Development Programme on “ Modern Pnuematics Control- Theory and Practice” at National Institute of Technology, Calicut from 8<sup>th</sup> – 12<sup>th</sup> Dec,2014.
6. E.Kavitha, K.Srividya, N.Raghu Ram, Sri Ram Vikas has participated in one week Faculty Development Programme on “Recent Advances in Mechanical Engineering” at L.B.R.C.E, Mylavaram from 26<sup>th</sup> -30<sup>th</sup> Dec, 2014.

- Faculty Achievements (M.Phil/M.Tech., Ph.D., or any other higher qualification registered or awarded, guest lectures given, awards and rewards etc.):

Ph.D Awarded- 1) Dr. V.V.Sridhara Raju, Mechanical Engg. Dept.

- Papers Published:

#### **International Journal**

1. G.Dilli Babu, K. Sivaji Babu, B. Uma Maheshwar Gowd, “Determination of Delamination and Tensile Strength of Drilled Natural Fiber Reinforced Composites”, Applied Mechanics and Materials, Doi:10.4028, Vol. 592-594, 2014, pp. 134-138
2. G.Dilli Babu, K. Sivaji Babu, B. Uma Maheshwar Gowd, “Evaluation of Surface Roughness of Machined Fiber Reinforced Composites Plastics using Image Processing”, Doi:10.4028, Vol. 573, 2014, pp. 627-631
3. Narra. Tilak Ratan, G. Vijay Kumar, M. Rajya Lakshmi, “Free Vibration Analysis of Polypropylene-Nanoclay Composite Beam with Crack”, International Journal of Modern Engineering Research (IJMER), ISSN: 2249–6645, Vol. 4, Iss.7, July. 2014, pp. 40-46.

4. P. Prasanthi, G. Sambasiva Rao, B. Umamaheswar Gowd, Mechanical Properties of Nano and Nano Based Composites-A Review International Journal Of Engineering Sciences & Research Technology, ISSN: 2277-9655, Scientific Journal Impact Factor: 3.449(ISRA), I F: 1.852, Vol. 3, Issue 7, July 2014, pp.52-71
5. G.Mahendra, K. Srividya, Ch.Kishore Reddy and E.Kavitha, "Hygrothermal degradation studies on E-glass Woven Rovings Epoxy Composite", International Journal of Engineering Sciences and Research Technology, ISSN: 2277-9655, Impact Factor: 3.449, Vol. 3, Issue 8, Aug. 2014, pp.608-613.
6. Md. Faridha Khanam, P. Ravi Kumar, Dr. D. Srinivasarao, "Wavelet Analysis of Vibration Signature of a Bevel Gear Box in a Stand of Steel Rolling Mill of a Steel Plant" International Journal of Modern Engineering Research, ISSN: 2249-6645, Vol. 8 Issue 8, Aug 2014, pp.15-22
7. Venkateswara Rao T, Venkatarao K, Lakshmikanth Ch, "Mechanical Properties of Bamboo Fibre filled with Fly Ash filler Reinforced Hybrid Composites", International Journal of Engineering Research & Technology, ISSN: 2278-0181, Vol.3 Issue 9, September 2014, pp. 725-732.
8. Ch.Jeevitha, M.Mounika, P.Phani Prasanthi, "Evaluation of Geometrical Nonlinear Behavior of FRP composite plate using Finite Element Method", International Journal of Science Engineering and Advance Technology, ISSN: 2321-6905, Vol. 2 Issue 10, Oct. 2014, pp.542-546
9. P.Arun Kumar, Sd.Abdul Kalam, Dr. R. Vijaya Kumar, "Soft body impact on Aircraft Structures", International Journal of Engineering Research & Technology, ISSN: 2278-0181, Vol. 3 Issue 10, Oct.2014, pp.886-892
10. V Suma Priya, BVS Raghu Vamsi, E. Kavitha, K. Srividya, "Frequency response analysis of the gear box in a lathe machine using transfer functions", International Journal of Scientific and Research Publications, ISSN: 2250-3153, Vol. 4 Issue 11, Nov. 2014
11. Anusha Peyyala, Dr.N.V.V.S.Sudheer, "Evaluation of Mass Fluxes and Phase Parameters to Identify the Adiabatic two Phase, Flow Patterns in Vertical And Horizontal Tubes", International Journal Of Engineering Sciences & Research Technology, ISSN: 2277-9655, Scientific Journal Impact Factor: 3.449(ISRA), Impact Factor: 1.852, IJESRT 3 (11), Nov. 2014,pp.513-520

## International Conference

1. P.Prasanthi, G. Sambasiva Rao, B.Umamaheswara Gowd, " Effectiveness of Buckminster Fullerene Reinforcement on Mechanical Properties of FRP Composites", 3rd International Conference on Materials Processing and Characterisation (ICMPC - 2014), Gokaraju Gangaraju Engineering College, Hyderabad.

## • Student Achievements:

1. Adithya Vishnu Vardhan of II B.Tech has attended Automobile Training Programme on Vehicle Overhauling at SRM University from 10<sup>th</sup> -11<sup>th</sup> September, 2014.
2. T.Balaji & T.Sai Venkat of IV B.Tech has participated in Engineers day and presented a Technical Paper on "Gear Transmission Mechanism by Voice Recognition" and won 1<sup>st</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
3. T.Aasish & N.Vamsi Mallikharjuna of IV B.Tech has participated in Engineers day celebrations and presented a Technical Paper on "Hydrogen Cars" and won 2<sup>nd</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
4. D.Sravana Teja & B.A.Satyanarayana of III B.Tech has participated in Engineers day and presented a Technical Paper on "Plastic Welding" and won 1<sup>st</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
5. V.S.L.N.Prashanth & V.Sai Avinash of III B.Tech has participated in Engineers day and presented a Technical Paper on "Nitrous oxide System" and won 1<sup>st</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
6. G.Pavan Krishna of III B.Tech has participated in Engineers day and presented a Technical Paper on "Smart Highway Power Generation using Speed Breakers" and won 2<sup>nd</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
7. Y.Phanichandra of III B.Tech has participated in Engineers day and presented a Technical Paper on "Boundary Layers" and won 2<sup>nd</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
8. A.Yashwanth Reddy of III B.Tech has participated in Engineers day and presented a Technical Paper on "Wankel Rotary Engine" and won consolation prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.

9. N.Bhanu Teja of III B.Tech has participated in Engineers day and presented a Technical Paper on "Design Procedure" and won consolation prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
10. V.Leelu Nitish & N.Siddhartha of II B.Tech has participated in Engineers day and presented a Technical Paper on "Safety precautions for Automobiles" and won 1<sup>st</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
11. T.Sai Chand & M.Sunil of II B.Tech has participated in Engineers day and presented a Technical Paper on "Electricity Generation from Speed Breakers" and won 2<sup>nd</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
12. S.N.C.S.Vamsi Krishna of IV B.Tech has participated in Engineers day and presented a Technical Paper on "Powered Exoskeleton" at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
13. A.Shabash & V.Chinna Venkateswarulu of IV B.Tech has participated in Engineers day and presented a Technical Paper on "Suspension system in Automobiles" at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
14. D.Chaitanya M.Jithendra Gopinath of III B.Tech has participated in Engineers day and presented a Technical Paper on "Nano Technology in Thermal Applications" at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
15. A.Rikesh Vardhan & A.Anil of III B.Tech has participated in Engineers day and presented a Technical Paper on "Eight stroke Gas/water hybrid Engines" at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
16. Y.Bhanu Suhas of III B.Tech has participated in Engineers day and presented a Technical Paper on "Air powered cars" at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
17. Eshwar Sahithya of IV B.Tech has participated in Design contest on Engineers day and won 1<sup>st</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
18. Nazeer Baig of III B.Tech has participated in Design contest on Engineers day and won 1<sup>st</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
19. N.Bhanu Teja of III B.Tech has participated in Design contest on Engineers day and won 1<sup>st</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
20. A.Eshwar Prasad of III B.Tech has participated in Design contest on Engineers day and won 2<sup>nd</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
21. V.Adithya of III B.Tech has participated in Design contest on Engineers day and won 2<sup>nd</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
22. Sk.Md.Naseeruddin Sha of II B.Tech has participated in Design contest on Engineers day and won 1<sup>st</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
23. J.Manideep of II B.Tech has participated in Design contest on Engineers day and won 1<sup>st</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
24. B.Yaswanth of III B.Tech has participated in Design contest on Engineers day and won 2<sup>nd</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.

25. P.Kranthi Kiran of III B.Tech has participated in Design contest on Engineers day and won 2<sup>nd</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
26. A.Kranthi Kumar, A.Sai Dinesh, A.Anil, A.Yashwanth Vihari, B.Naga Raju, Ch.S.S.Venkatesh, D.Appalaswamy, D.Chaitanya,G.Sri Naga Sai,J.Abshalam,J.Eshwar Kumar,M.S.N.V.Krishna,M.Yesu Ratnam,M.Naga Harish,M.S.S.S..Chaitanya, D.Sravana Teja, A.Rikesh Vardhan, B.Kanaka Raju, B.Prasad of III B.Tech (sec-1) has participated in Design contest on Engineers day at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
27. Sk.Karim Babu, S.Divakar, Y.Phani Chandra, V.Sai Avinash, V.Sai Krishna,V.Dinesh,V.Murali,V.S.L.N.Prashanth,V.Bala Ram, V.Manikanta, T.Vikram, Y.Devi, N.Sravya, Md.Azeezulla, S.Naveen Kumar, S.V.V.Avinash, R.Jagannath, G.Pradeep,P.Ganesh Varma, P.V.Subrahmanyam, P.V.Himaja, O.H.R.Krishna, N.Sai Kiran,T.Chandrahass,T.Rakesh Chandra of III B.Tech (sec-2)has participated in Design contest on Engineers day at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
28. K.Bala Bhaskar, D.Siva Sai Krishna of II B.Tech (sec-1) has participated in Design contest on Engineers day at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
29. N.Vinuthna,Md.Yasin Nawar,T.Sai Priya,T.Yashwanth Varma,V.Navya,V.Leelu Nitish,J.Vijaya Babu,Y.Mounika,S.Bhagya Lakshmi,N.S.G.R.S.Siddhartha of II B.Tech (sec-2)has participated in Design contest on Engineers day at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
30. A.V.Gopi Krishna,A.Sai Dinesh,D.Akhil Babu has participated in Quiz contest on Engineers day and won 1<sup>st</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
31. P.R.R.V.Manikanta Rao,R.Jagannath,D.Siva Sai Krishna has participated in Quiz contest on Engineers day and won 2<sup>nd</sup> prize at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
32. T.Balaji, S.Venumadhav, A.Shabash of IV B.Tech has participated in Quiz contest on Engineers day at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
33. G.Pradeep, J.Siva Raj, M.N.S.V.Krishna, N.Bhanu Teja, V.S.L.N.Prasanth of III B.Tech has participated in Quiz contest on Engineers day at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
34. P.Lakshman Rao, B.Yashwanth, R.Anoop of IIB.Tech has participated in Quiz contest on Engineers day at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2014.
35. M.S.S.S.Chaitanya of III B.Tech has participated in Two Day workshop on Automobile IC Engine Design organized by Aeroatrix at DVR&Dr.Ms MIC College of Technology from 5<sup>th</sup> -6<sup>th</sup> September, 2014.
36. D.Sravana Teja of III B.Tech has participated in theNational Level Technical Symposium, EPISTEMICON 2K14 and presented a paper on "welding of plastics" at Andhra Loyola Institute of Engineering and Technology on 27<sup>th</sup> Sep,2014.
37. P.Lakshman Rao ,Shaik.Mafeed of II B.Tech has participated in Glider Design,Fabrication and Testing organized by AeroetriX at Birla Institute of Technology & Science(BITS) Pilani,Hyderabad Campus on 10<sup>th</sup> October,2014.



38. P.Lakshman Rao ,Shaik.Mafeed of II B.Tech has participated in the Augmented Reality Event at ATMOS'14 at Birla Institute of Technology & Science(BITS) Pilani,Hyderabad Campus on 10<sup>th</sup> October,2014.
39. P.Lakshman Rao ,Shaik.Mafeed of II B.Tech has participated in the Glider Making Event at ATMOS'14 at Birla Institute of Technology & Science(BITS) Pilani,Hyderabad Campus on 10<sup>th</sup> October,2014.
40. T.Yaswanth Varma of II B.Tech has participated in Glider Design, Fabrication and Testing Event at Annual Techno Management Fest(ATMOS'14)and has received a certificate of Excellence as Best Fabrication at Birla Institute of Technology & Science(BITS) Pilani,Hyderabad Campus on 10<sup>th</sup> October,2014.
41. Md.Yasin Nawaz of II B.Tech has participated in Glider Design, Fabrication and Testing Event at Annual Techno Mngement Fest(ATMOS'14)and has received a certificate of Excellence as Fabrication at Birla Institute of Technology & Science(BITS) Pilani,Hyderabad Campus on 10<sup>th</sup> October,2014.
42. P.Suresh Datta , Md.Ibrahim ,P.P.Vardhan ,N.Bhavani , N.S.P.Sruthi , N.V.L.Ramya , M.Naveen Babu , M.Srikanth , V.Rohith , P.Sai Ram , V.V.S.Kiran , M.Puneeth , Ch.Mounika , Ch.Revanth , T. Yashwanth Varma , M.Gopala Krishna , R.Anoop , Y. Mounika , V.Navya , S.Bhagya Lakshmi , Md.Yasin Nawaz , N.S.G.R.S. Siddhartha,V.Leelu Nitish , K.Sai Chand , K.Eshwar , S.Sree Harsha of I B.Tech has participated inSWACHH BHARAT ABHIYAN at P.V.P.S.I.T on 1<sup>st</sup> Nov , 2014.
43. K.Ashish Kumar , M.Jithendra Gopinath , Md. Abdul Naveed of III B.Tech has completed a project work with title as " Study on steam, Gas Turbines and Compressors" at Bharat Heavy Electricals Limited, Heavy power Equipment plant, Ramachandrapuram, Hyderabad from 8<sup>th</sup> -22<sup>nd</sup> Dec, 2014.
44. A.Eshwar Prasad, A.Rikesh Vardhan , G. Naga Sai of III B.Tech has secured 1<sup>st</sup> prize in Model Presentation on the occasion of Energy Conservation Day & Week Celebrations jointly conducted by P.V.P.S.I.T & New and Renewable Energy Development Corporation of Andhra Pradesh Ltd on 19<sup>th</sup> Dec, 2014.
45. D.Sravana Teja & B.A.Satyanarayana of III B.Tech has participated in Model Presentation on the occasion of Energy Conservation Day & Week Celebrations jointly conducted by P.V.P.S.I.T & New and Renewable Energy Development Corporation of Andhra Pradesh Ltd on 19<sup>th</sup> Dec, 2014.
46. D.Sravana Teja of III B.Tech has participated in Elocution on the occasion of Energy Conservation Day & Week Celebrations jointly conducted by P.V.P.S.I.T & New and Renewable Energy Development Corporation of Andhra Pradesh Ltd on 19<sup>th</sup> Dec, 2014.
47. A.V.Gopi Krishna of IV B.Tech has participated in Elocution on the occasion of Energy Conservation Day & Week Celebrations jointly conducted by P.V.P.S.I.T & New and Renewable Energy Development Corporation of Andhra Pradesh Ltd on 19<sup>th</sup> Dec, 2014.
48. V.Sai Krishna,P.Ganesh Varma ,S.K.Saddam Hussain ,Sd.Irshad Ahmed,T.Mohith, O.Hemanth ,Y.Bhanu Suhas ,Y.Phani Chandra , V.Kishore , U.Pavan Goud , V.Dinesh , V.Adithya , B.Rico , M.Sai Chaitanya , V.Doondi Bala Chakradhar ,T.Rakesh Chandra , G.Pradeep , P.Jaswanth of III B.Tech has participated in a 5 day Industrial Training Programme on " Pnuematics, Hydraulics and CNC(Turning/Milling) conducted by TVS Training and services Ltd.,Vanagaram, Chennai from 22<sup>nd</sup> -26<sup>th</sup> Dec ,2014.

- Industrial Visits:

S.No	Year of Study	Name of the Industry Visited	Date(s) of visit	Place
1	IV B.Tech I semester	Lorry owners Driving institute & research centre	31.07.2014	Ambapuram
2	IV B.Tech I semester	Wagon Workshop(Hydraulic Track Machines)	20.09.2014	Rayanapadu
3	III(sec-1) B.Tech I semester	NTTPS thermal power plant	15.09.2014	Ibrahimpattinam
4	III(sec-2) B.Tech I semester	NTTPS thermal power plant	16.09.2014	Ibrahimpattinam
5	II(sec-2) B.Tech I semester	Kristna Engineering works	05.11.2014	Enikepadu
6	II(sec-1) B.Tech I semester	Kristna Engineering works	06.11.2014	Enikepadu
7	III(sec-2) B.Tech I semester(18students)	TVS Training School	22.12.2014 to 26.12.2014	Chennai