

CURRICULUM VITAE



Name : Dr. Jyothula Suresh Kumar

Date of Birth : 14-08-1971

Designation : Professor in Mechanical Engineering,
Department of Mechanical Engineering

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JNT University Hyderabad
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Bhagyanagar Phase - III, Kukatpally,
Hyderabad 500 072

EDUCATIONAL QUALIFICATIONS:

University	Degree	Class	Year of Completion	Field of Specialization
Jawaharlal Nehru Technological University, Hyderabad	Ph.D.	--	2005	Composite Structures
Jawaharlal Nehru Technological University, Hyderabad	M.Tech.	First Class with Distinction	1995	Machine Design
Nagarjuna University	B.Tech.	First Class	1992	Mechanical Engineering

EXPERIENCE:

S.No.	Designation	Institute	From	To
1.	Lecturer (Mech. Engineering)	VRS Engg. College, Vijayawada	Sept.1996	Sept. 1997
2.	Assistant Professor (Mech. Engineering)	JNTU College of Engineering, Kakinada	Sept.1997	Nov. 2005
3.	Associate Professor (Mech. Engineering)	JNTU College of Engineering, Hyderabad	Nov. 2005	Nov. 2011
4.	Professor (Mech. Engineering)	JNTUH College of Engineering, Hyderabad	Nov. 2011	Till to date

OTHER RELATED EXPERIENCE- RESEARCH, INDUSTRIAL ETC.:

Organization/Employer	Designation/Project title	Period
Golden Agro-Tech Industries Ltd,	Erection Engineer Plant Engineer	15 th May 1992 – 18 th Sept. 93 25 th May 1995 – 20 th Sept. 96

ADMINISTRATIVE EXPERIENCE:

S.No.	Designation	Institute	From	To
1.	Dy. Warden	JNTU College of Engineering Hostels, Kakinada	15-03-1998	04-06-2007
2.	Officer in charge of SC/ST Book Bank	JNTU College of Engineering, Kakinada	04-02-2000	04-06-2007
3.	Officer in charge of Examinations	JNTU College of Engineering, Kakinada	01-03-2007	04-06-2007
4.	Addl. Controller of Examinations	JNT University, Hyderabad	05-06-2007	19-09-2008
5.	Co-Ordinator for PG (AMS) Programme	JNTUH College of Engineering	01-05-2009	06-11-2011
6.	Work shop Superintendent	JNTUH College of Engineering	26-02-2010	15-06-2016
7.	NSS Program Officer	JNTUH College of Engineering	06-09-2010	15-05-2014
8.	Training and Placement Officer	JNTUH College of Engineering, Hyderabad	Sept.2012	May 2021

9.	TEQIP – II Coordinator for Industry Institute Interaction Cell (IIIC)	JNTUH College of Engineering, Hyderabad	06-09-2010	01-02-2014
10.	TEQIP – II Coordinator for Monitoring and Evaluation Unit (M & E)	JNTUH College of Engineering, Hyderabad	01-02-2014	Till Date
11.	TEQIP – II Coordinator for Finishing Schools	JNTUH College of Engineering, Hyderabad		
12.	TEQIP – II Students Coordinator	JNTUH College of Engineering, Hyderabad		
13.	Coordinator, Forest Department Recruitment Tests - 2014	JNTUH College of Engineering, Hyderabad		
14.	Co-Ordinator for PG Programme (Engineering Design)	JNTUH College of Engineering, Hyderabad	05-08-2010	Till date
15.	Head, Department of Mechanical Engineering	JNTUH College of Engineering, Hyderabad	15-06-2016	11-11-2018
16.	Deputy Director	University Industry Interaction Center, JNTUH	23-10-2022	Till date

Membership of Reputed Professional Bodies:

- Life member of India Society for Technical Education (I.S.T.E.)
- Member of Board of Studies, Mechanical Engineering, JNT University, Hyderabad

Deputy warden:

Arranged maximum number of Hostel meetings in order to discuss various issues pertaining to hostel and co-curricular. Arranged number of seminars among the students hostel-wise for inmates of hostel to improve their communication skills.

Officer – in- charge of Examinations:

Supervising, Planning and organizing all the works related to examinations at JNTU College of Engineering, Kakinada. Conducting internal and University examinations for B.Tech., M.Tech., Pre

Ph.D., M.C.A., Courses. Finalization of academic calendars, Time Tables, Allotment of Class rooms, in addition to admissions and Results Processing work pertaining to Autonomous College.

A new and efficient method of recording of attendance, marks, results of individual student (which helps easy verification and access) is designed and introduced.

To Monitor and conduct University examinations for the affiliated colleges (85 Colleges). To arrange spot valuation at different centers and arrange for the final award lists so as to announce the results by the University. Completed the spot valuation in record time, compared to the other nodal centers. A nodal system for issuing the certificates to students to introduced in order to facilitate the students, to obtain different certificates from colleges comfortable and quickly.

Addl. Controller of Examinations, JNT University:

Had played key-role in arranging, organizing, planning etc. of the various examinations of the University of U.G., P.G. & Ph.D. To monitor and conduct University examinations for the affiliated colleges. To arrange spot valuation to different additional spot centers so as to announce the results within the stipulated time by the University.

Co-Ordinator PG (Departmental Program) Programme:

As per curriculum the PG program is a two years course consists of the first one-year class work and latter part is a project work. As a co-ordinator I received good appreciation from both teaching faculty and students in discharging my duties like the preparation of academic calendar, conducting seminars, allotment of supervisors and conduct of final Viva –voce examination etc.;

Orientation/refresher courses Attended:

1. A Four-week Orientation course conducted by academic staff college, JNTU, Hyderabad on in the subject of “**Mechanical Engineering**” 12th December 2001 to 10th January 2002.
2. A three-week refresher course conducted by academic staff college, JNTU, Hyderabad on “**Computational Methods in Design and Analysis of Smart Composites**” 30th May 2005 – 18th June 2005.
3. A three-week refresher course conducted by UGC academic staff college, JNTU, Hyderabad on “**Environmental Management**” 17th November 2004 to 7th December 2004.
4. AICTE / ISTE sponsored Technical Teachers Induction Training Programme conducted by college of Engineering, JNTU, Kakinada 22nd May 2000 – 9th June 2000.

Winter / Summer Schools, Work Shops Attended:

1. AICTE / ISTE short term course on “**Technology Evaluation and Upgradation in the Functional Areas of Ceramic Manufacturing Systems**”, conducted by Department of Mechanical Engineering, Kakatiya Institute of Technology and Science, Warangal, 11th December 2000 to 23rd December 2000.
2. AICTE sponsored short term training programme under QIP on “**Advances in Composite Materials**”, at composites Technology center, IIT, CHENNAI 3rd December 2001 to 7th December 2001.
3. AICTE / ISTE short term training program on “**Alternative fuels of IC Engines and their impact on Environment**”, organized by Department of Mechanical Engineering, JNTU College of Engineering, Kakinada 17-21 June 2008
4. Work shop on “**ISO 9000 Quality Systems**” organized by Mechanical Engineering Department, V.R Siddhartha Engineering College, Vijayawada on 20th Feb. 1997.
5. A National Workshop on “**Web Designing and Web Hosting Techniques**” organized by Department of Electronics & Communications Engineering, JNTU College of Engineering, Kakinada 16th March 2000 to 18th March 2000.
6. Work shop on “**Recent Trends in CNC Machining**” organized by Department of Mechanical Engineering, JNTU College of Engineering, Anantapur in association with CADEM, Bangalore on 19th & 20th August 2005.
7. Work shop on “**Modern Engineering Workshop Practice**” organized by Department of Mechanical Engineering, JNTU College of Engineering, Kakinada in association with Academic Staff College, JNTU, Hyderabad on 7th January, 2006.
8. One week community program on “**Automobile Technology (Repair & Maintenance)**” organized by Department of Mechanical Engineering, JNTUH College of Engineering, Hyderabad from 23 – 28th March 2009
9. A program on “**Train the Trainer**” organized by Education Times, The times of India for 6 days in the month of March 2009.
10. Work shop on “**Recent Trends in Technical Education**”, organized by UGC Academic Staff College, JNT University, Hyderabad 20th March 2010

Conferences/Short-term courses/Workshops conducted:

In the Capacity of Co-Ordinator

1. National Conference on Recent trends in CAD/CAM, **MEAK2K2**, 29 & 30th March 2002, at JNTU College of Engg., Kakinada
2. ISTE/AICTE Short Term Training Programme on Advances in FEM, January 03 – 07, 2005, at JNTU College of Engg., Kakinada
3. National Level Student Technical Symposium, **TORQUE'05**, 16 – 17th December, 2005, at JNTU College of Engg., Kakinada
4. Workshop on CAD/CAM software under Community services 17 – 21 Jan. 2006, at JNTU College of Engg., Kakinada
5. Refresher course on Design and Applications of Robotic Systems and Advanced Mechanisms from 08-03-2010 to 31-03-2010 sponsored by University Grants Commission, at Academic Staff College, JNTUH, Hyderabad.
6. A workshop on " Know your Student" 30th & 31st Oct. 2013, at JNTUH College of Engineering Hyderabad, Kukatpally, HYDERABAD under TEQIP - II.
7. National Level Student Technical Symposium, CONNAISSANCE - 2015, 11-12 March-2015 at JNTUH College of Engineering Hyderabad, Kukatpally, HYDERABAD.
8. Six one Week Finishing Schools on Numerical, Quantitative Aptitude and Personality development, 19th May, 2015 to 28th June, 2015 at JNTUH College of Engineering Hyderabad, Kukatpally, HYDERABAD under TEQIP - II.
9. Three Week Finishing Schools on Numerical, Quantitative Aptitude and Personality development, 11th May, 2015 to 30th May, 2015 at JNTUH College of Engineering Hyderabad, Kukatpally, HYDERABAD under TEQIP - II.
10. A Guest Lecture on Advanced Micromachining Systems under TEQIP - II, 3rd Oct. 2015 by Dr. G. L. Samuel, Assoc. Professor, IIT, Madras
11. A Guest Lecture on Advanced Research in Mechanical Engineering at IITs under TEQIP - II, 13th Nov. 2015 by Dr. J. Ramkumar, Professor, IIT, Kanpur

In the Capacity of Treasurer

1. A National Technical Symposium on MECHVISION 2K, 2000, at JNTU College of Engg., Kakinada.
2. A National conference on “Design, Simulation and Modeling of Mechanical systems” was conducted during 7-8th May 2004, at JNTU College of Engg., Kakinada
3. National Conference on “Composite Component Construction “was conducted during 12 - 13th September 2005 at JNTU College of Engineering, Kakinada.
4. The department has conducted a National level conference on “Advances in CAD/CAM” on 27th & 28th February 2006, at JNTU College of Engineering, Kakinada.

In the Capacity of Technical Adviser:

1. International Conference on IC Engines – 2007 (ICONICE-2007) Dec. 6th to 9th, 2007 at JNT University, Hyderabad

In the Capacity of Co-Convener:

1. The 3rd International Conference on Recent Advances in Design, Development and Operation of Micro Air Vehicles, ICRAMAV - 2014, 5-7 November 2014

Research Consultant:

1. Design consultant for Trailers used for Heavy duty applications
2. Design consultant in the capacity of co-investigator for a design of Heat Exchanger pertaining to DRDO, Ministry of Defense Project.
3. Finite Element Analysis and Design of air filter structures for American air filters company through Techmahindra P. Ltd., India.

LIST OF PUBLICATIONS IN CONFERENCES / JOURNALS

International Journals

1. Micromechanical Analysis of Hybrid Discontinuous Fiber Reinforced Composite for longitudinal loading, International journal of applied engineering research, ISSN 0973 – 4562, Vol.3, Number 7(2008), pp. 939-953.
2. Prediction of Surface Roughness in Turning Using adaptive Neuro-Fuzzy Inference System, Jordan Journal of Mechanical and Industrial Engineering, ISSN 1995-6665, Volume 3, Number 4, December 2009, PP 252 – 259.
3. Application of Soft Computing for the Prediction of Warpage of Plastic Injection Molded Parts, Journal of Engineering Science and Technology Review, ISSN 1791-2377, 2 (1) (2009) PP56-62.
4. Turmeric FRP Composites: Experimental Determination of Flexural and Impact Properties, International Journal of Applied Engineering Research, ISSN 0973-4562, Volume 4 Number 7 (2009) pp. 1323–1332.
5. Effect of Environmental Conditions on Okra Fiber: Flexural and Impact Properties of Okra Fiber Reinforced Polyester Composites, International Journal of Applied Engineering Research, ISSN 0973-4562, Volume 4 Number 9 (2009) pp. 1833–1849.
6. Application of Taguchi and Response Surface Methodology for Biodiesel Production from Alkali Catalyzed Transesterification of Waste Cooking Oil, International Journal of Applied Engineering Research, ISSN 0973-4562, Volume 4 Number 7 (2009) pp. 1169–1184.
7. Experimental determination of tensile properties of okra, sisal and banana fiber reinforced polyester composites, Indian Journal of Science and Technology, ISSN: 0974- 6846, Vol.2 No. 7 (July 2009), PP 35-38.
8. Tensile properties characterization of okra woven fiber reinforced polyester composites, International Journal of Engineering, (IJE) Volume (3) : Issue (4), PP 403-412, 2009.
9. Experimental determination of optimum dielectric strength of Turmeric Fiber reinforced Polyester Composites using Flexural Properties, International Journal of Engineering and Technology, Vol. 1(2), 2009, PP 70-76.
10. Active Vibration Control of Composite Cylindrical Shell Structure using Piezoelectric Composite Actuators, International Journal of Applied Engineering Research, ISSN 0973-4562, Volume 5 Number 6 (2010) pp. 979–996.

11. MultiObjective Optimization Of Axial Flow Compressor Stage Using Genetic Algorithm Approach, International Journal of Applied Engineering Research, ISSN 0973-4562, Vol.5 Number 10, PP 1827- 1842, 2010
12. Prediction of C.I. Engine Performance and NOx Emission Using Canfis, International Journal of Applied Engineering Research, ISSN 0973-4562, Volume 5, Number 5 (2010) pp. 763–778.
13. Parametric study of electrical Discharge machining of AISI 304 Stainless steel, International Journal of Engineering Science and Technology, ISSN 0975-5462, Vol. 2(8), 2010, 3535-3550.
14. Nonlinear Analysis for Interlaminar Stresses in Cross-Ply Laminates with A Circular Cutout, International Journal of Materials Science, ISSN 0973-4589, Volume 5, Number 6 (2010), pp. 831–838.
15. Nonlinear Analysis of FRP Laminates with Circular Cutout”, International Journal of Applied Engineering Research, ISSN 0973-4562, Volume 5 Number 18 (2010) pp. 3097–3104.
16. Analysis of Thermodynamic Characteristics of Loop Heat Pipe using CFD, International Journal of Applied Engineering Research, ISSN 0973-4562, Volume 5 Number 18 (2010) pp. 2999–3006.
17. Optimization of Axial Compressor Stage using NSGA – II Technique, ARPN Journal of Engineering and applied Sciences, ISSN 1819 – 6608, Vol. 5, No.12, December 2010, 1-6.
18. Selective model space control approach for smart composite cylindrical shell structure, ARPN Journal of Engineering and applied Sciences, ISSN 1819 – 6608, Vol. 6, No.3, March 2011, pp 67-74.
19. Fuzzy modeling for Electrical Discharge Machining of AISI 304 Stainless Steel, Journal of Applied Sciences Research, ISSN 1819-544X,6(11): pp 1687-1700, 2010.
20. Fracture Analysis of Adhesively Bounded Single Lap Joint in [0/0] s Laminated FRP Composites, International Journal of Applied Engineering Research, ISSN 0973-4562, Volume 5 Number 18 (2010) pp. 3105–3114.
21. A Non-Elitist Multi Objective Genetic Algorithm for Axial Compressor Stage Optimization”, International Journal of Engineering Science and Technology, ISSN 0975- 5462, Vol. 3, No. 2, Feb 2011 940 – 947.
22. Nonlinear bending Analysis of functionally Graded plates Using Higher Order Theory”, International Journal of Engineering Science and Technology, ISSN: 0975-5462, Vol. 3 No. 4 April 2011, PP 3010 – 3022.

Geometrically non-linear Analysis of functionally Graded material plates Using Higher Order Theory, International Journal of Engineering, Science and Technology, ISSN: 2141 – 2820, Vol. 3, No.1 April 2011, PP 279 – 288.

24. Vibration analysis of Composite Laminated Plates using Higher-order shear deformation theory with Zig-Zag Function”, Indian Journal of Science and Technology, ISSN: 0974- 6846, Vol. 4 No. 8 (Aug 2011), pp 960-966.
25. Effect of thickness ratio on Nonlinear Static behaviour of Skew Bidirectional FRP Laminates with Circular Cutout, International journal of applied engineering research, ISSN 0976– 4259, volume 1, No 4, 2011, pp 923 – 932.
26. A modal approach for vibration analysis and condition monitoring of a centrifugal pump, International journal of engineering science and technology, ISSN: 0975-5462, Vol.3, pp.6335-6344, Aug 2011.
27. Finite element analysis of centrifugal pump casings to detect the crack at the tongue region, International Journal of Engineering Science and Technology, ISSN: 0975-5462, vol. 3 no. 9 September 2011, 7161-7169.
28. Effect of Ply Orientation on Nonlinear Static Behaviour of Skew Bidirectional FRP Laminates with Circular Cutout, International Journal of Theoretical and Applied Mechanics, ISSN 0973-6085, Volume 6, Number 2 (2011) pp. 211-221.
29. Higher order theory for free vibration analysis of Functionally graded material plates, ARPN Journal of Engineering and Applied Sciences, ISSN 1819-6608, vol. 6, no. 10, October 2011, pp 105 – 111.
30. Nonlinear Thermal Analysis of Functionally Graded Plates Using Higher Order Theory, Innovative Systems Design and Engineering, ISSN 2222-2871, Vol 2, No 5, 2011, pp 1-13.
31. Nonlinear analysis of Skew FRP laminates with Circular cutout, International Journal of Systems and Technologies, ISSN 0974– 2107 Vol.4, No.1, 2011, pp 33 – 41.
32. Thermal analysis of Composite Laminated Plates using Higher-order shear deformation theory with Zig-Zag Function, International Journal of Science& Emerging Technologies, ISSN: 2048 – 8688, Vol-2 No. 2 November, 2011, pp 53-57.
33. Structural Analysis of Delta Parallel Robot for Cardio Applications, International Journal of Mechanical Engineering, ISSN: 0974-5823, July-December 2011, Volume 4, Issue 2, pp 123 – 128.
34. Effect of skew angle on nonlinear static behavior of fiber reinforced plastic (FRP) laminates with circular cutout, International Journal of the Physical Sciences, ISSN 1992 – 1950, Vol. 6(31), 30 November, 2011, pp. 7119 – 7124.
35. Fracture Analysis of Adhesively Bounded Single Lap Joint with four layered angle ply antisymmetric adherends, International Journal of theoretical and applied mechanics, ISSN 0973- 6083, Volume 6 Number 2 (2011) pp. 185-199.

36. Fracture Analysis of Adhesively Bounded Single Lap Joint with four layered $[+0/-0]_s$ adherends, International Journal of applied engineering research, ISSN 0976 – 4259, Volume 1 Number 4 (2011) pp. 951-960.
37. Determination of Stress Concentration Factor in Spur Gears using Finite Element Analysis, International Journal of Advances in Science and Technology, ISSN 2229 -5216, Vol. 3, No.6, 2011, pp 78 – 85.
38. Fracture behaviour of adhesively bonded single lap joint with 45° ply oriented four layered symmetric and antisymmetric adherends, International Journal of the Physical Sciences, ISSN 1992 – 1950.
39. Bending analysis of composite laminated plates using higher-order shear deformation theory with zig-zag function, ARPN Journal of Engineering and Applied Sciences, ISSN 1819-6608, December 2011 Vol. 6 No. 12.
40. Fracture Behaviour of Adhesively bonded Single Lap joint with 45° ply oriented four layered Symmetric and Antisymmetric Adherends, International Journal of the Physical Sciences, ISSN 1992 – 1950.
41. Transient analysis of Composite Laminated Plates using Higher-order shear deformation theory with Zig-Zag Function, International Journal of Applied Science and Engineering Research, ISSN December - February, 2011- Volume 2, Issue 3, 2011.
42. P. Ravikanth Raju, J. Suresh Kumar, M. V. Lakshmi Prakash, “Buckling Analysis of Smart Material Plates Using Higher Order Theory”, IOSR Journal of Mechanical and Civil Engineering, Vol. 11, Issue 5 Ver. IV (Sep- Oct. 2014), PP 55-60.
43. P. Venkatesh, P. Ravikanth Raju, J. Suresh Kumar, “Analysis and Optimization of Composite Sandwich Structures using Optistruct”, International Journal of Engineering Research & Technology, Vol. 3 Issue 10, October-2014, PP 699-704.
44. P. Ravikanth Raju, J. Suresh Kumar, M. V. Lakshmi Prakash, “Analysis of Smart Antisymmetric Composite Laminated Plates using HSDT”, International Journal of Engineering Research & Technology, Vol. 3 Issue 11, November-2014, PP 1352-1356.
45. P. Ravikanth Raju, J. Suresh Kumar, M. V. Lakshmi Prakash, “Transient Analysis of Smart Material Plates Using Higher Order Theory”, ARPN Journal of Engineering and Applied Sciences, Vol. 10, No. 1, January 2015, PP 128-133.
46. Nadendla Srinivasababu, J. Suresh Kumar, K. Vijaya Kumar Reddy, “An Experimental Evaluation of Mechanical and Dielectric Properties of One Year Dried Palm Fruit Empty Fruit Bunch Fibre Reinforced Polyester Composites”, *Indian Science Cruiser*, Kolkata, 0970-425 6, Vol. 28, No. 1, pp. 33 – 38, January 2014.

47. Nadendla Srinivasababu, J. Suresh Kumar, K. Vijaya Kumar Reddy, "Imperata Cylindrical/Sacred Grass Long Fibre Reinforced Polyester Composites – An Experimental Determination of Properties", **Applied Mechanics and Materials**, Trans Tech Publications Inc., **Switzerland**, ISSN: 1662-7482, Vol. 612, 2014, pp. 131 – 137.
48. Nadendla Srinivasababu, J. Suresh Kumar, K. Vijaya Kumar Reddy, "Manufacturing and Characterization of Long Palmyra Palm/Borassus Flabellifer Petiole Fibre Reinforced Polyester Composites", *Procedia Technology*, Vol. 14, 2014, PP 252-259.
49. Nadendla Srinivasababu, J. Suresh Kumar, K. Vijaya Kumar Reddy, "Mechanical and Dielectric Properties of Thysanolaena Maxima (Broom Grass) Long Fibre Reinforced Polyester Composites", *Procedia Materials Science*, Vol. 6, 2014, PP 1006-1016.
50. B. Sidda Reddy, J. Suresh Kumar, C. Eswara Reddy and K. Vijaya Kumar Reddy, **Static Analysis of Functionally Graded Plates Using Higher-Order Shear Deformation Theory**, *International Journal of Applied Science and Engineering*, 2014, Vol. 12, No. 1, pp. 23-41. [ISSN: 1727-2394; Online version ISSN: 1727-7841].
51. B. Sidda Reddy, J. Suresh Kumar, C. Eswara Reddy and K. Vijaya Kumar Reddy, **Free Vibration Behaviour of Functionally Graded Plates Using Higher-Order Shear Deformation Theory**, *Journal of Applied Science and Engineering*, Vol. 17, No. 3, pp. 231_241 (2014), DOI: 10.6180/jase.2014.17.3.03.
52. B. Sidda Reddy, J. Suresh Kumar, C. Eswara Reddy, K. Vijaya Kumar Reddy, **Static Bending Behavior of Functionally Graded Plates Subjected to Mechanical Loading**, *Jordan Journal of Mechanical and Industrial Engineering*, Volume 8 Number 4, Aug. 2014, ISSN 1995-6665, Pages 169 – 176.
53. G. Yedukondalu, A. Srinath, J. Suresh Kumar, "Mechanical chest compression with a medical parallel manipulator for cardiopulmonary resuscitation", *International Journal of Medical Robotics and Computer Assisted Surgery*, 2014, DOI: 10.1002/rcs.1628.
54. Dr. V. V. Sridhara Raju, Dr. V. Bala Krishna Murthy, Dr. J. Suresh Kumar, "Nonlinear Analysis for Interlaminar Stresses of Skew FRP Laminates with Circular Cutout", *International Journal of Engineering Research & Technology*, Vol. 4, Issue 03, March-2015, PP 105-110.
55. Ramana Podugu, J. Suresh Kumar, K. Vijaya Kumar Reddy, "Torsional Transient Response Analysis of Synchronous Motor driven Multistage Centrifugal Pump Using Finite Element Analysis", *International Journal of Advances in Science and technology*, Vol. 9, No. 1, 2014, PP 52-79.

56. D. Venkata Ramana, K. Narayana Rao, J. Suresh Kumar, K. Venkatasubbaiah, "Identification of Measurement Items of Design Requirements For Lean And Agile Supply Chain-Confirmatory Factor Analysis", International Journal for Quality Research, ISSN: 1800-6450, Vol. 7, No. 2, 2013, PP 255-264.
57. D. Venkata Ramana, K. Narayana Rao, J. Suresh Kumar, K. Venkatasubbaiah, "Prioritization of Strategic Design Requirements For Lean & Agile Supply Chains", International Journal of Advanced Research in Engineering and Applied Sciences, ISSN: 2278-6252, Vol. 2, No. 1, 2013.
58. D. Venkata Ramana, K. Narayana Rao, J. Suresh Kumar, "Evaluation of Performance Metrics of Lean Supply Chain Through Fuzzy MCDM", International Journal of Decision Science Letters, Vol. 2, 2013, PP 211-222.
59. D. Venkata Ramana, J. Suresh Kumar, K. Narayana Rao, "Prioritization of Performance Metrics For Lean & Agile Supply Chains", International Journal of Advancements in Research & Technology, ISSN: 2278-7763, Vol. 2, Issue 2, 2013.
60. D. Venkata Ramana, J. Suresh Kumar, K. Narayana Rao, "Canonical Correlation Between Strategic Design Requirements and Performance Measures of Lean and Agile Supply Chains - A Case Study in Small and Medium Enterprises", International Journal of Scientific & Engineering Research, ISSN: 2229-5518, Vol. 4, Issue 9, 2013.
61. Mechanical chest compression with a medical parallel manipulator for cardiopulmonary resuscitation, The International Journal Of Medical Robotics And Computer Assisted Surgery, Int J Med Robotics Computer Assist Surg December 2015; 11: 448 –457. John Wiley & Sons, Ltd.
62. Buckling analysis of thin FRP Laminate under Thermal Loading, 4th International Conference on Material Processing and Characterization, Science Direct, Material Today: Proceedings 2(2015) 3093 - 3099. Elsevier.
63. Free Vibration Analysis of Viscoelastic Sandwich Beam using Euler Bernoulli Theory”, International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 5 Issue 06, June-2016, PP 566-570.
64. Free Vibration Analysis of various Viscoelastic Sandwich Beams”, Indian Journal of Science and Technology (IJST), Vol. 09 Special Issue 1, Dec – 2016, PP 1-8.
65. Static Bending Behavior of FG-CNT Reinforced Composite Plates Using Higher Order Shear Deformation Theory, International Journal for Research in Applied Science & Engineering

Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor:6.887 Volume 5 Issue X1, November 2017. pp 759 – 770.

66. Bending Analysis of Smart Composite Laminated Plates Using Higher Order Shear Deformation Theory with Zigzag Function, 2019 JETIR January 2019, Volume 6, Issue 1, (ISSN-2349-5162). Pp 347 – 352.
67. Mechanical and physical properties of epoxy based unidirectional banana/glass fiber reinforced hybrid composites, AIP Conference Proceedings 2057, 020024 (2019); Published Online: 11 January 2019, pp 020024-1 to 020024-9
68. A Review on Damage Modelling and Analysis of Composites, Materials Science and Engineering 1185 (2021) 012021, IOP Publishing doi:10.1088/1757-899X/1185/1/012021, PP 1-7
69. A review on Progressive failure analysis of composites, Materials Science and Engineering 1185 (2021) 012020, IOP Publishing doi:10.1088/1757-899X/1185/1/012020, PP 1-6
70. Investigation of Mechanical Characterization and Thermal Performance of Hybrid Natural Fiber Composites for Automotive Applications, International Journal of Fibers and polymers, Springer - ISSN 1229-9197 (print version) ISSN 1875-0052 (electronic version), Accepted July 10, 2021
71. An Ample survey on Characterization and Analysis on Nano-Hybrid Composite Structures, International Journal of Emerging Technologies and Innovative Research, ISSN: 2349-5162, July, 2021
72. Mechanical Characterization of PAL Coated Natural Jute Fiber Reinforced Composite Structures, The International Journal of Analytical and Experimental Modal analysis, Vol XIII, Issue XII, ISSN 0886-9367, Dec. 2021, PP 1942 -1945
73. Mechanical Characterization of PAL Coated natural Banana Fiber Reinforced Composite Structures, The International Journal of Analytical and Experimental Modal analysis, Vol XIII, Issue XII, ISSN 0886-9367, Dec. 2021, PP 2149 - 2153
74. Mechanical Characterization of PAL Jute/Banana Fiber Reinforced Composite Hybrid Composite Structures, The International Journal of Analytical and Experimental Modal analysis, Vol XIII, Issue XII, ISSN 0886-9367, Dec. 2021, PP 1913 - 1916
75. Characterization of Mechanical Properties of Aluminum Alloy & SiC Metal Matrix Composite Structures, The International Journal of Analytical and Experimental Modal analysis, Vol XIII, Issue XII, ISSN 0886-9367, Dec. 2021, PP 2058 - 2062

76. Analysis of a rectangular Hybrid composite plate with central elliptical cutout subjected to Thermo-mechanical multi-axial loading, International Journal of Design Engineering, ISSN: 0011-9342 | Year 2021 Issue: 8 | Pages: 11340-11350
77. Analysis of a Rectangular FML composite subjected to coupled thermo-mechanical multi-axial loading, International Journal of Design Engineering, ISSN: 0011-9342 | Year 2021 Issue: 8 | Pages: 19953-19965

National Journals

1. B. Sidda Reddy, J. Suresh Kumar et al **“Response Surface methodology as a predictive tool for C. I. Engine Performance and Exhaust Emissions of Methyl Esters of Mahua Oil”** i-Manager’s Journal on Future Engineering and Technology, Vol.4, No.3, Feb-April 2009, pp 51-58
2. Srinivas Babu, J.Suresh Kumar et al **“Tensile Properties of Turmeric Fiber Reinforced Polyester Composites, Indian Journal of Fiber and Textile Research,** (Accepted for publication)

International Conferences

1. Venkateswara Devara, Dr. J.Suresh Kumar et al **“ Analysis of Acoustics and Unsteady Processes on Arbitrary Space – Time Domains in Non-linear Air Foil Interaction”,** Proceedings of 3rd International Conference on Advances in Mechanical Engineering (ICAME-2010), Jan 4th – 6th 2010, SVNIT, Surat, Gujarat, PP- 623-627
2. Venkateswara Devara, Dr. J.Suresh Kumar et al **“ Design and Analysis of fluid structure interaction on air wings of space vehicle using CFD”** , Proceedings of International conference on Computational Methods in Engineering and Sciences 2009, 8-10th Jan 2009, Organized by CBIT, Hyderabad.
3. Dr. J.Suresh Kumar, Dr.N.V.S.Raju **“ Free Vibration Analysis of composite Laminated plates Using Higher-order Theories with and without Zig-Zag Function”,** Proceedings of International Conference on Recent Advances in Materials, Processing and Characterization, 3-4 July 2008 (RAM 2008), Organized by Dept. of Mechanical Engineering, VRSEC, Vijayawada, pp 15-21.
4. Dr. J.Suresh Kumar, Dr.N.V.S.Raju et al **“ Geometrically Non-linear Vibration Analysis of Laminated Composite Plates using Higher-order Theories”,** Proceedings of International Conference on Recent Advances in Materials, Processing and

Characterization, 3-4 July 2008 (RAM 2008), Organized by Dept. of Mechanical Engineering, VRSEC, Vijayawada, pp 56 – 62.

5. G.Vijaya Kumar, Dr. J.Suresh Kumar et al, “ **Analysis of Piezoelectric Smart beam**” Proceedings of International Conference on Recent Advances in Materials, Processing and Characterization, 3-4 July 2008 (RAM 2008), Organized by Dept. of Mechanical Engineering, VRSEC, Vijayawada, pp 43-48.
6. Dr. N.V.S.Raju, Dr. J.Suresh Kumar et al “**Reliability Centered Maintenance Models to Achieving Towards Total Equipment Reliability Maintenance Models**”, Proceedings of International Conference on VETOMAC-IV, 17-21 Dec. 2007, organized by Organized by Osmania University and BHEL, Hyderabad, PP 232-237.
7. Dr.A.Srinath, G.Ydeukondalu and Dr.J.Suresh Kumar “**Dynamic analysis of Planar robots for cardio resurrection**”, Asian Conference on Multi Body Dynamics 2010 at Kyoto, Japan Scheduled from 23rd to 27th August 2010, Accepted.
8. P. Ravikanth Raju, Sashi K Mudumba, J. Suresh Kumar, “Optimality Among Wing Shapes of Micro Aero Vehicle”, ICRAMAV-2014, JNT University, Hyderabad, India, 5-7 November 2014, PP 159-161.
9. B. Sidda Reddy, J. Suresh Kumar, K. Vijaya Kumar Reddy, “New Shear Strain Shape Function for Static Bending Response of Exponentially Graded Material Plates- for Micro Air Vehicle”, ICRAMAV-2014, JNT University, Hyderabad, India, 5-7 November 2014, PP 229-235.
10. V. V. Sridhara Raju, J. Suresh Kumar, “Micro Air Vehicle Development-Design and Fabrication”, ICRAMAV-2014, JNT University, Hyderabad, India, 5-7 November 2014, PP 153-154.
11. P. Ravikanth Raju, J. Suresh Kumar, M. V. Lakshmi Prakash, “Stability Analysis of Smart Composite Laminated Plates Using HSDT”, International Conference on Emerging Technologies in Mechanical Sciences (ICEMS) 2014 MRCET, Hyderabad, India, 26-27 December 2014, PP 184-189.
12. P. Ravikanth Raju, J. Suresh Kumar, M. V. Lakshmi Prakash, “Transient Analysis of Piezoelectric Composite Laminated Plates using Newmark’s Integration Method”, International Conference on Emerging Technologies in Mechanical Sciences (ICEMS) 2014 MRCET, Hyderabad, India, 26-27 December 2014, PP 209-213.

13. Ch. Rajesh, J. Suresh Kumar, "Dynamic Analysis of Structures using Constrained Layer Damping Technique", International Conference on Emerging Technologies in Mechanical Sciences (ICEMS) 2014 MRCET, Hyderabad, India, 26-27 December 2014, PP 189-191.
14. Ch. Rajesh, J. Suresh Kumar, "Analysis of Sandwich Structures Using Euler Bernoulli Theory", International Conference on Emerging Technologies in Mechanical Sciences (ICEMS) 2014 MRCET, Hyderabad, India, 26-27 December 2014, PP 247-252.
15. J. Suresh Kumar, R. Venkata Kiran Kumar, V. Balakrishna Murthy, Fracture Analysis of SLJ in cross ply and Angle ply FRP Composite Laminates, First International conference on mechanics of composites, Stony Brook University, New York, June 9-12, 2014
16. Fracture analysis of adhesively bonded single lap joints with four layered unidirectional composite adherends, Proceedings of International Conference on Recent Advances in Mechanical Engineering on 21st and 22nd April 2011, Organized by Dr.M.G.R. Educational and Research Institute University, pp 19.
17. Analysis Of Delta Parallel Robot For Cardiopulmonary Resuscitation, Proceedings of International Conference on Multi Body Dynamics (ICMBD 2011) 24 – 26 February 2011, K L University, Vijayawada A.P, INDIA, PP 65-72.
18. Active Vibration Control Of Composite Cylindrical Shell Panel, Proceedings of International Conference on Multi Body Dynamics (ICMBD 2011) 24 – 26 February 2011, K L University, Vijayawada A.P, INDIA, PP 157-170.
19. Vibration Analysis Of Functionally Graded Material Plate Using Higher Order Theories, Proceedings of International Conference on Multi Body Dynamics (ICMBD 2011) 24 – 26 February 2011, K L University, Vijayawada A.P, INDIA, PP 183-190.
20. Free Vibration Analysis Of Composite Laminated Plates Using Higher-Order Theories With Zig – Zag Function, Proceedings of International Conference on Multi Body Dynamics (ICMBD 2011) 24 – 26 February 2011, K L University, Vijayawada A.P, INDIA, pp 191-198.
21. Vibration Analysis Of Sub Marine Structures, Proceedings of International Conference on Multi Body Dynamics (ICMBD 2011) 24 – 26 February 2011, K L University, Vijayawada A.P, INDIA, PP 199-201.
22. Experimental Determination of Tensile, Flexural and Electrical Properties of Kadapa Turmeric FRP Composites, Proceedings of International Conference on Multi Body Dynamics (ICMBD 2011) 24 – 26 February 2011, K L University, Vijayawada A.P, INDIA, PP 485 – 491.
23. Mixed mode delamination propagation analysis of Adhesively bonded single lap joint with [0/0 //0] Composite adherends, Proceedings of International Conference on Futuristic Trends in Materials and Energy systems V R Siddhartha Engineering College, Vijayawada, A.P., India, 29-30 December, 2011, pp 28-37.

24. Study of Transonic Flutter using CFD, Proceedings of International Conference on Computational methods in Engineering and Sciences, 8-10th Jan 2009, Organized by CBIT, Hyderabad. pp 156-161.
25. Structural Analysis of solid motor using FSI, Proceedings of International Conference on Science & Engineering, 21-23rd Jan.2011, organized by RG Education Society (Regd.), Rohtak, Haryana, India (ISBN 978-981-08-7931-0), pp 437 – 444.
26. Fabrication, Characterization and Analysis on Graphene Based Nano Composite Material, Proceedings of ISET2015 International Conference on Energy Systems and Developments, 11-13th Feb. 2015, Pune, Maharashtra, India.
27. “Vibration Analysis of Sub Marine Structures”, International Conference on Multi Body Dynamics (ICMBD) 2011, Vijayawada, India. pp. 199–203. (ISSN Number: 0972-5768)
28. “Dynamic Analysis of Structures Using Constrained Layer Damping Technique”, International Conference on Emerging Technologies In Mechanical Sciences (ICEMS-2014), December 2014, (ISBN Number: 978-93-83038-28-2.) PP 189-191.
29. “Analysis of Sandwich Structures using Euler Bernoulli Theory”, International Conference on Emerging Technologies In Mechanical Sciences (ICEMS-2014), December 2014,(ISBN Number: 978-93-83038-28-2.) PP 247-252.
30. “Free vibration analysis of Magneto-Rheological smart sandwich beam- experimental study”, International Conference on Emerging Trends in Mechanical engineering (ICETiME-16), IFHE University, Hyderabad, India. (ISBN Number: 9788131 – 427941) PP 115-118
31. Chest Compression with A Linear Parallel Manipulator for Cardiopulmonary Resuscitation, Proceedings of the 2nd International Conference on Design, Analysis, Manufacturing and Simulation (ICDAMS-2016), April 07&08, 2016, Saveetha University, Chennai, India. Pp 871 – 877.
32. A Review on Damage Modelling and Analysis of Composites, International Conference on Materials, Mechanical and Energy Engineering (ICMMEE 2021) 7th-8th May 2021, Bapatla Engineering College, Bapatla, Andhra Pradesh, India
33. A review on Progressive failure analysis of composites, International Conference on Materials, Mechanical and Energy Engineering (ICMMEE 2021) 7th-8th May 2021, Bapatla Engineering College, Bapatla, Andhra Pradesh, India

National Conferences

1. G.Vijay Kumar, J.Suresh Kumar “**Active vibration control of composite cylindrical shell structure using MFC actuators**”, XVIth National Seminar on Aerospace Structures (NASAS), November 19-20,2009.
2. J.Suresh Kumar, Ch.Penchalaya “**Vibration Analysis of Unsymmetrically Laminated Plates using Higher Order Theory with Finite Element Method**”, Proceedings of National Conference on Recent trends in CAD/CAM, 30th March 2002, Organized by Department of Mechanical Engineering, JNTU College of Engg., Kakinada. PP 62-65.
3. J.Suresh Kumar, Ch.Penchalaya “**Higher Order Theories for Stress Analysis of sandwich plates - using Finite Element Method**”, Proceedings of National Conference on Recent trends in CAD/CAM, 30th March, 2002 Organized by Department of Mechanical Engineering, JNTU College of Engg., Kakinada, PP182-187.
4. J.Suresh Kumar, Ch.Penchalayya, P.Prasanna “**A comparison of 2D & 3D Dynamic Stresses and estimation of Dynamic load factors of Spur gear**”, Proceedings of National Conference on Recent trends in CAD/CAM, 30th March, 2002 Organized by Department of Mechanical Engineering, JNTU College of Engg., Kakinada. PP 211-214.
5. J.Suresh Kumar, Ch.Penchalayya “**Finite Element Analysis of Laminated Composite Plates using a Higher Order Displacement Model and ANSYS FEM package**”, Proceedings of National Seminar on Recent trends in Production and Industrial Engineering, 9th December, 2002 organized by. G.Pulla Reddy Engineering College, Kurnool, PP 213-223.
6. J.Suresh Kumar, Ch.Penchalayya, “**Design and Stress Analysis of Broaching Tool for Internal Spline**”, proceedings of National Conference on advanced trends in Mechanical Engineering Research and Development, 18th October, 2001 Organized by Department of Mechanical Engineering, JNTU College of Engg, Anantapur, PP 298-308.
7. M.T Naik, J.Suresh Kumar, A.Gopala Krishna “**Design and Stress Analysis of Power Pipe**”, Proceedings of National Seminar on Recent trends in Production and Industrial Engineering, 9th December, 2002 organized by Department of Industrial and Production Engineering, G.Pulla Reddy Engineering College, Kurnool, PP 200 – 212.
8. Ravindra Babu. P, Suresh Kumar J, “**Blank Holding Force – A Vital Parameter in Governing Productivity of Deep Drawing Process**” Proceedings of National Conference

on Design, Simulation, Modelling of Mechanical Systems, 7th – 8th May, 2004 Organized by Department of Mechanical Engineering, JNTU College of Engineering, Kakinada, PP 154 – 160.

9. B.P. Rao, J. Suresh Kumar and A.S. Kumari, “ **Transient Analysis of Composite Laminated Plates using Zig-Zag functions**”, proceedings of National Conference on Composite Component Construction, 12th – 13th September, 2005 Organized by Department of Mechanical Engineering, JNTU College of Engineering, Kakinada, PP 155-160.
10. B.P. Rao, J.Suresh Kumar, B.Uma Maheswara Gowd “ **Transient Analysis of Composite Laminated Plates using Higher - order theories with and without Zig-Zag function**”, proceedings of National Conference on Recent Advances in Structural Engineering, 11th – 12th Feb 2006, organized by Department of Civil Engineering, JNTU College of Engineering, Kakinada, pp 118 – 122.
11. B.P. Rao, J.Suresh Kumar, A.Swarna Kumari “**Stress Analysis of Composite Laminated Plates using Higher - order theories with and without Zig-Zag function**”, proceedings of National Conference on Recent Advances in CAD/CAM 27th – 28th Feb 2006, organized by Department of Mechanical Engineering, JNTU College of Engineering, Kakinada, pp 223 – 228.
12. Analysis of Aero Elastic Wings, Proceedings of national conferences 2010 on Aero space Engineering, December 23 – 24, 2010, organized by MRCET, Secunderabad, PP 71.
13. Active Vibration Control of Composite Cylindrical shell structure using MFC actuators, Proceedings of XVIth national seminar on aerospace structures, Nov. 19-20, 2009, organized by IIT, Bombay , pp 1-15.
14. Fracture analysis of adhesively bonded Single lap joints having with 0⁰ or 90⁰ ply oriented four layered symmetric laminates, Proceedings of National Conference on Advances in Mechanical Engineering (NCAME-2010), on 18th December 2010 in Prasad V Potluri Siddhartha Institute of Technology, Kanuru, Vijayawada, PP 139 – 146.
15. Experimental studies on Active Vibration Control of Smart Composite Cylindrical Shell Structure, Proceedings of National Conference on Advances in Mechanical Engineering (NCAME-2010), on 18th December 2010 in Prasad V Potluri Siddhartha Institute of Technology, Kanuru, Vijayawada, pp 43.
16. Tensile and morphological characterization of turmeric and okra natural fibers, Proceedings of National conference on advances in manufacturing and management, 30 – 31st August 2010, organized by Dept. Of Mech. Engg., JNTUH College of Engg., Hyderabad

17. A review on Advancements in Abrasive Flow Machining, National Conference on Recent Trends in Mechanical Engineering, organized by Dept. Of Mech. Engg., JNTUH College of Engg., Hyderabad, 2018

Research Work:

Worked on the topic “**Analysis of Composite Laminated Plates Using Higher Order Theories.** The theories developed are fruitful and these results are expected to lead to a substantial contribution to the development and analysis of composite materials.

Ph.D. Students Guided.

I. Awarded

1. Sri N. Srinivasa Babu, Experimental Investigation of Natural Fiber Reinforced Composites, Nov. 2010
2. Sri Goteti Chaitanya, Multi-objective optimization of axial flow compressor using Genetic Algorithm, Aug. 2011
3. Sri G. Vijay Kumar, Experimental Investigation on Active Vibration Control of Smart Composite Shell Structures, June 2011
4. Sri T. Dharma Raju, Analysis of Composite Laminated Plates Using Higher Order Theory with Zig-Zag Function, Aug. 2012.
5. Sri V. V. Sridhara Raju, Analysis of Bi-Directional Fibre Reinforced Composites, May 2013.
6. Sri B. Sidda Reddy, Analysis of Functionally Graded Material Plates Using Higher Order Theory, September 2013.
7. Sri P. Ravikanth Raju, Analysis of Piezolaminated Composite Plates Using Higher - order Theory, Aug. 2015
8. Sri D. Venkata Ramana, Evaluation of Agile Supply Chain of an Organization - An integrated Model, Sept. 2015.
9. P. Ramana, investigations on failure exploration of a centrifugal pump casing, Aug. 2015
10. G. Yedukondalu, Dynamic Analysis of Parallel Manipulator for Cardio Applications, 2015
11. N. Rishi Kanth Design And Analysis of Intelligent Robotic Setup for Special Application, July, 2020

II. Ph.D. Students Presently ongoing

08 Candidates

Books authored

1. Springer's Engineering Mechanics (Static's & Dynamics), B.S. publications
2. Design of Machine Element - I, New Age International Publications, ISBN No.: 978-81-224-3046-2, 2015
3. Design of Machine Element - II, New Age International Publications, ISBN No.: 978-81-224-2838-4, 2015
4. N. Srinivasababu, Dr. J. Suresh Kumar, K. Vijaya Kumar Reddy, “Biomaterial Applications Macro to Nanoscales”, Chapter 6: An Experimental Observation of Disparity in Mechanical

Properties of Turmeric Fiber Reinforced Polyester Composites, Apple Academic Press, **CRC Press, Taylor & Francis Group**, ISBN: 9781771880275, September 17, 2014.

5. Biomass and Bioenergy: Processing and Properties: **Chapter 8: Indian Date Leaf FRP Composites: Mechanical and Dielectric Properties**, pp. 125-140, Springer International Publishing, September 2014.

Patents Granted/Filed

1. Patent granted on Chest Compression Device for Medical First Aid on 22-09-2014.
2. Patent granted on Chest Compression Device for First Aid on 28-04-2016
3. Patent granted on design to ROBOT on 16-10-2017
4. Patent filed on Fabrication of Polymer based Nano Composite Roof Sheets – Application is in amended examination - 202141025859

Awards / Achievements Received

1. Received Telugu Vignana Parithoshakam from the State Government of AP for Intermediate.
2. Received Shiksha Rattan Puraskar from India International Friendship Society in 2010.
3. Received The Best Citizens of India award 2010 from International Publishing House.
4. Best NSS Coordinator from the State Government of Andhra Pradesh on 26th January 2014.
5. As a Placement Officer achieved 100% Placements for both PG & UG students from 2012-2021

Additional Activities:

Co-Ordinator for Forest Department Recruitment Test (FDRT-2014), AP

Consultancy Project:

1. CARS project on “Investigations of various methods for Design of Heat Exchanger (After Cooler) in HAT facility”, ASL, DRDO, Hyderabad, Sponsored project for Rs 4,88,960/-
2. Design and certification of tractor trailers, A.P. transport Corporation, Sponsored project for Rs 2,50,000/-
3. Design of tractor trailers, A.P. transport Corporation, Sponsored project for Rs 2,50,000/-
4. Pollution Checkup for motor vehicles (All types), A.P. transport Corporation, Sponsored project for Rs 2,50,000/-
5. Calibration of Pressure Vessels, Different Industries Pressure Gauges, Project Cost 2, 50,000/-

Subjects Handled (PG & UG):

Engineering Mechanics, Design of Machine Members I & II, Finite Element Analysis, Finite Element Methods, Finite Element and Boundary Element Methods, Advanced Mechanics of Machinery, Advanced Optimization Techniques, Heat and Mass Transfer, Mechanical Vibrations Operations Research, Experimental Stress Analysis, Refrigeration and air Conditioning, Engineering Drawing

Self-Assessment:

Industry – Institute Interaction: Several programmes are organized under the auspices of Mechanical Engineering Association (MEA). These programmes include organizing seminars by the experts from the industry, summer vocational training programmes for pre-final and final year students, arranging project works at Industries and local Industrial visits etc. Many of the students gave a feed back that gained very much from these programmes.

Student Seminars: Organized student seminars on every Saturday for interested students of UG and PG courses of this department. This is an excellent opportunity for them to develop their communication skills.

Personality Development Programme: Several programmes like quiz contests, debates & group discussions were coordinated in the department. Model interview have been planned for final year outgoing students to give an exposure to the interview they have to face for getting employment.

NSS Activities: Organized many Social Service programmes for the benefit of society like Aadhar Card Program, Voter ID Enrollment, Special camps by adopting Two Villages, Transmission of Gas subsidy to bank, Blood Donation, Cloth Donation program to orphanages, Free health checkup camps, Hepatitis and typhoid vaccinations etc.

Training and Placement: As a Training and placement officer taken care to have 100% placements in the campus for 9 years. Conducted Many training programs for the benefit of students to meet the challenges of present industry.