

B. V. S. RAGHU VAMSI

Department : Mechanical Engineering

College : Gudlavalleru Engineering College

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ACADEMIC QUALIFICATIONS

- ❖ Ph.D - Thermal Engineering (Pursuing)
- ❖ M. Tech - Applied Mechanics (Stress and Vibration Analysis)
- ❖ B.Tech - Mechanical engineering

ACADEMIC REWARDS / ACHIEVEMENTS:

- Topper in M.Tech with 9.84 GGPA in MANIT Bhopal

PROFESSIONAL EXPERIENCE

Designation	University/College	Period
Senior Grade Assistant Professor	Gudlavalleru Engineering College	01.07.2015 to Till Date
Assistant Professor	Gudlavalleru Engineering College	10.06.2008 to 31.06.2015

PROJECTS GUIDED

PhD	Post Graduation	Under Graduation
Nil	03	16

SPECIALIZATION:

- ❖ Applied Mechanics (Stress and Vibration Analysis)

RESEARCH PAPERS / BOOKS

- ❖ **BOOKS PUBLISHED IN PUBLICATIONS:** Nil

- ❖ **PAPERS PUBLISHED IN JOURNALS:**

Journals: **National** : Nil **International** : 13

Conferences: **National** : 01 **International** : 04

Journals:

a) **National** - Nil

b) **International:**

1. B.V.S. Raghu Vamsi, Studies on the Effect of CTOD (Crack Tip Opening Displacement) on the Stress Triaxiality under Mixed Mode Fracture (I/II) in Plane Strain Condition, International Journal for Scientific Research & Development| Vol. 6, Issue 05, 2018, pp. 351-360, ISSN: 2321-0613
2. B. V. S. Raghu Vamsi, "Experimental Investigation on the Performance of Vortex tube", Advanced Materials Research, June, 2018, ISSN: 1662-8985, Vol. 1148, pp 128-135, doi.10.4028 (SCI Journal – Switzerland)
3. B. V. S. Raghu Vamsi, " Evaluation of Coefficient of Thermal Expansion of Zirconium by Using Dilatometer & ANSYS", at Advanced Materials Research, June, 2018, ISSN: 1662-8985, Vol. 1148, pp 115-121, doi.10.4028 (*SCI Journal – Switzerland*)
4. B.V.S. Raghav Vamsi (April, 2018) “Studies on the Critical Size of the Plastic Zone in Pure Mode-I and Mixed Mode (I/II) Fracture”, Materials today Proceedings 5 (2018), PP-7765-7774, *Elsevier*.
5. B.V.S. Raghu Vamsi, “Structural Analysis of thin isotropic and orthotropic plates using finite element analysis” (June, 2017) SSRG International Journal of Mechanical Engineering (SSRG-IJME) – volume 4 Issue 6, ISSN: 2348 – 8360, Pp: 17-27.
6. B. V. S. Raghu Vamsi, “Experimental Investigation on the Effect of Post Weld Heat Treatment on the Mechanical Properties of SS304 Weldment Fabricated by Vibratory Welding Process”, SSRG International Journal of Mechanical Engineering (SSRG-IJME) – Special Issue May - 2017, ISSN: 2348 – 8360, pg. no. 300 - 303
7. B. V. S. Raghu Vamsi, “ Design and Optimization of Internal Combustion Engine Based Co-Generation System Using Integrated Thermal Management Controller”, SSRG International Journal of Mechanical Engineering (SSRG-IJME) – Special Issue May - 2017, ISSN: 2348 – 8360, pg. no. 175-179
8. B. V. S. Raghu Vamsi, “Experimental investigation of heat transfer in plain and tapered cylindrical fins”, SSRG International Journal of Mechanical Engineering (SSRG-IJME) – Special Issue May - 2017, ISSN: 2348 – 8360, pg. no. 169-174
9. B. V. S. Raghu Vamsi, “Studies on the affect of stress triaxiality on strain energy density, and CTOD under plane stress condition subjected to mixed mode (I/II) fracture”, International Journal of Control Theory and Applications, International Science Press, ISSN: 0974-5572, Vol. 10, No. 6, 2017, pg. no. 17-32 (*Indexed to Elsevier Bibliography database*)
10. B.V.S. Raghu Vamsi, "Finite Element Analysis of An Edge Cracked Plate Subjected to Mixed Mode Loading (I/II) and Combined Tension-Bending – A Comparative Study", International Journal of Control Theory and Applications, International Science Press, ISSN: 0974-5572, Vol. 9, No. 42, 2017, pg. no. 15-30 (*Indexed to Elsevier Bibliography database*)
11. B. V. S. Raghuvamsi, (2016) “Mathematical Modeling for CTOD Based M-Criterion for the Determination of Triaxiality Under Mixed Mode (I/II) Fracture”, Academic Journal of Science, ISSN: 2165-6282: 04(02):17–32 (2015) (*Peer Reviewed Italian Journal*)
12. B.V.S. Raghu Vamsi, Frequency response analysis of a Clamped Composite Plate with a Central Circular Cutout using ANSYS, International Journal of Scientific and Engineering Research(ISSN 2229-5518), Volume 6, Issue 3, March-2015 (*France Journal – Indexed in index Copernicus, Thomson Reuters*)
13. V Suma Priya, B V S 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), Volume 4, Issue 11, November 2014

Publications In Conferences:

a) National

- ❖ B. V. S. Raghu Vamsi, “Experimental Investigation of flow over different geometrical objects in an open channel”, at National Conference on Emerging Trends in Mechanical Engineering (ETME 2019) organized by National Institute of Technology, Warangal during 09th – 10th January, 2019
- ❖ A paper on “Strength analysis of Banana and Americana Hybrid Composites”, presented in One Day National Conference on "Recent Advances in Mechanical Engineering (NCRAME-17)", PVP Siddhartha Institute Of Technology, Vijayawada on 02.12.2017.

b) International:

1. B. V. S. Raghu Vamsi, "Experimental Investigation on the Performance of Vortex tube", at International Conference on Advanced Materials and Manufacturing Processes (ICAMMP-2018), organized by University College of Engineering, Vizianagaram (JNTUK, Kakinada), 30th - 31st March, 2018.
2. B. V. S. Raghu Vamsi, Studies on the critical size of the plastic zone in pure mode-I and mixed mode (I/II) fracture, IMME'17, International Conference at NIT Tiruchirapalli, 10-12 March, 2017
3. B. V. S. Raghu Vamsi, “Finite element analysis of an edge cracked plate subjected to mixed mode loading (I/II) and combined tension-bending – A comparative study”, at 5th International Conference on Advanced Computing, Engineering and Technology, Organized by The World Academy of Research in Science and Engineering, Bangalore on 17th February, 2017.
4. B. V. S. Raghu Vamsi, “Studies on the affect of stress triaxiality on strain energy density, and CTOD under plane stress condition subjected to mixed mode (I/II) fracture”, at 2nd International Conference on Sustainable Computing Techniques in Engineering, Science and Technology, Organized by Jain College of Engineering, Belagavi during 27th – 28th January, 2017.

LIST OF WORKSHOPS ORGANIZED:

- ❖ Two Day Workshop on “**MATLAB and its Applications**” organized by the Department of Mechanical Engineering, Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru on 8th & 9th Feb., 2018.
- ❖ One week faculty training program on “**Training Program on ANSYS**”, organized by the Departments of Mechanical and Civil Engineering, Gudlavalleru Engineering College, Gudlavalleru during 22nd to 27th June, 2015

LIST OF WORKSHOPS / SEMINARS ATTENDED:

- ❖ Attended a Short Term course on “**Experimental flow visualization and measurement techniques for both incompressible and compressible flow regimes**”, organized by Department of Aero space Engineering, Indian Institute of Technology Kharagpur during 12th – 15th March, 2019.
- ❖ Attended Two Day faculty development programme on "**Advances in manufacturing**” organized by Department of Mechanical Engineering, Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru on during 16th – 17th November, 2018.

- ❖ Attended One Day Workshop on "**Characterization of Metal matrix Composites**", organized by the Institution of Engineers (I) A.P State Center in Association with Department of Mechanical Engineering, Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru on during 11th August, 2018.
- ❖ AICTE-ISTE sponsored One week short term course on "**Computational Fluid Dynamics**" organized by the Department of Mechanical Engineering, Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru on during 18th – 23rd June, 2018
- ❖ Attended One day Workshop on "**Brainstorming on Innovation in Incubation Centers**" (Igniting the Young Minds), Organized by Jawahar Lal Nehru Technological University, Kakinada on 01.09.2016
- ❖ Attended One Week Faculty Development Programme on "**Outcome Based Education and Accreditation**" organized by the Electronic and ICT, NIT Warangal in association with Dhanekula Institute of Engineering and Technology, Vijayawada during 13th – 18th June, 2016
- ❖ Attended one week faculty training program on "**MATLAB Applications in Mechanical Engineering**", organized by the Department of Mechanical Engineering, Gudlavalleru Engineering College, Gudlavalleru during 7th to 11th September, 2015
- ❖ Attended One week faculty training program on "**Training Program on ANSYS**", organized by the Departments of Mechanical and Civil Engineering, Gudlavalleru Engineering College, Gudlavalleru during 22nd to 27th June, 2015
- ❖ Attended short term course on "**Computational Techniques for Scientific and Engineering Problems**", Organized by Maulana Azad National Institute of Technology, Bhopal during 18.05.2015 – 22.05.2015
- ❖ Attended Two week National workshop on "**Fluid Mechanics**" organized by Gudlavalleru Engineering College, Gudlavalleru in association with ISTE & IIT Bombay during 22.05.2.14 to 30.05.2014
- ❖ Attended Two-day National workshop on "**Vibrations and Monitoring of Engineering Infrastructures**", held on 3rd – 4th January, 2014, organized by Andhra University College of Engineering, Andhra University, Visakhapatnam
- ❖ Attended Two week National workshop on "**Engineering Mechanics**" organized by Gudlavalleru Engineering College, Gudlavalleru in association with ISTE & IIT Bombay during 26.11.2013 to 07.12.2013
- ❖ Attended One week workshop on "**Training Teachers for Excellence**" organized by Gudlavalleru Engineering College, Gudlavalleru in association with NITTTR during 17.06.2013 to 21.06.2013
- ❖ Attended AICTE sponsored Two Day Seminar on "Applications of Finite Element Methods in Engineering" organized by Gudlavalleru Engineering College, Gudlavalleru during 08.07.2011 to 09.07.2011
- ❖ Attended One day Workshop on "Current Trends in Biofuels" at Gudlavalleru Engineering College, Gudlavalleru on 23.10.2010
- ❖ Attended One Week short term course on "**Computational Mechanics**", held at P V P Siddhartha Institute of Technology, during 18.05.2009 – 22.05.2009

CERTIFICATIONS:

- ❖ Certified by **NPTEL** for completing the course "**Laws of Thermodynamics**", with a score of 80% and stood in top5% toppers
- ❖ Certified by **NPTEL** for completing the course "**Advanced Fluid Mechanics**", with a score of 75%.
- ❖ Certified by **NPTEL** for completing the course "**Steam and gas Power Systems**", with a score of 72%.

GUEST LECTURES DELIVERED: Nil

MEMBERSHIP IN PROFESSIONAL BODIES: Nil

CONSULTANCY ACTIVITIES: Nil

GRANTS FETCHED/FUNDED R&D PROJECTS:

1. Title of the project : Near Wall Measurements in Turbulent Circular Jet Impingement on Flat Surface
Funding Agency : GEC, Gudlavalleru
Sanctioned Amount : Rs.2.4 Lakhs
Project Duration : 02 Years (April 2019 – April 2021)
Status : Sanctioned
2. Title of the project : Experimental & Finite Element Analysis of a plate with an edge Crack subjected to combined tension & bending in plane stress & plane strain condition
Funding Agency : University Grants Commission (UGC)
Sanctioned Amount : Rs.4.5 Lakhs
Project Duration : 02 Years (28.01.2015 - 07.01.2017)
Status : Completed
3. Title of the project : Bend & Rebind Tests on Fractured Components
Funding Agency : GEC, Gudlavalleru
Sanctioned Amount : Rs.1.9 Lakhs
Date of Funds released : 01 Year (01.10.2015 – 30.09.2016)
Status : Completed