

**DR.B.V.RAMANA MURTY**  
**Dean R&D and Professor in Mechanical Engineering**  
SVP Engineering College  
PM Palem, Visakhapatnam-530041



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## **Profile Summary**

- **Total 40 years** of Academic, Administration and Research Experience
- **More than 28 years of** Administrative experience in affiliated and autonomous institutions
- Published **40 Research Papers** in National/International **Journals and Conferences.**
- **Patent Granted.**
- **Guided 3Ph.D. Scholars**
- **Guided Multiple UG and PG projects**
- **Wide International Exposure** (Worked with Defense University, Ethiopia for 2 Years)
- **Specialist in Manufacturing and Design**
- **A wide Exposure in Preparation of Documentation such as Detailed Project Reports, Vision Documents, SAR of NBA, NAAC, IQAC, and NIRF**
- **Resource Person and Coordinator** for various **Faculty Development Programs (FDPs)** and **Student Training Programs.**
- **Motivational Speaker for both Faculty and Students.**
- **Mentor for Career Guidance and Counseling.**

## **Key Portfolios Handled / Handling**

- Director E&T Programs, GVP College for Degree and PG Courses (A), Nov.2021 to Nov.2023.
- **Dean, Academics Under Graduation, GVP College of Engineering (A), June 2012-June 2021**
- **Principal, NSRIT, Visakhapatnam, June 2011- June 2012**
- **Principal, Gnyana Saraswati college of Engineering and Technology, Naziabad, 2009-2011**
- **Principal, Raghu Engineering College, Visakhapatnam, 2006-2009**
- **Vice-Principal and HOD (Mechanical Dept), Raghu Engineering College, Visakhapatnam, 2002-2005**
- **HOD ( Mechanical Dept), GITAM, Visakhapatnam,1998-1999**
- **In-Charge HOD and Associate Professor, Defense University, Ethiopia, 1999-2001**
- **Professor and Course Coordinator for CAD-CAM, GITAM, Visakhapatnam, 2001-2002**
- **Associate Professor and In-charge for University Examinations, GITAM, Visakhapatnam, 1993-1998**

## **Work Experience**

- Worked as Director and Professor, Mechanical Engineering, GVP College for Degree and PG Courses (A), (2021-2023)
- Worked as **Dean and Professor, Mechanical Engineering, GVP College of Engineering (A), (2012 to 2021)**
- Worked as **Principal, NSRIT, (2011-2012)**
- Worked as **Principal, Gnyana Saraswati college of engineering and Technology, (2009-2011)**

- Worked as **Principal**, Raghu Engineering College, Visakhapatnam,(2006-2009)
- Worked as **Professor and Head**, Raghu Engineering College, (2002-2006)
- Worked as **Professor**, GITAM,Visakhapatnam,(2001 -2002)
- Worked as **Associate Professor and Head In-Charge**, Defense Engineering College, Ethiopia (1999-2001)
- Worked as **Associate Professor and Head**, GITAM,Visakhapatnam, (1999)
- Worked as **Associate Professor**, GITAM,Visakhapatnam, (1993-1999)
- Worked as **Assistant Professor**, GITAM, Visakhapatnam, (1985- 1993)
- Worked as **Teaching Assistance**, GITAM,Visakhapatnam, (1984-1985)

## **Research Contribution**

### **Research Scholars Guided**

1. I. Bhavani Sankar (2011): Heat transfer analysis and prediction of microstructure and yield strength of small diameter steel bars in temp core process.
2. P.Ramana (2016): Failure analysis of centrifugal pump casings using FEM techniques
3. O. Srikanth (2016): Performance evolution of pull control system by using mathematical and simulation analysis.

### **Patent Granted:**

- **Design patent** filed on “Design of a flexible and height adjustable healing and ambulation assisting device for treating below the knee injuries and leg disabilities” with Reference No. 321000-001.

### **Membership in Professional Organizations:**

- MISTE, CMSI

### **Recent PG Projects**

- Design and analysis of a new conceptual car using CFD to improve aero dynamic performance.
- Rotor dynamic analysis of eight stage centrifugal pump.
- Design optimization of wheel rim using CATIA and ANSYS.
- Stability analysis on passenger car under cross-wind by using CFX solver.
- Design and analysis of heavy truck using CFD.
- Experimental and numerical study of the flow over turbine blade.
- Fabrication and analysis of E-glass chopped strand fiber and basalt fiber hybrid composite with and without crab shell powder as filler material.
- Exterior design modification and analysis of BOXNR Indian Railway freight wag onto improve aero dynamic efficiency.

## **Research Papers, Conferences and Workshops**

- **Published 21 research papers** in various reputed national and international **journals**.
- **Published 17 research papers** in reputed national and international **conferences**.
- **Attended and Organized 20 Workshops/Seminars/Courses**

(Note: Research Papers/Conferences highlighted in the end of profile)

## Educational Qualifications

- **Ph.D. in Production**, Andhra University (2002)
- **M.E(Machine Design)**, Andhra University (1985)
- **B.E (Mechanical Engineering)**, Andhra University (1981)

## Personal Details

Date of Birth : **26<sup>th</sup> September 1958**  
Sex : Male  
Nationality : Indian  
Marital Status : Married  
Current Address : 49-38-15, NGGO'S Colony, Akkayyapalem  
Visakhapatnam – 530016. Andhra Pradesh.  
Telephone No : 0966969158, 8309270145  
Hobbies : Reading Books, Counseling and Career Guidance, Participation in  
Cultural and Social Activities

## Research Papers Published in National/International Conferences

1. "Digital Pedagogy-An Opportunity or a Threat?" International Conference on Digital Pedagogies, April 1-2, 2019, New Delhi, India.
2. International Proceedings of National conference on recent Advances in Mechanical Engineering NCRAME'14, JNTUK& V, 22<sup>nd</sup> March 2014.
3. "Design and Analysis of A single Point Turning Tool by using Pro/e and Annoys" Proceedings of National conference on recent Advances in Mechanical Engineering NCRAME'14, JNTUK& V, 22<sup>nd</sup> March 2014.
4. "Simulation Analysis on pull production control systems by hybridization of CONWIP mechanism", International congress on innovative trends in Information Technologies and computing Sciences for competitive world order, ITITCSCWO-2013, JNU, New Delhi.
5. "Performance Evaluation of Pull production control mechanism using mathematical and simulation analysis on EKCS and HEKCS policies", 2<sup>nd</sup> international conference on mechanics, simulation and control, ICMSC-2013, Coimbatore.
6. "Simulation of Crack Propagation in Centrifugal Pumps Using Finite Element Techniques" ANSYS India Users Conference, October 2013, 2011 at Bangalore, India.
7. "Evaluation of Performance Parameter by Hybrid Modeling of Pull Production Control System and by Simulation Approach" proceedings of national conference on Machine Intelligence Research and Advancement (NCMIRA-2012), INDIA, Pages 69-73, SMVDU, Jammu.

8. "Hamming Number String as Isomorphism Test for Kinematic Chains Containing Prismatic Parts" Proceedings of National conformance on Advances In CAD/CAM, 27<sup>th</sup>&28<sup>th</sup> February 2006, JNTU, Kakinada, A.P, Pages 245-252.
9. "Thermo Mechanical Robot- Gripper using Shape Memory Alloys", Proceedings of National conformance on design for Product life cycle, Feb,17-18, 2006; BITS, Palani, Rajasthan, India.
10. "Heat Transfer Analysis and Microstructure Evolution During Controlled Cooling of Thermo Mechanical Treatment of Rebar- A Review", National Conference on Advances in Mechanical Engineering, AIME-2006, January20-21, Jamia Millia Islamia, New Delhi.
11. "On-Line Drill Wear Monitoring by Fuzzy Logic", National Seminar on Fuzzy Technique Applications in Manufacturing and Engineering (FTAME-98), March 20- 21, 1998, Andhra University, India.
12. "Fuzzy Logic – Technique Recognition of Features in CAPP", International Symposium, AMPST, 26-27 March, 1996, University of Bradford, U.K.
13. "Fuzzy Logic for feature recognition in Group Technology", 16<sup>th</sup> AIMTDR Conference, Dec 1994, CMTI, Bangalore, India.
14. "Decision Making of tool Wear States in Automation by Fuzzy Pattern Recognition Technique" 16<sup>th</sup> AIMTDR Conference, Bangalore, 8-10- Dec 1994, India.
15. "On – Line assessment of Tool Wear state using surface roughness data by Fuzzy Technique' Proceedings of International conference on CAD, CAM, Robotics and Autonomous Factories (INCARF-93), IIT, New Delhi, India.
16. "Monitoring of cutting tool wear state by fuzzy clustering technique" Proceedings of ICCIM – 93, 2<sup>nd</sup> International Conference on Computer Integrated Manufacturing, 6-10, Sep. 1993, Singapore.
17. "On-Line Tool Wear Monitoring by Fuzzy Pattern recognition Technique" Proceedings of 9<sup>th</sup> International Conference on CAD/CAM, Robotics & Factories of Future, Aug, 1993, New Jersey, U.S.A.

### **Research Papers Published in National/International Journals**

1. "Aerodynamic Analysis of Fairings for Bicycles", International Journal of innovative Research in technology, e- journal, Volume 8 issue 4 September 2021.
2. "Investigation of Mechanical properties of Chopped Strand E-glass fiber and Basalt Fiber ReinforcementwithEpoxyresinwithandwithoutAdditionofCrabShellpower", International Journal on Emerging Technologies, ISSN No: 0975-8364, 11(4): 340-346 (2020).
3. "Investigations on the suitability of banana peel powder as an alternative additive in synthetic green sand molding system ", international journal of cast metals research, 29 July 2020.
4. "Effect of Drilling Parameters Torque, Thrust Force and Delamination Factor on GFRP and

- CFRP Composites using Different Size of Drills”, International Journal of Recent Technology and Engineering, ISSN No: 2277-3878, Vol.9(1), May 2020.
5. “Experimental Investigation of mechanical Behavior of Carbon Fiber and E-Glass fiber Reinforced with Epoxy Resin”, International journal of engineering science and technology, vol.8(10),2019, pp.460-463.
  6. “Experimental Investigation of Mechanical Properties on Kevlar and Flax Fiber Reinforced Hybrid Composite Material with Filler Material” International Journal of Research in Advent Technology, E-ISSN: 2321-9637 Vol.7, No.6, June 2019
  7. “Mass Optimization of Automobile Wheel Rim”, International Journal of Engineering Trends and Technology (IJETT) ISSN: 2231-5381 – Volume 26 Number 3- August 2015
  8. “Annoys-CFX Analysis on A sedan Car with wheels and without wheels” International Journal of Research in Engineering and Advanced Technology” (IJREAT), ISSN: 23208791, Volume.2, Issue #, June-July 2014.
  9. “Annoys-CFX Analysis on a Hatch-Back Car with Wheels and without Wheels” INTERNATIONAL JOURNAL OF RESEARCH IN AERONAUTICAL AND MECHANICAL ENGINEERING, ISSN (ONLINE): 2321-3051 Vol.2, issue2, June 2014, pg.28-39.
  10. “Optimization of Single Point Turning Tool” International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 3 Issue 5, May – 2014
  11. “Annoys- CFX analysis on Ahmed Body”, International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 3, Issue.06, and June 2014.
  12. “Evaluation of Performance Parameter by Hybrid Modeling of Pull Production Control System and by Simulation Approach”, International Journal of Emerging Technology and Advanced Engineering, ISSN 2250-2459 (on-line), An ISO 9001:2008 Certified Journal, Volume 3, Special issue 2, January 2013.
  13. “Performance Evaluation of pull production control Mechanisms by Mathematical Modeling and simulation Analysis on EKCS and HEKCS policies ‘international journal on theoretical and Applied Research in mechanical Engineering, vol.2, issue-4, 2013, pp.7-11
  14. “Performance Evaluation of pull production control systems by CONWIP hybridization with simulation Approach”, international journal on Mechanical Engineering and Robotics, vol.1, issue-2, 2013, pp.153-159
  15. “A New Mathematical Modeling technique for pull production control systems’, international journal on theoretical and Applied Research in mechanical Engineering, ol.2, issue -4, 2013, and pp.1-6.
  16. “Analyzing Crack Propagation Behavior in a Centrifugal Pump Casing using Finite Element Techniques and Improve the design by Damage Tolerance Assessment” *International Journal of Computer Information Systems*, ISSN22295208, Page 92 to 98, Vol.5, No.5, November 2012.
  17. “Finding Critical Failures in a Centrifugal Pump Casing Computational Fluid Dynamics

Structural Analysis”, International Journal of Advances in Science and Technology, ISSN No: 2229 5216, Vol.5, No.5, November 2012.

18. “Finite element analysis of centrifugal pump casing to detect the crack at the tongue region” International journal of engineering science and technology (IJEST), ISSN No: 0975-5462, vol.3, No.9, September 2011.
19. “A model approach for vibration analysis and condition monitoring of a centrifugal pump” International journal of engineering Science and Technology (IJEST), ISSN: 0975-5462, Vol.3, No.8, August 2011.
20. “Applying ANN to Predict Mechanical Properties in TMT process:, Journal of Institution of Engineers India, Vol.90, April 17, 2009.
21. “A finite- Element based prediction of micro structural evolution of steel rods subjected to accelerated cooling” Technology Spectrum, An International Journal, ISSN: 0974-6854, March 2009.
22. “Heat transfer Analysis and Micro Structural of Steel Rods Subjected to Accelerated Cooling Using Finite Element Method” Technology Spectrum, An International Journal, ISSN: 0974-6854, Vol.3, No, 1, March 2009.

#### **Workshops/Seminars/Courses Attended and Organized**

1. Completed a course on **Digital Manufacturing and Design** from Coursera, November 2020.
2. Completed a course on **Materials Science: 10 Things Every Engineer Should Know** from Coursera, November-2020.
3. Attended a Five Day Online Faculty Development Program from 22<sup>nd</sup> July to 26<sup>th</sup> July 2020 on “Frontiers of Research in Mechanical Engineering – FORME 2020, Satya Institute of Technology and Management, Vizianagaram.
4. Coordinator, **AICTE Sponsored Faculty Development Program (FDP)** on “Pedagogical Training on Outcome based Education, GVP College of engineering (A), 18<sup>th</sup> to 30<sup>th</sup> December 2017.
5. “**Management Capacity Enhancement Programme**” under Technical Education Quality Improvement Programme, Organized by IIM Udaipur, February 13 to 18, 2017
6. “Awareness workshop on **Outcome Based Education and Accreditation**”, organized by University college of Engineering (A), Osmania University, Hyderabad, in association with National Board of Accreditation (NBA), New Delhi, India, on 18<sup>th</sup> December 2016.
7. Participated in Learning Mission to Bengaluru and visited Bharat Fritz Werner Ltd, Bosch Ltd and Toyota Kirloskar Motor Pvt Ltd, organized under Confederation of Indian Industry (CII) under CII-TEQIP Project, 25-26 October 2016.
8. “**TEQIP-II Management Capacity Enhancement Programme**” Conducted by IIM, Tiruchinapalli, held from 12<sup>th</sup> to 16<sup>th</sup> October, 2015.
9. “Content Delivery, Assessment Planning and Attainment of outcomes using Ion CUDOS

Software” Under TEQIP-II S.C.1.2 Organized by Department of EEE Department, GVP College of Engineering (A), during 2<sup>nd</sup> to 4<sup>th</sup> March, 2015.

10. **“Good Governance and Institutional Assessment”** for Chairmen, BOG and Heads of TEQIP Institutions Conducted by Administrative Staff College of India, Hyderabad, May 12<sup>th</sup> to 14<sup>th</sup>, 2014.
11. **“Enhancing Quality of Technical Education and Research”** TEQIP Conclave, held at IIT Hyderabad during March 7<sup>th</sup> and 8<sup>th</sup>, 2014
12. “The Establishment of Centers of Excellence” Under TEQIP during November 29<sup>th</sup> and 30<sup>th</sup>, 2012, Andhra University College of Engineering, Visakhapatnam.
13. Attended the workshop on “Optimization Methods for Engineering Design”, organized by College of Engineering, GITAM, Visakhapatnam, during March 5-10, 2002.
14. Organizing Committee Member “Seminar on Industrial Safety & Environmental Awareness” conducted by GITAM on May 2-3, 1999 at Hotel Green Park, Visakhapatnam.
15. Organized “TECHNOVA – 99”, an Inter – Engineering College technical Paper Presentation Context for Colleges in Visakhapatnam, As a Faculty Advisor, I.S.T.E. Students Chapter, GITAM, March 19<sup>th</sup>, 1999.
16. Organizing member “MECON – 98”, National Mechanical Engineering Students Conference, Andhra University, College of Engineering, Visakhapatnam, Oct. 14 – 15, 1998.
17. Participated in the national seminar on “Fuzzy Technique Applications in Manufacturing and Engineering ‘Conducted by Department of Mechanical Engineering, Andhra University College of Engineering, Visakhapatnam, During March 20-21, 1998.
18. Active Organizing Member “FTAME-98”, National Seminar on Fuzzy Technique Applications in Manufacturing and Engineering, Andhra University, March 20 – 21, 1998.
19. Attended the Science and Engineering Research Council School on “Advanced Manufacturing Technology”, IIT, Madras and Department of Science and Technology, New Delhi, from 3<sup>rd</sup> June to 15<sup>th</sup> June 1996.
20. Participated in work shop on “Performance Appraisal and Development Systems”, conducted by GITAM Chapter of ISTE, 11-13<sup>th</sup> May 1995.
21. Attended the Winter School on. ‘Computer Numerical Control and Computer Aided manufacturing, Andhra University College of Engineering, Visakhapatnam, Sponsored by ISTE, from 26<sup>th</sup> December 1994 to 7<sup>th</sup> January 1995.