

Name: Dr. Vandana Chitti Babu
Employee ID: A5MEC00T56
Designation: Professor & Controller of Examinations
Department: Mechanical Engineering
Date of Birth: 05-08-1974
Father Name: Suryanarayana
Mother Name: Sarojini



Reservation Category if Any BC-D

SC	ST	BC- A/B/C/D/E	OC
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Address: 8Th Line, PN Colony, Near Sai Vidyamandir, Srikakulam

Mobile Number: 9491934294

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Date of Joining in the Institution: 03-07-2018

Academic Excellence:

QUALIFICATION	BOARD / UNIVERSITY	DIVISION	YEAR
Ph.D (Mech. Eng.)	IIT, Delhi		June 2011
M.E (Computer Integrated Design and Manufacturing)	NIT, Jamshedpur	FIRST Class	October 1999
B.E. (Mech. Engg.)	Osmania, Hyderabad	FIRST Class	April 1997

Total Years of Experience (Teaching/Industry): 22 Years

Period		Organization/Institution	Designation
Oct 2021	Till Date	AITAM, Tekkali	Professor & Controller of Examinations
July 2018	Sep 2021	AITAM, Tekkali	Professor
July 2013	June 2018	GMRIT, Rajam	Professor & Head
May 2005	June 2013	GMRIT, Rajam	Associate Professor
Oct 2000	April 2005	GMRIT, Rajam	Assistant Professor
Oct 1999	Oct 2000	MITS, Madanapalle	Assistant Professor

Areas of Interest:

1. Mechanics of Solid
2. Design of Machine Elements
3. Elements of Mechanical Engineering
4. Machine Drawing
5. Engineering Drawing
6. Theory of Machines

Guidance of Academic Projects:

- i) Doctoral Projects : Nil
- ii) Masters Projects : 4
- iii) Bachelor Projects : 26

Sponsored Research Projects:

S. No.	Sponsoring Agency	Title of the Project	Grant
1.	AICTE	STTP ON Application of FEM in Fracture Mechanics	3.35 IAKHS

Honors and awards received: - Nil

Memberships of Professional Societies and Other Organizations:

LMISTE, MIE, IAENG

Other Responsibilities: IQAC Coordinator

Details of Book Publications: - Nil

Details of Publications:

1. **Chittibabu V.**, Venkata Suresh Bade and Govinda Rao P. (2013) ‘ Determination of Mechanical Properties of Different Materials Using Inverse Finite Element Procedure for the Miniature Specimen Test Simulation’, IOSR Journal of Mechanical and Civil Engineering, Volume 6, Issue 3, pp 25-36.
2. **Chittibabu V.**, Sateesh L.V. and Govinda Rao P. (2013) ‘ Dynamic Analysis of Piezoelectric Transducers Using Finite Element Method’, International Journal of Engineering Research & Technology, Volume 2, Issue 5, pp 375-385.
3. Kalpana J., Ramana S.V., Govinda Rao P., **Chittibabu V.** and Santa Rao K. (2013) ‘ Implementation of Generalized Regression Neural Network to Establish a Relation Between Vibration Parameters and Time of Vibration for Welded Joints’, IOSR Journal of Mechanical and Civil Engineering, Volume 6, Issue 4, pp 36-42.
4. Krishna Prafulla B., **Chittibabu V.**, and Govinda Rao P. (2013) ‘CFD Analysis of Convergent – Divergent Super Sonic Nozzle’, International Journal of Computational Engineering Research, Volume 3, Issue 5, pp 5-16..

5. Govinda Rao P., Prasad C.L.V.R.S.V., Sreeramulu D., **Chittibabu V.** and Vykunta Rao M., (2013) 'Determination of Residual Stresses of Welded Joints Prepared under the Influence of Mechanical Vibrations by Hole Drilling Method and Compared by Finite Element Analysis', International Journal of Mechanical Engineering and Technology, Volume 4, Issue 2, pp 542-553.
6. **V Chittibabu**, K Santarao, P Govinda Rao and M V S Babu (2016) 'Experimental Studies on Tensile Properties of Various Steels Using Miniature Specimens', International Journal of ChemTech Research, Volume 9, Issue 8, pp 305-11.
7. **V Chittibabu**, K Santarao and P Govinda Rao (2016) 'Factors Affecting The Mechanical Properties of Compact Bone and Miniature Specimen Test Techniques: A Review', **Advances in Science and Technology Research Journal**, Volume 12, Issue 32, pp 169-83.
8. **V Chittibabu**, K Santarao, P Govinda Rao and M V S Babu (2016) 'Evaluation of Stress Intensity Factors of Different Materials: A Finite Element Approach', International Journal of Chemical Science, Volume 14, Issue 4, pp 1886-92.
9. Govinda Rao P., Jagadeesh V., Santarao K. and **Chittibabu V.**(2017) 'Performance of Solar Power Refrigerator Using Different Materials: A Comparison', International Journal of Manufacturing, Materials, and Mechanical Engineering, Volume 7, Issue 1, pp 52-66.
10. **V Chittibabu**, P Govinda Rao and K Santarao (2018) 'Design of Accurate Steering Gear Mechanism', Mechanics and Mechanical Engineering Journal, Volume 22, Issue 1, pp 93-103.
11. Vijaya Sekhar Babu MERIGA, Ajay Dev BOYINA and **Chittibabu V** (2018) 'Design and fabrication of low-cost electrical resistance based metal melting furnace for casting applications', Leonardo Electronic Journal of Practices and Technologies, Volume 16, Issue 32, pp 41-54
12. A. Vijay Kumar, S. Varadarajan and **V. Chitti Babu** (2020) 'Quantification of traffic congestion based on vehicular speed under heterogeneous flow conditions using fuzzy inference model' Proceedings of sustainability trends and challenges in civil engineering, Volume 162, pp 351-362.
13. G. R. Patta, **V. Chitti Babu**, V. Ravi Kumar & N. Veeraiah (2021) 'Study on the influence of gelation promoter on the structural and magnetic properties of cobalt ferrite nanoparticles developed through sol-gel method' Journal of Sol-Gel Science and Technology, Springer Publications.

Awards & Rewards

Received Certificate of Appreciation at GMRIT 2010 to 2011

Received Certificate of Appreciation at GMRIT 2011 to 2012

International Conferences:

1. **Chittibabu V.**, Sehgal D.K. and Pandey R.K. (2008) 'Experimental and Numerical Studies on Mechanical Behaviour of Bovine Cortical Bone using Miniature Specimen Technique', Proceedings of international symposium for research scholars on Metallurgy, Materials Science & Engineering (ISRS 08), Indian Institute of Technology, Chennai, India, 10-12 December 2008, pp 18-23.
2. **Chittibabu V.**, Sehgal D.K. and Pandey R.K. (2009) 'Studies on Mechanical Behavior of Bovine Cortical Bone using Rectangular Miniature Specimens', Proceedings of 12th international conference on fracture (ICF-12), Ottawa, Canada, July 12-17, 2009, pp 686-695.
3. Sateesh L.V. and **Chittibabu V.** (2013) 'Finite Element Analysis of Piezoelectric Transducers', Proceedings of International Conference on Latest Trends in Engineering and Technology (ICLTET), Tirupati, India, April 27, 2013, pp 65-76.
4. Rama Krishna G., Anil Kumar Ch., Govinda Rao P., **Chittibabu V.** and Ramana S.V. (2013) 'Finite Element Analysis of Residual Stresses in Welded Joints Prepared Under Influence of Mechanical Vibrations', Proceedings of International Conference on Latest Trends in Engineering and Technology (ICLTET), Tirupati, India, April 27, 2013, pp 86-90.
5. Ravikumar Dumpala, B.V. Suresh, K. Ramasubramanian, **V. Chittibabu**, M.S. Ramachandra Rao (2014) 'Tribological and Machining Performance of the CVD Diamond Coatings Against Al_m-30SiC_p MMC', Proceedings of the International Conference on Advances in Design and Manufacturing (ICAD&M-2014), NIT, Tiruchirappalli, India, December 5-7, 2014, pp 1510-14.
6. **V. Chittibabu** (2015) 'Fracture Toughness of Reversed Dished End Pressure Vessels', Proceedings of the Afro - Asian International Conference on Science, Engineering & Technology (AAICSET-2015), Indore, India, May 2-3, 2015, pp 135-39.

National Conference:

1. Shalendra Kumar and **V. Chittibabu** "A3-D Finite Element Modeling and Analysis of a Bogie"., National Conference of Mechanical Engineers, Thapar Inst. Of Engg. & Technology, Patiala, India, Paper No. 121, Oct. 30-31, Patiala, 2003.
2. **Chittibabu V.**, Sehgal D.K. and Pandey R.K. (2008) 'Evaluation of Mechanical Properties of Bovine Cortical Bone using Miniature Specimen Technique and Finite Element Method', Proceedings of National Symposium for Materials Research Scholars (MR-08), Indian Institute of technology, Bombay, India, 17-18 May 2008.
3. Venkata Suresh Bade, **Chittibabu V.** and Govinda Rao P. (2013) 'Inverse Finite Element Procedure for the Determination of Mechanical Properties of Different Materials Using Miniature Specimen Test Simulation', Proceedings of the National Conference for Researchers on Latest Innovations in Mechanical Engineering (LIME-2013), Visakhapatnam, India, April 28, 2013, pp 18-25.

Details of Conferences / Workshops / Refresher Courses Organized/ Resource Person:

1. Delivered a guest lecture on “Way forward to NAAC II Cycle Accreditation and Outcome Based Education” at Chaitanya Engineering College, Visakhapatnam, on 20th August 2019.
2. Delivered a lecture as a resource person on Miniature Specimen Testing for composites during National workshop on “ Advances in Composite Materials” conducted by SASI INSTITUTE OF TECHNOLOGY AND ENGINEERING during 27th November 2017 to 02nd December 2017.
3. Coordinated a two day National workshop on application of FEM in Mechanical and Civil engineering systems during 25th to 26th November 2011.
4. Delivered a guest lecture on CNC Technology in a “Two Day Refresher Course on CNC and APT Programming” during 8th and 9th Jan 2005 at G.M.R.I.T., Rajam.

Details of Conferences / Workshops / Refresher Courses Attended:

1. Successfully completed NPTEL course on “NBA Accreditation and Teaching – Learning in Engineering” conducted by NPTEL- AICTE.
2. Successfully completed Courseera course on “Machine Design Part -I” conducted by Courseera.
3. Successfully completed NPTEL course on “Course Design and Instruction of Engineering Course” conducted by NPTEL- AICTE
4. Successfully completed NPTEL course on “Accreditation and Outcome Based Learning” conducted by NPTEL- AICTE
5. Successfully completed NPTEL course on “Effective Engineering Teaching in Practice” conducted by NPTEL- AICTE
6. Successfully completed NPTEL course on “Teaching And Learning in Engineering” conducted by NPTEL- AICTE
7. Participated in the One week faculty development programme on “Outcome Based Education and Accreditation” organized by ISTE-TS & JNTUH, Hyderabad during 5th – 9th October 2020.
8. Participated in the One week faculty development programme on “An Insight into Revised Accreditation Framework of NAAC” organized by NEC, Narasarao Peta during 1st – 6th July 2020.
9. Participated in the One week faculty development programme on “Skill Development for Effective Research and Teaching - Learning Process” organized by ANITS, Visakhapatnam during 8th – 12th June 2020.
10. Participated in the One week faculty development programme on “Advanced Manufacturing Enterprise in Digital Era” organized by AITAM, TEKKALI during 1st – 5th June 2020.
11. Participated in the Three day faculty development programme on “Advanced Material Characterization Techniques” organized by LIET, Vizianagaram during 28th – 30th May 2020.
12. Participated in the One week faculty development programme on “Statistical Analysis for Research” organized by RSRI, Krishnagiri during 18th – 22nd May 2020.
13. Participated in the One week faculty development programme on “Research Challenges and Innovations in Renewable Energy Systems” organized by AVIT, Chennai during 11th – 16th May 2020.
14. Participated in the One week faculty development programme on “Advanced Research Methodology” organized by RSRI, Krishnagiri during 11th – 15th May 2020.
15. Participated in the Three day faculty development programme on “Recent Trends in Robotics and Intelligent Manufacturing” organized by LIET, Vizianagaram during 11th – 13th May 2020.

16. Participated in the Four day faculty development programme on “3D Printing for Design and Advanced Development -Applications for Automotive Sector, Medical Devices, Missiles, Customized Gifts, Drones and Robots” organized by NAFEMS & SIT, TUMKURU during 6th – 9th May 2020.
17. Participated in the One week faculty development programme on “Emerging Trends in Qualitative Research in Engineering & Technology” organized by DIET in Association with CSI, Visakhapatnam during 9th – 14th November 2018.
18. Participated in the workshop on “Effective Integration of ICT Tools in Teaching and Learning” conducted by GMRIT in association with Education Technology, IIT Bombay during November 25-26, 2017.
19. Successfully completed “Trainer Workshop on Design The Thinking” organized by 8012 Fin Tech Design Center, Chennai during 15th – 18th November 2017.
20. Participated in a National Workshop on “Outcome Based Education and Accreditation” organized by GMRIT, Rajam in association with Faculty Development Center, JNTUK, Kakinada during 17th – 18th May 2017.
21. Participated in the workshop on “Empowering Engineering Faculty in question Paper Setting” organized by GMRIT, Rajam during 11th – 12th November 2016.
22. Participated in the faculty development programme on “Objective Oriented, Enriched, Revised Bloom’s Taxonomy” organized by GMRIT, Rajam during 16th – 17th September 2016.
23. Participated in the workshop on “Starting of Siemens Centers of Excellence/ Technical Skill Development Institutes” organized by Andhra Pradesh State Skill Development Corporation on 18th April 2016.
24. Participated in one day seminar on “Leadership and Communication Skills” organized by the directorate of faculty education, JNTUK Kakinada on 5th December 2015.
25. Participated in the “International Seminar on Glasses and other Functional Materials” organized by the department of Physics, AcharyaNagarjunaUniversity, Andhra Pradesh during 11th – 13th December, 2014.
26. Participated in “Workshop for Training Resource Persons on Outcome Based Accreditation - Phase I & II” conducted by NBA training centre at GMRIT, Rajam on 03rd& 15th – 17th February 2014.
27. Participated in a Two Day Faculty Development program on “New Horizons in Mechanical Engineering” at AITAM, Tekkali during 22nd – 23rd March 2013.
28. Successfully guided M.Tech. (CAD/CAM) project dissertation entitled “Finite Element Analysis of Piezo Electric Transducers for Dynamic Loading”.
29. Successfully guided M.Tech. (CAD/CAM) project dissertation entitled “Determination of Mechanical Properties of Different Materials Using Miniature Specimen Test Simulation”.
30. Acted as a judge for paper presentations in mechanical engineering for STEPCONE 2012 at G.M.R.I.T.
31. Acted as a judge for paper presentations in mechanical engineering for STEPCONE 2011 at G.M.R.I.T.
32. Successfully completed a Mission 10X workshop on High Impact Teaching Skills conducted during 19th to 23rd July 2011 at G.M.R.I.T., Rajam.
33. Submitted a Proposal to AICTE Funding for Staff Development Program Scheme on ‘Applications of FEM in Fracture Mechanics’ for the year 2010-11.
34. Submitted a Proposal to DST for Funding of Research Project on ‘Fabrication and Characterization of Flax Reinforced Bio-Degradable Polymers’.
35. Successfully completed the MHRD/AICTE summer school course on alternative sources of energy organized by Centre for Energy Studies, IIT Delhi from July 10-25, 2008.
36. Attended the Hands-on training program on S-360 Cambridge SEM-system, held from 17th -18th June, 2008 at IIT Delhi.

37. Participated in Indo-Russian workshop on problems in Nonlinear Mechanics of Solids with Large Deformation held at IIT Delhi from 22-24 Nov, 2006.
38. Participated in the short course on Methods of Improving Teaching Techniques from 24th to 29th Nov, 2003, conducted by TTTI, Chennai at GMRIT, Rajam.
39. Participated in the AICTE-ISTE funded STTP on Computer Applications in Manufacturing Technology organized by O.U. College of Engineering from May 27th to June 1st 2002 at Hyderabad.
40. Participated in the STTP on Production Engineering Drawing held at the GMRIT, Rajam from 12th to 14th December 2002.
41. Participated in the three day workshop on production Drawing for Mechanical Engineers organized by GVP College of Engineering, Visakhapatnam during 6th to 8th September 2001.
42. Participated in the STTP on Finite Element Method in CAD Systems conducted by A.U. College of Engineering, Visakhapatnam during 7th to 9th February 2001.

Other additional responsibilities:

1. **NAAC** Steering committee coordinator for GMRIT during NAAC peer team visit of 2015
2. **IQAC** coordinator of GMRIT during October 2012 to November 2018
3. **Defended** successfully appeal for 5 years NBA accreditation under tier-I for B. Tech. Mechanical Engineering
4. **President-** Alumni affairs committee of GMRIT during 2012 to 2016
5. **Coordinator** for M.Tech (CAD/CAM) during 2009 to 2015
6. **Coordinator** for various assignments viz. examinations, time tables, LAN based courses etc.

V. Chittabadi

Signature