

Dr. B.RAMGOPAL REDDY

M.Tech., Ph.D.

Associate Professor
Department of Mechanical Engineering
RVR & JC College of Engineering
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Research Interests: CNT Reinforced Composites, FRP composites, FEM, Machine Design

Name : **Dr. B.RAMGOPAL REDDY**
Date of Birth : **3rd April 1973**
Father's Name : **Sri Chinna Venkat Reddy**
Religion : **Hindu**
Nationality : **Indian**
Address for correspondence:

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Department of Mechanical Engineering
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EDUCATIONAL QUALIFICATIONS:

Name of the course with specialization	Name of the Institute/University	Year of passing	Percentage of Marks	Class/Division obtained
B.Tech. Mechanical Engg.	Nagarjuna University	1996	79.1	First class with Distinction
M.Tech. Design & Production Engg. - M/C Tools	NIT, Warangal	1998	76.0	First Class
Ph.D. Mechanical Engineering	Andhra University, Visakhapatnam	2013	Topic: Simulation Studies of Carbon Nanotube based Multiscale Composites	

PROFESSIONAL EXPERIENCE:

Designation	Name of the Organization	Period
Lecturer	RVR & JC College of Engineering, Guntur, A.P.	1998-2006 (8 years)
Senior Lecturer	RVR & JC College of Engineering, Guntur, A.P.	2006-2008 (2.5 years)
Associate Professor	RVR & JC College of Engineering, Guntur, A.P.	2009 - to - till date (11.5 years)

Total Teaching Experience: 20 Years

SUBJECTS TAUGHT:

1. Engineering Mechanics
2. Mechanics of Materials
3. Mechatronics
4. Tool Engineering
5. Metal Forming Processes
6. Robotics
7. Kinematics of Machines
8. Finite Element Analysis
9. Metal Casting & Joining Processes
10. Design of Machine Elements
11. Advanced Machine Design
12. Mechanics of Composite materials
13. Dynamics of Machinery
14. Design of Transmission Elements
15. Metal cutting and machine tools
16. Advanced manufacturing processes

LABS HANDLED:

1. Analysis Lab
2. CAM Lab
3. Computer Applications Lab
4. Foundry, Welding and Fitting Lab
5. Machine Shop Practice Lab
6. Work Shop Practice Lab

ADMINISTRATIVE DUTIES:

1. Asst. Controller of Examinations(Special section(exams))
2. In-charge of CAM and Mechatronics Lab.

PAPERS PUBLISHED:

1. B.Ramgopal Reddy and K.Ramji, "Modeling and Evaluation of Effective Elastic Properties of Carbon Nanotubes Reinforced Carbon Fiber/Epoxy Multiscale Composites", *Materials Today: Proceedings*, Elsevier, Vol. 21, pp. 1099–1103, 2020.
2. B. Supraja and B. Ramgopal Reddy, "Experimental Investigation on Friction StirWelding of Dissimilar Alloys AA7075 and Pure Copper: Effect of Tool Material and Process Parameters on Mechanical Properties", *Advances in Materials and Manufacturing Engineering, Lecture Notes in Mechanical Engineering*, Springer, pp: 533-540, 2020.
3. Chandanam Srinivas, Ravela Naveen and Bijjam Ramgopal Reddy, "Design of Row Based Machine Layout – A Case Study", *Advances in Simulation, Product Design and Development, Lecture Notes on Multidisciplinary Industrial Engineering*, Springer, pp. 327-337, 2019.
4. K. Sai Kiran and B. Ramgopal Reddy, "Optimization of Process Parameters in Drilling of Glass/Flax/Bamboo Fibers Reinforced Polymer Hybrid Composites using Taguchi Method", *International Journal of Research and Analytical Reviews (IJRAR)*, ISSN: 2277-3878, 6(3), pp.178-185, 2019.
5. C.Sailaja, B.Ramgopal Reddy and G. Venkateswarlu, "Influence of Friction Stir Processing Parameters on MgZE41-SiC Surface Composite", *International Journal of Recent Technology and Engineering (IJRTE)*, ISSN: 2277-3878, 8(2), pp. 6058-6061, 2019.
6. Raffi Mohammed, B Ramgopal Reddy, Abdul Siddique Shaik and J.S. Suresh "Hybridization Effect on Mechanical Properties and Erosion Wear of Epoxy-Glass Composites", *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, ISSN: 2278-3075, 8(9), July 2019
7. Raffi Mohammed, B Ramgopal Reddy, Abdul Siddique Shaik and Aluri Manoj "Effect of Fillers on Erosion Wear Rate of Polymer Matrix Composites", *International Journal of Engineering and Advanced Technology (IJEAT)*, ISSN: 2249-8958, 8(5), June 2019.
8. Raffi Mohammed, B Ramgopal Reddy, Aluri Manoj, "Fabrication, Mechanical Characterization, and Selection of Hybrid Composites by TOPSIS", *International Journal of Recent Technology and Engineering (IJRTE)*, ISSN: 2277-3878, Vol. 8(1), May 2019.
9. B. Ramgopal Reddy and K. Ramji, "Modeling and Evaluation of Effective Elastic Properties of Carbon Nanotubes Reinforced Carbon Fiber/Epoxy Multiscale Composites", *Sixth International Conference on Recent Advances in Composite Materials (ICRACM-2019)* during 25th - 28th February, 2019 at IIT(BHU), Varanasi, India.

10. Raffi Mohammed, B Ramgopal Reddy, Aluri Manoj, "Fabrication & Erosion wear Response of E-Glass-Epoxy Based Hybrid Composites filled with CFA/CFACP", *International Journal of Engineering and Advanced Technology (IJEAT)*, ISSN: 2249 – 8958, Vol. 8(3), pp: 522-528, 2019.
11. Raffi Mohammed, B. Ramgopal Reddy, Aluri Manoj, "Synthetic Fibers of Polymer Matrix Composites - A Review", *Jour of Adv Research in Dynamical & Control Systems*, Vol. 10(9), pp: 2733-2743, 2018.
12. Raffi Mohammed, B Ram Gopal Reddy and Nunna Venkata Sai Kumar, "Evaluation of Mechanical Properties of Epoxy Based Hybrid Composites & MCDM Technique for Composite Selection", *International Journal for Modern Trends in Science and Technology*, ISSN: 2455-3778, Vol. 4(7), pp: 39-47, 2018.
13. B. Ramgopal Reddy and Sneha H Dhoria, "Effect of alkaline treatment on mechanical properties of kenaf fiber reinforced polyester composites", *AIP Conference Proceedings*, 020097 (2018), doi: 10.1063/1.5029673, pp: 1-8, published by American Institute of Physics.
14. B. Ramgopal Reddy and C. Srinivas, "Fabrication and Characterization of Silicon Carbide and Fly Ash Reinforced Aluminium Metal Matrix Hybrid Composites", *Materials Today: Proceedings*, Elsevier, Vol.5, pp. 8374-8381, 2018.
15. M. Srinivasa Rao, C. Srinivas and B. Ramgopal Reddy, "Effect of Chemical Treatment on Mechanical Properties of Kenaf and Jute Fiber Reinforced Polyester Composites", *International Journal for Modern Trends in Science and Technology (IJMTST)*, Vol. 3(7), pp. 287-291, 2017.
16. C.Sailaja and B.Ramgopal Reddy et al., "Experimental Analysis of Friction Stir Welding on Dissimilar Aluminium and Brass Alloys", *International Journal of Civil Engineering and Technology (IJCET)*, Vol. 8(7), pp: 490-495, 2017.
17. Raffi Mohammed, B. Ramgopal Reddy et al. "Preparation and Characterization of Rubber Lining Material For 33% Diluted Hcl Acid Storage Tank", *International Journal for Modern Trends in Science and Technology (IJMTST)*, Vol. 3(7), pp. 93-97, 2017.
18. B. Supraja and B. Ramgopal Reddy, "The Effect of Tool Geometry and Process Parameters on Mechanical Properties and Microstructure of Friction Stir Welded Dissimilar Joints of AA7075 Aluminium Alloy and Pure Copper", *International Journal of Mechanical Engineering and Technology (IJMET)*, Vol. 9(6), pp: 840-848, 2017.
19. C.Sailaja and B.Ramgopal Reddy et al., "Micro structural studies of Magnesium ZE41 Rare Earth Alloy using SEM", *International Journal of Mechanical Engineering and Technology (IJMET)*, Vol. 8(6), pp: 722-728, 2017.
20. K. Sai Sravani, B. Ram Gopal Reddy and Raffi Mohammed, "Effect of CaCO₃ and Al₂O₃ Fillers on Mechanical Properties of Glass/Epoxy Composites", *International Journal for Modern Trends in Science and Technology (IJMTST)*, Vol. 3(6), pp. 207-214, 2017.

21. B. Ramgopal Reddy and C. Srinivas, "Fabrication and Characterization of Silicon Carbide and Fly Ash Reinforced Aluminium Metal Matrix Hybrid Composites", International Conference on Emerging Trends in Materials and Manufacturing Engineering during 10th – 12th March, 2017 at NIT, Trichy, India.
22. Raffi Mohammed, B. Ramgopal Reddy et al. "Mechanical characterization & TOPSIS Ranking of Glass Fiber Reinforced particulate filled Epoxy based Hybrid Composites, Journal of Chemical and Pharmaceutical Sciences, ISSN: 0974-2115, JCHPS Special Issue 2: February 2017, pp. 311-317, 2017.
23. B. Supraja and B. Ramgopal Reddy, "Review on different trends in friction stir welding", International Journal of Innovations in Engineering and Technology, Vol. 7(1), pp: 171-178, 2016.
24. C.Sailaja and B.Ramgopal Reddy, "Fabrication and Friction Stir Welding of Aluminium SiC metal matrix composites", International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), ISSN 2347-6710, Vol. 5(7), pp: 13153-13159, 2016.
25. B. Ramgopal Reddy, K. Ramji and B. Satyanarayana, "Modeling and Simulation of Nano and Multiscale Composites", International Journal of Hybrid Information Technology, Vol.9, No.3 (2016), pp. 133-144.
26. Raffi Mohammed and B. Ramgopal Reddy, "Effect of Epoxy modifiers (Bagasse fiber / Bagasse ash / Coal powder /Coal Fly ash) on mechanical properties of Epoxy / Glass fiber hybrid composites", International Journal of Applied Engineering Research(IJAER), ISSN 0973-4562, Vol. 10 No.24, pp. 45625-45630, 2015.
27. C.Sailaja and B.Ramgopal Reddy, "Effect of Process Parameters on Mechanical Properties of Friction Stir Welding – A Review", International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), ISSN 2347-6710, Vol. 4(10), pp: 9818-9822, 2015.
28. B. Supraja and B. Ramgopal Reddy, "Effect of Tool Geometry and Process Parameters on Mechanical Properties and Micro Structure of Various dissimilar Aluminium Alloys Welded by Friction Stir Welding – A Review", International Journal of Engineering Technology, Management and Applied Sciences, Vol. 3(4), pp: 316-328, 2015.
29. B.Ramgopal Reddy and D. Subramanya Atchyuth, "Effect of Chemical Treatment on Mechanical Properties of Kenaf Fiber Reinforced Unsaturated Polyester Composites", International Conference on Polymer Composites (ICPC 2014), December, 19-20, 2014, NITK, Surathkal, Mangalore, India.
30. C. Srinivas, B. Ramgopal Reddy, K. Ramji and R. Naveen, "Sensitivity Analysis to Determine the Parameters of Genetic Algorithm for Machine Layout", Procedia Materials Science, Elsevier, Vol.6, pp. 866-876.

31. B. Ramgopal Reddy, K. Siva, M. Vinay Kumar and Sk Abbas Shareef, "Fabrication and Testing of Rice Straw Reinforced Polymer Composites", Indian Science Cruiser, Vol.27, No.6, pp.30-34, 2013.
32. B. Ramgopal Reddy, K.Ramji and B.Satyanarayana, "Non-linear Structural Response of Multiscale Composite Panels", International Journal of Engineering Research and Technology, Vol.2 (8), pp. 541-550, 2013.
33. B.Ramgopal Reddy, K.Ramji and B.Satyanarayana, "Stress Concentration in Carbon Nanotube based Multiscale Composite Plates with Central Hole", International Journal of Advances in Science and Technology, Vol.7 (1), pp. 45-52, 2013.
34. B.Ramgopal Reddy, K.Siva, M.Vinay Kumar, Sk.Abbas Shareef, "Investigation of Mechanical Properties of Rice Straw Fiber Reinforced Polymer Composites", 4th International & 25th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2012), December 14th -16th, Jadavpur University, Kolkata, India, Vol.1, pp. 205-209.
35. B.Ramgopal Reddy, K.Ramji and B.Satyanarayana, "Free Vibration Analysis of Carbon Nanotube Reinforced Laminated composite Panels", International Journal of Mechanical and Materials Engineering, Vol.2(1), Aug2011, pp. 13-17.
36. B.Ramgopal Reddy and G.Anil Kumar, "Investigation of Mechanical Properties of Lime Sludge Reinforced Particulate Composites", Joint International Conference on Advanced Materials (ICAM 2011), August 19-20, 2011, BTLIT, Bangalore, India, pp.501-506.
37. B.Ramgopal Reddy, K.Ramji and B.Satyanarayana, "Effect of Fiber Orientation on Elastic Properties of CNT based Glass/Epoxy Lamina - FEA Approach", International Journal of Nanotechnology and applications, Volume 4(2), 2010, pp.153-162.
38. B.Ramgopal Reddy, K.Ramji and B.Satyanarayana, "A Finite Element Model for Estimating the Effective Mechanical Properties of Carbon Nanotube Reinforced Composites", ANU Journal of Engineering and Technology, Vol. 2(2), 2010, pp. 24-29.
39. B.Ramgopal Reddy, K.Ramji and B.Satyanarayana, "Evaluation of Effective Elastic Properties of CNT Based Composites Using Numerical Homogenization", Proceedings of 4th International Conference on Advances in Mechanical Engineering (ICAME2010), September 23-25, 2010, SVNIT, Surat, India, pp.115-119.
40. D.Sameer Kumar, B.Ramgopal Reddy , K.Ravindra, V.Chittaranjan Das, "Influence of process parameters on AWJC of INCONEL690 using GA", ANU Journal of Engineering & Technology, ISSN 0976-3414, Volume 2, Issue 1 , June 2010 pp. 81-85.
41. B.Ramgopal Reddy, C.Srinivas, B.Satyanarayana and K.Ramji, "Genetic Algorithm Approach for Optimizing Machine Layout Problem" International Seminar on Modelling, Simulation and Manufacturing System(MSMS-2008), June 29-30, 2008, Andhra University, pp.159-163.

42. K.Ramji, B.Satyanarayana and B.Ramgopal Reddy, "Dynamic Analysis of Composite Panels subjected to Non-Contact Explosion", Proceedings of Second International Congress on Computational Mechanics and Simulation (ICCMS-06), December 8-10, 2006, IITG, Guwahati, India, Vol.1, pp.179-186.
43. B.Ramgopal Reddy, G.V.Rao, C.S.P.Rao and R.L.Murty, "An application of Genetic Algorithm to the flow shop problem", Proceedings of the 18th All India Manufacturing Technology Design and Research conference, December 21-23, 1998, IIT, Kharagpur, India, pp.604-609.

WORKSHOPS AND SHORT TERM COURSES ATTENDED:

1. Attended AICTE sponsored short term course on "Analysis of Modern Manufacturing Processes" from 7th to 11th January 2019, organized by Department of Mechanical Engineering, Indian Institute of Technology-Bombay(IITB).
2. Attended AICTE sponsored short term course on "Finite Element Method for Engineers from all disciplines" from 26th March to 31st March 2018, organized by Department of Mechanical Engineering, Indian Institute of Technology-Madras, Chennai, Tamilnadu.
3. Attended AICTE short term training course on "Optimization in Engineering Design" from 26th September to 1st October 2016, organized by Department of Engineering Design, Indian Institute of Technology, Madras, Chennai, Tamilnadu.
4. Attended 3-day national workshop on "Advanced Vibration Analysis-MATLAB Hands on sessions", from 3rd to 5th march 2016 organized by Department of Mechanical Engineering, JNTUK, Kakinada.
5. Attended AICTE-QIP short term training programme on "Advanced composite materials", from 4th to 10th January 2016 organized by Department Mechanical Engineering, Coimbatore Institute of Technology (CIT), Coimbatore.
6. Attended AICTE short term training course on "Computational Mechanics" from 1st to 5th September 2014 organized by Department of Applied Mechanics and Aerospace Engineering, Indian Institute of Technology, Madras, Chennai, Tamilnadu.
7. Participated in the two day National Workshop on "Nanotechnology - A fuel for Chemical Industry" during 20th and 21st September, 2013 organized by the Department of Chemical Engineering, R.V.R& J.C College of engineering, Guntur.
8. Participated in the two day national seminar on "Futuristic Trends of Nanocomposites and their Fabrication" during 6th to 7th September, 2013 organized by the Department of Mechanical Engineering, R.V.R& J.C College of engineering, Guntur.

9. Attended QIP short term course on “Processing and Fabrication of Metal Matrix Composites” from 1st to 5th July 2013 organized by Department of Mechanical & Industrial Engineering, Indian Institute of Technology, Roorkee (Uttarakhand).
10. Participated in “MTAB’s Open House 2013” on 27th April, 2013 organized by MTAB Engineers (P) Ltd., Electrical & Electronics Industrial Estate, Chennai.
11. Attended one day workshop on the “3D Modeling and Design Validation Software, SolidWorks & Manufacturing Solution, CAM Works” held on 18th August 2009, conducted by CADD CENTRE Software Solutions Pvt. Ltd., Chennai.
12. Successfully completed the short term course on “Advanced Structural Analysis” during 9th to 13th October, 2006 under Continuing Education Programme organized by the Department of Aerospace Engineering Department, Indian Institute of Technology, Kharagpur.
13. Participated in the “Technopreneurship Development Program on Advanced Composites” from 17th to 22nd July, 2006, sponsored by TIFAC, Department of Science and Technology(DST), New Delhi, Small Industries Development Bank of India (SIDBI), Visakhapatnam & jointly organized by Department’s of Mechanical Engineering and Industrial Production Engineering College of Engineering, GITAM, Visakhapatnam.
14. Attended one day National Workshop on “Applications of Optimization Techniques in Industrial Engineering-OPTECH ‘05” during 10th December, 2005 organized by Department of Industrial & Production Engineering, Koneru Lakshmaiah College of Engineering.
15. Participated in one day workshop on “Environment and Pollution Awareness” sponsored by AICTE and organized by Lakireddy Bali Reddy College of Engineering, Mylavaram on 12th June 2004.
16. Participated and successfully completed the AICTE-ISTE, Short Term Training Programme (STTP) on “Advanced Metal Working Techniques & Finite Element Simulations in Metal Forming” over the two week period from 30th June to 11th July, 2003, organized by the Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad.
17. Participated in the UGC Seminar on “Current Computer & Information Trends” organized by Department of CSE, IT & MCA, R.V.R & J.C. College of Engineering, Guntur during December 28-29, 2001.
18. Participated in the two day short term course on “Finite Element Method” during 5th to 6th October, 2001 organized by the Department of Civil Engineering, R.V.R & J.C College of engineering, Guntur.
19. Participated in the three week Induction Training Programme held during May-June 2000, sponsored by AICTE, organized by Regional Engineering College (NIT), Kurukshetra.

20. Participated in the two day seminar on “Productivity Challenges of 21st Century” held from 27th to 28th April, 1999 organized by the Department of Management Sciences and the Department of Industrial and Production Engineering, R.V.R& J.C College of Engineering, Guntur.

OTHER INFORMATION:

1. Life member of Indian Society for Technical Education (ISTE)-LM37538
2. Member of International Association of Engineers (IAENG)-126669
3. Reviewer for International Journal of Engineering Research and Technology (ISSN: 2278-0181).
4. Member of International Scientific Committee and Editorial Review Board on Aerospace and Mechanical Engineering, World Academy of Science, Engineering and Technology(WASET).
5. Acted as a Judge for technical paper presentations.
6. Acted as Deputy Chief Superintendent for conducting AIEEE, EAMCET, JEE, NEET Exams etc.
7. Acted as Chief Superintendent for conducting UGC NET Exam.
8. Prizes were awarded by Sri Satya Sai Educational Society for securing First Rank in B.Tech.
9. Actively involved for securing good grade by NBA for five times.
10. Guided number of M.Tech and B.Tech Projects.
11. Guiding 7 research scholars for Ph.D.

(B.RAMGOPAL REDDY)