

Name: Ch. Naveen Reddy  
 Designation: Assistant Professor  
 Department: Mechanical engineering  
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Experience (in years): 6      Teaching: 6      Research:      Others (if any, specify):

**1. Educational / Technical qualifications:**

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	B.Tech	2012	Mechanical Engineering
2	M.Tech	2014	Engineering Design
3	Ph.D (Pursuing)		Composite Materials

**2. Teaching and Learning:**

- 2.2 Teaching Interests: DOM, MED-I, MED-II, FEM and Design Thinking
- 2.3 Novel Teaching & Learning Techniques adopted: NPTEL Videos, MOOCS, WIT AND WIL.
- 2.4 Involvement in curriculum updating / Design: DOM, DOM Lab, DME

**3. Co-curricular and Extra-Curricular Activities**

- 3.1. Interests and Hobbies: Reading Books, Gardening.
- 3.2. CCA/ECA Organized: Nil
- 3.3. CCA/ECA participated: Nil
- 3.4. Counselling and Mentoring Activity: Actively contributed in mentoring students
- 3.5. Committees involved in:
  - Department level: In charge for Major Projects and NPTEL
  - Institute Level: Disciplinary Committee

**4. Conference / Workshop / Seminar / Guest Lectures:**

- Conducted: 01
- Attended: 35

**5. Academic Contribution and Research & Consultancy:**

- 5.1. Invited Lectures: Nil
- 5.2. Articles/Chapters published in Books: Nil
- 5.3. Books published as single author as editor: Nil
- 5.4. Projects Guided:
  - a) UG:10    b) PG: 3
- 5.5. Research Interests: Characterization of composite materials, simulation of mechanisms and modelling of composite structures.
- 5.6. Ph.D students : Nil
  - a) Enrolled :                      b) Submitted:                      c) Awarded:

**5.7. Papers published in reviewed journals:**

S.N	Title of the	Journal Name	Vol.No.	PP	ISBN/ISS	Impact	National/
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o	Paper		N No.	Factor/ Citation Index	Internation al
1	Mechanical characterization of unidirectional banana-glass fiber reinforced epoxy hybrid composites	Journal of Emerging Technologies and Innovative Research September 2018, Volume 5, Issue 9	ISSN-2349-5162	5.87	Internation al
2	Mechanical and physical properties of epoxy based unidirectional banana/glass fiber reinforced hybrid composites	AIP Conference Proceedings <b>2057</b> , 020024 (2019); <a href="https://doi.org/10.1063/1.5085595">https://doi.org/10.1063/1.5085595</a>	978-0-7354-1785-4	0.40 (Indexed in Scopus & Google Scholar)	Internation al
3	Design and Analysis of Gas Foil Bearings	International Journal for Research in Engineering Application & Management (IJREAM) 2019 JETIR January 2019, Volume 6, Issue 1	ISSN : 2454-9150	5.834 (Indexed in Google Scholar)	Internation al
4	Bending Analysis of Smart Composite Laminated plates using Higher Order Shear Deformation Theory with Zig-Zag Function	Journal of Emerging technologies and innovative research (JETIR) 2019 JETIR January 2019, Volume 6, Issue 1	ISSN-2349-5162	5.87 (Indexed in Google Scholar)	Internation al
5	Design and analysis of a two stage reduction gearbox	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) Vol. 8, Issue 4, Aug 2018, 541-550	ISSN: 2249-8001	7.6197 (Indexed in Scopus & Google Scholar)	Internation al

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6	Bending Analysis of Piezoelectric Functionally Graded Material Plates using HSDT	Materials Science Forum, Vol.969, pp116-121	ISSN: 1662-9752	0.35 (Indexed in Scopus & Google Scholar)	International
7	Mechanical Characterization of Unidirectional Banana-Glass Fiber-Reinforced Hybrid Composites	Springer Nature Singapore Pte Ltd. 2020, Lecture Notes in Mechanical Engineering, 1031-1038	ISSN: 2195-4364	0.37 (Indexed in Scopus & Google Scholar)	International
8	Modelling and Simulation On Composite Laminates Subjected To Low Velocity Impact	Materials today: PROCEEDINGS Volume 18, Part 7, Pages 2201-5564 (2019)	ISSN: 2214-7853	0.97 (Indexed in Scopus & Google Scholar)	International
9	Effect of moisture absorption on the mechanical properties of jute/glass hybrid sandwich composites	Materials today: PROCEEDINGS 2214-7853(2021)	ISSN: 2214-7853	0.97 (Indexed in Scopus & Google Scholar)	International
10	Modelling and Analysis of Shoulder Traction Surgery Kit	IOP Conference Series: Materials Science and Engineering (2021)	ISSN: 012012012	0.53 (Indexed in Scopus & Google Scholar)	International

5.8. Papers presented at National / International Conferences:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Bending Analysis of Piezoelectric Functionally Graded Material Plates using HSDT	International Conference on Recent Advances in Materials and Manufacturing Technologies	International	19-20 Nov.2018
2	Mechanical and Physical Properties of Epoxy Based Unidirectional Banana/Glass Fiber Reinforced Hybrid Composites	Second International Conference on Polymer Composites-2018 department of mechanical engineering national institute of technology karnataka, surathkal	International	15-16 Dec.2018
3	Mechanical Characterization of Unidirectional Banana–Glass Fiber-Reinforced Hybrid Composites	First International Conference on Applied Mechanical Engineering Research 2019 (IC-AMER)	International	2-4 May 2019
4	Experimental Study on Mechanical Properties of AA7075, Al <sub>2</sub> O <sub>3</sub> and Graphite Metal Matrix Composite	International E-Conference on Materials Processing & Characterization-2020	International	18-19 September 2020
5	Effect of moisture absorption on the mechanical properties of jute/glass hybrid sandwich composites	International Conference on Sustainable Development in Mechanical Engineering (SDME 2020)	International	30-31 October 2020

6	Effect on Mechanical Properties of Jute/Glass Hybrid Polymer Composites Due to Moisture Absorption	Multi-Functional Material for Extreme Loading (MF MEL-2021)	International	22-24 Feb 2021
7	Design and simulation of flapping wing mechanism with span-wise bending and pitching	ICRAMAV-2014, JNTUH, India	International	5-7 November 2014
8	Camouflaged Miniature Air Vehicle An Eagle Inspired Design	ICRAMAV-2013, JNTUH, India	International	21-23 November 2013

5.9. Sponsored research Projects: Nil

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed

5.10 Consultancy Projects: Nil

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed

**6.Awards / Honours received:**

- “Received the Best poster presentation” for the paper Experimental Study on Mechanical Properties of AA7075, Al<sub>2</sub>O<sub>3</sub> and Graphite Metal Matrix Composite” in the International E-Conference on Materials Processing & Characterization (ICMP&C-2020) on September 18<sup>th</sup> & 19<sup>th</sup>, 2020 at CBIT, Hyderabad, India.

**7.Motto:** The secret in education lies in respecting the student