

## CURRICULUM VITAE

### Dr. MODEM AMARESWARI REDDY



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[modem.amareswari@gmail.com](mailto:modem.amareswari@gmail.com)

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#### Sr. ASSISTANT PROFESSOR

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#### PROFESSIONAL I'Ds

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- ORCID ID: 0000-0001-6606-7126
- VIDWAN ID: 509853
- Google Scholar ID: 4S6ALQcAAAAJ&hl
- LinkedIn ID: 664125194

#### WORK EXPERIENCE

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- Total of **15+ years** of experience in teaching.
- Working as **Senior Assistant Professor** in Dr. Lankapalli Bullayya college of engineering, Visakhapatnam from Jan. 2024 to till date.
- Worked as **Assistant Professor** in Dr. Lankapalli Bullayya college of engineering, Visakhapatnam from July 2019 to Dec.2023.
- Worked as **Assistant Professor** in Anil Neerukonda Institute of Science & Technology (ANITS), Visakhapatnam from June 2012 to 2019.
- Worked as **Assistant Professor** in Kaushik Engineering College, Visakhapatnam from 2010 to 2012.
- Worked as **Assistant Professor** in Phyda Engineering College, Visakhapatnam from 2007 to 2008.

## **ACADAMIC COMMITTEE**

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- Institution's Innovation Council (IIC) committee member.
- Department member of Internal Quality Assurance Cell (IQAC) Coordinate.
- Anti Ragging and women's grievance Cell member.

## **AREA OF RESEARCH INTEREST**

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- Manufacturing Process Optimization
- Kinematic and dynamic of machines.
- Design of machine parts and analysis using Ansys software.

## **SUBJECTS HANDLED**

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- Took classes for M. Tech (Machine Design) students.
- Took classes for B. Tech students, which includes Mechanical, Civil and Electrical & Electronics Engineering (EEE) students.
- Subjected handled are Advanced Mechanics of Solids, Strength of Materials, Theory of Machines, Fluid Mechanics and Hydraulic Machines and Engineering Drawing

## **EDUCATION**

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- **Awarded Ph.D.** in July 2023. Andhra University, Visakhapatnam, India
- **Master of Engineering in Machine Design** with an aggregate of **7.86(CGPA)** from Andhra University, Visakhapatnam, India.
- **Bachelor of Engineering in Mechanical Engineering** with an aggregate of **63.3%** from Andhra University, Visakhapatnam, India.

## **DETAILS OF STUDIES DURING Ph.D., M.E (Machine Design) & B.E (Mechanical)**

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- **Specialization in Ph.D.:** - Design  
**Title of Dissertation in Ph.D.:** - Material Selection and Experimental Investigation of Titanium Alloy for Bio-Medical
- **Specialization in M.E:** - Machine Design  
**Title of Dissertation in M.E:** - Design Analysis of Rolling Contact Bearings

- **Specialization in B.E:** - Mechanical Engineering

**Title of Dissertation in B.E:** - Buckling analysis of Thin Cylindrical Shells with and without Cutouts.

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## **MEMBERSHIP**

- The Indian Society for Technical Education (ISTE) (LM 139819)
- The Institution of Engineers (India) (AM 165973-4)
- International Associations of Engineers (IAENG) (LM 219598)
- The institution of Research Engineering and Doctors (IRED) (AM 101000582581)

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## **REVIEWER**

- Proceedings of the Institution of Mechanical Engineers: Part B- Journal of Engineering Manufacture.
- Asian Journal of Probability and Statistics (AJPS).
- International Journal of Engineering Research & Technology (IJERT).
- Journal of Emerging Technologies and Innovative Research (JETIR).

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## **PROFESSIONAL TRAINING'S ATTENDED/RECEIVED**

- Participation and completion of Faculty Orientation Program conducted by Wadhvani Foundation on 21st century Employability Skills Course. December 26,2023.
- Completed NPTEL Online Certificate Course on Introduction to Composites. Jan-Apr 2019.

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## **BOOK PUBLICATION**

1. Modelling And Simulation of Double Girder Gantry Crane  
Publication date: Feb.2024  
Publisher: Notion Press Publishing
2. Case Study: Water Supply System of Sontyam Village  
Publication date: Feb.2024  
Publisher: Notion Press Publishing

3. Theory Of Machines-I: Kinematics of Machinery  
Publication date: Feb.2019  
Publisher: LAP LAMBERT Academic Publishing

## **PATENT PUBLICATION**

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1. "A Novel Model for Prediction of Patient Specific Dental Implantation Design Parameters" by M. Amareswari Reddy, K. Venkata Subbaiah, Challa Suresh. **INDIAN PATENT** Publication Date: 16/09/2022 (Assistant professor, Bullayya college of Engineering).
2. "A Learning System for Manufacturing Process Optimization Using Restricted Boltzmann Machines and Multi-Objective Evolutionary Model" by M. Amareswari Reddy, K. Venkata Subbaiah, Challa Suresh. **INDIAN PATENT** Publication Date: 04/02/2022 (Assistant professor, Bullayya college of Engineering).

## **PUBLICATIONS IN JOURNALS**

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1. "Box-Behnken Design: Optimization and Prediction of Ti-6Al-7Nb" by M. Amareswari Reddy, K. Venkata Subbaiah, Challa Suresh. Journal of Algebraic Statistics Volume 13, No.3, 2022, P. 2464-2475, ISSN: 1309-3452.
2. "The Selection of Clinical Orthodontic Implant Materials by Entropy Weight Methods through Hybrid Multi criteria Decision making Techniques" by M. Amareswari Reddy, K. Venkata Subbaiah, Challa Suresh. International Journal of Mechanical Engineering, ISSN: 0974-5823 Vol. 7 No. 1, 2022.
3. "A review on performance parameter optimization techniques on wire cut electrical discharging machining for various process parameters" by M. Amareswari Reddy and K. Venkata Subbaiah. Strad Research, Volume 8, Issue 8, 2021, ISSN: 0039-2049,
4. "GIS Based Flood Hazard Mapping: A Case Study Of Tandava River Basin, Andhra Pradesh". by S.Anita, Prof. Vazeer Mahmood, Er .Arunima Mahapatra, M. Amareswari Reddy. The International journal of analytical and experimental modal analysis Volume XIII, Issue V, 2021, ISSN NO:0886-9367.
5. "Effect of rubber particulate inclusion on the mechanical properties of epoxy Fiber Reinforced Composite (FRC) plates" by T. Hima Bindhu, M. Amareswari Reddy, M.N.V.Krishna Veni,

- D.Srinivasa Rao, International Journal of Scientific Research and Review Volume 8, Issue 8, 2019.
6. "Effect of rubber particulate inclusion on the mechanical properties of epoxy Fiber Reinforced Composite (FRC) plates and Regression analysis by T. Hima Bindhu, M. Amareswari Reddy, M.N.V.Krishna Veni, D.Srinivasa Rao4 JETIR ,2019, Volume 6, Issue 6.
  7. "DESIGN ANALYSIS OF ROLLING CONTACT BEARINGS" by M. Amareswari Reddy, T. Hima Bindu, M.N.V.Krishna Veni, D. Srinivasa Rao JETIR,2019, Volume 6, Issue 6
  8. "Optimization of a Simple Aircraft Wing by Weight Minimization using ANSYS" by D. Srinivasa Rao, K. Venkatesh, M.N.V. Krishna Veni, M. Amareswari Reddy. Journal of Industrial Mechanics Start. 2019 Volume 4 Issue 2
  9. Determination of Life Cycle and Torsional Vibrational Stress for Marine Propeller Shaft" by D. Srinivasa Rao, M. Amareswari Reddy, M.N.V Krishna Veni, M Rama Krishna, Department of Mechanical Engineering, Anits, Sangivalasa, Visakhapatnam. Advancement of Mechanical Engineering and Technology Volume 2 Issue 1. HBRP Publication Page 21-30, 2019.
  10. "Stress Analysis on Cylinder Head of Four Stroke Variable Compression Ratio Diesel Engine" by D.Srinivasa Rao, M.Amareswari Reddy, M.N.V Krishna Veni, Chandra Sekhar, M.Rama Krishna, K.Satyanarayana. Department of Mechanical Engineering, Anits, Sangivalasa, Visakhapatnam. HBRP Publication Page 14-26, 2019, Research and Reviews on Experimental and Applied Mechanics Volume 2 Issue 1.
  11. "Design and Analysis of Two-Stage Air Compressor" by D. Srinivasa Rao, M Rama Krishna , M.N.V Krishna Veni, M. Amareswari Reddy, Department of Mechanical Engineering, Anits, Sangivalasa, Visakhapatnam. HBRP Publication Page 06-13, 2019, Recent Trends in Automation and Automobile Engineering Volume 2 Issue 1.
  12. "Vibration Analysis Of Semi Active Suspension System For An Auto Rickshaw By Using Matlab/Simulink" by P.Srinivasa Rao, M. Amareswari Reddy, Assistant Professor, Department Of Mechanical Engineering, Anits Engineering College, Visakhapatnam, Andhra Pradesh, INDIA.Volume-2, Issue-6, July-August 2017 International Journal Of Engineering Applied and technology, ISSN No. 2455-2143, Page Number: 44-50
  13. "A Parametric Study On Outer Layer Of Helmet Using Abaqus" by M.N.V.Krishna Veni, G.Sitaram, M. Amareswari Reddy, Volume-7, Issue-5, September-October 2017, International Journal Of Engineering And Management Research Page Number: 9-13

14. "Fabrication Of Prototype For Power Generation At Speed Breakers Using Rack And Pinion Mechanism" by M.Amareswari Reddy, M.N.V Krishnaveni, D.Srinivasa Rao, V.V.Narayana Reddy Assistant Professor, Department Of Mechanical Engineering, Anits Engineering College, Visakhapatnam, Andhra Pradesh, INDIA. Volume-7, Issue-4, July-August 2017, International Journal Of Engineering And Management Research. Page Number: 128-133.
15. "Modelling And Analysis Of Double Girder Gantry Crane" by M. Amareswari Reddy, M.N.V Krishna veni, Assistant Professor, Department Of Mechanical Engineering, Anits Engineering College, Visakhapatnam, Andhra Pradesh, INDIA. Volume-6, Issue-4, July-August 2016 International Journal Of Engineering And Management Research Page Number: 181-184.
16. "Conceptual Design Of Bicycle Frame" By M.N.V Krishna veni, M. Amareswari Reddy, Assistant Professor, Department Of Mechanical Engineering, Anits Engineering College, Visakhapatnam, Andhra Pradesh, INDIA. Volume 38 Number 2- August 2016. International Journal Of Engineering Trends And Technology ISSN: 2231-5381 Page 64.
17. "Finite Element Modeling Of TIG Welding For 316L Stainless Steel Plate Using Sysweld" by V.V. Narayana reddy, D. Srinivasa Rao, M. N. V. Krishnaveni, M. Amareswari Reddy, Assistant Professor, Department Of Mechanical Engineering, Anits Engineering College, Visakhapatnam, Andhra Pradesh, INDIA. Volume-5, Issue-2, April-2015 International Journal Of Engineering And Management Research. Page Number: 390-39.
18. "Static Analysis Of Crane Hook With I- Section And T- Section Using Ansys" by M. Amareswari Reddy, M.N.V Krishnaveni<sup>2</sup>, Assistant Professor, Department Of Mechanical Engineering, Anits Engineering College, Visakhapatnam, Andhra Pradesh, INDIA. Volume 26, Number 2, August 2015. International Journal Of Engineering Trends And Technology, ISSN: 2231-5381 <http://www.ijettjournal.org> Page 72.
19. "Static Analysis Of Crane Hook With T-Section Using Ansys "by M.N.V Krishnaveni, M. Amareswari Reddy, Assistant Professor, Department Of Mechanical Engineering, Anits Engineering College, Visakhapatnam, Andhra Pradesh, INDIA. Volume 25, Number 1, July 2015, International Journal of Engineering Trends And Technology (IJETT) – ISSN: 2231-5381.
20. "Static Analysis Of Crane Hook With I-Section Using Ansys" by M.N.V Krishnaveni, M. Amareswari Reddy, Assistant Professor, Department Of Mechanical Engineering, Anits Engineering College, Visakhapatnam, Andhra Pradesh, INDIA. Volume-5, Issue-3, June-2015 International Journal Of Engineering And Management Research Page Number: 679-684 .

21. "Effect Of Nano Rubber Additions On Wear And Mechanical Properties Of Epoxy Glass Fiber Composites" by Srinivasa rao D, Amareswari Reddy. M, Krishna Veni. M.N.V, Sandeep Kumar Mahanti, Mechanical Engineering Department, ANITS, Visakhapatnam, India, Volume 1, Issue 4, May-June, 2014 International Journal Of Emerging Technology & Research ISSN (E): 2347-5900 ISSN (P): 2347-6079.

## **FDPs ORGANIZED**

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1. One Week Online FDP on "Innovation and Advanced Learning in Civil Engineering" [Role: Member]. (Date: 17<sup>th</sup> July 2023 to 22<sup>nd</sup> July 2023).
2. Organized a Five-day Faculty Development Program on "Education 4.0- Digital teaching & Learning" [Role: Co-Convenor]. (Date: 31st to 4th Sep 2020).
3. Organized a Five-day Faculty Development Program on "Recent Trends & Innovations In Civil Engineering" [Role: Coordinator]. (Date: 27th to 31st July 2020).

## **FDP's PARTICIPATED**

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1. Participated webinar on "AI/ML Tools for Advanced Materials, Manufacturing and Thermal Systems (ATAMMTS-2024)", from 24<sup>th</sup> to 28<sup>th</sup> June 2024.
2. Participated webinar on " Innovation and advanced learning in civil engineering" from 17<sup>th</sup> to 22<sup>th</sup> July 2023.
3. Participated in National Level webinar on NAAC- Criteria III "Research, Innovations & Extensions" organized by MES College, Erumely on 30th Dec 2020
4. Participated in NAAC- Criteria IV "Infra structure and learning resources" organized by MES College, ERUMELY on 31st Dec 2020
5. Participated in Five Day Faculty Development Programme on "Education 4.0- Digital teaching & Learning" organized by Dr Lankapalli Bullayya College of Engineering from 31st-4th Sep 2020.
6. Participated in Five Day Faculty Development Programme on "Recent Trends & Innovations In Civil Engineering" organized by Dr Lankapalli Bullayya College of Engineering from 27th - 31st July 2020.
7. Participated in one week Webinar on "Faculty development Program" organized by Saraswathi Institution of technology on 1st june to 5th June 2020

8. Participated in online quiz competition on “National service scheme unit” organized by Bangabasi morning college 5th June-15th June 2020.
9. Participated in Webinar on “Additive Manufacturing 3D printing” organized by Dept. of Mechanical Francis Xavier Engineering College, Tirunelveli on 3rd June 2020
10. Participated in Webinar on “Structural Analysis Using Ansys” organized by Dept. of Civil Arasu Engineering College, Kumbakonam on 5th June 2020
11. Participated in National Level quiz competition on “Hydraulics and Hydraulic Machines ” organized by Dept. of Civil K L Deemed University.
12. Participated in Webinar on “Research Skill –Key to Success” organized by Dept. of Mechanical Francis Xavier Engineering College, Tirunelveli on 13th June 2020
13. Participated in Webinar on “Material Characterization and Unconventional Machining of Duplex Brass” organized by Dept. of Mechanical Francis Xavier Engineering College, Tirunelveli on 18th June 2020
14. Participated in Webinar on “Advanced Material Processing” organized by Dept. of Mech., Naresaropeta, Engineering College, on 4th June 2020
15. Participated in Webinar on quiz competition on “Green technology for sustainability” organized by St. Xavier’s Catholic Engineering College, on 13th July 2020
16. Participated in National Level quiz competition on “Fluid Mechanics” organized by Dept. of Civil K L Deemed University
17. Participated in Webinar on “Machining of Titanium Alloy Using Various Technologies” organized by Dept. of Mechanical Francis Xavier Engineering College, Tirunelveli on 13th June 2020
18. Participated in 3 Day Program on “Advanced Material Characterization Techniques” organized by Dept. of Mechanical Lendi Engineering College, from 28th to 30th May 2020.
19. Participated in Webinar on 5 Day Program on “ Multi Objective Optimization for Mechanical Engineering Applications” organized by Dept. of Mechanical, QIS Engineering College, Ongole from 08th to 12th June 2020.
20. Participated in a One week Online Faculty Development Program on “Moodle Learning Management System” Organized by JNTUH College of Engineering, Sultanpur from 10th-15th June 2020.
21. Participated in Webinar on “Patent Filing, Publications and Commercialization” organized by Dept. of Mechanical Francis Xavier Engineering College, Tirunelveli on 2nd June 2020



22. Participated in National Level quiz competition on "COVID 19 " organized by Dr.N.G.P Institution of technology, coiminator. On 11th June 2020
23. Attended a Workshop on "Creating Virtual Class room using Google tools" organized by Formlelo , New Delhi on 6th June 2020.
24. Attended a Two-Day Workshop on "Teaching & Training with Google classroom" organized by Dr Lankapalli Bullayya College of Engineering from 22nd to 23rd May 2020
25. Participated in Faculty Awareness Program on "Research Methodology" organized by Shri Chhtrapati Shivajiraje College of Engineering, Pune from 20th-25th May 2020.
26. Participated in Webinar on "Introduction to Design of Experiments" organized by Dept. of Mechanical, Arasu Engineering College, Kumbakonam on 27thMay 2020
27. Participated in a Three-Day Faculty Development Program on "Outcome Based Education System" organized by Lendi Institute of Engineering and Technology, JNTU Kakinada from 21st-23rd May 2020.
28. Participated in Webinar on "Research paper" organized by Matterhere on 14th June 2020
29. Participated in Webinar on "A to Z of Optimization techniques for Engineering Applications" organized by PIRC on 11th June 2020.
30. Participated in Webinar on "Processing Of Light Metal Alloy And Characterization" organized by RaghuCollege of Engineering on 3rd July 2020
31. Participated in Webinar on "Guidelines for writing and publication a technique paper in reputed journals" organized by PIRC on 13th June 2020.
32. Participated in 5 days Webinar on "Research Methodologies, Tools and techniques" organized by EEE, QIS College of Engineering on 8th to 12th June 2020.