

CURRICULUM VITAE

Dr. ANAND C. MATTIKALLI

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1. PROFESSIONAL SUMMARY

Doctorate-qualified Mechanical Engineering faculty with **25 years of experience** in teaching, academic administration, research, and curriculum development. Expertise in Design Engineering, Finite Element Analysis, Composite Structures, Vibration Analysis, and Mechanical Systems. Experienced Head of Department with a strong record of research publications, conference presentations, funded project guidance, and quality assurance activities (NBA/NAAC). Passionate about mentoring students, enhancing pedagogy, and contributing to institutional growth.

2. ACADEMIC & INDUSTRIAL EXPERIENCE

Maratha Mandal Engineering College, Belagavi

Associate Professor, Department of Mechanical Engineering

2001 – Present (25 years)

- Administration and academic leadership for Mechanical Engineering Department.
- Coordinator for PG programs, research centre, departmental activities, and accreditation processes.
- Guided PG projects, KSCST projects, student research papers, and industrial collaborations.
- Organized seminars, workshops, and handled laboratory development.

Kalyani Carpenter Special Steels Ltd., Pune

Maintenance Officer

1 year

- Maintenance planning & industrial engineering operations.
 - Hands-on experience with plant machinery and operational safety.
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3. EDUCATIONAL QUALIFICATION

Ph.D. in Mechanical Engineering

Visvesvaraya Technological University (VTU), Belagavi, BEC Bagalkote

Thesis: Investigation of Static and Dynamic Characteristics of Annular Plate by Numerical Approach

M.Tech in Design Engineering – 83.65%

VTU Belagavi, KLE College of Engineering, Belagavi

Secured First Rank with Gold Medal

B.E. in Industrial Production – 83.57%

Karnataka University, Dharwad, Gogte Institute of Technology, Belagavi

4. KEY ACHIEVEMENTS

- **Gold Medalist** in M.Tech (Design Engineering), VTU.
- **2nd Rank** in 4th & 8th Semesters of B.E.
- Published **33+ research papers** in reputed international journals/conferences, including Elsevier (Materials Today Proceedings).
- Presented papers in **national & international conferences** including NITK Surathkal, ICMPC, and ICRAMM
- Guided **18 PG Projects** and **2 KSCST-sponsored projects**.

5. ADMINISTRATIVE RESPONSIBILITIES

- Head of Department (Mechanical Engineering)
- Academic coordinator
- PG Coordinator
- Research Centre Coordinator
- MESSA Coordinator
- Project & Seminar Coordinator
- NBA & NAAC Accreditation Coordinator
- Result Analysis Coordinator
- Internal Assessment Test Coordinator
- Design Laboratory In-charge

6. PROFESSIONAL MEMBERSHIPS

- **LMISTE** – Life Member, Indian Society for Technical Education
- **ASME** – Member, American Society of Mechanical Engineers

7. RESEARCH PUBLICATIONS & PRESENTATIONS

1. Presented paper “A free vibration analysis of Annular Plate” in National conference on “Sustainability and social comfort-strategizing Design and Manufacturing” held at VNRVJIT, Hyderabad, Andra Pradesh on 19th -20th Jan, 2009.

2. A Presented paper titled “Angled bar power transmission system” in National Conference on Exhibited Models of Project Innovation and Research in Engineering held at Sanjay Bhokare Group of Institutes, Faculty of Engineering, and Management Miraj on 15th to 16th March 2014

3. Published paper titled “Gearless Power Transmission-Offset Parallel Shaft Coupling”, International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181 Vol. 3 Issue 3, March – 2014

4. Published paper titled “Gearless Power Transmission- L Pin Coupling” in International Journal of Ethics in Engineering & Management Education ISSN: 2348-4748, Volume 1, Issue 5 2, May 2014

5. Published paper titled “Analysis and structural optimization of 5 ton H-frame hydraulic press” in International journal of Innovative Science, Engineering and technology. ISSN 2348-7968, Volume 1, Issue 5, July 2014.

6. Published paper titled “The effect of force parameter on Profile ring rolling process”, International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181 Vol. 4, Issue 5, May – 2015

7. Published paper titled “Design and Analysis of Flange coupling”, International Journal of Engineering Research & Applications (IJERA) ISSN: 2248-9622 Vol. 5, Issue 7, July – 2015

8. Published paper titled “Non linear simulation of Engine Bracket under Dynamic load”, International Journal of Advance Research in Science and Engineering (IJARSE) ISSN: 2319-8354 Vol. 4, Issue 8, August – 2015

9. Published paper titled “Experimental study of Mechanical properties of Glass and Carbon fibers”, International Journal for Scientific Research and Development (IJSRD) ISSN[online]: 23210613 Vol. 3, Issue 6, August – 2015

10. Published paper titled “An Overview of Strength Improvement of a Bus Body Structure with Design Modifications”, International Journal of engineering and technology (IJRET) ISSN:2395-0056, Vol.03, Issue 10, Oct – 2016

11. Published paper titled “Finite element analysis of engine mounting bracket ”, International Journal of engineering and technology (IJRET) e-ISSN:2395-0056, p-ISSN:2395-0072, Vol.05, Issue 10, May – 2016

12. Published paper titled “Design and analysis of engine and chassis mounting bracket”, International journal of recent trends in engineering and research, volume 2, issue 10, ISSN:2455-1457, Oct-2016.

13. Published paper titled “Design and analysis of single stage helical gear box casing”, International journal of recent trends in engineering and research, volume 2, issue 10, ISSN:2455-1457,Oct-2016.

14. Published paper titled “Design And FE Analysis Of Composite Grid Structure For Skin Stiffening Applications”, International Research Journal of engineering and technology (IRJET) e-ISSN:2395-0056, p-ISSN:2395-0072,Vol.04, Issue 07, Aug – 2017

15. Published paper titled “Optimization of tile cutter blade using FEA”, International Journal of Research engineering and technology (IJRET) e-ISSN:2395-0056, p-ISSN:2395-0072,Vol.04, Issue 10, Oct – 2017.

16. Published paper titled “Failure analysis of expansion joints (bellows)”, International Research Journal of engineering and technology (IRJET) e-ISSN:2395-0056, p-ISSN:2395-0072,Vol.04, Issue 07, Sep – 2017

17. Published paper titled “Analysis Of Annular Plate By Using Numerical Method”, IJSET - International Journal of Innovative Science, Engineering & Technology, ISSN (Online) 2348 – 7968 Vol. 5 Issue 1, January 2018

18. Presented paper titled ” Finite Element Analysis Of Free Vibration Of An Annular Plate” in International Conference on Design, Materials & Manufacture (IcDeM 2018) at National Institute Of Technology Karnataka, Surathkal Mangalore DK-575025, Karnataka January 29-31, 2018

19. Published paper titled “Design And Analysis Of Two Wheeler Connecting Rod Using 3 Different Materials”, International journal of recent trends in engineering and research, volume 4, issue 4, ISSN:2455-1457, Apr-2018.

20. Published paper titled “Modal And Harmonic Response Analysis Of Two Wheeler Connecting Rod Using 3 Different Materials”, International journal of recent trends in engineering and research, volume 4, issue 4, ISSN:2455-1457, Apr-2018.

21. Presented paper titled ” Finite Element Based Investigation Of Aluminum Annular Plate For Static And Dynamic Behaviour” in 9th International Conference on Materials Manufacturing and characterization (ICMPC 2019) at Gokaraju Rangaraju Institute Of Engineering and Technology Hyderabad, March 08-10, 2019

22. Presented paper titled ” Numerical Method Based Parametric Investigation Of Isotropic Annular Plate” 2019 First International Conference on Recent Advances in Materials and Manufacturing (ICRAMM 2019) at KLE Dr. M.S. Sheshgiri College of Engineering & Technology, Belagavi, 12 - 14, September 2019

23. Published paper titled “Finite Element Based Investigation of Aluminum Annular Plate for Static and Dynamic Behaviour” published in the Elsevier’s Materials Today: Proceedings, 18 (2019) 3435–3444

24. Published paper titled “Numerical Method Based Parametric Investigation of Isotropic Annular Plate”, published in the Elsevier’s Materials Today: Proceedings 27 (2020) 376–381

25. Published paper titled “Design and Analysis of Composite Top Frame of Hydraulic Valve Test Bench”, International Research Journal of engineering and technology (IRJET) e-ISSN:2395-0056, p-ISSN:2395-0072, Volume: 06 Issue: 06 | June 2019.

26. Published paper titled “Devastation Tolerance Design of the Wing Spar of a Transport Aircraft”, International Journal of Advance Research and Innovative Ideas in Education, Paper Id: 13614, Volume-7 Issue-1 2021

27. Published paper titled “Skin Instabilities in Honeycomb Structures of an Aircraft Wing”, International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056, p-ISSN: 2395-0072, Volume: 08 Issue: 08 | Aug 2021.

28. High Cycle Fatigue Life Estimation of Automotive Chassis Under the Dynamic Loading Condition, International Research Journal of Engineering and Technology (IRJET), Volume: 10 Issue: 03 | Aug 2023, e-ISSN: 2395-0056, p-ISSN: 2395-0072

29. Engine bracket structural and fatigue analysis, International Journal of Research in Aeronautical and Mechanical Engineering, VOL 11 ISSUE 8 AUGUST 2023, ISSN: 2321-3051

30. Strength Analysis of Pressure Vessel by Using Finite Element Approach under the Pressure Loading Condition, International Research Journal of Engineering and Technology (IRJET), Volume: 10 Issue: 09 | Sep 2023, e-ISSN: 2395-0056, p-ISSN: 2395-0072

31. Static structural and dynamic analysis of cracks in composite materials, International Research Journal of Engineering and Technology (IRJET), Volume: 10 Issue: 11 | Nov 2023, e-ISSN: 2395-0056, p-ISSN: 2395-0072

32. Innovation and Design Thinking: A Comprehensive Study, National conference on Pedagogy for Emerging Technologies and Innovation Design Thinking, Maratha Mandal’s Engineering college, Belagavi, 28th-29th March 2025

33. Enhancing Teaching and Learning through Online Assessment Tools, National conference on Pedagogy for Emerging Technologies and Innovation Design Thinking, Maratha Mandal’s Engineering college, Belagavi, 28th-29th March 2025

CONFERENCES/TRAINING PROGRAM/WORKSHOP ATTENDED:

- National conference on Pedagogy for Emerging Technologies and Innovation Design Thinking, Maratha Mandal’s Engineering college, Belagavi, 28th-29th March 2025
- FDP on "Generative AI" conducted by ARKA Jain University Jharkhand, from 24-06-2025 to 28-06-2025

- One week Faculty development program on “A Era of Manufacturing- Challenges and Opportunities”, D Y Patil College of Engineering and Technology, Kolhapur, 25th July 2022 to 30 July 2022.
- 2019 First International Conference on Recent Advances in Materials and Manufacturing (ICRAMM 2019) at KLE Dr. M.S. Sheshgiri College of Engineering & Technology, Belagavi, 12 - 14, September 2019
- ICT Academy Bridge 2019-Bengaluru, Largest Industry Institute interaction program in Asia on 24th Sep 2019
- 9th International Conference on Materials Manufacturing and characterization (ICMPC 2019) at Gokaraju Rangaraju Institute Of Engineering and Technology Hyderabad, March 08-10, 2019
- International Conference on Design, Materials & Manufacture (IcDeM 2018) at National Institute Of Technology Karnataka, Surathkal Mangalore DK-575025, Karnataka January 29-31, 2018
- National conference on “Sustanibility and social comfort-strategizing Design and Manufacturing” held at VNRVJIT, Hyderabad, Andra Pradesh on 19th -20th Jan, 2009.
- Workshop on Advanced materials and nanotechnology for research and engineering conducted at SCET, Belagavi from 4th - 7th June 2015
- Workshop on “Composites and their applications” conducted on 14th -15th March 2014 at Basaveshwara Engineering college, Bagalkot
- Participated in the “High Impact Teaching Skill” Training program conducted by Mission10x, Wipro from 18th -22nd Jan 2010
- Undergone 2 months Industrial training at OTPL, Belgaum

9. PROJECT GUIDANCE

- **PG Projects Guided:** 18
- **UG Projects Guided:** 35
- **KSCST Sponsored Projects:** 02

10. TECHNICAL & SOFTWARE SKILLS

CAD / Modeling

- Pro-E
- AutoCAD

Simulation & Analysis

- ANSYS
- MATLAB

CAM

- Capsturn
- Capsmill

Programming & Tools

- C
- Visual FoxPro
- MS Office Suite

Operating Systems

- Windows (98/XP/2000/7/10)
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11. AREAS OF RESEARCH INTEREST

- Finite Element Analysis (FEA)
 - Composite Materials
 - Vibration & Dynamic Analysis
 - Design Optimization
 - Mechanical Systems & Machine Components
 - Structural Fatigue & Failure Analysis
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12. PERSONAL DETAILS

- **Name:** Dr. Anand C. Mattikalli
 - **Date of Birth:** 03 January 1977
 - **Gender:** Male
 - **Nationality:** Indian
 - **Marital Status:** Married
 - **Languages Known:** English, Hindi, Kannada, Marathi
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13. DECLARATION

I hereby declare that all information provided is true and correct to the best of my knowledge.

Place: Belagavi

(Dr. Anand C. Mattikalli)