

**Dr. Anand S. Reddy**

**M.Tech. Ph.D.**

**Mechanical Engineering**

**20 Years of Teaching and Research Experience**

**reddyanan@gmail.com**

**8762803579**



<b>1.1. Educational Qualification</b>					
<b>S.No.</b>	<b>Degree</b>	<b>University / College</b>	<b>Discipline</b>	<b>Year of Passing</b>	<b>Class obtained</b>
1.	Ph.D.	MNNIT, Allahabad, UP	Magnetic Bearings	2016	---
2.	M.Tech.	VTU, Belagavi	Machine Design	2007	FCD
3.	B.E.	Karnataka University Dharwad	Mechanical Engineering	2001	FCD
<b>1.2 Employment Information</b>					
1.	Job title	Professor			
	Employer	K.L.E. Institute of Technology, Hubballi, Karnataka.			
	Dates (from – to)	1/1/2019 to Till date			
	Responsibilities	Teaching- Learning, VTU recognized research supervisor, Principle investigator for VGST, Bengaluru funded project, Department NBA coordinator and project coordinator.			
2.	Job title	Associate Professor			
	Employer	K.L.E. Institute of Technology, Hubballi, Karnataka.			
	Dates (from – to)	22/8/2016 to 31/12/2018			
	Responsibilities	Teaching- Learning, VTU recognised research supervisor, Principle investigator for VGST, Bengaluru funded project, Department NBA coordinator.			
3.	Job title	Associate Professor			
	Employer	Hirasugar Institute of Technology, Nidasoshi, Belagavi.			
	Dates (from – to)	1/1/2015 to 20/8/2016			
	Responsibilities	Teaching- Learning for undergraduate and post graduate students, Head for the VTU recognised research center of Mechanical Engg. Dept., Department NBA coordinator.			
4.	Job title	Assistant Professor			
	Employer	Hirasugar Institute of Technology, Nidasoshi, Belagavi.			
	Dates (from – to)	1/2/2014 to 31/12/2014			
	Responsibilities	Teaching- Learning, Department NBA coordinator.			
5.	Job title	MHRD funded institute research scholar			
	Employer	Motilal Nehru National Institute of Technology, Allahabad			
	Dates (from – to)	22/7/2010 to 31/1/2014			
	Responsibilities	Research and development activities and 8 Hrs. per week Teaching Learning for undergraduate students.			

6.	Job title	Senior Lecturer
	Employer	Hirasugar Institute of Technology, Nidasoshi, Belagavi, Karnataka
	Dates (from – to)	1/10/2007 to 31/1/2014
	Responsibilities	Teaching- Learning, Department seminar and project coordinator
7.	Job title	Post graduate research scholar
	Employer	National Aerospace Laboratories (NAL) Bengaluru
	Dates (from – to)	1/8/2006 to 30/9/2007
	Responsibilities	Research and development activities at Advanced Composite Division (ACD) of NAL, Kodihalli Division, Bengaluru.
8.	Job title	Lecturer
	Employer	Hirasugar Institute of Technology, Nidasoshi, Belagavi, Karnataka
	Dates (from – to)	21/10/2003 to 30/7/2006
	Responsibilities	Teaching Learning for undergraduate students.
<b>1.3</b>	<b>Funded Projects</b>	
1.	VGST, Bengaluru funded project entitled “ Design Development and Performance Evaluation of Magnetically Suspended Miniaturized Wind Turbines Arranged in a Tree Structure” GRD No. KSTePS/VGST/RGS/F/GRD-724/88/2018-19. Amount: Rs. 5.75 L, Status: Completed	
2.	Catalyse Tech-Innovation Challenge 2022-23, GCoE-ACE IIT Dharwad funded project entitled “ Wind-Solar Tree: A Hybrid Renewable Energy System for Rural Electrification” Amount: Rs. 75000, Status: Ongoing	
3.	Worked for the “Weight reduction program of SARAS Aircraft” at Advanced Composite Division of National Aerospace Laboratories (NAL) Bengaluru from August 2006 to November, 2007 as a part of my M.Tech. Thesis entitled “Design and Analysis of an IsoTruss IsoGrid Aircraft Structure”.	
<b>1.4</b>	<b>Technical Papers Published</b>	
	<b>International Journals:</b> <ol style="list-style-type: none"> <li>1. Rajkumar D. Patil and <b>Anand S. Reddy</b> (2024). Manufacturing and Testing of PolymerMatrix Composites (PMCs): A Review, <i>Journal of Advancements in Material Engineering</i>, 9(1), 8-15.</li> <li>2. <b>Reddy, A. S.</b>, Agarwal, P. K., &amp; Chand S., An adaptive multipopulation genetic algorithm for the optimization of active magnetic bearings, IOP Conf. Series: Materials Science and Engineering, Vol. 691 (2019) 012009. doi:10.1088/1757-899X/691/1/012009.</li> <li>3. <b>Reddy, A. S.</b>, Agarwal, P. K., &amp; Chand S., Application of artificial neural networks for the fault detection and diagnosis of active magnetic bearings, Int. J. Mechatronics and Automation, Vol. 6, Nos. 2/3, 2018.</li> <li>4. <b>Reddy, A. S.</b>, Agarwal, P. K., &amp; Chand S., Application of principal component analysis for the fault detection and diagnosis of active magnetic bearing, Int. J. Advanced Mechatronic Systems, Vol. 7, No. 4, 2017. <a href="https://doi.org/10.1504/IJAMECHS.2017.10010733">https://doi.org/10.1504/IJAMECHS.2017.10010733</a></li> <li>5. <b>Reddy, A. S.</b>, Agarwal, P. K., &amp; Chand S., Adaptive multipopulation genetic algorithm based self designed fuzzy logic controller for active magnetic bearing</li> </ol>	

application, Int. J. Dynam. Control (2017).

5. Halli S. K., Meti N. G., Hittalamani S. J., Dandinavar M. M., **Reddy A. S.**, Design and Development of Low Friction More Efficient Magnetically Levitated Wind Turbines, International Journal of Current Engineering and Technology, Vol. 7, No. 3, pp. 907-914, 2017. (E-ISSN: 2277-4106)
6. Mathapati V. M., Mugali A. B. Umarani V. S., Chougula S. K., **Reddy A. S.**, "State-of-the-art light weight bio-composite helmets for children", International Journal of Innovations in Engineering Research and Technology, pp. 1-4, 2016. (ISSN: 2394-3696)
7. Patil R. M., Hatrote S. M., Pharale A. K., Patil V. S., Chiniwalar G. V., **Reddy A. S.**, Fabrication and Testing of composite Leaf Spring for Light Passenger Vehicle, International Journal of Current Engineering and Technology, Issue 3, pp. 67-72, 2014. (E-ISSN: 2277-4106).

#### **International Conferences:**

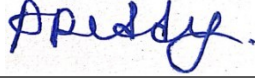
1. **Reddy A. S.**, Prasad M., Bagalkot H., Naik M., Bhat V. Rathod K., " Design and Development of Wind-Solar Tree: A Hybrid Renewable Energy System for Domestic Applications" Proc. of IEEE North Karnataka Subsection Flagship International Conference (NKCon), 2022.
2. **Reddy A. S.**, Agarwal P. K., Chand S., "An adaptive multipopulation genetic algorithm for the optimization of active magnetic bearings", Proc. of 2nd International Conference on Computational & Experimental Methods in Mechanical Engineering (ICCEMME 2019), G.L. Bajaj Institute of Technology & Management, Greater Noida, 3-5 May, 2019.
3. **Reddy A. S.**, Agarwal P. K., Chand S., "Genetic Algorithm Based Optimal Design of Fuzzy Logic Controller for Active Magnetic", Proc. of IEEE International Conference on Power, Control and Embedded Systems, MNNIT Allahabad, India., December 26-28, 2014. (ISBN: 978-1-4799-5912-9/14)
4. Patil R. M., Hatrote S. M., Pharale A. K., Patil V. S., Chiniwalar G. V., **Reddy A. S.**, Fabrication and Experimental Investigation of Composite Leaf Spring, Proc. of International Conference on Design, Manufacturing and Mechatronics (ICDMM-2014), Trinity College of Engineering and Research, Pune, Maharashtra, India, January 9-10, 2014.
5. Waseem M., **Reddy A. S.**, Agarwal P. K., Principal component analysis based fault detection and diagnosis of active magnetic bearings, Proc. of International Conference on Advances in Mechanical Engineering (ICAME-2013), College of Engineering, Pune, Maharashtra, India, May 29-31, 2013.
6. **Reddy A. S.**, Agarwal P. K., Chand S., Multiobjective optimization of active magnetic bearing using multipopulation genetic algorithm, Proc. of IEEE International Conference on Research and Development Prospects on Engineering and Technology (ICRDPET-2013), E. G. S. Pillay Engineering College,

	<p>Nagapattinam, Tamilnadu, India, March 29-30, 2013. (ISBN: 978-1-4673-4948-2)</p> <p>7. <b>Reddy A. S.</b>, Agarwal P. K., Chand S., Optimization of active magnetic bearing using multipopulation genetic algorithm, Proc. of International Conference on Innovations in Automation and Mechatronics Engineering (ICIAME-2013), G. H. Patel College of Engineering &amp; Technology, Gujarat, India, February 21-23, 2013. (ISBN: 978-81-924744-0-3)</p> <p>8. <b>Reddy A. S.</b>, Agarwal P. K., Chand S., Design of compact active magnetic bearing with higher load carrying capacity, Proc. of IEEE Students Conference on Engineering and Systems, MNNIT Allahabad, India, March 16-18, 2012. (ISBN: 978-1-4673-0455-9/12)</p> <p><b>National Conferences:</b></p> <p>1. Halli S. K., Meti N. G., Hittalamani S. J., Dandinavar M. M., <b>Reddy A. S.</b>, Design and development of magnetically levitated vertical axis windmill, Proc. of the 3rd National Conference on Innovations in Mechanical Engineering (NCIME-2015), Sinhgad Institute of Technology, Lonavala, Maharashtra, January 09-10, 2015.</p> <p>2. <b>Reddy A. S.</b>, Dayananda G. N., Math V. B., Design and Analysis of an IsoTruss Isogrid Aircraft Structure, National Seminar on Current Trends and Applications in Mechanical Engineering held at BLDEA's Vachana Pitamaha Dr. P G Halakatti College of Engg and Tech. Bijapur, Sept. 21-23, 2009.</p>
<b>1.5</b>	<b>Professional Services</b>
	<p>1. Delivered <b>technical talks</b> on Electric Vehicles- A Hands on during KSTA Sponsored FDP on the Present Scenario and Challenges of All Electric Vehicles in India” held on 25th and 26th Aug. 2023 at SECAB Institute of Engineering and Technology, Vijayapura, KARNATAKA, INDIA.</p> <p>2. Delivered a <b>technical talks</b> on Research Optimization Techniques using Fuzzy Logic in AICTE ATAL Academy Sponsored FDP organized by Government Polytechnic Nasik, Maharashtra from 13<sup>th</sup> to 17<sup>th</sup> December 2021.</p> <p>3. Worked as a <b>member of VTU/Exams/BOE/Subject Experts</b> for the academic year 2020-2021 and carried out the scrutiny of Question papers.</p> <p>4. Worked as a <b>member of VTU/LIC Committee</b> for the academic year 2019-2020 and carried out the inspection of various colleges of Bengaluru Region.</p> <p>5. Conducted the <b>NBA Mock Inspection</b> of Mechanical Engineering Department of GM Institute of Technology, Davangere and Tontadarya College of Engineering, Gadag on 19<sup>th</sup> Jan 2019 and 25<sup>th</sup> Jan 2020 respectively.</p> <p>6. <b>Resource person</b> for the VTU-TEQIP 1.3 sponsored FDP on “MATLAB based Artificial Intelligence Techniques in Engineering Applications” organized by Department of Mechanical Engineering held at SECAB Institute of Engineering and Technology, Vijayapura, KARNATAKA, INDIA, on 5<sup>th</sup> and 6<sup>th</sup> Oct, 2019.</p> <p>7. <b>Session chair</b> for the 2nd International Conference on Computational &amp;</p>

	<p>Experimental Methods in Mechanical Engineering (ICCEMME 2019), held at G.L. Bajaj Institute of Technology &amp; Management, Greater Noida on 3-5 May, 2019.</p> <p>8. Delivered <b>technical talks</b> on FEM and Dynamics of Machines subjects during Two Days State Level FDP on “Concepts of FEA and Its Applications” held on 19th and 20th Jan 2018 at Shri Vasanttrao Potdar Polytechnic Belagavi.</p> <p>9. Worked as an <b>Adjunct Faculty</b> at Mechanical Engg. Dept. of Nanasaheb Mahadik College of Engineering, Peth, Sangali, Maharashtra from April 2018 to Mar. 2019.</p> <p>10. Worked as a Jury member for the technical paper presentation event of PRAXIS 2K19, Two Day National Level Technical Fest held on 1<sup>st</sup> March 2019 at KLE College of Engineering and Technology, Chikodi, Belagavi.</p> <p>11. Given <b>Invited talk</b> on Topic ‘How to Study and Excel in Engineering Education’ at TCE Gadag, during the induction program on 21<sup>st</sup> August 2018.</p> <p>12. Delivered <b>technical talks</b> on “Fault Detection and Diagnosis of Active Magnetic Bearings” at Institute of Engineers, Dharwad Local Center on 26th Sept. 2017.</p> <p>13. <b>Reviewer</b> for some of the Journals of SAGE, Inderescence publications, Materials Today: Proceedings Elsevier and IEEE international Conferences.</p>			
<b>1.6</b>	<b>Completed MOOC Courses</b>			
<b>S. No</b>	<b>Title</b>	<b>University</b>	<b>Date</b>	
1.	Introduction to Advanced Vibrations	Korea Advanced Institute of Science and Technology	19 <sup>th</sup> Jan. 2022	
2.	Electric Vehicles and Mobility	Ecole Des Ponts Paris Tech	23 <sup>rd</sup> Aug. 2022	
3.	Solar Energy Basics	The State University of New York	26 <sup>th</sup> April 2020	
4.	Wind Energy	Technical University Denmark	24 <sup>th</sup> April 2020	
5.	3D Printing Applications	University of Illinois	29 <sup>th</sup> April 2020	
6.	Introduction to Basic Vibrations	Korea Advanced Institute of Science and Technology	5 <sup>th</sup> Sept. 2020	
7.	Writing Professional Emails in English	Georgia Institute of Technology	14 <sup>th</sup> May 2020	
<b>1.7</b>	<b>Faculty Development Programs Attended</b>			
<b>S.No.</b>	<b>Subject Area of Training</b>	<b>Organization</b>	<b>Place</b>	<b>Period/Duration</b>
1.	Digital Transformation in Product Design and Manufacturing Fusion 360	PF and Skill Development Center Talakal	Talakal Koppal Karnataka	21 <sup>st</sup> to 25 <sup>th</sup> August 2023
2.	Industry 5.0, Next Wave of Technology	Sadip University, Nasik	Nasik (Online)	10 <sup>th</sup> to 14 <sup>th</sup> Jan 2022
3.	Recent trends in renewable energy	Rajiv Gandhi Technical University	Bhopal (Online)	20 <sup>th</sup> to 24 <sup>th</sup> Sept 2021
4.	Magnetic Levitation Systems	NIT Mizoram (ATAL Academy)	Mizoram (Online)	27-09-2021 to 01-10-2021

5.	Digitalizing Design Through Transformation and Innovation	Department of Mechanical Engg., KLEIT	Hubballi, Karnataka	22 <sup>nd</sup> to 26 <sup>th</sup> July 2019 / 1 Week
6.	Finite Element Analysis and Its Application Using Ansys Workbench	Department of Mechanical Engg., KLEIT	Hubballi, Karnataka	26 <sup>th</sup> to 30 <sup>th</sup> June 2018 / 1 Week
7.	Faculty Development Program on Futuristic Materials and Their Applications	RNS Institute of Technology	Bengaluru, Karnataka	25 <sup>th</sup> to 27 <sup>th</sup> July 2018 / 3 Days
8.	International Workshop on Research and Application of Advanced Composites and Materials (IWonRAACM)	Sri Dharmasthala Manjunatheshwara College of Engineering and Technology	Dharwad, Karnataka	7 <sup>th</sup> and 8 <sup>th</sup> Dec., 2016 / 2 Days
9.	Workshop on Intellectual Property Rights and Management	Indian Institute of Science	Bengaluru, Karnataka	17 <sup>th</sup> Feb., 2016 / 1 Day
10.	Workshop on Incubating Relevant Engineering R&D Programs and Establishing Centres of Excellence	Siddaganga Institute of Technology	Tumakuru, Karnataka	11 <sup>th</sup> to 13 <sup>th</sup> May 2015 / 3 Days
11.	STTP on Computational Fluid Dynamics	Hirasugar Institute of Technology	Nidasoshi, Belagavi, Karnataka	9 <sup>th</sup> to 14 <sup>th</sup> June 2014 / 1 Week
12.	STTP on Application of Artificial Intelligent Techniques in Engineering Systems	Motilal Nehru National Institute of Technology	Allahabad, Uttar Pradesh	10 <sup>th</sup> to 14 <sup>th</sup> June 2013 / 1 Week
13.	STTP on Advanced Engineering Optimization Through Intelligent Techniques	Sardar Vallabhbhai National Institute of Technology	Surat, Gujarat	14 <sup>th</sup> to 18 <sup>th</sup> May 2012 / 1 Week
14.	STTP on Finite Element Method for Engineering Analysis	Bangalore Institute of Technology	Bengaluru, Karnataka	27 <sup>th</sup> to 31 <sup>st</sup> Jan., 2009 / 1 Week
15.	STTP on Concurrent Engineering – A Modern Approach to Product Design	SRKR Engineering College	Bhimavram AP	27 <sup>th</sup> to 31 <sup>st</sup> Dec., 2004 / 1 Week
16.	Workshop on Creative Teaching	Visvesvaraya Technological University	Belgaum, Karnataka	11 <sup>th</sup> to 13 <sup>th</sup> Sept., 2004 / 3 Days
<b>1.8</b>	<b>Membership of National Professional Bodies/Organization</b>			
<b>S.No.</b>	<b>Name of Professional Body/Organization</b>	<b>Place</b>		<b>Membership Category</b>
1.	Indian Society for Technical Education (ISTE)	New Delhi		Life member (LM62331)

<b>1.9</b>	<b>General information</b>	
	Name	Dr. Anand S. Reddy
	Date of birth	22/07/1979
	Strengths	Engineering knowledge, Presentation skills and Hardworking nature.
	Hobbies	Singing Kannada and Hindi Songs on Karaoke Tracks, Writing Songs both Kannada and Hindi languages
	Residential address	# 114, 2 <sup>nd</sup> floor, Pattan Appartment, Rajadhani colony, 3 <sup>rd</sup> cross, Gokul Road, Hubballi.
	Phone / mobile number	8762803579
	Email	reddyanan@gmail.com, anand.reddy@kleit.ac.in

05.12.2024	Dr. Anand Shivanappa Reddy	
Date	Full name	Signature