


FACULTY PROFILE

Name of the Faculty:		SARANU RAVIKUMAR					
Designation:		ASSOCIATE PROFESSOR					
Department:		MECHANICAL					
Date of Birth:		14-01-1981					
AICTE – ID:		1-435234359					
Education		€ B.Tech in Mechanical (with Specialization in Industrial and Production Engineering) from Acharya Nagarjuna University in 2004 € M.Tech in Industrial Tribology, Machine dynamics & Maintenance Engineering from Indian Institute of Technology Delhi in 2009 € PhD in Mechanical Engineering from Andhra University in 2023					
Experience		Teaching: 14 Years		Industry: 2 Years		Total: 16 Years	
		Research: _____ Years		Others: _____ Years			
Research Specialization		COMPOSITES					
Courses taught		1. Design of machine elements 2. Engineering Graphics 3. Material Science 4. Strength of material					
Research contributions							
International/national peer reviewed journals							
S. No.	Title of paper	Journal	Year	Volume	pages	Indexing (SCI/WoS/SCOPUS, Google scholar)	
1	FAULT DETECTION OF BEARINGS USING CONDITION MONITORING TECHNIQUES	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2019	9	813–820	SCOPUS	
2	Innovative and Efficient Electric Braking System In High-Speed	International Journal of	2019	9	2278-3075	SCOPUS	

	Trains using Proportional Resonant Controller	Innovative Technology and Exploring Engineering (IJITEE)				
3	Processing, micro structures and mechanical properties of AZ91E, Sic and fly ash composites: A review	Materials today: proceedings	2020	26	2629-2635	SCOPUS
4	Investigation of Microstructures, Mechanical Properties of AZ91E Hybrid Composite Reinforced with Silicon Carbide and Fly Ash	SILICON	2020	13	2145-2156	SCIE
5	Condition monitoring of roller bearings	AIP Conference Proceedings	2020	2281	020001	Google Scholar
6	Corrosion and tribological behavior of magnesium metal matrix hybrid composites-A review	AIP Conference Proceedings	2020	2259	020018	Google Scholar
7	Review of Magnesium Metal Matrix Composites	IOP Conference Series: Materials Science and Engineering	2020	961	012001	Google Scholar
8	Wear Studies of AZ91-SiC/FA Composites using Taguchi Approach and Artificial Neural Networks (ANN) Fabricated by Stir-Casting	Design Engineering	2021	-	2531-2555	SCOPUS
9	Wear Behaviour of Magnesium Metal Matrix Hybrid Composites –A Detailed Review	International Journal of Mechanical Engineering	2022	7	0974-5823	SCOPUS

Books published

S. No.	Title of the book	Publisher	year
1	-	--	-

Book chapters Published

S.No.	Title of the Chapter	Book title	Publisher	year
1	-	-	-	-

Details of Patents (Filed & Granted)

S. No.	Applications number	Title of the patent	Date of filing/publishing	Published/granted
1	202241071439 A	MULTI WRENCH TOOL	30/12/2022	PUBLISHED
2	385255-001	DESIGN OF MULTI WRENCH TOOL	28/04/2023	UNDER PROCESS

Details of Conferences/FDPs/STTPs/webinars/Workshops Organized

S.No.	Name of the event	Role	Dates
1	NIL	-	-

Details of Conferences/FDPs/STTPs/webinars/Workshops Participated

S.No.	Name of the event	Organized by	Dates
1	Train the Trainer on Industrial automation technology	BOSCH REXROTH & VTU BENGALORE	March 19 th 2012 to April 18 th 2012
2	Two day national level workshop on "Recent Trends in Tribology	Sree vidyanikethan engineering college, Tirupati	November 29-30, 2014
3	A three day faculty development program on machine learning using python	DEPARTMENT OF COMPUTER SCIENCE, BAPATLA ENGINEERING COLLEGE	November 15-17, 2018
4	A one day workshop on Art of Thesis Writing	Siddhartha academy of general & Technical education, Vijayawada	September 21, 2019
5	A One Day International Conference on "English Language Teaching	Department of English, in association with IQAC, Saradha Gangadharan College, Puducherry	10th September 2020
6	International Conference on Advanced Materials Behaviour & Characterization	Mattest Research Academy, Chennai	18 - 23 July, 2020
7	THIRD INTERNATIONAL CONFERENCE ON INVENTIVE MATERIAL APPLICATIONS	PPG INSTITUTE OF TECHNOLOGY, COIMBATORE	18 - 19 June, 2020

8	International conference on trends in material science & materials	JCT COLLEGE OF TECHNOLOGY, COIMBATORE	09- 10 April, 2020
9.	AICTE Training And Learning (ATAL) Academy Online FDP on "Novel Materials	AICTE Training And Learning (ATAL) Academy	2020- 8-17 to 2020-8-21
10	One-week Online Faculty Development Programme on "Recent Developments in Mechanical Engineering	Department of Mechanical Engineering, Prasad V.Potluri Siddhartha Institute of Technology	10th -14th of August 2020.
11	Scilab training for January 2020 semester	Sasi Institute of Technology & Engineering & IIT BOMBAY.	JAN-MAY 2020
12	One-week Online Faculty Development Programme on Adavanced Research Traits in materials and design of mechanical systems	VIGNAN'S UNIVERSITY, VADLAMUDI.	22-27, JULY 2020
13	2nd One Week International Faculty Development Program - Role of Materials and Processing in Additive Manufacturing: 3D Printing to Industry-2020	Department of Mechanical Engineering, GLA University, Mathura in association with Indian Institute of Metals (IIM), Mathura Chapter	19-24, JULY 2020
14	One Week International FDP on "LATEST TRENDS IN ENGINEERING, SCIENCE AND TECHNOLOGY: NANOMATERIALS	Department of Chemistry, Lendi Institute of Engineering and Technology, Vizianagaram	10-15 August 2020
15	One Week Faculty Development Program on Online Teaching Etiquette and Best Practices	Santhiram Engineering College, Nandyal in collaboration with Talentio Solutions India Pvt. Ltd., Hyderabad.	10-05-2020 to 15-05-2020

16	1-DAY FDP on Research Methodology - Methods & Best Practices	SANTHIRAM ENGINEERING COLLEGE, Nandyal	07-05-2020
17	One Week Online Short Term Training Program on "Recent Advances in Materials and Manufacturing: Part III	Department of Mechanical Engineering, Gayatri Vidya Parishad College of Engineering (Autonomous), Visakhapatnam	05th to 10th October, 2020
18	AICTE Training And Learning (ATAL) AcademyOnline FDP on "Sensors Technology"	National Institute of Engineering	2020-9-21 to 2020-9-25
19	Three-day National level webinar on "Recent Trends in Materials Science (RTMS-2020)	Department of Physics, Science & Humanities, USHA RAMA ENGINEERING & TECHNOLOGY	August 19th to 21st 2020

Awards/recognitions/achievements

S.No.	Name of the Award	Awarding body/Society/Organization	Year
1	LOCAL COORDINATOR APPRECIATION CERTIFICATE	NITTR , CHENNAI	2019
2	BEST TEACHER FROM MECHANICAL DEPARTMENT	BAPATLA ENGINEERING COLLEGE	2022

Details of project proposals submitted/sanctioned/completed

S.No.	Title of the Project	Funding body	Submitted/ Sanctioned/ Completed	Amount	Year/ duration

Consultancy contribution

S.No.	Year	Amount	Details
1			

Student Project/research guidance

S.No	Level	Total number	
1	UG	Completed: 14	Ongoing: 1
2	PG	Completed: 01	Ongoing:00
3	PhD	Completed: 00	Ongoing: 00

Administrative experience

S.No.	Role	Duration (From – to)
1	VICE PRINCIPAL, SECOND SHIFT POLYTECHNIC	21/09/2015 - TILL DATE

Research credentials

Index/database	ID/Link
Google Scholar	https://scholar.google.com/citations?user=q7jllm4AAAAJ&hl=en
SCOPUS	57212088126
Web of Science	
Vidwan ID	428315

(SARANU RAVIKUMAR)
(11-09-2023)