


FACULTY PROFILE

Name	Dr. Pranesh K G
Employee ID	AIET005
Designation	Associate Professor
Educational Qualification	M.Tech (Machine Design), Ph.D.
Area of Specialization	Machine Design and Polymer Composite Materials
Department	Mechanical Engineering
Date of Joining to AIET	20-09-2023
Total Experience in years	Teaching :20 Research :09 Industry :02
E-mail	Pranesh@akashiet.com

Details of Educational Qualification

Degree	Specialization	Passed out year	University
Ph.D.	Polymer Composite Materials	2023	Visvesvaraya Technological University, Belagavi Karnataka
M.Tech.	Machine Design	2014	Visvesvaraya Technological University, Belagavi Karnataka
B.E.	Automobile Engineering	1998	Mysore University, Karnataka
PG Diploma	Automobile Pollution and Control	2008	Annamalai University
PG Diploma	Automobile Maintenance	2005	Annamalai University

Research Details

Research Areas	Polymer Composite Materials
Google scholar ID	https://scholar.google.com/citations?hl=en&authuser=1&user=8886naEAAA
Scopus Author ID	57822907800 57610777700
ORCID-ID	0000-0001-7910-7051
Vidwan-ID	464826
Citation	41
h-index (Scopus)	3
i10-index	1

Research Guidance

Research Supervisor	Research Scholar	
	Ongoing	Awarded
Faculty of Mechanical Engineering Sciences Visvesvaraya Technological University, Belagavi.	01	-

MOOC/NPTEL

Sl. No.	Name of the Course	Duration of the course	Month and Year of completion	Course offered by
1	Structural Analysis of Nanomaterials	Four Weeks	Jul-Aug 2019	IIT, Roorkee
2	Product Design and Development	Four Weeks	Jan-Mar 2019	IIT, Roorkee
3	Experimental Stress Analysis – An Overview	Four Weeks	Aug-Oct 2018	IIT Madras

MOOC/COURSERA

Sl. No.	Name of the Course	Month and Year of completion	Course offered by
1	FEM-Linear, Nonlinear Analysis & Post-Processing	June-2025	Coursera Project Network
2	Overview of Data Visualization	June-2025	Coursera Project Network
3	Finite Element Analysis Convergence and Mesh Independence	April-2024	Coursera Project Network
4	Business Analysis & Process Management	April-2024	Coursera Project Network

AICTE Parakh

Sl. No.	Learning Assessment	Self-Assessment Date
1	Automobile Engineering/Robotics	26-05-2023

Reviewer

Sl. No.	Name of the Journal
1	Journal of Composite Materials
2	Iranian Polymer Journal
3	Materials Today-Proceedings
4	Futuristic Trends in Mechanical Engineering IIP SERIES
5	ACME-2022, IJERT Conference Proceeding

Papers Published in Journals

Sl. No.	Title of the paper	Year of Publication	Journal Name	DOI
1	Role of carbon fibre reinforcement of polyphenylene sulphide (PPS) composites on mechanical, thermal and electrical properties	2026	Taylor & Francis	9781041209515
2	Influence of Nano Materials on the Mechanical Properties of Epoxy Matrix Composite – A Review	2025	International Journal of Engineering Research & Technology (IJERT)	10.17577/IJERTCONV13IS03012
3	Influence of Nanosilica on Mechanical Performance in Woven Carbon/Kevlar/Epoxy Hybrid Composites	2024	Journal of Engineering	https://doi.org/10.1155/je/2646317
4	Impact of Manufacturing Methods on the Mechanical Characteristics of Polymer Matrix Composites with Glass and Epoxy Fiber Reinforcement	2024	Journal of The Institution of Engineers (India): Series D	https://doi.org/10.1007/s40033-024-00818-1
5	Investigating the influence of nanosilica and fiber	2023	Revue des Composites et des	doi.org/10.18280/rcma.330101

	layersequence on interlaminar shear strength in carbon-Kevlar-epoxy polymer hybrid nanocomposite		Matériaux Avancés- Journal of Composite and Advanced Materials	
6	Investigation of dynamic mechanical behavior of nanosilica filled carbon-Kevlar-epoxy polymer hybrid nanocomposite	2022	Annales de Chimie - Science des Matériaux	doi:org/10.18280/acsm.460305
7	Influence of Nanosilica on Tensile Properties in Fiber Reinforced Polymer Hybrid Composite Carbon/Kevlar/Epoxy Woven Fiber	2022	AIP Conference Proceedings	doi:org/10.1063/5.0114093
8	Investigation of flexural properties of hybrid woven Carbon-Kevlar-epoxy composites added with nanosilica filler	2022	Materials Today: Proceedings	doi:org/10.1016/j.matpr.2022.03.484
9	Role of E-glass fiber on mechanical, thermal and electrical properties of polyphenylene sulfide (PPS) composites	2022	Materials Today: Proceedings	doi:org/10.1016/j.matpr.2022.04.083
10	Anti-Lock and Regenerative Braking System in Two wheelers	2022	International Journal of Engineering Research & Technology (IJERT)	
11	Effect of Nanomaterials on Mechanical Properties in Fiber Reinforced Polymer Composite-A Review	2020	International Research Journal of Engineering and Technology (IRJET)	
12	Composite Leaf Spring for Automobile Suspension System-A Review	2019	International Journal of Scientific Research and Review	
13	Study of Mechanical Properties and Wear Behaviour of Heat Treated A356	2019	International Journal of	

	Reinforced with Silicon Carbide		Engineering Science and Computing	
14	Design and structural dynamic analysis of overhead elliptical conveyor frame	2014	Elsevier publication	

Book Chapter Published

Sl. No.	Title of the paper	Year of Publication	Journal Name	DOI
1	Influence of Nanofiller Addition on Tensile Properties in Fiber Reinforced Polymer Composites	2024	Futuristic Trends in Mechanical Engineering IIP SERIES	doi.org/10.58532/V3BDME5P1CH6
2	Low velocity impact strength of carbon/glass reinforced epoxy hybrid nanocomposites	2024	Futuristic Trends in Mechanical Engineering IIP SERIES	doi.org/10.58532/V3BDME5P1CH8
3	AI-assisted 3D printing – Insights on Emerging Trends and Technologies	2024	Futuristic Trends in Mechanical Engineering IIP SERIES	doi.org/10.58532/V3BDME5P1CH10

Patents

Sl. No	Title of the Patent	Year of Publication	Patents number
1	3D Printer Filament Making Machine	2024	416111-001
2	IOT Based Grid Energy Management Device	2024	408187-001

Papers Presented in Conferences

Sl. No.	Title of the paper	Name of the Conference	Date of Conference	Place
1	Investigating the influence of Nanosilica on Mechanical Properties in Carbon-Epoxy Polymer Composite	International Conference on Materials, Propulsion and Robotics –ICMPR 2025	27 th -28 th June 2025	Acharya Institute of Technology, Bengaluru
2	Influence of Nano Materials on the Mechanical Properties of Epoxy Matrix Composite – A Review	International Conference on “Advancement in Mechanical engineering: Shaping the Future” AIME-2025	7 th April 2025	RR Institute of Technology, Bengaluru

3	Role of Carbon fiber on mechanical, Thermal and Electrical Properties of Polyphenylene Sulfide (PPS) composites	Fifth International Conference on Recent Advances in Engineering Sciences	14-15 th Nov 2024	M S Ramaiah Institute of Technology, Bengaluru
4	Investigation of Tensile, Bending and Impact Strength of Jute/Coir/Bagasse Hybrid Polyester Composites	International conference Recent Trend in Mechanical Engineering (RTIME)	26-27 th May 2023	Srinivasa Institute of Technology Mangaluru
5	Anti-Lock and Regenerative Braking System in Two wheelers	International Conference on Advances in Civil and Mechanical Engineering ACME-2022	30-31 st July 2022	R R Institute of Technology, Bengaluru,
6	Investigation of the Flexural Properties of Nanosilica Filler in Hybrid Woven Carbon-Kevlar- Epoxy Composite	International Conference on Emerging Trends in Materials Science and Technology-2022	10-11 th Feb 2022.	CMRIT, Bangalore
7	Role of E-glass fiber on mechanical, thermal and electrical properties of polyphenylene sulfide (PPS) composites	International Conference on Emerging Trends in Materials Science and Technology-2022	10-11 th Feb 2022.	CMRIT, Bangalore
8	Influence of Nanosilica on Tensile Properties in Fiber Reinforced Polymer Hybrid Composite Carbon/Kevlar/Epoxy Woven Fiber	4 th International Congress on Advances in Mechanical Sciences	26-27 th Nov 2021	Vardhaman College of Engineering, Hyderabad.
9	Composite Leaf Spring for Automobile Suspension System-A Review	International Conference on Recent Innovations in Science, Engineering and Management	10-11 th May 2019	R R Institute of Technology, Bangalore
10	Design and structural dynamic analysis of overhead elliptical conveyor frame	International Conference on Mechanical Engineering (ICME)	21 st -23 rd , Aug, 2014	Vijaya Vittala Institute of Technology, Bangalore

Membership of Professional Bodies

Sl. No.	Professional Body / Society	Year of Joining	Nature of Membership	Membership ID
1	Indian Society for Technical Education	2015	Life Member	LM102826
2	The Institution of Engineers (India)	2017	Life Member	M-157186-3
3	Indian Welding Society	2017	Life Member	L01778
4	The Institute of Indian Foundrymen	2022	Member	M/17612/S/BAN

Mentor for Standard Club

Sl. No.	Mentor
1	Bureau of Indian Standards (BIS) - Mentor for Standard Club

Awards

Sl. No.	Name of the Award	Year	Awarding Organization
1	Vishesha Vidhyarthi Puraskara	1999	Sri Yagnavalkhya Yuvaka Sangha (R), Bangalore-18
2	Vishesha Vidhyarthi Puraskara	1993	Sri Yagnavalkhya Yuvaka Sangha (R), Bangalore-18

Faculty Development Program (FDP)/Student Development Program (SDP)/Conference organized

Sl. No.	Name of the program	FDP/SDP/Conference	Period	
			From	To
1	Entrepreneurship Awareness Program	SDP	18 th Sept 2025	18 th Sept 2025
2	BIS Standards Club: Poster Making and Technical Talk Competition	SDP	5 th March 2025	5 th March 2025
3	BIS Standards Club: Standard Writing Competition	SDP	31 st May 2024	31 st May 2024
4	Webinar on “Intellectual Property Rights”	SDP	29 th April 2024	29 th April 2024
5	Panchatantra Tales: An effective tool for inculcating life skills and Managerial Skills	SDP	21 st March 2024	21 st March 2024

6	Engineering Your Future: Skill Enhancement and Self-improvement for Success	SDP	19 th March 2024	19 th March 2024
7	Importance of Yoga in everyday	SDP	16 th March 2024	16 th March 2024
8	Avenues and Opportunities with Mechanical Engineering in Industry 4.0	SDP	16 th Feb 2023	16 th Feb 2023
9	BIS Manak Mitra	SDP	30 th Dec 2022	30 th Dec 2022
10	BIS Standards Club	SDP	16 th Nov 2022	16 th Nov 2022
11	one-day visit to BIS	SDP	7 th June 2022	7 th June 2022
12	Hands-on training on software “Fusion 360”	FDP	15 th June 2022	15 th June 2022
13	Career Opportunities in Mechanical Engineering	SDP	27 th Feb 2021	27 th Feb 2021
14	Design Thinking and IPR Process	SDP	27 th March 2021	27 th March 2021
15	Industry 4.0: Industrial Automation Problems and Solution Projects	SDP	21 st Oct 2021	23 rd Oct 2021
16	Development of fine grain structures in Al alloys - a critical review	SDP	11 th Sept 2021	11 th Sept 2021
17	Material characterization using DMA	FDP	6 th July, 2020	11 th July, 2020
18	Composite Materials and Its Characterizations	FDP	22 nd June, 2020	27 th June, 2020
19	Application of FEA/FEM in Industry	SDP	23 rd May 2020	23 rd May 2020
20	Recent Trends in Mechanical and Automotive Engineering	FDP	27 th Jan, 2020	31 st Jan, 2020
21	Farm Machinery Training and Testing	SDP	1 st Apr, 2019	5 th Apr, 2019
22	Latest Trends in Automotive Electronics	SDP	2 nd Nov 2018	2 nd Nov 2018
23	Engine Management System	SDP	2 nd March 2018	2 nd March 2018
23	Entrepreneurship Awareness Program	SDP	29 th Dec 2020	31 st Dec 2020
24	Entrepreneurship Awareness Program	SDP	26 th Oct 2017	28 th Oct 2017
24	Newer Technologies in Diesel and Gasoline systems	SDP	15 th Oct 2009	16 th Oct 2009

Past Position

Sl. No.	Designation	Organisation	Period	
			From	To
1	Assistant Professor	Akash Institute of Engineering and Technology, Bengaluru	20 th Sept 2023	30 th Sept 2024
2	Assistant Professor	Acharya Institute of Technology, Bengaluru	14 th Aug 2017	14 th Sep 2023
3	Sr. Lecturer	K S Polytechnic, Bengaluru	17 th May 2010	14 th Aug 2017
4	Training Manager	Vijai Auto Training Academy (Vijai Auto Sales and Service (P) Ltd), Bengaluru	2 nd May 2008	15 th May 2010
5	Lecturer	Acharya Polytechnic, Bengaluru	21 st Jan 2008	11 th Apr 2008
6	Lecturer	HAA/HEA Polytechnic, Bengaluru	15 th July 2004	15 th Jan 2008
7	HOD	A.V.N.R. Pre-University & Vocational Education, Gowribidanur	14 th Dec 1998	30 th June 2004
8	Visiting Lecturer	Government Polytechnic, Bagepalli	Academic year 1999-2000	Academic year 2006-2007