

Name of Teaching Staff	:	Prof Gregory Mathew	
Designation	:	Assistant Professor	
Department	:	Mechanical Engineering	
Date of Joining the Institution	:	11.01.2016	
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Google Scholar Link	:	https://scholar.google.com/citations?user=Db4u6eQAAAAJ&hl=en&oi=ao	
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ResearchID	:	rid42356	
Vidwan-ID	:	332941	
Publons Researcher ID	:	https://publons.com/researcher/AAB-7059-2022	
Qualifications with Class / Grade	:	M.Tech. Machine Design, SPCE, Mumbai University, 9.38 CGPI, May 2015. B.E. Mechanical Engg, VCET, Mumbai University, 62%, May 2010	
Total Experience in Years	:	Teaching: Assistant Professor in Sardar Patel College of Engineering from 05-06-14 to 31-12-15 Assistant Professor in D.J. Sanghvi College of Engineering from 11-01-2016 to till date. Industry: 1 year as Trainee engineer, Evergreen Engineering Co. Pvt. Ltd. 1 year as Project trainee, Larsen and Toubro EAIC	
Research Papers Published: International: ---	:	[1] Gregory Mathew, Vijaya Kumar Kottur, (2026) Comprehensive Review of Mechanical Performance and Strengthening Mechanisms in Dual Reinforced Aluminium Matrix Composites. <i>Discover Mechanical Engineering</i> . Volume-5. Article-136. DOI: 10.1007/s44245-026-00318-4. [2] Gregory Mathew, Vijaya Kumar Kottur, (2025) A Review on the Reinforcement of Aluminium Composites Using Industrial Waste Materials: Enhancing Mechanical Properties and Tribological Performance. <i>Next Materials</i> . Volume-9. ISSN: 2949-8228. DOI: 10.1016/j.nxmte.2025.101356. [3] Gregory Mathew, Vijaya Kumar N. Kottur, (2023) Effect of Ceramic Reinforcements on the Mechanical and Tribological Properties of Aluminium Metal Matrix Composites – A Review. <i>Materials Today: Proceedings</i> . ISSN: 2214-7853. DOI: 10.1016/j.matpr.2023.09.099.	
		[1] Mathew G., Rane S.B., Patil Y., Mohan S.V. (2020) Development of Spring Life Test Apparatus and Life-Cycle Assessment of Extension Springs. In: Vasudevan H., Kottur V., Raina A. (eds) <i>Proceedings of International Conference on Intelligent Manufacturing and Automation</i> . Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-15-4485-9_51 [2] Mathew G., Rane S.B. (2020) Reliability Estimation of Molded Case Circuit Breaker in Development Phase. In: Vasudevan H., Kottur V., Raina A. (eds) <i>Proceedings of International Conference on Intelligent Manufacturing and</i>	

		Automation. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-15-4485-9_59 [3] Nadar V., Narayanan E., Mathew G., Fernandes P. (2020) Design and Development of a Foldable Hand-Driven Tricycle. In: Vasudevan H., Kottur V., Raina A. (eds) Proceedings of International Conference on Intelligent Manufacturing and Automation. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-15-4485-9_65 [4] Nadar V., Narayanan E., Mathew G., Udayar R. (2020) Design and Development of an Anti-rolling Mechanism for Hand-Driven Tricycles. In: Vasudevan H., Kottur V., Raina A. (eds) Proceedings of International Conference on Intelligent Manufacturing and Automation. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-15-4485-9_54 [5] Mehta, D.D., Jaisingh, D.H., Attavar, K.K., Brahmabhatt, A.D., Mathew, G. (2023). Computational Estimation of Air Flow Parameters of an Outdoor Air Purifier. In: Vasudevan, H., Kottur, V.K.N., Raina, A.A. (eds) Proceedings of International Conference on Intelligent Manufacturing and Automation. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-19-7971-2_65 [6] Mistry, J., Menezes, E., Indulkar, P., Mathew, G. (2023). Design and Analysis of a Compliant Displacement Amplification Mechanism. In: Vasudevan, H., Kottur, V.K.N., Raina, A.A. (eds) Proceedings of International Conference on Intelligent Manufacturing and Automation. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-19-7971-2_58 [7] Mathew, G., Kumar, K.N.V., Vijaykumar, S. (2023). Effect of Agro Waste Reinforcements on the Mechanical Properties of Aluminium Composites. In: Vasudevan, H., Kottur, V.K.N., Raina, A.A. (eds) Proceedings of International Conference on Intelligent Manufacturing and Automation. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-19-7971-2_43 [8] Mistry, M., Mathew, G. (2023). Optimization of Process Parameters in CNC Turning of Hastelloy C276 Through Taguchi Method. In: Vasudevan, H., Kottur, V.K.N., Raina, A.A. (eds) Proceedings of International Conference on Intelligent Manufacturing and Automation. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-19-7971-2_45 [9] Mathew, G., Kumar, K.N.V., Vijaykumar, S. (2023). Study of Properties of Aluminium Composites Reinforced with Triple Reinforcements. In: Vasudevan, H., Kottur, V.K.N., Raina, A.A. (eds) Proceedings of International Conference on Intelligent Manufacturing and Automation. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-19-7971-2_41 [10] Agresar, B., Dalvi, G., Mehta, H., Rajpuriya, A., Mathew, G. (2023). Design of Gripper Arm for a Robot Trolley. In: Vasudevan, H., Kottur, V.K.N., Raina, A.A. (eds) Proceedings of International Conference on Intelligent Manufacturing and Automation. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-19-7971-2_38
Professional Memberships	:	[1] Indian Society of Manufacturing Engineers (ISME) [2] Indian Society for Technical Education (ISTE)
5 day Faculty Development Programmes completed from	:	[1] Social Enterprise Management and Self-Reliant India

AICTE Training and Learning Academy		[2] Exploring Ideas to Scalable Product Design Skills [3] Electric Vehicles [4] Plastics Product Manufacturing and Recycling Techniques [5] Recent Trends in Cutting-Edge Automotive Technology [6] Advanced Engineering Materials towards Sustainable Development
One Week AICTE–VTU Joint Teachers Training Programme	:	[1] Introduction to Python Programming & its Applications [2] Introduction to Web Programming [3] Introduction to Internet of Things (IoT) [4] Robotics and Artificial Intelligence
Faculty Development Programmes by ISTE	:	[1] Applications of AI-ML-DL in Product Life Cycle Design and Management [2] From Draft to Publication: Essential Steps in Research Article Writing [3] Communication Excellence and Lean Thinking in Engineering Education
Faculty Development Programmes completed from NPTEL SWAYAM platform	:	[1] Fuzzy Logic and Neural Networks [2] The Joy of Computing using Python [3] Manufacturing of Composites [4] Mathematical Modelling of Manufacturing Processes
Training programs completed from IBM	:	[1] Predictive Analytics [2] Applied Statistical Analysis
Faculty Development Programmes /Workshops completed from SVKM affiliated institutions	:	[1] 3D printing and Applications (by MPSTE) [2] Active Teaching Learning Strategies Using Innovative Technology (by DJSCE) [3] Emerging Frontiers of Research in Energy Systems (by DJSCE)
Training programs completed from MoE's Innovation Cell and AICTE	:	[1] Innovation Ambassador Training (Advanced Level) [2] Innovation Ambassador Training (Beginners level)
Training programs completed from Malaviya Mission Teacher Training Programme	:	[1] NEP 2020 Orientation & Sensitization Programme (9 days) [2] Fluid Mechanics in Action: Principles, Advances and Applications (12 days)
One day Faculty Development Programmes completed from TCS	:	[1] Intellectual Property Rights [2] Machine Learning and Deep Learning
Other Online Faculty Development Programmes completed	:	[1] A Journey into the Manufacturing Sector in India in view of Industry 4.0 practices and COVID-19 (D. J. Sanghvi College of Engineering, Mumbai) [2] Digital Teaching and Learning Environment (Pillai College of Arts, Commerce and Science, Navi Mumbai)

		[3] Advances in Composite Materials and Manufacturing Process (St. Ann's College of Engineering and Technology, Kakinada) [4] Innovation, Entrepreneurship and its Relevance in Industry 4.0 Practices in the Post Covid-19 Situation (Terna Engineering College, Navi Mumbai) [5] Artificial Intelligence (Bharati Vidyapeeth College of Engineering, Navi Mumbai)
Modules completed from Elsevier Researcher Academy	:	[1] 10 tips for writing a truly terrible review [2] Publishing open access [3] Open access and navigating the journal landscape [4] Systematic reviews 101 [5] How researchers store, share and use data [6] Discover how metrics can boost funding and networking opportunities [7] Funding Hacks for Researchers [8] How to leverage open hardware to improve your research [9] Writing a persuasive cover letter for your manuscript [10] How to conduct evidence-based research [11] How to secure funding - ECR edition
Courses completed from Coursera	:	[1] Assessment in Higher Education: Professional Development for Teachers [2] Learning to Teach Online [3] Leadership and Emotional Intelligence [4] Machine Learning for All
Webinars attended	:	[1] Design - Past, Present and Future (Dwarkadas J. Sanghvi College of Engineering, Mumbai) [2] Intellectual Property Rights (Dr. P. G. Halakatti College of Engineering & Technology, Karnataka) [3] Creating Interactive E- Learning Content (Universal College of Engineering, Vasai) [4] Research Methodology Including Experimental Approach (AISSMS College of Engineering, Pune) [5] Challenges in Non-Destructive Testing and Future Prospects (Dwarkadas J. Sanghvi College of Engineering, Mumbai) [6] Insights into Machine Learning (SCAD College of Engineering and Technology, Tamil Nadu) [7] Innovation in the post Covid Era: A Perspective (Narsee Monjee College of Commerce and Economics) [8] Teachers are Leaders (TRL) (Bharati Vidyapeeth College Of Engineering, Navi Mumbai) [9] Future Effective Learning Techniques (Sinhagad Institute Of Technology, Lonavala) [10] Fluid Power Applications and Mechatronics (Dr. D. Y. Patil Institute of Technology, Pune) [11] Career Oriented Teaching Learning (Sinhagad Institute Of Technology, Lonavala)

		[12] Industry Scenario after COVID - 19 (Guru Gobind Singh College Of Engineering and Research Centre, Nashik) [13] Industrial Engineering Technique for Digital Manufacturing (Dr. D. Y. Patil Institute of Technology, Pune) [14] IOT - Mechanical Engineering Perspective and Case Studies (Amrutvahini College of Engineering, Sangamner) [15] Problem Solving Using 8D Systematic (Eduvoice SIEM Nashik Chapter) [16] Role of Teacher in Context of National Education Policy (Mumbai University and College Teachers' Association)
Subjects Taught	:	UG Level: • Engineering Mechanics • Computer Aided Machine Drawing • Kinematics of Machinery • Dynamics of Machinery • Python for Mechanical Engineering • Mechanical Vibrations • Machine Design I • Machine Design II • Design of Mechanical Systems
Projects Guided	:	UG Level <u>AY 2017-18</u> Design and Optimization of Fixtures for Shell Fabrication of Pressure Vessel Prototyping of a Food Processing Unit and Vending Machine Designing and Testing of a Formula Car Braking System <u>AY 2018-19</u> Design and Prototyping of Cost Effective Prosthetic Limbs Design and Fabrication of a Foldable Bicycle <u>AY 2019-20</u> Design and Optimization of Disc Brake Rotor Fabrication of a Hand Operated Seed (wheat) Drill Design and Fabrication of a Compliant Mechanism <u>AY 2020-21</u> Prototyping an Autonomous Robot Trolley Design and Manufacturing of an Electric Bicycle Design and Development of an Air Purifier <u>AY 2021-22</u> Design, Optimization and Fabrication of Kinetic Energy Recovery System in a Bicycle Design and Analysis of Duct for Small Scale Wind Turbine Design and Fabrication of Automated Wheelchair <u>AY 2022-23</u> Design and Development of Electromagnetic Induction Braking System Design And Development of a Quadcopter Comparative Study of Machine Learning Models for Predicting Mechanical Properties of Fused Filament Prints <u>AY 2023-24</u> Thermal Analysis of Lithium ION Battery Pack Design and Fabrication of robot for water body scavenging

		<u>AY 2025-26</u> Design and Development of Enhanced Thermal Management System for Gun Barrel Design and Development of a Sustainable Recycling System for 3D printing Waste PG Level <u>AY 2020-21</u> Embodied Design & Development of Hand Tricycle for Handicapped Persons	
Recommended Students for Higher Education	:	Name of the Student More than 30 students for PG level	University/Industry Various Universities across USA, Canada and Germany
Institute/Department Responsibility handled		At The Institute Level Member of following committees at the institute level: • NAAC - Criteria 5 • NBA - criteria 3 (third cycle) • Admission committee • IQAC Committee member • Degree Distribution Ceremony Committee • GPU Facility Committee At the Department Level • Coordinator for the M.Tech. programme • Faculty coordinator for DJS Miles • Member of syllabus revision/ committee • Mentor to around 40 students of the department • Coordinator for International conferences - ICIMA 2018, ICIMA 2020 and ICIMA 2022. • Coordinator for MATLAB workshops held in the department during A.Y. 2017-18, 2018-19 and 2019-20 • Member of Admission counselling team • Website coordinator • Course coordinator for the subjects of Kinematics of Machinery, Dynamics of Machinery, Mechanical Vibrations, Python for Mechanical Engineering, Design of Machine Elements • Member of On Job Training Committee • Review committee member for IPD projects • Review committee member for OJT • Member of Degree Distribution Ceremony Committee • Member of NBA criteria-3 committee • Member of NAAC criteria-4 committee	
Pedagogy Development		• E-Learning video in the subject of Kinematics of Machinery • E learning video in the subject of Computer Aided Machine Drawing	