

SRI SAI RAM ENGINEERING COLLEGE
DEPARTMENT OF MECHANICAL ENGINEERING

<p>Name: Dr.N.Vinayaga Muruga Pandey</p>	
Designation:	ASSISTANT PROFESSOR
Qualification:	MASTER OF ENGINEERING
Area of Specialization:	MANUFACTURING SYSTEMS AND MANAGEMENT
Experience:	Teaching-4 YEARS 6 MONTHS
	Industry:- 2 YEARS
Number of Workshops/ Conferences/ FDP Attended:	WORKSHOP-Nil FDP:27 NATIONAL/INT. CONFERENCE-4
Publication:	<p>Journal:</p> <p>National : Nil</p> <p>International: 3</p>
	<p>Conference:</p> <p>National: Nil</p> <p>International: 4</p>
Contact Details:-	<p>Email:- nvmp.mech@sairam.edu.in</p> <p>Phone:- 9941313387</p>
Staff Achievement	<p>1. Achieved class topper in M.E. Manufacturing Systems and Management batch of 2010-2012 with GPA of 9.9, 9.95 and 10 (Out of 10) in first,</p>

	<p>second and third semester respectively and finally won Gold Medal award for securing First rank in the batch.</p> <p>2. Received Gold Medal from CEG Alumni Association, Anna University for Best Outgoing Student in M.E. Manufacturing Systems and Management batch of 2010-2012.</p> <p>3. Received Lean Six Sigma Green belt holder certificate.</p> <p>4. Achieved class second topper in fifth Semester of B.E. Mechanical Engineering.</p> <p>5. Obtained a final step score of 9.4 out of 12 in Stepathon 6 (Standardized test of English proficiency from THE HINDU group) which corresponds to Advanced level of English typical Global MNC's.</p>
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Educational Qualification:-

Course	Institution / University	Year of passing	Percentage(%)
Ph.D (MECH)	Indian Institute of Information Technology Design and Manufacturing Kancheepuram Chennai	2019	--
M.E.(MANUFACURING SYSTEMS AND MGMT)	College of Engineering, Guindy, Anna University, Chennai	2012	9.78
B.E.(MECHANICAL)	MepcoSchlenk Engineering College, Sivakasi	2008	83%
HSC	TVS Lakshmi Matriculation Hr Sec School	2004	95%
Matriculation	Fusco's Matriculation Hr Sec School	2002	88%

Professional Experience:

Sl. No	College/Organization	Designation	Period From To	Total period	Nature of work
1.	Sri Sai Ram Engineering College	Assistant Professor	09.06.2022 – Till Date	6 Months	Teaching
2.	Dr.Mahalingam College of Engineering and Technology	Assistant Professor	03.09.2019 – 31.05.2022	3 Years	Teaching
3.	Thiagarajar College of Engineering	Assistant Professor	14.06.2012 – 26.07.2013	1 Year 1 Month	Teaching
4.	Sterlite Industries India Limited	Engineer	30.06.2008- 10.07.2010	2 Years	Maintenance Engineer

Papers published in the international conferences:

1.Vinayaga Muruga Pandy N. Experimental study and analysis of torque in drilling human femur cortical bone. In Proceedings of the Third International conference on Robotics, Intelligent Automation, and Control Technologies organized by SMEC, VIT Chennai on 23-25th September 2022.

2.Pandithevan P, Prasannavenkadesan V and **Vinayaga Muruga Pandy N.** Reconstruction of patient-specific human femur with surgical drilling temperature data: A methodology applicable for robotic surgery. In: Proceedings of the International Conference on Applied and Computational Mathematics, November 23-25, 2018, IIT Kharagpur, India.

3.Pandithevan, P. and **Vinayaga Muruga Pandy N.,** 2017. Reconstruction of subject-specific human femur with surgical drilling force data: an experimental study to operate in the radial direction: In Proceedings of the XXVI Congress of the International Society of Biomechanics (ISB) Brisbane Australia July 22-27.

4.Vinayaga Muruga Pandy N, Pandithevan P, 2017 Experimental investigation and analysis of torque in drilling human femoral bone. In Proceedings of the Indian Conference on applied mechanics (INCAM) 2017, MNNIT, Allahabad, 5-7 July 2017.

5.Pandithevan P, **Vinayaga Muruga Pandy N.** 2016. Modelling and analysis of metal drilling process using experimental study and finite element method. In Proceedings of the Sixth International Congress on Computational Mechanics and Simulation, IIT Bombay, India, June 27-July 1.

6.Raghavanantham S, Sampathkumar S, **Vinayaga Muruga Pandy N,** Srinivasan R. 2012. Online monitoring of grinding wheel loading using Infrared technique. In Proceedings of the National conference on Emerging Research and Advances in Mechanical sciences, Vellamal Engineering College, Chennai, March 23, 2012.

Faculty/Staff Development /Training Program (Orientation programmes) Attended:

S. No.	Name of the Conferences/ Seminar	Attended/ Presented	Venue	Date (From – To)	Type of conferences/ Seminar (State level/National /International)
ACADEMIC YEAR 2019-2020					
1	“Design for Manufacturing, Assembly, Environment for Product Innovation & Optimization”	Attended	MCET	25.11.19 to 07.12.19	State level FDP
2	Lean Six Sigma Green Belt Course	Attended	MCET	19.08.2019-21.08.2019 & 26.08.2019-27.08.2019,	Organized at MCET, Department of Mechanical Engineering (COURSE)
3	Python 3.4.3	Attended	VIT Chennai	5.5.2020 to 9.5.2020	National Level FDP
4	Effective and Efficient Online Teaching in the Age of Corona: A Hands-On Workshop".	Attended	IIT Bombay	11.05.2020 to 16.05.2020	National Level Workshop
ACADEMIC YEAR 2020-2021					
1.	Advanced Manufacturing Systems	Attended	Sri Vasavi Engineering College	10.08.2020 to 14.08.2020	National Level FDP
2.	Emerging Research Areas in Aerodynamics	Attended	Bannari Amman Institute of Technology	03.08.2020 to 08.08.2020	National Level FDP
3.	Failure and Damage Mechanics of High Performance Engineering Materials-Phase-II	Attended	Anil Neerukonda Institute of Technology and Sciences	10.08.2020 to 15.08.2020	National Level FDP
4.	AnyLogistix Academic Workshop	Attended	anyLogistix supply chain software	20.03.2021 to 21.03.2021	International Level Seminar
5.	AnyLogistix training course	Attended	anyLogistix supply chain software	28.07.2020 to 31.07.2020	International Level Course

6.	Reliability, Maintainability and Quality Issues in Process Industries	Attended	Dr.B.R.Ambedkar National Institute of Technology	04.08.2020 to 08.08.2020	National Level FDP
7.	Computational and Experiments Studies on Failure of Materials	Attended	MCET	13.09.2020 to 17.09.2020	National Level FDP
8.	Computational Tools for Analysis of Biological Systems	Attended	Dr.B.R.Ambedkar National Institute of Technology	02.09.2020 to 06.09.2020	National Level FDP
9.	Contemporary Material Technologies	Attended	Dr.B.R.Ambedkar National Institute of Technology	08.09.2020 to 12.09.2020	National Level FDP
10	TEQIP-III Sponsored One Week Short Term Course on Data Analytics Tools and Techniques	Attended	Dr.B.R.Ambedkar National Institute of Technology	22.09.2020 to 26.09.2020	National Level STTP
11	Effective Research-Tools Funding and IPR	Attended	Hindusthan College of Engineering and Technology	07.09.2020 to 10.09.2020	National Level FDP
12	Recent Trends in Product Development	Attended	Jyothi Engineering College	10.08.2020 to 16.08.2020	National Level FDP
13	Modern Tools and Techniques for Effective Research and Publications	Attended	Dr.B.R.Ambedkar National Institute of Technology	21.08.2020 to 25.08.2020	National Level FDP
14	Non-Traditional Algorithm:Efficacious for Multi Objective Optimization	Attended	Park College of Engineering and Technology	03.08.2020 to 08.08.2020	National Level FDP
15	Impact and Strategies for Higher Education:Comprehensive Research Pedagogy, Methodology and Design	Attended	Dr.B.R.Ambedkar National Institute of Technology	17.08.2020 to 21.08.2020	National Level FDP
16	Online FDP on Bio-Mimetics	Attended	KavayitriBahinabaiChaudhari University	15.09.2020 to 19.09.2020	National Level FDP
17	Online FDP on 3D Printing and Design	Attended	Sathyabama Institute of Science and Technology.	24.08.2020 to 28.08.2020	National Level FDP





18	Digital Twin Technology for Industrial Automation Process	Attended	Sathyabama Institute of Science and Technology	05.10.2020 to 10.10.2020	National Level FDP
19	Advanced Manufacturing Systems	Attended	Sri Vasavi Engineering College	10.08.2020 to 14.08.2020	National Level FDP
20	3D Printing & Design	Attended	Maharshi Dayanand University	23.11.2020 to 27.11.2020	National Level FDP
ACADEMIC YEAR 2021-2022					
1	Data Analytics and Machine Learning Using Python	Attended	Rajiv Gandhi Proudhyogiki Vishwavidyalaya	12.07.2021 to 16.07.2021	National Level FDP
2	3D Printing and Design	Attended	Dr. Mahalingam College of Engineering and Technology	06.07.2021 to 10.07.2021	National Level FDP
3	Data Science	Attended	Punjab Engineering College	07.06.2021 to 11.06.2021	National Level FDP

Resource person in Various Program: Nil

Workshops Attended: Nil

Events organized:

Organized webinars on the following topics

-  “Emerging BS Norms in India-an innovative approach”,
-  “EV Adoption in Commercial Vehicles”,
-  “Future trends in Automotive Engineering and Technology”, and
-  “New trends in automotive sector and opportunities”

List of publications in international journals:

1. Pandithevan P and **Vinayaga Muruga Pandey N**, 2020 Multi-objective optimization for surgical drilling of human femurs with experimental validation: A methodology for strongest implant fixation, Journal of Mechanics in Medicine and Biology 2020 February; 20(01):1950072. (Indexed in SCI Expanded; Impact Factor 0.9).
2. Pandithevan P, **Vinayaga Muruga Pandey N** and Prasannavenkadesan, V., 2018 Investigation of bone drilling for secure implant fixation in human femurs: Taguchi optimization and predictive force models with experimental validation. Journal of Mechanics in Medicine and Biology. 2018 September; 18(06):1850061. (Indexed in SCI Expanded; Impact Factor 0.9).

3. Pandithevan P, **Vinayaga Muruga Pandi N** and Palanivel C., 2018 Development of In-situ Temperature prediction models from cadaveric human femur for bone drilling. Journal of Mechanics in Medicine and Biology. 2018 May; 18(03):1850026. (Indexed in SCI Expanded; Impact Factor 0.9).

List of Patents: Nil

Consultancy Work:

The following consultancy works are carried out

1. ABT Anylogistix Pidilite Project,
2. Developed CO3 “Root Cause analysis for Machining Defects” in the L&T Advanced Module Development for L&T Apprenticeship Training Programme
3. Developed and delivered Quality control and Quality assurance (CO1-CO8) in the L&T Advanced Module Development for L&T Apprenticeship Training

List of Courses Completed:

NITTT courses completed:

MODULE 1: Orientation towards Technical Education & Curriculum Aspects

MODULE 2: Professional Values, Ethics, Ecology & Sustainable Development

MODULE 3: Communication Skills, Modes and Knowledge Dissemination

MODULE 4: Instructional Planning and Delivery

MODULE 5: Technology Enabled Learning and Life long Self-learning