Prof. (Dr.) JaiGanesh Venu ME., MBA., Ph.D.

Google Scholar: https://scholar.google.co.in/citations?user=Ppw05OgAAAAJ&hl=en

ResearchGate: https://www.researchgate.net/profile/Venu Jaiganesh?ev=hdr xprf Scopus:

https://www.scopus.com/authid/detail.uri?authorId=55787081400

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Vidwan ID: <a href="https://vidwan.inflibnet.ac.in/profile/272736">https://vidwan.inflibnet.ac.in/profile/272736</a>

https://www.webofscience.com/wos/author/rid/C-2990-2017 Web of

Science Researcher ID: C-2990-2017

**SUMMARY:** Dedicated, resourceful and goal-driven professional educator with a solid commitment to the social and academic growth and development of every student with 25 years of experience in Teaching and Research.

#### About Dr. JaiGanesh Venu

Dr. JaiGanesh Venu is a distinguished academician, visionary leader, and interdisciplinary researcher with over 25 years of extensive experience in the fields of engineering education, academic administration, and applied research. He currently serves as the Principal of Tagore Institute of Engineering and Technology, where he plays a pivotal role in steering the institution toward academic excellence, student empowerment, and research innovation.

Throughout his illustrious career, Dr. Venu has held several key academic and administrative positions, including Professor of Mechanical Engineering at Bharath Institute of Higher Education and Research, Head of Department at G.S. Moze College of Engineering, Pune, and Research & Development Head at SA Engineering College, Chennai. He has also contributed significantly at JNN Institute of Engineering, Velammal Engineering College, and other leading institutions. A prolific researcher, Dr. Venu has published widely in both engineering and management domains. His research interests span mechanical systems, industrial optimization, and marketing strategy, emphasizing interdisciplinary application and real-world impact.

DR. JAIGANESH VENU has done extensive research work in the area of Material science and materials joining. He has very strong knowledge in materials science characterization analysis. Different materials and alloys like Aluminium, SS 305, Magnesium, Composites and Polymers are some of the materials in which he has published over 37 research papers in International Journals and 45 Papers Published in Conferences of repute, has successfully completed 1 research project under the RPS Scheme of Rs.13 Lakhs from AICTE, and 5 sponsored national seminar and conferences. He published paper in well-known journals like *Materials Science Forum*, *Materials Design*, *Transaction of Indian institute of metals* and achieves of metallurgy and materials science journals which has high impact factor to his credit. Knowledge about the surface characterization techniques and micro and macro analysis through (SEM, TEM, EDAX and Raman Spectroscopy) He has filed 7 patents to his credit and 2 published already. He is also a reviewer of reputed journals in his field. Dr. Ganesh interested in the field of Eco-Friendly Welding Techniques, Sustainable technology, Composite, Evolutionary optimization and Manufacturing Energy Management. He is the author of the text book 'Friction Stir Welding of Dissimilar Mg Alloys' (2017), by LAMBERT Academic Publishing, Verlag Publisher, with ISSNNo. 978-3-330-34854-7 and published 4 chapters from reputed Indian publication.

Dr. Ganesh received the Certificate of Excellence Award(2013), EET CRS Technology Achievement Awards & Mahatma Gandhi Gold Medal Award for excellence'(2014) for Outstanding individual achievement in Education from Global Economic Progress & Research Association (GEPRA), New Delhi, & Outstanding Faculty Award(2015), from Venus International Foundation &Best Academic Researcher Award (2015) ASDF Global Awards , & Best Professor Award(2016), ASDF & Research Excellence Award(2017), Institute for Exploring Advances in Science & Engineering-IEAE & Best Supervisor Award (2017), International Society for Scientific Research and Development –ISSRD. Innovative Scientific Research & Dedicated Professor (Mechanical Engg) award in 2018, Malaysia. Professional Academic Icon Award received from Institution of Engineers (IEI) in the year 2019, Chennai.

He is also a certified Chartered Engineer from IEI Kolkata and Member of ISTE and IEI. Dr. Ganesh is the **Editorial Board Member and Journal Reviewer** for many reputed journals with high impact factor including the Renewable and Sustainable Energy Reviews, Materials Design and Environmental Progress & Sustainable Energy, Elsevier publishers.

Dr. Ganesh is the recognized Supervisor for many universities and presently guiding 11 scholars and **completed 5 Ph.D.'s.** Dr. JaiGanesh, Telecasted the Technical Talk in the topics like "ECO Friendly FSW Welding" and "ECO –E-Bike "talks in the Program Called "Seekaram Thodu" in Vasanth TV, and the Program called SUU in Makkal TV, Vanamvasappadum in Jaya TV.

Dr. JaiGanesh Visited countries like **Bangkok**, **Thailand**, **Cambodia**, **Malaysia and Singapore** for his research discussion and for Paper Presentation in prestigious universities like NUS and NTU and has interacted with Professors and technical experts in his field of interest. Knowledge about preparing the documents for **NBA**, **NAAC**, **NIRF**, **I-G Quest (QS rankings** 

Dr. Venu earned his **Ph.D.** in **Mechanical Engineering** from **Anna University**, complemented by an **MBA** in **Marketing Management** from **IGNOU**, reflecting a rare and impactful combination of technical depth and business acumen. He further holds an **M.E.** in **Industrial Engineering** from **NIT Tiruchirappalli** and a **B.E.** in **Production Engineering** from the **University of Madras**. This strong academic foundation has enabled him to successfully integrate engineering concepts with strategic management practices in both his teaching and research pursuits.

Throughout his illustrious career, Dr. Venu has held several key academic and administrative positions, including Professor of Mechanical Engineering at Bharath Institute of Higher Education and Research, Head of Department at G.S. Moze College of Engineering, Pune, and Research & Development Head at SA Engineering College, Chennai. He has also contributed significantly at JNN Institute of Engineering, Velammal Engineering College, and other leading institutions. A prolific researcher, Dr. Venu has published widely in both engineering and management domains. His research interests span mechanical systems, industrial optimization, and marketing strategy, emphasizing interdisciplinary application and real-world impact.

With a deep passion for education, innovation, and institutional growth, Dr. JaiGanesh Venu continues to inspire future engineers, foster academic collaborations, and lead with integrity, vision, and purpose. His contributions have left a lasting impact on students, faculty, and the broader academic community

## Objective

- To apply over 20 years of academic and administrative experience toward enhancing institutional effectiveness and academic outcomes.
- To promote research-driven teaching methodologies that align with industry and societal needs.
- To mentor faculty and students in achieving personal, academic, and professional growth.
- To strengthen partnerships between educational institutions and industry for mutual development and innovation.
- To contribute to curriculum development, quality assurance, and strategic planning for sustainable academic growth.

#### Vision

- To lead transformative changes in higher education through academic innovation and excellence.
- To foster a student-centric learning environment that promotes critical thinking, creativity, and lifelong learning.
- To bridge the gap between academia and industry through interdisciplinary research and collaboration.
- To develop future-ready graduates with strong ethical values, technical proficiency, and leadership qualities.
- To position the institution as a center of excellence in engineering and management education at national and global levels.

## **Experience**

## Principal

## Tagore Institute of Engineering and Technology

February 2025 – Present | Tamil Nadu, India

- Leading overall academic and administrative operations of the institution.
- Driving institutional growth through strategic planning, quality assurance, and accreditation processes (NAAC, NBA, IET, ABET).
- Mentoring faculty and students while fostering a research-driven academic environment.

#### **Professor**

#### **Bharath Institute of Science and Technology**

🟢 November 2021 – November 2024 | 📍 Chennai

- Engaged in teaching core subjects in Mechanical Engineering.
- Contributed to curriculum development, research supervision, and publication in indexed journals.
- Coordinated departmental activities, faculty mentoring, and research collaborations.

# **Professor & Dean - Mechanical Mangalam College of Engineering**

- January 2019 June 2019 | ♥ Ettumanoor, Kerala
  - Headed the Mechanical Engineering department with focus on R&D initiatives.
  - Promoted academic excellence and innovation in teaching methodologies.

### Professor & Dean - Mechanical Genba Sopanrao Moze College of Engineering

- III June 2018 − January 2019 | Pune, Maharashtra
  - Oversaw academic operations and faculty development in the Mechanical department.
  - Strengthened industry-academia collaboration and guided project-based learning.

#### **Professor**

### S.A. Engineering College (Autonomous)

- iii November 2011 − April 2018 | Chennai
  - Led research and consultancy initiatives in the department.
  - Played a key role in applying for R&D funding, publishing scholarly papers, and enhancing student research engagement.

### **S** Education

# **Doctor of Philosophy (Ph.D.) – Mechanical Engineering Anna University**

Focused on advanced research in Mechanical Engineering with contributions to academic publications and innovations in R&D.

# Master of Business Administration (MBA) – Marketing Management Indira Gandhi National Open University (IGNOU)

Developed strategic and managerial skills in marketing, complementing technical expertise with business acumen.

## Master of Engineering (M.E.) – Industrial Engineering National Institute of Technology, Tiruchirappalli (NIT Trichy)

Specialized in systems optimization, production management, and industrial operations.

# **Bachelor of Engineering (B.E.) – Production Engineering University of Madras**

• Chennai | 1995 – 1999

Laid the foundation in mechanical and production engineering principles, setting the stage for a strong academic and professional career.

# **Academic/Administrative Responsibilities**

Position	Faculty/Department/ Institution	From	То
Board of Studies BOS Member	RIT, Chennai	2022	2024
Chief Superidentant-Biher	BIHER	2023	2024
Board Chariman	Anna University	2020	2022
R&D Coordinator	SA Engg College	2012	2014
HOD, Mechanical R&D Dean	GS Moze College of Engg	2018	2019

# Academic/Administrative Responsibilities outside the Institute

Position	Institution	From	То
Editorial Member	JAMES : "Physics Journal "Public Science Framework,	2015	Till date
PAC Member	SAEnggCollege, Sri Ram EnggCollege	2011	Till date
Journal Reviewer	RSER, Materials Design, Environmental Progress & Sustainable Energy -Elsevier Publications , ICTACT Journal on Soft Computing, ICT Academy of Tamil Nadu and JERA Journal, Transtech Publication (TTP), Switzerland. <a href="http://www.scientific.net">http://www.scientific.net</a>	2011	Till date
Ph.D. and M. Tech. Examiner	Anna University, Sathyabama University  AMET university, St.Peter's University	2009	Till date
NAAC Coordinator	Amet University	2019	Till date

## **Awards**

Year	Name of the Award	Awarding Organization
2014	Certificate of Excellence	EET CRS Technology Achievement
		Awards
2014	Mahatma Gandhi Gold Medal Award for excellence	Global Economic Progress & Research Association (GEPRA), New Delhi
2015	Outstanding Faculty Award	Venus International Foundation
2015	Best Academic Researcher	Association of Scientists, Developers and Faculties – ASDF Global Awards
2016	Best Professor Award	Association of Scientists, Developers and Faculties – ASDF Global Awards
2017	Research Excellence Award	Institute for Exploring Advances in Science & Engineering-IEAE Awards
2017	Best Supervisor Award	International Society for Scientific Research and Development –ISSRD
2018	Innovative Scientific Research & Dedicated Professor (Mechanical Engg. ) Award	The Society of Innovative Educationalist and Scientific Research Professional-Malaysia.
2019	Professional Academic Icon Award	Institution of Engineers (IEI)
2019	Most Promising Educator in higher education across India for the year 2019	uLektz Wall of Fame http://www.ulektz.com/news
2020	Outstanding Academic and Industry Professional Award 2020-Creative Pitch Deck IGEN NLLS Online Competition 2020	A medal & Recognition Certificate from Sir.Richard John Roberts (Nobel Prize 1993)

## **Certificate Courses**

1. Startup India Learning Programme No.13933948, Oct 17 2019 conducted by INVEST India, National Investment Promotion Policy.

**Memberships** 

Name of the Membership	Awarding Organization	Membership No.
Life Member	Indian Society of Technical Education –ISTE	(LM- 68239)
Life Member	Institution of Engineers –IEI	(M-142809-2)
Life Member	International Association of Engineers -IAENG	Mem-246822

## **Details Of Academic Work**

### **Curriculum Development**

#### Courses taught at Postgraduate and Undergraduate levels

#### Post Graduate level

- 1. Advanced Total Quality Management
- 2.Concurrent Management
- 3.Maintenance Management
- 4. Metrology and Non-Destructive Testing.

#### **Undergraduate level**

- 1. Machine Tools and CNC Machines
- 2.Manufacturing Technology
- 3. Quality Control and Reliability Engineering
- 4. Metal Forming Process
- 5. Computer Integrated Manufacturing
- 6. Total Quality Management
- 7.Engineering Economics and Cost Analysis
- 8. Unconventional Machining Processes
- 9. Design of Jigs, Fixtures and Press Tools
- 10. Applied Hydraulics and Pneumatics
- 11. Process Planning and Cost Estimation
- 12. Operations Research
- 13. Welding Technology

(i) Projects guided at Under graduate level (B.Tech Level)

	(1) Projects guided at Olider graduate lever (B. Fech Lever)	
S. No.	Title of Thesis	Year
1	Parametric optimization of aa5754 using friction stir welding	2019
2	Friction stir welding process parameter optimization of 6061 AL Alloy	2019
3	Friction stir welding of Magnesium alloy 91E alloy	2018
4	Investigation of Microstructure and Mechanical Properties of Friction Stir Welded Mg AZ91E Plates	2017
5	Analysing the Root Cause for Frequent Failure of Centrifugal Pump Shaft at Cooling Tower	2017
6	Optimization of Process Parameters and Micro Structural Analysis of AA5052 Aluminium Alloy	2016
7	Design and Fabrication of Pneumatic Panel	2016
8	Study of Mechanical Properties in Stainless Steel of Grade 316 Using TIG Welding	2016

	Design and Fabrication of Chuck for Friction Stir Welding Machine	2015
9	Design and Fabrication of Pneumatic Piercing Machine	2015
11		
12	Optimization of Process Parameters of FSW of 2014 Al Alloy	2015
13	Optimization of Process Parameter for Disimillar Alloys (AA 5083 & 5456) Using FSW	2015
14	Analysis of Process Parameters in Friction Stir Welding for 6061 Aluminium Alloy	2014
15	Implementation of Solar Energy in E-Bike	2014
16	Optimization of Friction Stir Welding in 6063-T6 and Magnesium Alloys	2014
17	Experimental Investigation on Improved Inclined Solar Desalination for Domestic Use	2014
18	Experimental Investigation of FSW on ABS Thermo Plastics Plates	2013
19	Optimization of Process Parameters on FSW From Acrylic Plastics	2013
20	Parametric Optimization of Resistance Spot Welding Using Evolutionary Algorithms	2013
21	Developing a Friction Stir Welding Using Conventional Milling Machine	2013
22	Design of Gripper for Gear Grinding Operation on Shaft Grinding Machine	2012
23	Modification and Design of Fixture for Main Shaft Pressing Machine	2012
24	Optimization of WEDM Process Parameters Using Desirability and Factor Analysis	2008
25	Multi-response Optimization on Face Milling Process Using Al-Si Composites	2007
26	Multi-response Optimization in Process Parameters of B.G. Collar Component Using Taguchi Techniques	2007
27	Optimization of Chip Thickness in Shaper Using Taguchi Technique	2006
28	Application to DOE to Reduce the Number of Rework in a Steering Gear Assembly Due to Ball Struck	2006
29	Selling Price Decision Support System for a Job Order Based Manufacturing Company	2005
30	Improvement on Manufacturing Barrels of Diesel Pumps	2005

# (ii) Projects guided at Postgraduate level (M.Tech/MBA Level)

S	Name of the students	Title of Thesis	Year
1	S.Kartheepan	Modelling and Human Ergonomic Analysis of an Integrated Assembly Line of Reciprocating Air Compressor	2016
2	Mano Priya E	A Study on the Effectiveness Employee Performance Management Systems	2009
3	Showers Joan.J	Growth of Finance in BPO Industry	2007
4	S.Elangovan	Full Value Sourcing Through Value Analysis/Value Engineering	2006

# (iii) Projects guided at Ph.D level (Doctorate Level)

S.No.	Name of the students	Title of Thesis	Year	Status
1	KALIVARATHAN G	Large eddy simulation studies in compression ignition engine	2012	Awarded
2	SEVVEL P	Effect of process parameters on mechanical properties and micro structural characteristics of az80a mg alloy during friction stir welding	2016	Awarded
3	GANDLA MANDAKAL RAMESH	A critical study to enhance the competitiveness of engineering educational institutions	2016	Awarded
4	RAMESHKUMAR C	Composite Materials	2013	Awarded
5	MANIKANDAN G	Composite Materials	2016	Awarded
6	VINOTHKUMAR M	Composite Materials	2016	Awarded

# Details of Major R&D Projects

S.No.	Designation	runding agency	Project Title	Cost in Lakhs	Year/ Status
1	Principal Investigator	AICTEResearch PromotionScheme- RPS- File.No.8023/RID/ RPS-37//2011-12 20.03.2012	Development of Eco friendly high strength friction stir welding	13.00	2012-14 Completed
2.	Coordinator	ISTE	Development of High Impact Teaching Skill in	SAEC Fund	2015

			Engineering Teaching		
3.	Coordinator	SAEC	International Workshop on Future Energy Resources	SAEC	2015
4.	Coordinator	CSIR	Nanofluids Characterization and Applications	20,000	2012
5.	Convener	CSIR- SYM/7046/11-HRD 26.03.2012	National Conference on Current Trends in Telematics	20,000	2012
6.	Convener	CSIR- SYM/6961/11-HRD 09.02.2012	Mordern Techniques in Material Charaterization and Material Testing	20,000	2012
7.	Coordinator	CSIR	Emerging Trends in the Research & Development of IC Engines	20,000	2010
8.	Convener	TNSCST	Synthesis and Characterization of Smart Materials		2010
9.	Coordinator	SREC	Innovative Techniques in Road Safety Management	SREC Fund	2010
10.	Convener	CSIR	Quantitative Research Techniques for Engineers and Researchers	25,000	2010
11.	Coordinator	CSIR	National Workshop in Composite Materials in Research and Industrial Applications	20,000	2010
12.	Convener	Science City	Popularization of Science Activities	5,000	2010
13.	Coordinator	Indira Institute of Engg& Tech	FDP on Mechanical Workshop	5,000	2010

Participation in Workshops/Symposia/Conferences/Colloquia/Seminars/Schools etc. (mentioning therole)

Date (s)	Title of Activity	Level of Event (Internation al/ National/ Local)	Role (Participant / Speaker/ Chairperson , Paper presenter, Any other)	Event Organize d by	Venue
	AICTE sponsored International Conference on Nanotechnology: Ideas ,Innovations and Initiatives	International	Presenter	Syad Ammal Engineering College	Mechanical Engg Seminar Hall Syad Ammal Engineering College
2019	Anna University Sponsored FDP on Engineering Mechanics-(GE8292)	Regional	Participant	Mech Dept	Vellammal Institute of Technology, Chennai
2019	2 <sup>nd</sup> International Conference on Recent innovation and developments in Mechanical Engineering	International	Presenter	Mech Dept	Bharat Institute of Higher Education and Research BIHER
2 <sup>nd</sup> Nov 2019	Workshop on Introduction to GT Power	National	Participant	Skill Lync	Skill Lync online Web course
	Workshop on Electric Power Train Control	National	Participant	Skill lync	Skill Lync
	3 <sup>rd</sup> International Conference on Technical Advances on Mechanical Engineering	International	Presenter	Mech Dept	AMET University

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30 <sup>th</sup> -31 <sup>st</sup> Aug 2019	workshop on Hands on training on composite Pre form formation techniques and their characterization for general engineering, Armour and Aerospace Engg	National	Participant	Mech Dept	St.Peters Insitute of Higher Education and Research, chennai
24th May 2018	Melting Pot 2018 NIRF and I-Guage QS Ranking Seminar	National	Participant	CL-Educate	The Park Hotel Chennai
4th -5th May 2018	International conference on Automobile, Marine and Mechanical Engg ICCAMME	International	Paper Presenter	SVCE	SVCE Auditorium, Sriperubudur, Chennai
Nov 23-24 2017	Advances in Polymers and Plastics Applications in Engineering and Technology	National	Participant	S A Engineering College	SAEC, Auditorium, Chennai
Nov 08-12 2017	Certificate course on Effective Patent Drafting (PATDRAFT-2017)	National	Participant	CII-TDPC	Anna University, Chennai
April 28-29 2017	Conference on Recent Advances in Mechanical Sciences	National	Paper Presenter	Rajalakshm iEngg College	Chennai
Mar 30-31 2017	Trends in Automotive Parts Systems and Applications	National	Paper Presenter	Sri Krishna College of Engg and Tech	Coimbattore
March 24- 25 2017	Future Technologies for Combat Vehicles –FTC2017	National	Participant	CVRDE Ruby Jubilee	Avadi, Chennai
Feb 4 <sup>th</sup> 2017	National Summit on Advancement and Automation of Accreditation for Higher Education in India	National	Participant	C-STAR IIR The Cidatel	Chennai
Dec 22 2016	Conference on Emerging trends in mathematical sciences-NCETMS 2016	National	Paper Presenter	SAEC	Chennai
Sep 26-28 2016	Workshop on Fabrication and Testing of Composite Materials	National	Participant	Navodaya Ins. Of Tech	Raichur

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May 1-3 2016	International Conference on Civil Engineering and Material Science – ICCEMS 2016	International	Paper Presente r	Internationa I Academy of Computer Technology –IACT	Singapore
April 9 <sup>th</sup> 2016	Workshop on INDO-UK workshop on water desalination	National	Participant	Anna University	Chennai
Jan 8 <sup>th</sup> 2016	Workshop on Latex	National	Participant	SAEC	Chennai
Sep 21 2015	International Conference on Engg and Scientific Innovations-2015	International	Participant	Mar Ephraem College of Engg and Tech	Elavuvilai
Oct 14 <sup>th</sup> 2015	Special Training on Quality and Six Sigma	National	Participant	New Prince ShriBhavani College of Engg& Tech	Chennai
Jun 24-27 2015	International Conference on Information System and Convergence Applications- ICISCA 2015	International	Paper presenter	University of Malaysia	Malaysia
Jun 13-15 2014	International Mechanical Engineering Congress IMEC-2014	International	Paper Presenter	NIT	Tiruchi
May 20-23 2015	FDP on Process Quality through Optimization Techniques and waste utilization in steel manufacturing	National	Participant	Ballari Institute of Tech &Mgmt	Ballari Karnataka
April 17 <sup>th</sup> 2015	Conference on Trends and Innovations in Mechanical Engg	National	Paper Presenter	Dr.M.G.R. Edu and Research Insitute	Chennai
Jan 21-24 2015	International Conference on Information and Convergence Tech for Smart Society	International	Paper Presenter	Bangkok	Thailand
Aug 22-24 2014	Indian Sustainablity Congress-2014	National	Participant	Nimhans Convention Center	Bangalore
Mar 8 <sup>th</sup> 2014	International conference on Recent Advances in Mechanical Engg and Interdisciplinary Developments – ICRAMID'14	International	Paper Presenter	Ponjesly College of Engg	Nagercoil, Tamilnadu

Mar 4 <sup>th</sup> 2014	Workshop on Multi- Objective Optimization	National	Participant	St.Joseph's College of	Chennai
Feb 21-22 2014	National Workshop on Emerging Trends in Nanomaterials for Engineering Application (ETNEA-2014]	National	Participant	Engineering MIT	Chennai
Feb 22 2013	Workshop on Friction Surfacing and Stir Welding of Ferrous Alloys (surstir'13)	National	Participant	SSN College of Engineering	Chennai
July 24-25 2013	Indian Technology Congress	National	Participant	NIMHANS Convention Center	Bengaluru
April 9-10 2012	Two days Training on Surface and Form Charaterization	National	Participant	VIT University	Vellore Tamilnadu
May 30 2012	Programme on Mind Without Fear	National	Participant	Anna University	Chennai
Sep 28 2012	Workshop on Nanofluids Characterization and Application	National	Participant	SA Engg College	Chennai
Oct 19 2012	Workshop on Mechatronics and Digital Manufacturing	National	Participant	CIPET	Chennai
Jan 7-8 <sup>th</sup> 2011	Workshop on Application of Intelligent Optimization Techniques Using MATLAB-7.0	National	Participation	Bannari Amman Institute of Tech	Erode, Tamilnadu
Dec 20 <sup>th</sup> 2010	Workshop on Eco-Friendly Welding Process	National	Participated	Annamalai University	Chidambaram
Oct 30 <sup>th</sup> 2010	Workshop on Research methods and methodology in Engineering and Management Education	National	Paper Presenter	SAMS college of Engg and Tech	Chennai
Aug 12-13 2010	Conference on Applications of Graph Theory, Fuzzy logic , Number theory and Combinatorics in Engg and Tech	National	Paper Presenter	Sri Ram Engg College	Chennai
Jul 28-29 2010	Workshop on Innovative Techniques in Road Safety Management	National	Participated	Sri Ram Engg College	Chennai
May 15 <sup>th</sup> 2010	Course on Composite Materials and their Applications	National	Participated	Madras Metallurgic al Society MMS	Chennai

May 6 <sup>th</sup> 2010	Seminar on "Guidelines to Sponsored Research Projects"	National	Participated	Dhanalash mi College of Engg	Chennai
Sep 18-19 <sup>th</sup> 2009	Workshop on Emerging trends in supply chain management ETSCM-2009	National	Participated	SVCE	Chennai
Aug 20-21 2009	Workshop on Nanotechnology	National	Participated	SSN College of Engg	Chennai
Jun 15-19 2009	Training Programme on Educational Management	QIP	Participated	NITTTR	Chennai
Mar 19-21 2009	Conference on EmergingResearch and Advances in Mechcanical Engineering ERA 2009	International	Paper Presenter	VelammalEn gg College	Chennai
Jan 23 & 24 2009	Workshop on Research Methodologies	National	Participated	VellammalEn gg College	Chennai
Aug 1 st 2008	FDP on Task Oriented Teaching	National	Participated	VellammalEn gg College	Chennai
Jul 4-5 2008	Workshop on Virtual Instrumentation using Labview	National	Participated	VellammalEn gg College	Chennai
April 28- May 3 <sup>rd</sup> 2008	Workshop on Energy Conservation and Measures in Manufacturing and Process Industries	National	Participated	DRDO&BRNS St.PetersEngg College	Chennai
Feb25 -29 2008	Short term Course on Advanced Tools and Techniques for Research in Engineering Problems	National	Participated	NIT	Tiruchi Tamilnadu
Jan 16-20 2008	Conference on Applied Multivariate Data Analysis with Applications to Life, Social and Environmental Sciences	International Instructional Workshop	Participated	Osmania University	Hyderabad
Aug 11 <sup>th</sup> 2007	Workshop on Emerging Trends in Manufacturing Technology	National	Participated	St.Joseph's College of Engg	Chennai

July 16-17 2007	Workshop on Virtual Instrumentation using NI Labview	National	Participated	St.PetersEn gg College and TechLabs	Chennai
Mar 26-30 2007	STTP on Product and Process Optimization Using Taguchi Technique	National	Participated	Kumaraguru College of Tech	Coimbattore
Mar 12-24 2007	STP on Learning Systems in Intelligent Control: An appraisal of Fuzzy, Neural and Genetic Algorithms	National	Participated	St.PetersEng g College, AICTE sponsored	Chennai
Dec 15-16 2006	Conference on Recent Advances in Materials and Processing (RAMP-2006)	International	Paper Presenter	PSG Tech	Coimbatore Tamilnadu
Oct 25 <sup>th</sup> 2006	Conference on Low Cost Automation – Current Trends	National	Participated	PSG Tech	Coimbatore Tamilnadu
Sep 29-30 2006	Workshop on Composite Materials	posite National Participated NIT		NIT	Tiruchi Tamilnadu
Aug 4-6 2006	Seminar on Fuzzy Logic Technology in Industrial Applications	National	Participated	KonguEngg College	Erode, Tamilnadu
Jul 21-22 2006	Workshop on Quality Engineering in Manufacturing	National	Participated	NIT	Tiruchi Tamilnadu
Jul 10-15 2006	Training Programme on Instructional Design and Delivery	QIP	Participated	NITTTR	Chennai
June 9-10 2006	Workshop on Optimization Algorithms for Manufacturing Applications	National	Participated	NIT	Tiruchi Tamilnadu
May 5-6 2006	Workshop on Modern trends in Product Design	National	Participated	KCG College of Engg	Chennai
Mar 17- 18 2006	Conference on Modelling and Simulation in Manufacturing – MOSIM 2006	National	Paper Presenter	Annamalai University	Chidambaram Tamilnadu
Mar 1- 3 <sup>rd</sup> 2006	Seminar on Human Rights in the Age of Globalization	Regional Seminar	Participated	St.PetersEng g College	Chennai

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Feb 18 <sup>th</sup> 2006	Seminar on Precepts and Practices of Total Quality Management	National	Participated	IIPE and NIQR	Chennai
Dec 5-7 2005	Quantitative Techniques for research in Engg and Mgmt	Center for Faculty Development	course	Anna University	Chennai
Nov 25 <sup>th</sup> 2005	Workshop on Software Quality & Reliability	Center for Faculty Development	course	Anna University	Chennai
March 18th 2005	Workshop on Personality Development	National	Participation	Sai Ram Engg College	Chennai
Nov 29-30 2004	Team Building and Conflict Resolution	Local	SDP	St.Peter'sEn gg College	Chennai
Sep 27-28 2004	Int.Mgmt.Con On The Theme "India Calls World- A Road Map to Success" Technical and Management education service providers of nations	International	Paper Presenter	Adaikalama dhaIns.Of.M gmt	Thanjavur Tamilnadu
Sep 17 <sup>th</sup> 2004	Workshop on Neural Networks and Fuzzy Technology	National	Participant	MNM Jain Engg College	Chennai
Sep 5-7 2004	Technical Manpower Planning in India- Issues and Concerns	National	Paper Presenter	JNTU	Hyderabad
Aug 27 2004	One day Workshop on Programme of Environment and Pollution Awareness	National	Participant	KonguEngg College	Erode, Tamilnadu
July12th 2004	Workshop on Environment Pollution Awareness	National	Participant	R.M.K Engg College	Chennai
Jul 9-10 2004	Global Technologies in Manufacturing and Thermal Sciences-GTMTS- 2004	National	Paper Presenter	Sethu Institute of Tech	Virudhunagar Tamilnadu
June 11 <sup>th</sup> 2004	Workshop on Programme of Environment and Pollution Awareness	National	Participant	Jaya Engg College	Tiruninravur, Tamilnadu

June 5 2004	- Emeraina trenas in I		Paper Presenter	Crescent Engg College	Chennai
May 24-29 2004 Course on Mechatronics		Center for Faculty Development	Short term course	Anna University	Chennai
Feb 25-26 2004	Reengg Teaching Skills	Center for Faculty Development	Short term course	Anna University	Chennai
Jan 10, 2004	National Level Technical Seminar- Vibranz'04	ISTE Chapter	Paper Presenter	MepcoSchel enkEngg College	Sivakasi, Tamilnadu
Nov 15-16 2003	Non Destructive Techniques	Center for Faculty Development	FDP	Anna University	Chennai
Sep 19-20 2003	Effective Teaching Techniques	Local	Training Programme	M/s Super Educational & Training Services	St.PetersEngg College, Chennai

Arranged the Invited lectures of the following Distinguished Professionals at various Engineering College for the benefit of students and Faculty members					
Date	Name	Affiliation			
5th June'2017	Dr.A.Ramesh	Assistant Professor, IIM-Roorkee			
4thJuly 2012	Dr .Asit Baran Mandal	Director,CLRI-Chennai			
30 <sup>th</sup> March 2012	Mr.Maheswaran	Caterpillar India Pvt Limited			
25 <sup>th</sup> Feb 2012	Mr.Balakrishnan	Caterpillar India Pvt Limited			
29 <sup>th</sup> July 2010	Mr.Mahali	IG- Chennai			
	the benefit of  Date  5th June'2017  4th July 2012  30th March 2012  25th Feb 2012	the benefit of students and FacultDateName5th June'2017Dr.A.Ramesh4th July 2012Dr.Asit Baran Mandal30th March 2012Mr.Maheswaran25th FebMr. Ralakrishnan			

# **Invited Talks delivered**

Sr N o	Title of the talk delivered with date	Title of Conference / Seminar held on	Organized by
1.	Computer Integrated Manufacturing and its real time applications in Manufacturing	Keynote address Symposium on Smart Solution for S&T for Industrial Needs	Sri Ram Polytechnic College Veppampattu, Tamilnadu
2.	International Conference on Advances in Mechanical and Energy Engineering	Session Chair	Dr.M.G.R.University 4-5 <sup>th</sup> April 2013
3.	International Conference on Material and Manufacturing Technology (ICMMT 2017)	Technical Committee	Singapore May 4- 6, 2017

# **Academic Foreign Visits**

Country	Duration of Visit	Programme
Singapore	May 2016	Technical Talk International Conference on Civil Engineering and Material Science – ICCEMS 2016
Malaysia	Jun 2015	Paper Presenter in the International Conference on Information System and Convergence Applications- ICISCA 2015
Singapore	May 2017	Technical Chair- International Conference on Material and Manufacturing Technology (ICMMT 2017)
Bangkok, Thailand	April 1-4'2018	ICTMT Conference
Combodia	April2-2018	ICMMM Conference

## **Publications**

# (A) Text Book:

S.N	Title	Author's Name	Publisher	Year of
0				Publication
1.	Book: Friction Stir Welding of Dissimilar Mg Alloys	P.Sevvel  and  Dr.V.Jaiganesh	Lambert Academic Publishing ISBN:978-3-330-34854- 7	2017
2.	Book Title:  Advanced Engineering Research and Applications (AERA) Chapter 2 Friction Stir Welding :Process Parameters, defects & experimental modeling	Dr.P.Sevvel  and  Dr.V.Jaiganesh	Research India Publications, New Delhi	2017
3.	Book Title:  Introduction to Mechanical Engineering (IME), Chapter: 5 Influence of Tool Profile during FSW of MG Alloy using Optimized Parameters	Dr.P.Sevvel and Dr.V.Jaiganesh	Research India Publications, New Delhi	2017
4.	Chapter: Globalisation and Manpower Planning	V. Jai Ganesh and S. Needhidasan	New Delhi, Discovery ISBN 81-8356-036-9. http://www.vedamsboo ks.com/no43388.htm	2005
5.	Chapter: Impact on globalization on manpower planning	S. Karthikeyan, S. Needhidasan and V. Jai Ganesh	New Delhi, Discovery ISBN 81-8356-036-9. http://www.vedamsboo ks.com/no43388.htm	2005

# (B) Refereed Research Journals:

	Research Publications in Journals						
	Sl. N Authors		Journal	Page No.			
	1.G.Manikandan,	Eco-Friendly Reinforced	International	Vol. 12(2)			
	V.Jaiganesh, R.Ravi raja Malarvannan, M.Vinoth kumar	Composites made from Tamarindus Indica with epoxy and bisphenol resin	Structures and systems	16162-166, 2020			
	V.Jaiganesh, RRR Malarvannan, G.Manikandan &S.Krishnamoorthy	Investigation of the Mechanical Properties of Nautral fibre reinforced composites of morinda citrifolia with epoxy and bisphenol resin	/journal of Recent Technology and	ISSN 2277- 3878 Vol.8 Issue-1S2, 2019.pp.111- 116			
	Vinoth Kumar .D, V.Jaiganesh, R.R.Malarvannan	Effects of surface modified pine apple fibre reinforced Micro B <sub>4 </sub> C and CTBN rubber particle toughened epoxy hybrid Composites in mechanical, image damage, thermal and water absorption behavior	Materials Research Express, IOP, Scopus, (SCI- Journal)	https://doi.or g/10.1088/20 53- 1591/ab4e03 2020			
4.	V.Jaiganesh	Renewable source of energy demands through production of bio-gas from vegetable and food waste	International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075,	Volume-9, Issue-1, November 2019 pp.5450-5451 Scopus Indexed			
	C.Rameshkumar, <b>V.Jaiganesh,</b> R.R.Malarvannan	Optimization of drilling parameters in hybrid (AI6061/SiC/B4C/Talc) composite by grey relational anlaysis	Journal of the Brazlian Society of Mechanical Sciences and Engineering, (Springer) Scopus, (SCI-Journal)	Vol.41:155 <b>2019</b>			
6.	G.Manikandan, <b>V.Jaiganesh</b> , Ravi Raja Malarvannan	Mechanical, thermal stability and water uptake behavior of silane modified chitosan and morindacitrifolia fibre-reinforced epoxy bio-composite	Materials Research Express, IOP, Scopus, (SCI- Journal)	In- Press (2019) http://doi.org /10.1088/20 53 - 1591/ab0566			
		Influence of tool rotational speed on microstructural characteristics of dissimilar Mg alloys during friction stir welding	Transactions of the Canadian Society for Mechanical Engineering <b>Scopus, (SCI-Journal)</b>	Vol. 43, No. 1 : pp. 132-141. <b>2019</b>			
8.	V. Jaiganesh I.S. Stephan Thangaiah, P. Sevvel, C. Satheesh,	Investigation on the impingement of parameters of FSW Process on the Microstructural Evolution &Mechnical Properties of AZ80A Mg Alloy Joints	FME, Transactions SCOPUS	Vol.46, 23-32, 2018			
9.	V.Jaiganesh, D.Srinivasan and P.Sevvel	Optimization of Process Parameters on Friction Stir Welding of 2014 Aluminium Alloy Plates	International Journal of Engineering and Technology SCOPUS	Vol.7(1.1) 9-11, 2018			

10.	Jaiganesh	Investigation on evolution of microstructures and characterization during FSW of AZ80A Mg alloy	Archives of Metallurgy and Materials <b>Web of Science &amp; SCI</b>	62.No.3 1779-1785 2017
11	P. Sevvel& V. Jaiganesh	Influence of the arrangement of materials and microstructural analysis during FSW of AZ80A & AZ91C Mg alloys.	Archives of Metallurgy and Materials <b>Web of Science &amp; SCI</b>	62.No.3 1795-1801 2017
12.	P. Sevvel& V. Jaiganesh	Effects of axial force on the mechanical properties of AZ80A Mg alloy during friction stir welding	Materials Today Proceedings SCOPUS	4 1312-1320 2017
13	V. Jaiganesh, S. GovindVignesh, S.M. Vignesh	Investigation on Micro structural and mechanical properties of Friction Stir Welded AZ91E Mg Alloy	Materials Today Proceedings SCOPUS	4 6704-6711 2017
14	R.Sunil Solomon, P.Sevvel, V.Jaiganesh and C.Satheesh	An Investigational Review on Influence of Performance Parameters during Wire Electrical Discharge Machining of Various Grades of Steels	Journal of Advanced Research in Dynamical & Control Systems SCOPUS	Vol9.No5 101-109 2017
15	I.S.StephenThangaiah, P.Sevvel, V.Jaiganesh and C.Satheesh	An Experimental Review on Joining of High Strength Alloys under the Influence of Tool Material & Geometry Using FSW Process	Journal of Advanced Research in Dynamical & Control Systems SCOPUS	Vol9.No5 82-90 2017
16.	V. Jaiganesh, C.Satheesh, S.Manova Raja Singh, P.Sevvel and A.J.Balaji	Optimization of Process Parameters on Commercial Mild Steel Using Regression and Principal Component Analysis	International Journal of Pure and Applied Mathematics SCOPUS	Volume 117 No. 20 741-758 2017
17.	I.S. Stephan Thangaiah, P. Sevvel, C. Satheesh, S. Manova Raja Singh and V. Jaiganesh	Numerical and Statistical Analysis for Betterment of Mechanical Properties During FSW of AZ31B Mg Alloys	International Journal of Pure and Applied Mathematics SCOPUS	Volume 117 No. 7 359-369 2017
18.	V. Jaiganesh, P.K. Nagarajan, P. Sevvel,J. Dhileep Kumar and S. Manivannan	Impact of Tool Pin Geometry and Optimized Process Parameters onMechanical Properties of Friction Stir Welded AZ80A Mg Alloy	Materials Science Forum SCOPUS	Vol. 866 151-155 2016
19.	P. Sevvel& V. Jaiganesh	Impact of process parameters during friction stir welding of AZ80A Mg alloy	Science and Technology of Welding and Joining <b>Web of Science &amp; SCI</b>	21 83-90 2016

20.	V. Jaiganesh and P. Sevvel	Effect of Process Parameters on the Microstructural Characteristics and Mechanical Properties of AZ80A Mg Alloy During Friction Stir Welding.	T Indian I Metals, <b>Web of Science &amp; SCI</b>	68 99-104 2015
21.	V.Jaiganesh, J.Dhileep Kumar, J.Girija Devi	Replacement of Intervertebral disc in Spine by Poly (ethylene glycol) – diacrylate (PEGDA) material through Stereolithography.	Biomedical Research SCOPUS	26 (4) S22-25 2015
22.	V.Jaiganesh, S.Manivannan, B.Maruthu	Rapid Prototyping of Polymethyl Methacrylate as Replacement and Support of Spine in Human	Biomedical Research SCOPUS	26 (4) S62-65 2015
23.	R.Praveen, V.Jai Ganesh	Design Analysis of Circular External Tiba Fixator to Reduce the Stress on Bone	Biomedical Research SCOPUS	26 (4) S26-28 2015
24.	P. Sevvel and V. Jaiganesh	Effect of Tool Shoulder Diameter to Plate Thickness Ratio on Mechanical Properties and Nugget Zone Characteristics During FSW of Dissimilar Mg Alloys	T Indian I Metals  Web of Science & SCI	68 41-46 2015
25.	R. Sathyamurthy, P.K. Nagarajan, S.A. El- Agouz, V. Jaiganesh and P.SathishKhanna	Experimental investigation on a semi-circular trough-absorber solar still with baffles for fresh water production	Energ Convers Manage <b>SCI</b>	97 235–242 2015
26.	R. Sathyamurthy, D.G. Harris Samuel, V. Jaiganesh and P.K. Nagarajan,	Experimental investigation of a semi circular trough solar water heater	App Sol Energ <b>SCI</b>	51, No.2 94-98 2015
27.	Praveen. R, V. Jaiganesh, A. Senthil Kumar	Current Trends In Rapid Prototyping For Bio Medical Applications Current State And Perception	Journal of Chemical and Pharmaceutical Sciences SCOPUS	9 309-311 2015
28.	Ramesh .G.M Jaiganesh .V	Importance of Accreditations and Development of Suitable Model for EEIs for Better Governance and Management	International Journal of Applied Engineering Research SCOPUS	Vol.10, No.4 10095-10100 2015
29.	Saravanan, K., Senthil Kumar, M., Venkatachalam, P., Jaiganesh, V.	Mechanical behavior and microstructure evaluation in aluminum (Al) and born carbide (B4C) composite process through equal-channel angular	International Journal of Applied Engineering Research SCOPUS	Vol.10, No.1 1555-1564 2015

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30.	V. Jaiganesh, P.K. Nagarajan, A. Geetha	Solid state bio methane production from vegetable wastes Current state and perception	Renew Sust Energ Rev WOS/SCI	40 432-437 2014
31.	P. Sevvel and V. Jaiganesh	Experimental Investigation on the impact of the Tool Material & geometry in joining of Al 63400 Alloy using Friction Stir Welding Process	Applied Mechanics and Materials SCOPUS	592-594 312-315 2014
32	V. Jaiganesh P. Sevvel	Improving the mechanical properties of friction stir welded AZ31B magnesium alloy flat plates through axial force investigation	Applied Mechanics and Materials SCOPUS	591 11-14 2014
33.	V. Jaiganesh	Effect of process parameters during friction stir welding of Al 6063 alloy	Advanced Materials Research SCOPUS	Vols. 984-985 604-607 2014

http://orcid.org/0000-0003-3131-5518 https://www.webofscience.com/wos/author/rid/C-2990-2017

Web of Science ResearcherID: C-2990-2017

## **Patents**

S.No	Patent Title	Name of Applicant(s)	Patent No.	Award Date
1.	An Innovative Eco friendly Hybrid transport device for physically challenged people	I III P SOUVOI	E-2/3809/2016- CHE Date of Filing:29/12/16	No:201641044804A No of Pages:17
2.	A Portable Hybrid Powered Intelligent Special Multiplex Prospect Machine		E-2/996/2017- CHE Date of Filing.10.04.17	<b>Published 14/12/2018</b> Appln.No.201741012731 A No. of Pages:30 No of Claims:9

3.	IOT based Solar powered drainage channels and water bodies cleaning device	V.Jaiganesh	E-2/2130/2017- CHE Date of Filing.10.07.17	Published 25/01/2019 Application No.201741025414 A No.of Pages:28 No.of Claims:10 PP:3724
4.	Innovative IOT enabled food storage tower	V.Jaiganesh P.Sevvel	E-2/2800/2017- CHE	Granted 10 Years
5.	Innovative IOT enabled food storage tower	V.Jaiganesh	DESIGN PATENT	Ongoing
∖6.	Innovative Tiffen Box	V.Jaiganesh	DESIGN PATENT	Ongoing
7.	Smart Solar Walk way for Energy Generation	Dr.V.Jaiganesh N.Nagabhooshanam	Appl.No.201941 025109 A	Date of Filing 2/8/2019
8.	Fabrication of vehicle structural pads made by morinda citrifolia and pterospermum acerifolium	Mr.G.Manikandan Dr.V.Jaiganesh	App.no.2018410 4219	Date of Filing 11/09/2018 Date of Publish: 15/5/2020

Approved Associate Professor at Savitribai Phule Pune University No: 180900666 dt.13.02.19.

- Editorial board member/peer reviewer: "Physics Journal "Public Science Framework
- Editorial Board: Journal of Advances in Mechanical Engineering and Science (JAMES)
- Reviewer: JERA Journal, Transtech Publication (TTP), Switzerland. http://www.scientific.net
- Reviewer: Renewable and Sustainable Energy Reviews, Elsevier Publications
- Reviewer: Materials Design, Elsevier Publications
- Reviewer: Environmental Progress & Sustainable Energy, Elsevier Publications
- Reviewer: ICTACT Journal on Soft Computing, ICT Academy of Tamil Nadu.

#### Administrative Works and responsibilities

- Acting on the Principal's behalf in his/her absence.
- Providing effective instruction to students in line with course and program goals. Fulfils workload assignments for both classroom instruction and out-of-class responsibilities.
- Preparing course materials using appropriate teaching techniques and performs other activities related to the requirements of the curriculum.
- Developing and utilizes available learning resource facilities, using IT tools.
- Providing leadership in curricular development in the department or appropriate area.
- Providing leadership for co-curricular activities.
- Serving on department and college committees as needed to assist in development of matters benefiting the

institution.

- Monitoring and reviewing student attendance and examination results.
- Is accessible to students to discuss and resolve issues or problems, to counsel if necessary and maintain an effective learning atmosphere in the institution.
- Acted as a judge for Student symposiums and paper presentations in different College.
- Providing input on policy and procedure issues for the college.
- Providing input on budget needs for the campuses.
- Managing and administering college of education programs.
- Representing the college with various educational programmes outside the campus.
- Coordinating faculty assignments and external programmes.
- Coordinating and assist the principal in performance appraisal and offer constructive performance feedback; observes classes, co-ordinate faculty peer assessment.
- Implementing college policies and procedures.
- Ensuring appropriate publicity for the college and courses offered.
- Maintaining office hours and is available for student tutoring, and academic and career advisement.
- Conducting evaluations of student performance and assigns grades on the basis of such evaluations.
- Upgrading professional skills and subject expertise through continual study, research and publishing in discipline.
- Keeping up professional responsibilities through active participation in professional bodies.
- Developing a personal professional development plan.