

# P.S.Gowthaman

**Address** : No.23, 2nd Main Road, Thirunagar, Ponmalai, Trichy-620004, Tamil Nadu  
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## Carrier Objective

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To pursue a challenging career in the institutions, utilizing my skills for the growth of my organization, which in turn provides an environment where ethics and talent regain supreme, leading to personal and professional growth.

## Education Qualification

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<b>Ph.D (Mechanical Engineering)</b> Anna University, Chennai <b>CGPA 7.85/10</b>	2018-2023
<b>M.E (Manufacturing Engineering)</b> Sri Ramakrishna Engineering College, Coimbatore <b>CGPA 7.08/10</b>	2012-2014
<b>B.E (Mechanical Engineering)</b> Periyar Maniammai University, Thanjavur <b>CGPA 8.67/10</b>	2008-2012
<b>H.S.C</b> Railway Mixed Higher Secondary School, Trichy <b>Percentage: 60%</b>	2006-2008
<b>S.S.L.C</b> Infant Jesus Matriculation Higher School, Trichy <b>Percentage: 65%</b>	2004-2006

## Professional Experience

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<b>Assistant Professor</b> , Department of Mechanical Engineering KCG College of Technology, Chennai	Jul 2025-Till date
<b>Associate Professor</b> , Department of Mechanical Engineering S.B.M College of Engineering and Technology, Dindigul	Sep 2022-May 2024
<b>Assistant Professor</b> , Department of Mechanical Engineering P.S.N.A College of Engineering and Technology, Dindigul	June 2016-Sep 2022
<b>Assistant Professor</b> , Department of Mechanical Engineering V.S.B Engineering College, Karur	July 2014-Oct 2015

## Research Interests

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Additive Manufacturing, Welding Technology, Manufacturing Processes, Robotics and Computational Modelling

## Courses Taught

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Engineering Graphics  
Fluid Mechanics  
Computer Aided Design  
Metrology & Measurements  
Manufacturing Processes  
Engineering Materials & Metallurgy  
Automobile Engineering  
Mechatronics  
Automation & Robotics  
Research Methodology & Intellectual Property Rights

## Software Skills

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Auto-CAD, CATIA, ANSYS, Design of Expert, Minitab and Matlab

## Research Activities

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### International and National Journal Publications

1. P.S.Gowthaman, S.Jeyakumar, Priyam Kashyap Sarmah "An experimental investigation on the effect of wire diameter on Improving Microstructure and Mechanical performances of Wire arc additively manufactured AISI 304L Stainless steel thin wall structure" *Joun. Mat. Engg & Perf*, 2025.
2. P.S.Gowthaman, S.Jeyakumar & DT Sarathchandra "Development of Microstructure Features and Mechanical Properties of AISI 317L Stainless steel Produced by Wire arc Additive Manufacturing" *Proc. Inst. Mech. Eng. Part-E Jour. Proc. Mech. Engg*, 2025.
3. P.S.Gowthaman, S.Jeyakumar & DT Sarathchandra "Experimental study of Shielding gas concentration on Mechanical properties of Stainless steel alloy parts using Wire Arc Additive Manufacturing" *Proc. Inst. Mech. Eng. Part-E Jour. Proc. Mech. Engg*, 2024.
4. P.S.Gowthaman & DT Sarathchandra "Experimental study on the Heat input Behavior of Wire Arc Additively Manufactured 316L Stainless steel parts for Repair applications" *Proc. Inst. Mech. Eng. Part-E Jour. Proc. Mech. Engg*, 2024.
5. P.S.Gowthaman & S.Jeyakumar "Study on Heat input effect of 316L Stainless steel thin-walled parts processed by Wire Arc Additive Manufacturing" *Joun. Mat. Engg & Perf*, 2024.
6. P.S.Gowthaman & S.Jeyakumar "Experimental characteristics of 316L stainless steel thin wall processed in Wire based Arc Additive Manufacturing Process" *Proc. Inst. Mech. Eng. Part-E Jour. Proc. Mech. Engg*, 2023.
7. P.S.Gowthaman & DT Sarathchandra "Effect of heat input on Microstructure and Mechanical Properties of 316L Stainless steel Fabricated by Wire Arc Additive Manufacturing" *Joun. Mat. Engg & Perf*, 2023
8. P.S.Gowthaman & M.Bhoominathan "Effect of various parameters of Stainless Steel 316L Weld Bead Geometry using CMT Process" *Joun. Min, Met & Fue*, 70, 2022.
9. P.S.Gowthaman & S.Jeyakumar "Influence of heat input on microstructure and mechanical behavior of austenitic stainless steel 316L processed in WAAM" *Proc. Inst. Mech. Eng. Part-E Jour. Proc. Mech. Engg*, 236. 149-161 2022.

10. P.S.Gowthaman & S.Jeyakumar "A Critical review on Non-destructive evaluation on additive manufacturing components", *AIP Conf. Proc.*, 2460,020008 2022.
11. P.S.Gowthaman & B.A.Saravanan "Determination of Weldability study on Mechanical properties of dissimilar Al-alloys using Friction stir welding". *Mat. Proc.*, 44. 206-212, 2021.
12. P.S.Gowthaman & N.Nagasundaram "A study of Machining characteristics of AISI 4340 alloy steel by Wire-EDM process", *Mat. Proc.*, 27. 565-570, 2020.
13. P.S.Gowthaman, S.Jeyakumar & B.A Saravanan "Machinability and tool wear mechanism of duplex stainless steel-A review", *Mat. Proc.*, 26. 1423-1429, 2020.
14. P.S.Gowthaman & B. A Saravanan "A Scenario on Dry-WEDM and WEDM for Industrial Applications", *Adv. Mat. Res.*, 1156, 34-42, 2017.
15. P.S.Gowthaman & S.Jeyakumar, "A Review on Machining of High Temperature Aeronautics Super-alloys using WEDM", *Mat. Proc.*, 18. 4782–4791, 2019.
16. P.S.Gowthaman & J.Gowthaman, "A Weldment characteristics on Friction stir welding process for ship-building materials", *IOP Conf. Ser, Mat. Sci & Engg*, 455. 2018.
17. P.S.Gowthaman, "Metallurgical characteristics of Al-Mg 5086 using a Friction stir welding", *Int. Jou. App. Engg. Res.*, 10. 2015.
18. P.S.Gowthaman & S.Sathish, "Analysis of Segmental and Helical baffles in shell and tube heat exchanger", *"Int. Joun. Cur. Engg & Tech.*, 2014.

### International and National Conference

1. P.S.Gowthaman (2025), "Studies of Process parameters on the microstructure and mechanical analysis of 304SS produced by GTAW-based AM process" (TEPIC-25) organized by Central Institute of Petrochemical Engineering and Technology (CIPET), Chennai, India.
2. P.S.Gowthaman (2025), "Effect of Process parameters on the characteristics of Wire arc additive manufactured stainless steel parts" (ICRTME 2025) organized by VISTAS, Chennai, India.
3. P.S.Gowthaman (2025), "Experimental Investigation on Microstructure characteristics and Mechanical Properties of AISI 316L Stainless steel by GTAW Process for Remanufacturing applications" (ICFMAM-2025) organized by St. Peters College of Engineering & Technology, Chennai, India.
4. P.S.Gowthaman (2024), "Experimental Investigation of the Effect of Argon shielding gas on Austenitic stainless steel using TIG welding Process" (CRATE-2024) during (26-4-2024 to 27-4-2024) organized by VEMU institute of Technology, Chittoor, India.
5. P.S.Gowthaman (2024), "Experimental Investigation on Effect of Pulse Current Welding Parameters on Microstructure and Mechanical Properties of ASS components by GTAW based Additive manufacturing" (ICAMEA-2024) during (15-4-2024 to 16-4-2024) organized by Andhra Loyola Institute of Engineering & Technology, Vijayawada, India.
6. P.S.Gowthaman & S.Jeyakumar (2023), "Effect of heat input on tensile properties of WAAM 316L SS" (ALACT-23) during (3-11-2023 to 4-11-2023) organized by IIW Jamshedpur, India.
7. P.S.Gowthaman & S.Jeyakumar (2023), "Current Status and Perspectives of Wire Arc Additive Manufacturing of Austenitic Stainless Steel" (ICCRAME-2023) during (24-3-2023 to 25-3-2023) during (24-3-2023 to 25-3-2023) organized by RIT, Rajapalayam, India.
8. P.S.Gowthaman & S.Jeyakumar (2022), "A Review of the WAAM of Stainless steel: Microstructure, Mechanical Properties and Defects" (NCAMMT-22) during (16-12-2022) organized by Karpagam Academy of Higher Education, Coimbatore, Tamil Nadu, India.

9. P.S.Gowthaman (2022), "Effect of Process parameters on the Microstructure and Mechanical properties of Selective laser melting of 316L stainless steel deposited parts" (LAMP-2022) during (29-8-2022 to 31-8-2022) conducted by IIT, Kharagpur, India.
10. P.S.Gowthaman (2022), "Metallurgical characterization of Stainless steel 316L WAAM fabricated component using CMT mechanism" in virtual mode (ICFTMME-2022) during (19-8-2022 to 20-8-2022) conducted by SRM IST, Delhi-NCR Campus, Ghaziabad, India.
11. P.S.Gowthaman (2022), "Evolution of Microstructural characterization and Mechanical properties of Stainless Steel 316L processed by WAAM" in virtual mode (ICAMAT-2022) during (10-6-2022 to 11-6-2022) conducted by NIT Trichy, India.
12. P.S.Gowthaman (2022), "Effect of Various parameters on SS 316L components fabricated by WAAM process" (AMAD-2022) during (02-06-2022) conducted by NDRF, Bangalore.
13. P.S.Gowthaman (2022), "Effect on Various parameters of stainless steel 316L weld bead Geometry using Cold Metal Transfer Process" in virtual mode (ICRDME-2022) during (24-6-2022 to 25-6-2022) conducted by Siddaganga Institute of Technology, Tumakuru, India.
14. P.S.Gowthaman & S.Jeyakumar (2021), "A Critical Review on Non-Destructive Evaluation techniques on additive Manufacturing Components" in virtual mode (ICRAMER 2021) during (15-4-2021 to 16-4-2021) conducted by SRM IST, Chennai, India.
15. P.S.Gowthaman & S.Jeyakumar (2021), "State of art on wire arc additive manufacturing of stainless steel-A perspective" (ICAMM-2021) during (18-2-2021 to 19-2-2021) conducted by SSN College of Engineering, Chennai, India.
16. P.S.Gowthaman (2020), "Determination of Weldability study on Mechanical Properties of Dissimilar Al-alloys using FSW Process" (ICMPC-2020) during (15-12-2020 to 17-12-2020) conducted by IIT Indore, India.
17. P.S.Gowthaman & J.Gowthaman (2019), "Machining Characteristics of AISI 4340 alloy steel by Wire electrical discharge machining" (ICRAMM-2019) during (12-9-2019 to 14-9-2019) conducted by KLE Dr.M.S.Sheshgiri College of Engineering & Technology, Belagavi, India.
18. P.S.Gowthaman & S.Jeyakumar (2019), "A Review on Machining of High Temperature Aeronautics super-alloys using WEDM process" (ICMPC-2019) during (8-3-2019 to 10-3-2019) conducted by GRIET, Hyderabad, India.
19. P.S.Gowthaman (2019), "A Study on Wire Electrical Discharge machining process parameters and performances" (ICMME-2019) during (21-3-2019 to 22-3-2019) organized by Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Kancheepuram, India.
20. P.S.Gowthaman (2018), "A Weldment Characteristics of Friction stir welding process for ship-building materials" (ICAAMM-2018) during (13-7-2018 to 14-7-2018) conducted by MLR Institute of Technology, Hyderabad, India.
21. P.S.Gowthaman (2017), "Comparison of Mechanical properties of Al-alloy by FSW and TIG welding" (ICSTEM'17) during (3-3-2017 to 4-3-2017) conducted by KIT, Coimbatore, India.
22. P.S.Gowthaman, B.A.Saravanan (2015), "Evaluation of Mechanical Properties of Al-alloy 5086 by FSW", (ICSEM-15) during (9-5-2015) conducted by KIT, Salem, India..
23. P.S.Gowthaman (2013), "Methods for Improving Chuck accuracy and repeatability in the position of workpiece", (NCMME 2013) during (6-5-2013 to 7-5-2013) conducted by DMCE, Coimbatore, India.
24. P.S.Gowthaman (2011), "Design & development of Computer vision based AGV with SLV Configured lifting Mechanism", (RTME-11) during (26-3-2011) conducted by GKMCE, Chennai, India.
25. P.S.Gowthaman (2012), "Recent Trends in I Robotics for Defense application", (ANOKHA 2011) during (8-2-2011) at Amrita University, Coimbatore, India.

## Book Chapters

1. P.S.Gowthaman & S.Jeyakumar "A study on Wire Electrical Discharge Machining Process Parameters and Performances" *Adv. Mat & Manuf. Engg, Springer Proceedings Materials*. 7, (2021). 195-201.
2. P.S.Gowthaman & S.Jeyakumar "Effect of heat input on tensile properties of WAAM 316L austenitic stainless steel" *Cur. Mat. Sci, Springer Proceedings Materials* (2024).

## Professional Development Activities

1.	Faculty Development and Training Programmes (at Least 5 Days)	: 30
2.	International / National Level Seminars	: 6/4
3.	Conference Proceedings	: 10
4.	Workshops	: 15
5.	Instructor Led / Self-Paced Courses (NPTEL, NITTR & Coursera)	: 16

## Honours and Awards

1. Secured the First place in National level Technical symposium (Manusys 2011) conducted by Department of Manufacturing Engineering, Anna University, Chennai, India. **(Awarded best oral presentation)**
2. Secured the First place in National level technical meet (RTME 2011) and paper titled as "Design and Development of Computer vision based AGC with SLE configured Lifting mechanism & advanced sensor for disaster management" held at (26-03-2011) organized by Department of Mechanical Engineering, GKMCE, Chennai, India. **(Awarded best oral presentation)**
3. Secured the First Place in National level technical meet (Y2K11) and paper titled as "Development of wireless sensor networking using a mobile robot AGV to collect data using intelligent networks for disaster management" held at 30-3-2011 organized by Department of Computer Science & Engineering, KARE, Krishnankovil, India.
4. Secured the First Place in National level Technical Symposium (ABHIGYAN) and paper titled as "Design and development of a Computer vision" held at 25-03-2011 organized by Department of Electronics & Communication Engineering, SRM University, Vadapalani Chennai, India.
5. Secured the First Place in National level Technical symposium (INSTIGO 2011) organized by Department of Mechanical Engineering, JJCET, Trichy, India. **(Awarded best oral presentation)**.
6. Secured the First Place in National level Technical symposium (ANOKA-2011) held during 08-02-2011 organized by Department of Electronics & Communication Engineering, Amirta School of Engineering, Coimbatore, India. **(Awarded best oral presentation)**.
7. Secured the Second Place in General proficiency for class XI public examination on 25-01-2008 at Railway Mixed Higher Secondary School, Ponmalai, Trichy, India. **(Awarded certificate in Annual day event)**.

## Professional Bodies

1. Society for Failure Analysis (SFA) **(ME201104570)**
2. Indian Society of Mechanical Engineers (ISME) **(AM-SFA-0087)**
3. Indian Society for Particle Accelerators (ISPA) **(LM-797)**

## Research Guidance (U.G level)

1. Thin-walled deposition of 304 SS components produced via GTAW-based AM process (Nov 2025)
2. Studies on metallurgical properties of austenitic stainless steels by WAAM for repair applications (Nov 2025)
3. Influence of various shielding gas Concentration on 316L SS clad beads using WAAM process (April 2023).
4. Effect of various parameters effect on SS 316L using CMT welding process (June 2022).
5. Study of Microstructure and Mechanical properties of 316L Stainless steel using CMT technique (June 2022).
6. Experimental investigation on Mechanical properties and Microstructure behavior of 2205 Duplex stainless steel by conventional technique (September 2020).
7. A study on Comparison of WEDM machining using Different wire electrode (April 2020).
8. Design and Fabrication of Rough Terrain Rover (April 2019).
9. Study on Process parameters of WEDM for AISI 4340 alloy steel (April 2019).
10. Study on Process Parameters of WEDM for AISI 304 Stainless steel for advanced applications (April 2019).
11. Experimental characteristics of Al-metal matrix with SiC and Graphite (April 2019).
12. Design and Fabrication of Bike Lifter (March 2019)
13. Design and Fabrication of Power Generation using Wind Mill and Solar power (April 2018).
14. Study on experimental characteristics of 2024 and 7075 Al- alloys using FSW (April 2018).
15. Design and Fabrication of Automatic Shoe Cleaner Machine (April 2017).

## Journal Reviewer

1. Journal of Materials Engineering & Performance (JMEP)
2. Transactions of the Indian Institute of Metals (TIIM)
3. Journal of Materials Science (JMS)
4. Progress in Additive Manufacturing (PIAM)
5. Journal of Metal Forming (JMF)

## Academic Responsibilities

1. Tutoring and Mentoring the students
2. Involved in Accreditation activities
3. Criterion file In-Charge for Academic Research scholars and Supervisor
4. Involved in Placement activities and Admission activities

## References

1	Dr.T.Ramesh	Professor, Department of Mechanical Engineering, National Institute of Technology, Trichy-620015 Ph: 9994339803 & Email: <a href="mailto:tramesh@nitt.edu">tramesh@nitt.edu</a>
2	Dr.k.Marimuthu	Professor, Department of Mechanical Engineering, Coimbatore Institute of Technology, Coimbatore-641014 Ph:9486587225 & Email: <a href="mailto:marimuthu@cit.edu.in">marimuthu@cit.edu.in</a>

## Personal Profile

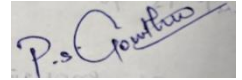
Name : Mr.P.S.Gowthaman  
Gender : Male  
Nationality : Indian  
Date of Birth : 25-07-1990  
Age : 35  
Marital Status : Married  
Languages Known : Tamil, English & Hindi  
Hobbies : Books Reading, Singing & Writing

## Declaration

I here by declare that the information furnished above is true to the best of my knowledge. I solemnly affirm that if any information given by me is found to be wrong/false at any stage, my candidature for the post will automatically stand cancelled

**Place:** Tiruchirappalli

**Date:** 22.11.2025



**(P.S.Gowthaman)**