

BIO DATA



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WEB OF SCIENCE RESEARCH ID: AAX-4897-2020

1. EDUCATIONAL QUALIFICATION :

Degree	Branch / Specialization	Institute/University	Research Topic/Grade	Year of Passing
Ph.D.	Mechanical Engineering	Anna University, Chennai	Experimental Investigation on Erosion and Corrosion Behaviour of Plasma Sprayed WC/Cr ₃ C ₂ /8YSZ Coatings on SS316	2023
M.E. (Full Time)	Manufacturing Engineering	MIT Campus, Anna University, Chennai	CGPA: 9.18 (Awarded with GOLD MEDAL – First class with Distinction)	2014
B.E. (Full Time)	Mechanical Engineering	Government College of Technology, Coimbatore, Anna University	76.78% (First Class with Distinction)	2005
HSC	Mathematics and Science (Tamil Nadu State Board)	St.Xavier's Hr.Sec.School, Palayamkottai, Tamil Nadu, India	89.08%	2001
SSLC	Tamil Nadu State Board	St.Xavier's Hr.Sec.School, Palayamkottai, Tamil Nadu, India	95.8% (School First Rank)	1999

2. PROFESSIONAL EXPERIENCE :

S.No	Designation	Institution/ Organization	Period	
			From	To
1.	Associate Professor (Grade I)	Ramco Institute of Technology, Rajapalayam	01.02.2024	Till Date
2.	Assistant Professor (Senior Grade)	Ramco Institute of Technology, Rajapalayam	22.12.2022	31.01.2024
3.	Assistant Professor	Ramco Institute of Technology, Rajapalayam	01.06.2015	21.12.2022
4.	Assistant Professor	Panimalar Institute of Technology, Chennai	26.05.2014	30.04.2015
5.	Lecturer	Lakshmi Ammal Polytechnic College, KR Nagar, Kovilpatti	17.05.2010	31.05.2012

3. RESEARCH INTEREST:

- ✓ Surface Coating Technology
- ✓ Welding and Forming Technology
- ✓ Casting Processes
- ✓ CNC Machining and Part Programming
- ✓ Machinability Studies
- ✓ Materials and Design
- ✓ CATIA Surface Modelling
- ✓ CAD/CAM

4. PUBLICATIONS:

4.1 JOURNAL PUBLICATIONS

1. **Maharajan, S.,** Michael Thomas Rex, F. Microstructural Evolution and Enhanced Wear Resistance of Laser-Treated Plasma-Sprayed Al₂O₃-40 wt.% TiO₂ Coatings. **J. of Materi Eng and Perform** (2025). <https://doi.org/10.1007/s11665-025-13031-2>. **SCI & Scopus Indexed.**
2. Arulselvan, S., Ajay, C. V., Thomas Rex, F. M., & **Maharajan, S.** (2025). Optimization and modelling of tribological properties in self-lubricating AA2024/nano-graphene/nano-WC hybrid composites using RSM-CCD, TOPSIS, Pareto analysis and ANFIS. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science. <https://doi.org/10.1177/09544062251370886>. **SCI & Scopus Indexed.**
3. **Maharajan, S.,** Anilkumar, S., Michael Thomas Rex, F., & Rajakarunakaran, S. (2025). Effect of laser treatment on hot corrosion behaviour of plasma sprayed Gd₂Zr₂O₇ coatings on Inconel 718 in Na₂SO₄+V₂O₅ molten salt environment. **Ceramics International.** <https://doi.org/10.1016/j.ceramint.2025.09.051>. **SCI & Scopus Indexed.**
4. **S.Maharajan.,** F, M. T. R., & C, V. A. (2025). Optimization of plasma spray parameters for enhanced microhardness and wear resistance of WC/Cr₃C₂ coatings on SS316 using response surface methodology. Canadian Metallurgical Quarterly, 1-17. <https://doi.org/10.1080/00084433.2025.2540722>. **SCIE & Scopus Indexed.**
5. **Maharajan S** and Michael Thomas Rex F (2024), Microstructural characterization studies on

hot corrosion behaviour of YSZ/ Gd₂Zr₂O₇ based plasma spray coatings on SS316', **Physica Scripta**, 100, 015924, Impact Factor: 2.6, DOI 10.1088/1402-4896/ad963d. **SCIE & Scopus Indexed.**

6. **Maharajan, S**, Michael Thomas Rex, F, D. Ravindran and C. Veera Ajay, (2024), 'Experimental analysis and optimization of plasma spray parameters on porosity and corrosion wear of Cr₃C₂/8YSZ composite coated austenitic stainless steel', **Surface Review and Letters** doi/10.1142/S0218625X25500258. Impact Factor: 1.2. **SCIE & Scopus Indexed.**
7. **Maharajan, S**, Michael Thomas Rex, F, 2024, 'Hot Corrosion Evaluation of Cr₃C₂/8YSZ based Plasma Sprayed Coatings on SS316 in Na₂SO₄ – V₂O₅ Molten Salt Environment at 700⁰C', **Journal of Failure Analysis and Prevention**, Vol.24, pp: 769-778, Impact Factor: 1.2. <https://doi.org/10.1007/s11668-024-01880-3>. **ESCIE & Scopus Indexed.**
8. **Maharajan, S**, Michael Thomas Rex, F, Ravindran, D & Rajakarunakaran, S 2022, 'Evaluation of solid particle erosion and electrochemical corrosion of plasma-sprayed WC/8YSZ coating on SS316', **Surface Topography: Metrology and Properties**, vol. 10, no. 1, Article No. 015026, Impact Factor: 2.185. **SCIE & Scopus Indexed.**
9. **Maharajan, S**, Michael Thomas Rex, F, Ravindran, D & Rajakarunakaran, S 2022, 'Erosive and corrosive wear performance and characterization studies of plasma-sprayed WC/Cr₃C₂ coating on SS316', **International Journal of Applied Ceramic Technology**, vol. 19, no. 5, pp. 2845-2861, Impact Factor: 2.328. **SCIE & Scopus Indexed.**
10. **Maharajan, S**, Michael Thomas Rex, F, Ravindran, D & Rajakarunakaran, S 2023, 'Surface morphology studies and corrosion behaviour of plasma sprayed Cr₃C₂/8YSZ composite coating on SS316', **Surface Topography: Metrology and Properties**, vol. 11, no. 02, Article No. 025003, Impact Factor: 2.185. **SCIE & Scopus Indexed.**
11. **Maharajan S**, Ravindran D, Rajakarunakaran S & Adam Khan M 2019, 'Analysis of surface properties of tungsten carbide (WC) coating over austenitic stainless steel (SS316) using plasma spray process', **Materials Today: Proceedings**, vol. 27, no.3, pp. 2463-2468. Impact Factor: 2.59. <https://doi.org/10.1016/j.matpr.2019.09.219>. **Scopus Indexed.**
12. **Maharajan, S.**, Ravindran, D., Rajakarunakaran, S. 2019. Effect of Heat Treatment on Formability of AA6082 by Single Point Incremental Forming. In: Shunmugam, M.S., Kanthababu, M. (eds) **Advances in Forming, Machining and Automation. AIMTDR 2018. Lecture Notes on Multidisciplinary Industrial Engineering. Springer, Singapore.** https://doi.org/10.1007/978-981-32-9417-2_1. Impact Factor: 2.59. **Scopus Indexed.**
13. **Maharajan, S**, Vijay Anand A, Gunalan R, Naveen Kumar, A 2015, 'Analysis of Mechanical Properties on Friction Stir Welded Aluminium Alloy (AA6063) Plate', **IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)**, vol. 12, no. 2, ver. VI, pp. 143-147. DOI: 10.9790/1684-1226143147.
14. MT Azhagan, B Mohan, A Rajadurai, **S Maharajan** 2014, "Influence of squeeze pressure on the mechanical properties of squeeze cast Aluminium alloy AA6061", **Advanced Materials Research**, **Trans Tech Publications**, vol., No. 984, pp.350-354, DOI: <https://doi.org/10.4028/www.scientific.net/AMR.984-985.350>. **Scopus Indexed.**
15. M.Thirumal azhagan, B.Mohan, A.Rajadurai, S.Maharajan 2014, "Influence Of Ultrasonic

Cavitations On The Mechanical Properties Of Squeeze Cast Aluminium Alloy AA6061”, **International Journal of Applied Engineering Research, Research India Publications**, Vol. 9 No. 26, (2014), pp 8959-8962, <http://www.ripublication.com/Volume/ijaerv9n26spl.htm>. Scopus Indexed.

16. **S.Maharajan**, D.Ravindran, S.Rajakarunakaran, C.Gururaj 2020, “Experimental Investigation of Erosion and Corrosion behavior of HVOF Sprayed WC + 50% Cr₃C₂ composite coatings on Sustainable Austenitic Stainless Steel (SS316)”, **Journal of Green Engineering (JGE)**, Volume-10, Issue-7. **Scopus Indexed.**

4.2 CONFERENCE PUBLICATIONS

International Conferences:

1. **S Maharajan** presented a paper titled” Effect of Molybdenum Addition On the Corrosion Performance of HVOF Deposited WC- Based Coatings" in the 7th International Conference on Computational Intelligence and Industry 5.0, organized by Velammal Institute of Technology, Chennai during 27th & 28th March 2026.
2. **S.Maharajan**, D Ravindran, S Rajakarunakaran, C.Gururaj (2020), “Experimental Investigation of Erosion and Corrosion behavior of HVOF Sprayed WC + 50% Cr₃C₂ composite coatings on Austenitic Stainless Steel (SS316)”, in International Web Conference on Smart Engineering Technologies 2020 (IWCSET 2020), organized by Ramco Institute of Technology on 27.06.2020.
3. **S Maharajan**, D Ravindran, S Rajakarunakaran, M Adam Khan (2019), “Analysis of surface properties of tungsten carbide (WC) coating over austenitic stainless steel (SS316) using plasma spray process”, MMM2019, Materials Today: Proceedings, NIT Trichy, DOI: <https://doi.org/10.1016/j.matpr.2019.09.219>.
4. **S Maharajan**, D Ravindran, S Rajakarunakaran (2018), “Effect of Heat Treatment on Formability of AA6082 by Single Point Incremental Forming”, AIMTDR 2018, Advances in Forming, Machining and Automation, Proceedings of AIMTDR 2018, ISBN: 978-981-32-9416-5, Anna University Chennai, DOI: <https://www.springer.com/gp/book/9789813294165>.
5. M.Thirumal azhagan, B.Mohan, A.Rajadurai, **S.Maharajan** (2014), “Influence Of Ultrasonic Cavitations On The Mechanical Properties Of Squeeze Cast Aluminium Alloy AA6061”, ICMOC 2014, International Journal of Applied Engineering Research, Research India Publications, Vol. 9 No.26 (2014) pp. 8959-8962, ,Noorul Islam University, Nagercoil, DOI: <http://www.ripublication.com/Volume/ijaerv9n26spl.htm>.
6. MT Azhagan, B Mohan, A Rajadurai, **S Maharajan** (2014), “Influence of squeeze pressure on the mechanical properties of squeeze cast Aluminium alloy AA6061”, ICRAMID 2014, Advanced Materials Research, Trans Tech Publications, vol., No. 984, pp.350-354, Ponjesley College of Engineering, Nagercoil, <https://doi.org/10.4028/www.scientific.net/AMR.984-985.350>.

National Conferences:

1. Paper entitled "Manually operated stretcher for Efficient and safe Patient Transfer in Health care facilities" at SMARTMED25 a national level ToT Conference organized by Ministry of Education's Innovation Cell - AICTE - Innovation Centre (Chandigarh), Punjab State Council for Science and Technology (PSCST) and Technology Enabling Centre (Sponsored by DST) at Punjab University, Chandigarh on 23-24May 2025.
2. Paper entitled "Effect of Friction Stir Processing with SiC+Al₂O₃ particle on microstructure & Hardness of AA7075" was presented at Sixth National Conference on Challenges and Opportunities for Mechanical Engineers (COME – 2019) held during 16th March 2019 at Kongunadu College of Engineering and Technology, Thottiam, Tricity.
3. Paper entitled "Experimental Studies on Formability of Light Weight alloys by Single Point Incremental Forming Process" was presented at fifth National Conference on Research Advanced in Mechanical Engineering (RAME 2018) held during 29th March 2018 at PSR Engineering College, Sivakasi.
4. Paper entitled "Design and Fabrication of 6 Cylinder Pneumatically Operated Clamping Device for Cabin Control Valve in a VMC" was presented at National Conference on Innovations in Engineering, Science and Technology (NCIEST 2017) held during 24th & 25th March 2017 at Ramco Institute of Technology, Rajapalayam.

4.3 BOOK/BOOK CHAPTER PUBLICATIONS

1. **Maharajan S**, Ravindran D, Rajakarunakaran S (2019), "Effect of Heat Treatment on Formability of AA6082 by Single Point Incremental Forming", Series Title: Lecture Notes on Multidisciplinary Industrial Engineering, Book Title: Advances in Forming, Machining and Automation, Book Subtitle: Proceedings of AIMTDR 2018, Springer, 2019, ISBN: 978- 981-32-9416-5, DOI: 10.1007/978-981-32-9417-2
2. **Maharajan, S.**, Rex, F.M.T.,Valaiganesh, S. (2025), "Optimization of Plasma Spray Coatings Using the Taguchi Method and Machine Learning". Fabrication of Wear and Corrosion Resistant Materials Surface Processing Techniques, CRC Press, Taylor and Francis, Open source preview, 2025, pp. 217–232. <https://doi.org/10.1201/9781003546528>.

5 FUNDED PROJECTS

S.No.	Title of the project	Funding Agency	Duration	Amount	Status
PROJECTS					
1.	Compact Semi Automated Mechanized Stretcher for Rapid and Safe Patient Transfer in Health Care Facilities	MSME	2 Yrs	15 Lakhs	Project Work is in progress
2.	CSR Fund for Research Facilites	Chennai Metco Pvt Ltd, Chennai	March 2026	10 Lakhs	Research Facilities Procured

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3.	Design and Separation of Ground Nut Pod Separator	IIT RuTAG, IIT Madras	6 Months	1.03 Lakhs	Project Completed. Commercialization in Progress
PROGRAMS					
1.	Welding of Emerging Power Plant Material	Indian Welding Society, Trichy	03.02.2020	Rs.10,000	As a Indian Welding Society Coordinator, Organizing the workshop for the students and inviting the BHEL, WRI engineers as resource persons.

6 SHORT TERM COURSES / SEMINARS /FDP/WORKSHOP ATTENDED

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	FDP on Engineering Graphics (3 Days)	RIT	09.06.2015	11.06.2015
2.	Intensive Training on CNC (5 Days)	MTAB Technical Team	26.05.2015	31.05.2015
3.	ICTACT FDP on International Certificate Program on AUTOCAD 2015 (5 Days)	RIT	12.10.2015	16.10.2015
4.	CATIA V6 (10 Days)	RIT	04.05.2016	13.05.2016
5.	ANSYS STRUCTURAL & ANSYS CFD (5 Days)	RIT	22.06.2016	26.06.2016
6.	Industrial Visit to Gowri House Metal Works, Rajapalayam	Gowri House Metal Works, Rajapalayam	26.05.2017	27.05.2017
7.	Three Days FDP on a Hands on Training: Engineering Simulation using ABAQUS	RIT	15.06.2017	17.06.2017
8.	Two Days Course on Mechanical Vibration (2 Days)	AUFRG – ICC, Anna university, Chennai	21.10.2016	22.10.2016
9.	CATIA V6 (Surface Modeling) 14 Days)	RIT	23.11.2017	06.12.2017

10.	Value Added Courses – CNC Turning and CNC Milling (3 Days)	RIT	14.12.2017	16.12.2017
11.	A Two day Workshop on CNC Machining (2 Days)	RIT	08.12.2017	09.12.2017
12.	3D Printing and 3D Scanning with GD &T (4 Days)	RIT	15.11.2017	18.11.2017
13.	Industrial Visit to Dharani Sugars and Chemicals Limited	Dharani Sugars and Chemicals Limited, Vasudevanallur, Tirunelveli dt	12.06.2018	14.06.2018
14.	ISO Awareness and Internal Auditing Training for ISO 9001:2015	RIT TUV Rheinland (India) Pvt.Ltd	21.06.2018	22.06.2018
15.	Two Days workshop on “Writing Research Papers, citation Analysis, Plagiarism, Getting Patent and Copyright	RIT	29.06.2018	30.06.2018
16.	A Two-Day Workshop and Hands-on Training for Lab Technician on Metal Spinning Lathe, MIG Welding, Gear Hobbing & CMM	RIT	10.12.2018	11.12.2018
17.	Industrial Training at Ramco Mills Limited, Rajapalayam.	Ramco Mills Ltd, Rajapalayam	25.04.2019	27.04.2019
18.	One-week Workshop on Design and Analysis of Mechanical System at NIT Trichy	NIT Trichy	10.06.2019	15.06.2019
19.	Five Day FDP on “Product Design Engineering using Fusion 360”	RIT	27.08.2019	31.08.2019
20.	Industrial Visit to Toshiba Machines, Chembambakkam, Chennai on 15.10.2019. (Manufacturing of Plastic Screw injection Machine)	IIT – PALs	15.10.2019	15.10.2019
21.	AICTE Training and Learning (ATAL) Academy Programme on Virtual Reality in Education.	NIT Warangal	09.11.2019	13.11.2019
22.	Industrial visit to Rajapalayam Mills Limited, Rajapalayam	Rajapalayam Mills Limited, Rajapalayam	25.04.2019	27.04.2019
23.	“Research Methodology”	Neville Wadia Institute of Management Studies & Research,	28.04.2020	28.04.2020
24.	Faculty Development Program on “LATEX”	Instrumentation and Control Engineering, Pravara Rural Engineering College	29.04.2020	03.05.2020

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25.	One Week FDP on “Applications of New Materials in Emerging Fields	Sathyabama Institute of Science and Technology	24.06.2020	30.06.2020
26.	Implementation of Multi Objective Optimization Algorithm (NSGA – II) using MATLAB	Rajarambabu Institute of Technology, Kolhapur	29.06.2020	03.07.2020
27.	Welding for Additive Manufacturing	Coimbatore Institute of Engineering and Technology	10.06.2020	15.06.2020
28.	“Smart and Phase Change Materials and its applications”	AICTE-STTP offered by Sai Ram Institute of Technology Chennai	27.07.2020	01.08.2020
29.	Software Tools used in FEA Morning	AICTE-STTP by Kalasalingam University, Krishnankoil	27.07.2020	01.08.2020
30.	online webinar on “Role of Faculty in Challenging Situation	RIT	26.07.2020	26.07.2020
31.	Research opportunities in Advanced Welding Processes	Hindustan College of Engineering and Technology, Coimbatore	22.07.2020	26.07.2020
32.	ML using Python	RIT	08.07.2020	12.07.2020
33.	“National Level Workshop on Effective and Efficient Writing of Research Papers for Web of Science, Scopus Indexed Journal and Conference Papers Using Typeset Research”	RIT	29.08.2020	29.08.2020
34.	AICTE Training and Learning (ATAL) Academy Programme on Novel Materials.	SRM University	09.11.2020	13.11.2020
35.	AICTE Training and Learning (ATAL) Academy Programme on Advances in Manufacturing.	Sardar Vallabhbhai National Institute of Technology	04.01.2021	08.01.2021
36.	Virtual Industrial Visit at TVS Brakes India Limited	IIT PALS	17.02.2021	22.02.2021
37.	AICTE ATAL FDP on “The role of Additive Manufacturing in the Era of Industry 4.0” organized by Chennai Institute of Technology	CIT, Chennai	21.06.2021	25.06.2021
38.	AICTE ATAL FDP on “Non Destructive Testing and Evaluation” by National Institute of Technology, Srinagar	NIT, Srinagar	26.07.2021	30.07.2021
39.	Two Days National Level Online Workshop on “Role of NAAAC in Enhancing Quality in Higher Education Institution” organized by Ramco Institute	RIT	16.12.2022	17.12.2022

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	of Technology			
40.	Five Days FDP on Equipping Educators – Emerging Technologies in Mechanical Engineering organized by Ramco Institute of Technology	RIT	17.07.2023	21.07.2023
41.	Faculty Competence Enhancement Programme on LPB01 – Reverse Engineering – Leap Team – at Ramco Institute of Technology	RIT	08.09.2023	09.09.2023
42.	Industrial Visit at Brakes India Private Limited – Foundry Division, Shollinghur Plant organized by IIT PALS, Chennai	IIT PALS, Chennai	27.10.2023	27.10.2023
43.	Workshop on Interpretation on Instrumental Methods (WIIM 2024) held from 3.01.2024 to 06.01.2024 organized Dept. Of Chemistry and Centre for Nano science and Nano technology in association with CSIR National Metallurgical Laboratory, Chennai.	Sathyabama University and CSIR Chennai	03.01.2024	06.01.2024
44.	A One Week FDP on “Machine Learning Applications in Engineering” from dated 15.07.2024 to 20.07.2024 for 6 Days	NIT Warangal	15.07.2024	20.07.2024
45.	Faculty Competence Enhancement Program on LPB01 Reverse Engineering Leap Team at Ramco Institute of Technology	RIT	08.09.2024	09.09.2024
46.	Mentor and accompanying faculty member for PALS residential workshop from 28.11.2024 to 30.11.2024.	IIT PALS	28.11.2024	30.11.2024
47.	Participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on 3D Printing for Industrial & Biomedical Healthcare Applications with hands on MIMICS Software at G H Raisoni College of Engineering, Nagpur from 02/12/2024 to 07/12/2024	G H Raisoni College of Engineering, Nagpur	02.12.2024	07.12.2024
48.	Nanmudalvan FDP on “Generative AI” from conducted by Tamil Nadu Skill Development Corporation, Nanmudalvan, Chennai at GCE, Tirunelveli	GCE Tirunelveli	20.02.2025	21.02.2025
49.	A+ Grade in 6 Days online FDP on Surface Engineering Principles, techniques and characterization organized by Malaviya Mission Teacher Training Centre, IIT (ISM), Dhanbad, Jharkhand, from 22.06.2025 to 27.06.2026.	, IIT (ISM), Dhanbad	22.06.2025	27.06.2025
50.	Mechanical Engineering attended Precision Manufacturing Training Course on 2nd and 3rd July 2025. at CMTI Bangalore	CMTI Bangalore	02.07.2025	03.07.2025

51.	NPTEL ONLINE workshop "Surface Engineering of Nano Materials" by Prof.Koushik pal, IIT Roorkee during 7th and 8th June 2025.	NPTEL	07.06.2025	08.06.2025
52.	"Gunvatta Yatra" on NABL Accreditation Basic Awareness Session on NABL accreditation & its benefits in Sri Paramakalyani College, Alwarkurichi on 8th August 2025	Sri Paramakalyani College, Alwarkurichi	08.08.2025	08.08.2025
53.	SOJM 2025 organised by BHEL, WRI and IWS Trichy	BHEL, WRI and IWS Trichy	01.11.2025	01.11.2025
54.	Five Days National Level Online Faculty Development Programme on " Research Driven Sustainable Materials and Manufacturing System (RSMM 25)	Velammal Engineering College, Chennai	08.12.2025	12.12.2025

7 SHORT TERM COURSES / SEMINARS /FDP/WORKSHOP/CONFERENCE ORGANIZED

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	Value Added Course – International Certification Programme on AUTOCAD2016 (7 Days)	RIT	07.12.2015	12.12.2015
2.	Techno Quiz – Tech Yuga 2016 on 19.08.2016	RIT	19.08.2016	19.08.2016
3.	FIX IT – RIT Science day on 28.02.2017	RIT	28.02.2017	28.02.2017
4.	A Two Days Workshop onCoordinate Measuring Machine During Tech Yuga2017 Resource Persons: TechnicalEngineers, Supreme Scientific Corporations, Madurai. (2 Days)	RIT	12.08.2017	13.08.2017
5.	Inaugural Function of RIT – IWS	RIT IWS	03.01.2019	03.01.2019
6.	One Day workshop onCoordinate Measuring Machine during TECHYUGA 2018	RIT	31.01.2018	31.01.2018
7.	One Day visit to Welding Research Institute, BHEL, Trichy for Final Year Students	RIT	08.09.2018	08.09.2018
8.	Value added Course on Surface Coating TechnologyCoordinator for third Year Students.	RIT	06.07.2019	20.10.2019
9.	Modern Surface Coating Technology handled byDr.M.Adam Khan.	RIT IWS	03.08.2019 (2.00pm to 5.00pm)	03.08.2019 (2.00pm to 5.00pm)
10.	One-day Workshop on CNC and CMM during TechYuga2019	RIT	31.08.2019 (10.00 am to 4.00pm)	31.08.2019 (10.00 am to 4.00pm)
11.	Online Webinar on "ThermalBarrier Coating"	RIT IWS	24.09.2020 (4.00pm to 5.30pm)	24.09.2020 (4.00pm to 5.30pm)

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12.	One Day Workshop On Welding of Emerging Power Plant Materials	RIT IWS	03.02.2020	03.02.2020
13.	Online Webinar on Secondary Manufacturing Processes	RIT IWS	14.05.2020	14.05.2020
14.	Overview of Gas Shielded Welding Processes and their Advancements	RIT IWS	24.05.2020 (10.30am to 12.00pm)	24.05.2020 (10.30am to 12.00pm)
15.	Biodegradable Biomaterials	RIT IWS	30.12.2020	30.12.2020
1.	IIT Rutag fourth review meeting on Ground nut pod separator machine progress	RIT & IIT RuTAG	04.03.2021	04.03.2021
2.	IIT Rutag Fifth Review Meeting on Ground nut pod separator machine progress	RIT & IIT RuTAG	15.07.2021	15.07.2021
3.	Value added Course Industrial Welding Practices and its Trouble shooting, conducted by IWS, BHEL, Trichy at Ramco Institute of Technology	RIT IWS	11.10.2021	13.10.2021
4.	Two Days Field study for assessing the performance of Ground nut pod separator at Chennai	RIT & IIT RuTAG	27.10.2021	28.10.2021
5.	Internship Training at Mando Automotive India Pvt.Ltd, Chennai	RIT & Mando	13.12.2021	15.12.2021
6.	Vayumitra Skill Development Program – National Institute of Wind Energy (NIWE) – Wind Turbine Technologies	NIWE	02.01.2023	13.01.2023
7.	Mahatma Gandhi Rural Industrialization Team visit – Assessing the function of Ground nut pod separator Machine at Ramco Institute of Technology	RIT & IIT RuTAG	08.01.2023	08.01.2023
8.	Industrial Visit at Gowri House Metal works at Rajapalayam for II Year Mechanical Engineering Students	RIT	18.03.2023	18.03.2023
9.	State Level Workshop on Mechanical Engineering Robotics and Automation, 3D Printing & Electric Vehicles for School Students	RIT	18.04.2023	18.04.2023
10.	Industrial Visit at Brakes India Private Limited – Foundry Division, Shollinghur Plant organized by IIT PALS, Chennai	IIT PALS	27.10.2023	27.10.2023
11.	Welding solution organised by Fronius & Optima Heat Technologies at Pandiyan Hotel, Madurai	Fronius & Optima Heat Technologies at Pandiyan Hotel, Madurai	25.09.2024	25.09.2024
12.	OBE Orientation Program by EEE department Adjunct Professor Dr. Joshua Earnest, (Former Professor & Head, EEE Dept. NITTTR, Bhopal, Madhya Pradesh)	RIT	05.08.2024	09.08.2024
13.	Train the Trainer – Glass Processing Technology & Visit the Glass Industries at SIPCOT, Vinayaga Glass Industries, Chennai	Glass Academy, Chennai	26.09.2024	28.09.2024
14.	Indo Universal Collaboration for Engineering Education (IUCEE) certification course	IUCEE Foundation	Second semester 2024, starting July 11, 2024	
15.	Virtual introduction of Mr Gopinath U, who will be spearheading Glass Academy actions	Glass Academy	10.12.2025	

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16.	Advanced Manufacturing and Materials Systems: Processing, Characterisation, and Testing” from 5th to 9th January 2026, organized by the Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam.	RIT as Convener	05.01.2026
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8 CONFERENCE ATTENDED

S.No	Title of the event	Organized by	Date	
			From	To
1.	International Conference ICRAMID 14 – Presented Paper on “Influence of Squeeze Pressure on the Mechanical properties of Squeeze Cast Aluminium Alloy AA6061” at Ponjesly College of Engineering, Nagercoil.	Ponjesly College of Engineering, Nagercoil	08.03.2014	08.03.2014
2.	International Conference ICMOC 2014 – Presented Paper on “Influence of Ultrasonic Cavitation on the Mechanical Properties of Squeeze cast Aluminium Alloy AA6061” at Noorul Islam Centre for Higher Education, Kumaracoil	Noorul Islam Centre for Higher Education, Kumaracoil	10.04.2014	11.04.2014
3.	National Level Conference COME 2017 – Presented Paper on “Design and Fabrication of 6 Cylinder Pneumatically operated Clamping Device for Cabin Control Valve in a VMC” at Kongunadu College of Engineering and Technology, Trichy.	Kongunadu College of Engineering and Technology, Trichy	22.03.2017	22.03.2017
4.	National Conference RAME 18 – Presented Paper on “Experimental Studies on Formability of light Weight Alloys by Single Point Incremental Forming Process”, at PSR Engineering College, Sivakasi	PSR Engineering College, Sivakasi	29.03.2018	29.03.2018
5.	International Conference AIMTDR 2018 – Presented Paper on “Effect of Heat Treatment on Formability of AA6082 by Single Point Incremental Forming Processes” at Anna University, Chennai	Anna University, Chennai	13.12.2018	15.12.2018
6.	One day National Conference COME 2019 – Presented Paper on “Effect of Friction Stir Processing with SiC+Al ₂ O ₃ particle on Microstructure and Hardness of A7075” at Kongunadu College of Engineering and Technology, Trichy	Kongunadu College of Engineering and Technology, Trichy	16.03.2019	16.03.2019
7.	International Conference MMM 19 – Presented Paper on “Surface Properties of Tungsten Carbide(WC) coating over Austenitic Stainless Steel (SS316) Using plasma Spray Process” at National Institute of Technology, Trichy	National Institute of Technology, Trichy	05.07.2019	07.07.2019
8.	National Conference on Innovative Technologies for Sustainable Agriculture - Presented Paper on “Design and Fabrication of Ground Nut Pod Separator” at Annai Veilankanni’s College of	Annai Veilankanni’s College of Engineering,	31.01.2020	31.01.2020

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	Engineering, Chennai	Chennai		
9.	International Web Conference on Smart Engineering and Technology 2020 – Presented paper on “Experimental Investigation of Erosion and Corrosion behaviour of HVOF sprayed WC+50wt.%Cr ₃ C ₂ Composite Coatings on SS316	RIT, Rajapalayam	26.06.2020	27.06.2020
10.	Titled "Manually operated stretcher for Efficient and safe Patient Transfer in Health care facilities" at SMARTMED25 a national level ToT Conference organised by Ministry of Education's Innovation Cell - AICTE - Innovation Centre (Chandigarh), Punjab State Council for Science and Technology (PSCST) and Technology Enabling Centre (Sponsored by DST) at Punjab University, Chandigarh on 23-24May 2025.	Punjab University, Chandigarh	26.05.2025	24.05.2025

9 RECOGNITION/ RESOURCE PERSON

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	Expert Lecture on Strength of Materials	JP College of Engineering	17 th March 2026	
2.	Project proposal titled “A Novel Mechanized Stretcher System for Safe and Comfortable Patient Transfer in Healthcare Facilities” under the AICTE Research Promotion Scheme (RPS) 2025	AICTE RPS	Phase II evaluation and presented on 14.01.2026 through a WebEx meeting	
3.	Reviewer for Next Materials	journal ISSN: 2949-8228 Elsevier Editorial	2026	
4.	Reviewer for Advance Engineering Materials	journal, Advance Engineering Materials ISSN: 1527-2648 Editorial Manager Journals at Wiley	2026 & 2025	
5.	Reviewer for Ceramic International Journal, SCIE indexed.	Ceramics International Elsevier Editorial	2026 & 2025	
6.	Reviewer for Material Letter Journal, SCIE indexed.	Materials Letter Elsevier Editorial	2025	
7.	Reviewer for Materials Science and Technology Journal, SCIE indexed.	journal, Materials Science and Technology ISSN: 1743-2847	2025	

8.	Jury member for innovation contest - Edition of PACR 2K25 on 28.08.2025 at PACR Polytechnic.	PACR Polytechnic	2025	
9.	Reviewer for Jordan Journal of Mechanical and Industrial Engineering, SCIE indexed.	Jordan Journal of Mechanical and Industrial Engineering	2024	
10.	Reviewer for Nuclear materials and energy Journal	Nuclear materials and energy Journal Elsevier Editorial	2024	
11.	Reviewer for Physica Scripta Journal, IOP Publishing	Physica Scripta ISSN: 1402-4896	2024	
12.	Reviewer for Asia-Pacific Journal of Chemical Engineering.	Asia Pacific Journal of Chemical Engineering	2023	
13.	Reviewer of ICMechD 2024, SSN College of Engineering, Chennai	SSN	2024	
14.	Reviewer of INCOMAME 2024, NITTTR, Kolkata	NITTTR, Kolkata	2024	
15.	Resource Person Online Webinar on Secondary Manufacturing Process organized by Ramco Institute of Technology, Rajapalayam	RIT	14.05.2020	14.05.2020
16.	Session Chair in the International Web Conference on Smart Manufacturing Technologies organized by Ramco Institute of Technology	RIT	26.06.2020	26.06.2020
17.	Review Member in the International Web Conference on Smart Engineering Technologies 2020, held at Ramco Institute of Technology	RIT	26.06.2020	27.06.2020
18.	Won Best Paper Award for the Paper "Proposed Design of Self Lifting Machine for Sleeper Coaches in Indian Railway in National Web Conference on Challenges and Innovation in Engineering and Technology 2021 organized by Ramco Institute of Technology	RIT	19.03.2021	20.03.2021
19.	CNC Trainer for shop floor employees of Mando Automotive India Private Limited, Chennai	Mando Automotive, Chennai	26.09.2022	28.09.2022
20.	CAD Modelling work at Mando Automotive India Private Limited, Chennai	Mando Automotive, Chennai	16.11.2022	17.11.2022
21.	Session Chair in International Conference on Contemporary Research Advancements in Mechanical Engineering organized by Ramco Institute of Technology	RIT	24.03.2023	25.03.2023

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22.	Certified Trainer for O & M Mechanical & Electrical and Instrumentation Technician Wind Power Plant – Recognized by NSDC, Skill India. Trained Professional in Vayumithra	RIT	13.01.2023	13.01.2025
23.	Nominated as Member of the Program Assessment & Quality Improvement Committee for Mechanical Engineering at Ramco Institute of Technology	RIT	All Academic Year	
24.	ISO Internal Auditor at Ramco Institute of Technology, Rajapalayam	RIT	All Academic Year	
25.	Manufacturing Domain Coordinator – Curriculum Gap Identification, Curriculum Frame work for Anna University Value Added Courses – MVA009 Surface Coating Technology	RIT	All Academic Year	
26.	Appearance before patent hearing through Video Conferencing with Controller Mr. Abhijeet Rawat	Patent	03.10.2023	

10 RESPONSIBILITY HELD IN ACADEMIC POSITION

Sl.No	Position	Responsibility	Date	
			From	To
1.	Class Advisor & Mentor	2015-2019 Batch & 2018-2022 Batch Acting as Class Advisor and Mentor	01.06.2015	30.05.2022
2.	Manufacturing Domain Coordinator	Curriculum Gap Identification, Content beyond Syllabus, Excellent relationship building with Industrial persons for organizing seminars, workshops related to manufacturing engineering	01.06.2022	Till Date
3.	IIT RuTAG Project Coordinator – Multi Grain Separator	Commercialization work	25.05.2020	Till Date
4.	NBA and NAAC Criteria Coordinator	NBA 3, NBA 6 & NAAC 4 Work	All Academic Year	
5.	Internal ISO Auditor	Report the observations and findings in all the processes in the teaching and learning methods in various department	All Academic Year	
6.	Internal Quality Assessment Committee Member (IQAC)	Acting member in IQAC	All Academic Year	
7.	Certified Trainer – O & M Mechanical Technician – Wind power Plant	Assessment by National Skill Development Corporation (NSDC)	13.01.2023	31.12.2023

8.	Laboratory In charge	Metrology and Measurements and CAM Laboratory	All Academic Year	
9.	Indian Welding Society	Collaborate with (Bharat Heavy Electricals Limited, Trichy) BHEL and Welding Research Institute, Trichy) WRI	03.01.2019	Till Date
10.	Career Guidance Cell	Motivate students to appear for GATE, Government Exams and Technical seminars, workshops	01.12.2024	Till Date

11 ONLINE COURSE

S.No	Course title	University	Date
1.	Online course "Fundamentals of Surface Engineering: Mechanisms, Processes and Characterizations" organized by IIT Roorkee through the NPTEL platform with an 82% Score as Topper in this course.	IIT Roorkee	Jan – Apr 2025
2.	"Advanced Machining Process" course in the NPTEL online course with Elite + Silver & Topper, in the top 5%.	IIT Kanpur	Jan – Apr 2025
3.	Introduction to Additive Manufacturing Processes	Arizona State University	Oct 22, 2024
4.	Ceramics and Composites	Arizona State University	Jun 7, 2024
5.	Protecting the World: Introducing Corrosion Science and Engineering	Manchester (Coursera)	May 28, 2024
6.	Differential Equation: Fourier Series and Partial Differential Equation	MIT (EDX)	Completed on May 31, 2023
7.	Differential Equations: Linear Algebra and $N \times N$ Systems of Differential Equation	MIT (EDX)	Completed on March 16, 2022
8.	Differential Equation: 2×2 Systems	MIT (EDX)	Completed on Nov 24, 2021
9.	Operations Research: an Active Learning Approach	Hong Kong Polytechnic University	Completed on 13.08.2020
10.	“Transfer Functions and the Laplace Transform”	MIT	Completed on 26.08.2020
11.	Phyton Basics for Data Science	IBM	Completed on 23.07.2020

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12.	Mechanical Behavior of Materials, Part 3: Time Dependent Behavior and Failure	Massachusetts Institute of Technology	Completed on 09.07.2020
13.	Vector Calculus for Engineers	The Hong Kong University of Science and Technology	Completed on 02.07.2020
14.	Material Science: 10 things every engineers should know	University of California, Davis	Completed on 02.07.2020
15.	Introduction to Differential Equations	MIT (EDX)	Completed on Dec 24, 2019
16.	Calculus 1C: Coordinate Systems & Infinite series	MIT (EDX)	Completed on May 11, 2019
17.	Mechanics: Momentum and Energy	MIT (EDX)	Completed on Dec 19, 2018
18.	Engineering Mechanics	Ural Federal University (EDX)	Completed on July, 2018
19.	Calculus 1B Integration	MIT (EDX)	Completed on Mar 08, 2018
20.	A Hands-on Introduction to Engineering Simulations	Cornell University (EDX)	Completed on Dec 15, 2017
21.	Calculus 1A Differentiation	MIT (EDX)	Completed on Sep 13, 2017
22.	Manufacturing Process Technology – Part I	IIT Kanpur, NPTEL	Completed on Mar 2016
23.	Introduction to Engineering Mechanics	Georgia Institute of Technology (Coursera)	Completed on May 28, 2016
24.	Engineering Systems in Motion: Dynamics of Particles and Bodies in 2D Motion	Georgia Institute of Technology (Coursera)	Completed on Sep 10, 2016
25.	Machine Design Part I	Georgia Institute of Technology (Coursera)	Completed on Dec 22, 2016

12 PATENTS FILED/AWARDED

1. Manually Operated Geared Stretcher for Effortless Shift of Wounded or Injured Patients to Bed.

First Applicant: Dr. S.Maharajan

Application No.201941040301 A,

Patent Grant Number: 471175

Date of filing of Application: 04/10/2019,

Publication Date: 18/10/2019.

The Patent Office Journal No. 42/2019 Dated 18/10/2019 48864

Date of Grant: 21/11/2023

2. Title of the Invention: Lifting Machine with Roller and Scissor Arms for Feeding Mulberry to Silkworm.

First Applicant: Dr. S.Maharajan

Date of Filling of Application at Patent Office: 06.12.2023 at Chennai.

Application Number: 202341083115

13 COURSE DESIGNER AND COORDINATOR OF NEW VALUE ADDED COURSES – ANNA UNIVERSITY

- ✓ MVA009 Surface Coating Technology
- ✓ MEA028 Industrial Welding Practices and its Troubleshooting

14 INSTITUTE INDUSTRY INTERACTION

- ✓ Visited Brakes India Private Limited – Foundry Division, Sholinghur Plant, Vellore District, Tamil Nadu on 27.10.2023. Learning: Foundry Processes.
- ✓ Visited Mando Automotive India Private Limited, Irungattukottai, Chennai on 16.11.2022 to 18.11.2022. Consultancy work CAD Drawing – Brakes Carrier and Cylinder Casting Components.
- ✓ Visited Mando Automotive India Private Limited, Irungattukottai, Chennai on 26.10.2022 & 28.10.2022. Consultancy work: CNC Part Program to Shop Floor Employees of the company.
- ✓ Visited Mando Automotive India Private Limited, Irungattukottai, Chennai on 13.12.2021 to 15.12.2021. Learning: Brake component, Front Suspension and auto components manufacturing process.
- ✓ Participated discussion with CEO of Sri Muruga Parameshwari Agro Industries Ltd for commercialization of Ground Nut Pod Separator Machine on 01.11.2025

15 MEMBERSHIP IN PROFESSIONAL SOCIETIES

- ✓ Indian Welding Society (IWS) Life Member, Membership No: L01840
- ✓ Indian Society for Technical Education (ISTE) Life Time Member, LM110567

16 AWARDS, RECOGNITION & ACHIEVEMENTS

- ✓ School First Rank and District Third Rank in 10th Standard TamilNadu Secondary School Public Exam in St.Xavier's Hr.Sec.School, Palayamkottai.

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- ✓ Gate Qualified in GATE 2012 with GATE score 319.
- ✓ Gold Medal for having secured First Rank in ME Manufacturing in MIT Campus with CGPA 9.18 at Anna university, Chennai.
- ✓ Recognized as Anna University Research Supervisor for guiding Ph.D. Scholars vide Anna University Approval Order dated 09.11.2023.