


**SRI SAI RAM ENGINEERING COLLEGE**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

Name: A.Ravinthiran	
Designation:	Assistant Professor
Qualification:	M.E
Area of Specialization:	CAD
Experience:	Teaching – 11 Years
	Industry- 1
Number of Workshops/ Conferences/ FDP Attended:	WORKSHOP- 27 NATIONAL/INT. CONFERENCE- 06
Publication:	Journal: National:-01 <b>International:19</b>
	Conference: National: <b>International: 09</b>
Staff Achievement	DST Project – Design, Development and Demonstration of Vertical Axis Free Flow Helical Clustered Water Turbines.

Educational Qualification:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
<b>PG</b>	M.E.	CAD	2012	Mahendra Engineering College	Anna University	8.3	I
<b>UG</b>	B.E.	Mechanical	2008	Mahendra Engineering College	Anna University	75	I
<b>HSC</b>			2004	Vidyaa Vikas Boys Higher Secondary School	Tamil Nadu State Board	75	I
<b>SSLC</b>			2002	Holy Angels Matriculation School	Matriculation	93	I

Professional Experience:

Sl. No	College/Organization	Designation	Period		Total period	Nature of work
			From	To		
1.	Bharathiyar Institute of Engineering for Women	Lecturer	24-8-2009	22-6-2010	10 Months	Teaching
2.	Vidyaa Vikas College of Engineering and Technology	Assistant Professor	03-08-2012	10-06-2014	1 Year 10 Months	Teaching
3.	Sri Sairam Engineering College	Assistant Professor	12-06-2014	Till Date (05-02-2022)	7 Years 7 Months	Teaching
Total Experience					10 Years	

International Conferences Attended: 09

Papers published in the international conferences: 19

Certification Course: - 22

Faculty/Staff Development /Training Program (Orientation programmes) Attended: 26

Resource person in FDP/Workshops/Training Program: 4

Workshops Attended: 27

Events organized: - 16

Funded Projects: - 01 (Funded by DST)

#### **PUBLICATIONS(JOURNALS & PROCEEDINGS):**

- Comparative Study and Flow Analysis of Multiple Branch Pipe Flow Header used in Tube Heat Exchangers, **A. Ravinthiran\***, N. Sankar, P. Vijaya Rajan and Priyadarshi Dutt, Indian Journal of Science and Technology (*ISSN (Online) : 0974-5645, Vol 9(48), December 2016, Page:1-5, DOI: 10.17485/ijst/2016/v9i48/108486*)
- Numerical Investigation Of Mixing Property Of Fuel And Air In Swirl Combustor, **A. Ravinthiran**, V. Prasanna, B. Karthik, V. Naveen, Mohammed Suhail and S. Hayagreevan, International Journal of Mechanical Engineering and Technology (*ISSN Online: 0976-6359, Volume 9, Issue 11, November 2018, Page:130–145, Article ID: IJMET\_09\_11\_016, Publisher: International Association of Engineering and Management Education*)
- Effect of Process Parameters in Friction Stir Welding of dissimilar Aluminium Alloys, T. Ganesh , **A. Ravinthiran**, I. John Solomon, International Journal of Mechanical Engineering and Technology (*ISSN Online: 0976-6359, Volume 9, Issue 12, December 2018, Page:1078–1089, Article ID: IJMET\_09\_12\_108, Publisher: International Association of Engineering and Management Education*)

- Performance analysis of parabolic trough concentric photovoltaic thermal system with trapezoidal receiver, M. Sudhakar, A. Rajendra Prasad, **A. Ravinthiran**, M.C. Anand Chakaravarthi, International Journal of Mechanical Engineering and Technology (*ISSN Online: 0976-6359, Volume 9, Issue 13, December 2018, Page:353–361, Article ID: IJMET\_09\_13\_037 12/2018*)
- Investigation of Heat Dissipation between Dimple and Normal Silencer made of Chrome Steel, **A.Ravinthiran**, D.K.Jayanth Naidu, S.Hareesh, N.Gurusubramani, K.S.Athvaith Muthukumar, International Journal of Recent Technology and Engineering (*ISSN: 2277-3878, Volume-8 Issue-1S2, May 2019, Page:33-40, Retrieval Number: A00080581S219/19©BEIESP, Publisher: Blue Eyes Intelligence Engineering & Sciences Publication*)
- Performance Improvement of Trough Concentrating Photovoltaic Thermal System: A Review, M. Sudhakar, Rajendra Prasad A, **A. Ravinthiran**, Priyadarshi Dutt, M.C. Anand Chakaravarthi, Materials Today proceedings, (*ISSN: 2214-7853, Issue-16, 2019, Page: 647-652, Publisher: Elsevier Ltd.*)
- Development and Analysis of Semi-Automatic Safety Inflation Bag, R. Akil, R. V. Aswin, V. Prasanna, G. Mohanakrishnan, **A. Ravinthiran**, International Journal of Recent Technology and Engineering (*ISSN: 2277-3878, Volume-8 Issue-2, July 2019, Page: 1093-1104, Retrieval Number: A9302058119/19©BEIESP, DOI: 10.35940/ijrte.A9302.078219, Publisher: Blue Eyes Intelligence Engineering & Sciences Publication*)
- Flow Analysis of Laminar Wall Jet over Curved Cavity with a Channel Mounted Fin, M. Arul Prakash, K. Mayilsamy, P. Maheandera Prabu, **A.Ravinthiran**, G. Murali International Journal of Recent Technology and Engineering (*ISSN: 2277-3878, Volume-8 Issue-3, September, Page:1876-1882, Retrieval Number: B2035078219/19©BEIESP, DOI:10.35940/ijrte.B2035.098319, Publisher: Blue Eyes Intelligence Engineering & Sciences Publication*)

- Effect of Sea Water Environment Exposure on Glass Fiber Reinforced Polymer Composites, Suresh. M, Babu. T, **Ravinthiran. A**, A. Dhanalakshmi, S. Ganapathy, International Journal of Innovative Technology and Exploring Engineering (ISSN: 2278-3075, Volume-9 Issue-1, November, Page:670-674, Retrieval Number: A4554119119/2019©BEIESP, DOI: 10.35940/ijitee.A4554.119119, Publisher: Blue Eyes Intelligence Engineering & Sciences Publication)
- Automatic Solar Panel Tracking System, S.Krishnaraj, **A.Ravinthiran**, S.Ganapathy, A.G.S.Siddharth, K.Karan, International Journal of Innovative Technology and Exploring Engineering (ISSN: 2278-3075, Volume-9 Issue-1, November 2019, Page:264-269, Retrieval Number: A4017119119/2019©BEIESP, DOI: 10.35940/ijitee.A4017.119119, Publisher: Blue Eyes Intelligence Engineering & Sciences Publication)
- Development of Flapping Panel Vertical Axis Wind Turbine, V.Pandiyaraj, **A.Ravinthiran**, International Journal of Innovative Technology and Exploring Engineering (ISSN: 2278-3075, Volume-9 Issue-1, November 2019, Page:2119-2122, Retrieval Number: A4539119119/2019©BEIESP, DOI: 10.35940/ijitee.A4539.119119, Publisher: Blue Eyes Intelligence Engineering & Sciences Publication)
- Experimentation of Emission Control on a Four Stroke Diesel Engine using an Eco-Friendly Silencer with Excess Air, A. Dhanalakshmi, M. Suresh, **A. Ravinthiran**, P. Pradeep kumar, A. Saleem, International Journal of Recent Technology and Engineering (ISSN: 2277-3878, Volume-8 Issue-4, November 2019, Page:620-625, Retrieval Number: B2006078219/2019©BEIESP, DOI:10.35940/ijrte.B2006.118419, Publisher: Blue Eyes Intelligence Engineering & Sciences Publication)
- Experiments for calculating Properties of Distilled Water from Solar Still and Potable water from Reverse Osmosis Process, T.Ganesh, **A.Ravinthiran**, S.Santhosh, M.Kannan, B.Dinesh Kumar, International Journal of Recent Technology and Engineering (ISSN: 2277-3878, Volume-8 Issue-4, November 2019, Page:1780-1785, Retrieval Number:

- Small-Scale Power Generation by Horizontal Axis Magnus Wind Turbine, Elangovan N, Ramachandran S, **Ravinthiran A**, Pradeep Kumar J.J, Praveen Raj S, International Journal of Engineering and Advanced Technology (IJEAT), (ISSN: 2249 – 8958, Volume-9 Issue-2, December, 2019, Page: 5104 – 5107, Retrieval Number: B3885129219/2019©BEIESP, DOI: 10.35940/ijeat.B3885.129219, Publisher: Blue Eyes Intelligence Engineering & Sciences Publication )
- Flow Variations and Comparisons of Heat Exchanger Headers with Different Cross Sections, **A. Ravinthiran**, T. Babu, G. Thilak Raj, P. Yaswanth Siddaarth and K. Selva Kamatchi, AIP Conference Proceedings ( ISSN: 1551-7616, Volume-2283, issue-1, Page: 020002-1 to 020002-9, <https://doi.org/10.1063/5.0029256>, Published Online: 29 October 2020 by AIP Publishing)
- A modern low-cost furrow cutting machine, T. Babu, **A. Ravinthiran**, S. Rohit Krishnan, P. Muthu Ananda, and V. Pavitharan, AIP Conference Proceedings ( ISSN: 1551-7616, Volume-2283, issue-1, Page: 020001-1 to 020001-5, <https://doi.org/10.1063/5.0025075>, Published Online: 29 October 2020 by AIP Publishing)
- Teaser Glove for Women Safety, T. Babu, **A. Ravinthiran**, M.S. Yogeswaran, S. Subash, R. Venkatesh, G. Saibharath, IOP Conf. Series: Materials Science and Engineering (Volume 988, issue -1, Page 1-5, doi:10.1088/1757-899X/988/1/012038, Published online: 15<sup>th</sup> December 2020 by IOP Publishing)
- Design, Analysis and Development of Epoxy Resin made Omni directional Wind Turbine, **A. Ravinthiran**, M. Suresh, T. Babu, R. Mani, M. Arul Prakash, IOP Conf. Series: Materials Science and Engineering (Volume 988, issue -1, Page 1-5, doi:10.1088/1757-899X/988/1/012044, Published online: 15<sup>th</sup> December 2020 by IOP Publishing)
- Design and development of sail type wind turbine with solar panel, Ashok Gandhi R, **Ravinthiran A**, Palanikumar K, Materials Today proceedings, (ISSN: 2214-7853, Volume - 46, Part - 9, 2021, Page: 3989-3992, DOI: [10.1016/j.matpr.2021.02.527](https://doi.org/10.1016/j.matpr.2021.02.527), Publisher: Elsevier Ltd.)

## CONFERENCES (National & International):

- “Investigation on two phase flow distribution headers in shell and Tube heat Exchanges using CFD”, A National conference on Modern trends in Mechanical Engineering, held at Nandha Engineering College, Erode, Tamil nadu, India. (23-12-2012)

- “A Comparative Study and Flow Analysis of Multiple branch pipe flow header used in Tube Heat Exchangers”, International Conference on Mechanical, Materials and Manufacturing Systems, held at Sri Sairam Engineering College, Chennai, Tamil Nadu, India (24-02-2016)
- “Investigation of Heat Dissipation between dimple and Normal silencer made of Chrome steel”, held at Chennai Institute of Technology, Chennai, Tamil Nadu, India (20-03-2019)
- “Development and Analysis of Semi-Automatic Safety Inflation Bag”, held at Chennai Institute of Technology, Chennai, Tamil Nadu, India (20-03-2019)
- “Flow Analysis and Comparison of Heat Exchanger Headers of varying cross sections”, held at Chennai Institute of Technology, Chennai, Tamil Nadu, India (13-12-2019)
- “A Modern low cost Furrow Cutting Machine”, held at Chennai Institute of Technology, Chennai, Tamil Nadu, India (13-12-2019)
- *“Teaser Glove for Women Safety” in an International conference on Recent Trends in Material Science and Applications, held at Chennai Institute of Technology, Chennai, Tamil Nadu, India (25-09-2020)*
- *“Design, Analysis and Development of Epoxy Resin made Omni directional Wind Turbine” in an International conference on Recent Trends in Material Science and Applications, held at Chennai Institute of Technology, Chennai, Tamil Nadu, India (26-09-2020)*
- *“Design and development of sail type wind turbine with solar panel” in an International Conference on Materials, Manufacturing and Mechanical Engineering for Sustainable Developments-2020 (ICMSD 2020), held at Sri Sairam Institute of Technology, Chennai, Tamil Nadu, India (19-11-2020)*

## **FACULTY DEVELOPMENT AND TRAINING PROGRAMS:**

- As resource person in a FDP on “Computer Aided Design and usage of Software”, at Sri Sairam Engineering College, Chennai, on *05-08-2016*
- “Teaching excellence in Engineering and Management curriculum”, at Sairam Institute of Management Studies, Chennai, 2 days, from *20-06-2016 to 21-06-2016*
- “Autodesk Inventor” at Sri Sairam Engineering College, Chennai, 5 days, from *04-06-2018 to 08-06-2018*
- “Introduction to research”, Faculty development program by NPTEL, *Feb 2019*
- “Introduction to Autodesk Fusion 360” at Sri Sairam Engineering College, Chennai, 2 days, *22-04-2019 to 23-04-2019*
- “Robotics”, at Sri Sairam Engineering College, Chennai, 6 days, from *13-05-2019 to 18-05-2019*
- “Working Culture for Professionals”, at Sri Sairam Engineering College, Chennai
- “Finite Element Analysis”, at Sri Sairam Institute of Technology, Chennai, 6 Days, *18-11-2019 to 23-11-2019*
- Training program on “Introduction to Robotic Process Automation”, at Simplilearn, *11-04-2020*
- Training program on “Introduction to Artificial Intelligence” at Simplilearn, *11-04-2020*
- AICTE recognised FDP on “Internet of Things”, at NITTR, Chandigarh, 5 days, from *10-04-2020 to 14-04-2020*
- AICTE recognised FDP on “Quantum and Energy Materials: Potential & Applications”, at NITTR, Chandigarh, 5 days, from *04-05-2020 to 08-05-2020*
- FDP on IIT (Inevitable Ingenious Technologies) organized by Sri Venkateshwaraa College of Engineering & Technology, Puducherry, 6 days, from *18th May 2020 to 23rd May 2020*
- AICTE recognised FDP on “Computer Integrated Manufacturing & CNC (CIM/CNC)”, at NITTR, Chandigarh, 5 days, from *25-05-2020 to 29-05-2020*
- “CFD Simulation of Thermal Management of Batteries and Power convertors” at Vel Tech high Tech Dr.Rangarajan Dr.Sakunthala Engineering College on *28.05.2020*.
- Five Days Faculty Development Program on “Emerging Trends in Mechanical Engineering”, organized by Department of Mechanical Engineering, St. Peter’s Engineering College, Hyderabad, from *02-06-2020 to 06-06-2020*.



- Faculty Development Program on “Computational Fluid Dynamics and Engineering Simulations”, organized by Sri Sairam Engineering College, Chennai, from *05-06-2020 to 07-06-2020*.
- Seven Days Faculty development on “Heat Transfer and Computational Fluid Dynamics towards Industrial Applications”, organized by Department of Mechanical Engineering, Sri Sairam Institute of Technology, Chennai, from *12-06-2020 to 18-06-2020*.
- One Week FDP on “Renewable & Sustainable Energy Conversion System”, organized by Department of Mechanical Engineering, Manav Rachna University, Faridabad, Haryana, *from 15<sup>th</sup> to 20<sup>th</sup> June 2020*.
- Five Days Faculty Development Program on “Open FOAM”, organized by VKR, VNB & AGK College of Engineering, Krishna District, Andhra Pradesh in association with Spoken Tutorials, IIT Bombay, from *29-06-2020 to 03-07-2020*.
- Six days Faculty Development Programme on “Recent Innovations and Futuristic Scope for Research in Internal Combustion Engines” organized by St. Joseph’s College of Engineering, Chennai, from *29th June 2020 to 04th July 2020*.
- Faculty Development Program on ‘VIRTUAL LABS’, held virtually from 24-Aug-2020 thru 28-Aug-2020 as part of the “PALS-VLABS 2020-21 INITIATIVE with NITK Surathkal”
- AICTE Sponsored STTP on “Finite Element Analysis for Engineering Applications” at Sri Sairam Engineering College, Chennai, from 05-10-2020 to 10-10-2020(6 days).
- AICTE Atal FDP on “Waste Technology” organized by Dr. MGR Educational and Research Institute, Chennai, from 26-10-2020 to 30-10-2020 (5 Days).
- AICTE Atal FDP on “Robotics” organized by RGPV, Technical University of Bhopal, MP, India, from 03-11-2020 to 07-11-2020 (5 Days).
- AICTE Sponsored STTP on “Design of Experiments” at B.V Raju Institute of Technology, Medak, from 16-11-2020 to 21-11-2020(6 days).
- ISTE Sponsored Workshop on “Research and Development Activities” at Sri Sairam Engineering College, Chennai, from 28-12-2020 to 30-12-2020 (3 Days)

## **WORKSHOPS & SEMINARS:**

- Nano Technology, at Mahendra Engineering College, Salem, Tamil Nadu, India, on *18-02-2011*
- Engineering Thermodynamics, at IIT Bombay, 2 weeks, from *11-12-2012 to 21-12-2012*

- Entrepreneurship Development Programme, at Vidyaa Vikas College of Engineering College, Tiruchengode, 4 Days, *30-01-2013 to 02-02-2013*
- Engineering Mechanics, at IIT Bombay, 2 weeks, *26-11-2013 to 06-12-2013*
- Fluid Mechanics, at IIT kharagpur, 2 weeks, from *20-05-2014 to 30-05-2014*
- Industry Institute interaction event on Environment Management in Industrial sectors – Status and needs, at Sri Sairam Engineering College, Chennai, 2 days, from *24-07-2014 to 25-07-2014*
- Role of Lean Manufacturing on organization competitiveness, at Sri Sairam Engineering College, Chennai, on *28-08-2014*
- Creo Parametric 3D Modeling Software and its applications, at Sri Sairam Engineering College, Chennai, 3 days, from *13-06-2018 to 15-06-2018*
- IPR Arena – Patent Filing procedure, at Sri Sairam Engineering College, Chennai, on *21-06-2018*.
- Challenges and opportunities in artificial intelligence diagnostic tool for diabetic Retinopathy, at GRT Institute of Engineering and Technology, Tiruttani, 2 days, from *19-07-2018 to 20-07-2018*.
- Entrepreneurship Awareness camp, at Sri Sairam Engineering College, Chennai, 3 days, *26-02-2019 to 28-02-2019*.
- Intellectual Property week Quiz, at Sairam College of Engineering, Bengaluru, *03-05-2020*
- India's First Leadership Talk Webinar, by MHRD's Innovation Cell, *On 2<sup>nd</sup> May 2020*
- Webinar on "e-vehicles for sustainable transportation" organized Geenthanjali Institute of Technology, Nellore, on *14th May 2020*.
- The Future skills – Education, Employment & Entrepreneurship, an Expert session conducted by ICT Academy on *4<sup>th</sup>, 5<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup> and 13<sup>th</sup> May 2020*.
- Webinar on “Recent trends in Reliability Engineering” at Vels Institute of Science, Technology & Advanced studies, on *22<sup>nd</sup> May 2020*.
- Webinar on “NOx and PM Emissions - Formation and Control” at Rajalakshmi Engineering College held on *28th May 2020*.
- “Insights to Industry 4.0” webinar organized by S.A Engineering College, Chennai on *29<sup>th</sup> May 2020*.
- “Future scope of Electric Vehicle” a webinar organized by Motorsport Engineers, AMZ Automotive, on *June 2020*
- “Solar Energy - Importance in curriculum & Job Opportunities” a webinar hosted by Green Energy Club in association with REAP (MHRD-initiative) and T&P cell, Sri Venkateshwaraa College of Engineering and Technology, Puducherry, on *27.05.2020*
- “Current Challenges and opportunities for Mechanical Engineers” a webinar conducted by P.S.R

Engineering College, Sivakasi, *5<sup>th</sup> June 2020*.

- International webinar on “Finite Element Modeling of Metal Forming Processes” organized by Poornima College of Engineering, Jaipur, *on June 5<sup>th</sup> 2020*.
- “Digital Manufacturing – A New Era”, Webinar, organized by Sri Sairam Engineering College, Chennai, *on 10-06-2020*.
- “Emerging Trends in 3D Printing” Webinar, organized by Velammal Engineering College, Chennai, in association with Diagonal CADD, AIEMA Technology Centre, Chennai *on 11-06-2020*.
- “R & D Proposal writing for Faculties” Webinar, organized by Sri Sairam Engineering College, Chennai, *on 12-06-2020*.
- Webinar on “Modern Perspective to Finite Element Method & its Engineering Applications, conducted by Department of Science & Humanities, SRM TRP Engineering College, Trichy, *on 26-06-2020*.
- Webinar on “Advanced Combustion Concepts”, organized by St. Joseph’s College of Engineering, Chennai, *on 29<sup>th</sup> June 2020*.

#### **ONLINE CERTIFICATION COURSES:**

- “Basics of Finite Element Analysis-I”, NPTEL Certification course, 8 weeks course, *Feb – March 2018*
- “Introduction to Research”, NPTEL Certification course, 8 weeks course, *Feb – April 2019*
- “Artificial Intelligence”, Udemy certification course, *Nov 2019*.
- “Basics of PLC programming from zero using LogixPro simulator”, Udemy certification course, *Nov 2019*
- “3D Printer hardware guide”, Udemy certification course, *Nov 2019*
- “Java Programming Fundamentals”, Udemy certification course, *March 2020*
- “Digital Manufacturing and Design”, an online course authorized by University at Buffalo and the State University of New York, *May 2020*
- “Advanced Manufacturing Process Analysis”, an online course authorized by University at Buffalo and the State University of New York, *May 2020*
- “Renewable Energy and Green Building Entrepreneurship”, an online course authorized by Duke University, *May 2020*

- “Digital Manufacturing and Design”, an online course authorized by University at Buffalo and the State University of Newyork, *May 2020*
- “Digital Thread: Components”, an online course authorized by University at Buffalo and the State University of Newyork, *May 2020*
- “Successful Presentation”, an online course authorized by University of Colorado Boulder, *May 2020*
- “Advance Manufacturing Enterprise”, an online course authorized by University at Buffalo and the State University of Newyork, *May 2020*
- “Initiating and Planning Projects”, an online course authorized by University of California, Irvine, *May 2020*
- “Digital Thread: Implimentation”, an online course authorized by University at Buffalo and the State University of Newyork, *May 2020*
- “Cyber Security in Manufacturing”, an online course authorized by University at Buffalo and the State University of Newyork, *May 2020*
- “Leadership and Emotional Intelligence”, an online course authorized by Indian School of Business, *May 2020*
- “Work Smarter not Harder: Time Management for Personal & Professional Productivity”, an online course authorized by University of California, *May 2020*
- “The Sustainable Development Goals – A Global, Transdisciplinary vision for the future ”, an online course authorized by University of Copenhagen, *May 2020*
- “ Project Management: The Basics for Success”, an online course authorized by University of California, Irvine, *May 2020*
- “ Introduction to Google Docs”, an online course authorized by Coursera Project Network, *June 2020*
- “ Create Informative Presentations with Google Slide”, an online course authorized by Coursera Project Network, *June 2020*

A.Ravinthiran

17-02-2022