


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

|   |   |
|---|---|
| Name: R. Senthil Kumar                          |     |
| Designation:                                    | Assistant Professor   |
| Qualification:                                  | M.E. (P.hD)   |
| Area of Specialization:                         | Manufacturing Engineering   |
| Experience:                                     | Teaching – 11 Years 8 Months  |
|   | Industry- Nil   |
| Number of Workshops/ Conferences/ FDP Attended: | WORKSHOP- 14<br>NATIONAL/INT. CONFERENCE- 04  |
| Publication:                                    | Journal:<br>National:01<br><b>International:05</b>                                    |
|   | Conference:<br>National:<br><b>International: 04</b>                                  |
| General:  |   |
| Staff Achievement                               | IEDC Funded Project – ISIS Headgear<br>IEDC Funded Project – RA Solar Decoction Maker |

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.               | Manufacturing  | 2008            | Anna University, MIT Campus              | Anna University        | 8.6                          | I / Distinction |
| <b>UG</b>   | B.E.               | Mechanical     | 2006            | Sri Sai Ram Engineering College          | Anna University        | 75                           | I               |
| <b>HSC</b>  |                    |                | 2002            | Madras Christian College Hr. Sec. School | Tamil Nadu State Board | 89.33                        | I               |
| <b>SSLC</b> |                    |                | 2000            | Madras Christian College Hr. Sec. School | Tamil Nadu State Board | 80.2                         | I               |

Professional Experience:

| Sl. No | College/Organization                    | Designation         | Period<br>From To          | Total Period        | Nature of work |
|--------|---|---------------------|----------------------------|---------------------|----------------|
| 1      | Sri Sai Ram Engineering Collge          | Assistant Professor | June 2010 to Till Date     | 10 Years<br>1 Month | Teaching       |
| 2      | GKM College of Engineering & Technology | Lecturer            | December 2008 to June 2010 | 1 Year<br>7 Months  | Teaching       |

International Conferences Attended: 04

Papers published in the international conferences: 03

Short Term Course (Refresher courses) Attended: - 04 (NPTEL)

Faculty/Staff Development /Training Program (Orientation programmes) Attended: 14

Resource person In FDP: -

Workshops Attended: 14

Events organized: -

Funded Projects: - 02 (Funded by IEDC)

List of publications in international journals: -

➤ **Conferences Attended**

- **R. Senthil Kumar**, S. Gajendran, R. Kesavan, “**Evaluation of Optimum Machining Parameters by AWJM for Granite through Multi Response Methods**” in 2nd International Conference on Materials Manufacturing and Modelling, ICMMM – 2019, VIT, Vellore.
- International Conference on “**Future of Advanced Manufacturing (ICFAM)**”, IIT Madras Research Park Auditorium, 15<sup>th</sup> March, 2019.
- T. Prithivi, R. Premkumar, **R. Senthil Kumar**, “**Abrasive Waterjet Machining of Various Materials: A Review**” in ICETS’17, 4<sup>th</sup> International Conference on Engineering Technology & Science, Muthayammal Engineering Institutions, Rasipuram.
- **R. Senthil Kumar**, S. Gajendran, L. Lingaraj, R. Kesavan, “**Optimization of process parameters for machining marble using abrasive water jet machining through multi response techniques**” in ICMMS 2016, International Conference on Mechanical, Materials and Manufacturing Systems. Department of Mechanical Engineering, Sri Sai Ram Engineering College, Chennai.

➤ **Journal Publication**

- **R. Senthil Kumar**, S. Gajendran, R. Kesavan, “**Evaluation of Optimum Machining Parameters by AWJM for Granite through Multi Response Methods**” Materials Today: Proceedings 22 (2020) 3056–3066.
- **R. Senthil Kumar**, Krishnaraj.S Vijaya Ramnath.B, Adhitya.R.M, Anand.R.Iyer, “**Impact and Hardness Characteristics of Cfrp-Kenaf-Abaca Fiber Composites**” International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-4, November 2019.
- Aadeshwaran K, Jaya Suriya S, Tamizharasan V, Vignesh K, **Senthil Kumar R**, “**Economic Harvester**” International Journal of Research and Analytical Reviews (IJRAR), (E-ISSN 2348-1269, P- ISSN 2349- 5138), July 2019, Volume 6, Issue 3.

- **R. Senthil Kumar, S. Gajendran, R. Kesavan, “Estimation of Optimal Process Parameters for Abrasive Water Jet Machining Of Marble Using Multi Response Techniques”** Materials Today: Proceedings 5 (2018) 11208–11218.
- T. Prithivi, R. Premkumar, **R. Senthil Kumar, “Abrasive Waterjet Machining of Various Materials: A Review”** 2017/Advances in Natural and Applied Sciences. 11(6) Special 2017, Pages: 445-453.
- **R. Senthil Kumar, S. Gajendran, L. Lingaraj, R. Kesavan, “Optimization of process parameters for machining marble using abrasive water jet machining through multi response techniques”** Indian Journal of Science and Technology, Vol 9 (S1)DOI: 10.17485/ijst/2016/v9iS1/108477, December 2016.

➤ **FDP's Attended**

- Attended an Online Faculty Development Program on **“Testing of Materials for Engineering Applications”**, (22<sup>nd</sup> to 26<sup>th</sup>) June 2020, Department of Mechanical Engineering, Meenakshi Sundararajan Engineering College Chennai.
- Attended an Online Faculty Development Program on **“Research Methodologies, Tools and Techniques”**, (8<sup>th</sup> to 12<sup>th</sup>) June 2020, Department of Electrical and Electronics Engineering, QIS College of Engineering and Technology, Ongole Andhra Pradesh.
- Attended an Online Faculty Development Program on **“Introduction to Soft Computing”**, (8<sup>th</sup> to 12<sup>th</sup>) June 2020, Department of Mechatronics Engineering, Rajalakshmi Engineering College (Autonomous), Thandalam, Chennai 602 105.
- Attended Online AICTE Recognized Faculty Development Program on **“Computer Integrated Manufacturing & CNC (CIM/CNC)”**, (25<sup>th</sup> to 29<sup>th</sup>) May 2020, Mechanical Engineering Department, National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh.
- Attended Online AICTE Recognized Faculty Development Program on **“Modeling and Simulation using MATLAB”**, (18<sup>th</sup> to 22<sup>nd</sup>) May 2020, Mechanical Engineering Department, National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh.

- Attended Online AICTE Recognized Faculty Development Program on **“MATLAB Programming”**, (11<sup>th</sup> to 15<sup>th</sup>) May 2020, Electrical Engineering Department, National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh.
- Attended an Online Faculty Development Program on **“An Approach for Technical Skill Enhancement (FDPTSE-2020)”**, (5<sup>th</sup> to 10<sup>th</sup>) May 2020, IQAC, Toshniwal Arts, Commerce and Science College, Sengaon, Dist. Hingoli, Maharashtra, India.
- Attended Online AICTE Recognized Faculty Development Program on **“Computer Aided Design and Manufacturing (CAD/CAM)”**, (27<sup>th</sup> April 2020 to 01<sup>st</sup> May 2020), Mechanical Engineering Department, National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh.
- Attended Online AICTE Recognized Faculty Development Program on **“Operational Research – An Introduction”**, (20<sup>th</sup> to 24<sup>th</sup>) April 2020, Applied Science Department, National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh.
- Attended Online AICTE Recognized Faculty Development Program on **“Internet of Things”**, (15<sup>th</sup> to 19<sup>th</sup>) April 2020, Computer Science and Engineering Department, National Institute of Technical Teachers Training and Research (NITTTR) Chandigarh.
- Attended AICTE Sponsored Faculty Development Program on **“IoT and Advanced Technologies in Manufacturing”**, (11<sup>th</sup> to 23<sup>rd</sup>) November 2019, Department of Mechanical Engineering, Panimalar Engineering College, Chennai 600 123.
- Attended a Short Term Training Program on **“Natural Fiber Composites - Recent Technology for Sustainability and Eco - Friendly Environment”**, (24<sup>th</sup> to 29<sup>th</sup>) June 2019, Department of Mechanical Engineering, Sri Sairam Engineering College, Chennai

- Attended a Faculty Development Program on **“Processing and Characterization of Composite Materials including Fiber Re-inforced Composites”**, (18<sup>th</sup> to 31<sup>st</sup>) March 2015, Department of Mechanical Engineering, Sri Sairam Institute of Technology, Chennai.
- Attended a Faculty Development Program on **“Unconventional Machining Processess”**, (3<sup>rd</sup> to 10<sup>th</sup>) December 2013, Department of Production Technology, Anna University, MIT Campus, Chennai.

➤ **Workshops Attended**

- Attended Two days Online Workshop on **“Additive Manufacturing”**, 15<sup>th</sup> & 16<sup>th</sup> May 2020, Department of Mechanical Engineering, S.A. Engineering College (Autonomous) Chennai.
- Attended Two days Online Workshop on **“Patent Drafting and Processing with Importance of Trademark & Copyright”**, 6<sup>th</sup> & 7<sup>th</sup> May 2020, Hexacube & IJER.
- Attended Two days Online Workshop on **“Fuzzy Logic and Neural Network Approaches for Engineering Solutions”**, 29<sup>th</sup> & 30<sup>th</sup> April 2020, Hexacube & IJER.
- Attended a Three days Online Workshop on **“Design of Experiments: An Engineering Perspective”**, 25<sup>th</sup> 26<sup>th</sup> & 27<sup>th</sup> April 2020, Hexacube & IJER.
- Attended a Two days National Seminar on **“Role of Smart Materials in Aerospace and Engineering Applications”**, 16<sup>th</sup> & 17<sup>th</sup> December 2019, St. Joseph's College of Engineering, Chennai.
- Attended a one day workshop on **“Magnetically Impelled Arc Butt (MIAB) Welding”**, 13<sup>th</sup> April 2019, Department of Metallurgical and Materials Engineering, IIT Madras.
- Attended a one day National Seminar on **“3D printing of composite materials - A digital additive manufacturing - (PRICOM'2019)”**, 20<sup>th</sup> March 2019, AMET University, Chennai.

- Attended a one day workshop on “**Advanced Automotive Research**”, 3<sup>rd</sup> December 2019, IC & SR Auditorium, IIT Madras.
- Attended a one day workshop on “**Wiley Author Workshop**”, 19<sup>th</sup> November 2018, University Library, College of Engineering, Guindy, Chennai.
- Attended a one day workshop on “**Recent Trends in Optimization Techniques – RTOT 2017**”, 21<sup>st</sup> April 2017, Department of Mechanical Engineering, Velammal Engineering College, Chennai.
- Attended a one day National Level workshop on “**Advances in Design of Experiments (DOE)**”, 21<sup>st</sup> October 2016, Department of Manufacturing, School of Mechanical Engineering, VIT University, Vellore.
- Attended a one day workshop on “**Recent Trends in AWJM**”, 19<sup>th</sup> February 2016, Department of Production Technology, Anna University, MIT Campus, Chennai.
- Attended a one day workshop on “**Development, Manufacturing and Analysis of Advanced Composites**”, 19<sup>th</sup> December 2015, Department of Mechanical Engineering, SRM University, Chennai.
- Attended a Two day National Level workshop on “**Design of Experiments**”, 24<sup>th</sup> & 25<sup>th</sup> August 2014, Department of Mechanical Engineering, Sri Sairam Institute of Technology, Chennai.

➤ **Short Term Course (Refresher courses) Attended**

- NPTEL Online Course – Cost Accounting (July 2019 – August 2019) {½ **FDP of One Week**}
- NPTEL Online Course – Effective Engineering Teaching in Practice (January 2019 – February 2019) {½ **FDP of One Week**}
- NPTEL Online Course – Engineering Economic Analysis (February 2018 – April 2018)
- NPTEL Online Course – Strength of Materials (July 2017 – October 2017)