Profile

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| * **Dr. R.Ranganatha** | DSC_0273 (1) |
| * **Professor** |
| * **Working** at SJCIT since 17th May 1999 |
| * **Phone:** 98453 12626 * **Email Id:**   [rrmedsjcit@gmail.com](mailto:rrmedsjcit@gmail.com)  ranganathsjcit@yahoo.co.in |
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# Academic Qualifications:

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| **Qualifications** | **Board / University** | **Institute and place** | **Year of passing** |
| B.E. | Bangalore University | M.S.R.I.T., Bangalore | July 1991 |
| M.E. | Bangalore University | UVCE, Bangalore | February  1995 |
| Ph.D | Bangalore University | UVCE, Bangalore | June 2014 |

**Experience:**

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| **Organization** | **Designation** | **Period** |
| S.J.C. Institute of Technology | Professor | May 1999 - Present |
| M/S. Rapsri Engineering Industries Limited, Bangalore | Assistant Manager | April 1995 – May 1999 |
| Dayananda Sagar Polytechnic | Lecturer | February 1992 – June 1992 |
| M/S. Meenakshi Steel Re- Rolling Private Limited, Bangalore | Trainee Engineer | October 1991 – January 1992 |
| **Summary** | **Teaching** | **Industry** |
| **27 years -Total** | **22 years** | **5 years** |

# Specialization:

1. Metal Casting Science, particularly specialized in Copper base alloy castings.
2. Heat Treatment and Metallurgy
3. Fluid Mechanics and Turbomachines

# Subject Taught:

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| 1.Material Science & Engineering | 10. Automotive Engineering |
| 2. Applied Thermodynamics | 11. Industrial Management |
| 3. Manufacturing Process | 12. Introduction to Computer Programming |
| 4. Metrology and Measurements | 13. Advanced Material Technology |
| 5. Fluid Mechanics | 14. Mechanics of Composite Materials |
| 6. Fluid Machinery | 15. Non Destructive Testing |
| 7. Turbo machines | 16.. Control Engineering |
| 8. Mechatronics & Microprocessor | 17. Concurrent Engineering |
| 9. Heat & Mass Transfer | 18. Software Engineering [ during 2002-2003] |

# Publication Details [Recent years)

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| --- | --- | --- | --- | --- |
| Faculty Name. | Publication [National / International] | Published in/at | Publication Title | Year |
| R.Ranganatha et. al., | National | Aluminium in India | Retrogression and Re-aging heat treatment on the properties of high strength aluminium alloys | 2010 |
| R.Ranganatha et. al., | Inter national | International Journal of Engineering & Technology | Retrogression and Re-Aging treatment of AA 7049 aluminium alloy | 2011 |
| R.Ranganatha et. al., | Inter national | International Journal of Advanced Materials Science | A study on age hardening behavior of the high strength aluminium alloy | 2011 |
| R.Ranganatha et. al., | Inter national | Transactions of Nonferrous Metals Society of China | Multi-stage heat treatment of aluminium alloy AA 7049 **Citations: 57** | 2013 |
| R.Ranganatha et. al., | International | International Journal of Engineering Research and Advanced Technology | Development and Implementation of Client-Server architecture for PLC based miniature bending machine | 2016 |
| R.Ranganatha et. al., [Coauthor] | International | International Journal of Scientific research and development | Investigation on mechanical behavior of hybrid jute/sisal fiber reinforced polyester composites | 2017 |
| R.Ranganatha et. al.,  [Coauthor] | International | Materials Performance and Characterization [ASTM] | Influence of RRA Treatment on Intergranular Corrosion Resistance and Exfoliation resistance in AA7010 Aluminium Alloy | 2021 |
| R.Ranganatha et. al., | International | Material Science and Heat Treatment {Springer] | Effect of Retrogression and re-aging on tensile mechanical properties in transverse direction of extruded rods from aluminium alloy AA 7049 | 2021 |
| R.Ranganatha et. al.,  [Coauthor] | International | Transactions of Indian Institute of Metals | Mechanical and Moisture absorption behavior of Alkali Treated Sida Acuta Composite | 2021 |

**Important Paper presented in Conference**

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| Name of the Faculty | Title of the workshop/Conference | Date and Venue |
| R.Ranganatha | International conference on Higher Education | **Indian Institute of**  **Science,** Bangalore, 12th -14th July 2007 |
| R.Ranganatha et. al., | 48th Annual Technical Meeting and National Metallurgists Day (International  Conference),  Won II prize for best presentation | **Indian Institute of Science,** Bangalore,  14th -16th November 2010 |
| R.Ranganatha et. al., | International Conference on World Class Materials & Manufacturing Technologies- M&MT 2011 | **American Society of Metals,** Mumbai, India, 8th – 10th March 2011 |
| R.Ranganatha et. al., | International Conference on Strength of Materials-ICSMA 16 | **Indian Institute of Science,** Bangalore, 19th - 24th August 2012 |
| R.Ranganatha et. al., | TMS 2015 (International Conference) | Florida, 15th March to 19th March 2015 |

# Consultancy Activities:

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| **Organization** | **Designation** | **Period** |
| M/S. Mechelonic Weld Private Limited, | Foundry Consultant | June 2002 – Dec 2002 |
| Centre for Continuing Education, Southern Region, Institute of Indian Foundry men | Resource Person | Dec 2003 – Dec 2004 |
| The Institute of Indian Foundrymen,  Bangalore Chapter | Hon. Secretary  Vice Chairman  **Chairman** | April 2014 – April 2017  May 2017 – April 2018  May 2018 – April 2020 |

**Student Projects Guided:**

* Have guided about 25 B.E.(Mechanical Engineering) and 12 M.Tech student projects. Presently 3 M.Tech (Industrial Automation & Robotics & Mechanical Engineering) student projects are being guided.
* 2 Research Scholars are pursuing Ph.D degree

# R & D Project

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| Sl No. | Name of the Faculty | Projects Title | Project Sanctioned | Status of the project |
| 1` | R.Ranganatha | Development of Functionally graded material | Rs.50,000=00 | completed |
| 2 | R.Ranganatha | Establishment of Stress Corrosion Cracking test set up | Rs.5,00,000=00 | completed |
| 2 | R.Ranganatha | Corrosion testing of Aluminium alloys- consultancy services | Rs.1,50,000=00  earned so far | On going |

**Recognitions**

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| **1** | **Certificate of Appreciation for the contribution to EMC Academic Alliance Program by EMC2 Limited, Bangalore** | C:\Users\ADMINI~1\AppData\Local\Temp\Rar$DI03.617\EMC.jpg |
| **2** | **Project Staff in developing India’s First Compulsator at Indian Institute of Science, Bangalore** |  |
| **3** | **Certificate of Appreciation for the development of Industrial and Automation Laboratory with a grant of Rs.20 lakhs worth Equipments** |  |

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| **Additional responsibilities handled** | 1. First member to introduce Industrial Visits and Technical Talks in relevance to  the subjects studied by the students at SJCIT |
| 2. First faculty member to initiate Research and Development activities at  Mechanical Engineering by developing Centrifugal Castings Machine, Heat Treatment Furnace and setting up facilities to observe microstructure |
| 3. Development of Procedural Manual for getting ISO 9001 certification and  mapping various activities to acquire accreditation by NBA. |
| 4. Initiated and Established Placement and Training Centre at SJCIT  Since 1999 to 2010; worked as Placement Officer. More than 50 different companies had visited SJCIT for campus recruitment and about 1000 students have got employment in this tenure. About 7 MoU were established during tenure. The present complete Placement Facility was established by this  team. |
| 5. Established E.D.P. Cell |
| 6. Since 2014; established technical consultancy services at MED. Presently, the consultancy services are provided to the following Industries.  M/S. Hindalco Limited, Mumbai  M/S. Rachamallu Forgings Private Limited, Hyderabad M/S. Vikram Sarabhai Space Centre, Trivandram |
| 7. Design of Curriculum: Through consistent efforts, Dot Net Technologies, Object Oriented Analysis and Design, Storage Area Network, Hydraulics, Pneumatics and PLCS courses have become integral part of B.E. Mechanical  and Computer Science disciplines. |

# Membership of Professional Bodies:

* Fellow Member of Institution of Engineers, Kolkatta.
* Life Member of Indian School of Technical Education, New Delhi
* Member of Institute of Indian Foundry men, Kolkatta
* Member of Aluminium Association of India, Bangalore
* Member of Indian Institute of Metals, Bangalore
* Member of Bangalore Science Forum, Bangalore
* Member of Indian Society of Heating, Refrigeration and Air Conditioning, New Delhi
* Life member of Indian Society of Systems for Science and Technology

# Books Authored:

Presently authoring a book on “**Understanding Electrical Concepts through SME approach”;** Status: The Manuscript is ready and it is undergoing corrections.