



**Dr. S. Nagarajan**

**Position:** Professor

**Office:** Electro Mechanical Chair, Faculty of Mechanical and Industrial Engineering, BiT, BDU

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**Phone:** +251 – 965309600, +91- 9443564928 (whatsapp)

**Education:**

- ✓ Ph.D., in Mechanical Engineering, at Anna University, Tamilnadu, India
- ✓ M.S., in Mechanical Engineering, at Madurai Kamaraj University, India
- ✓ B.E., in Mechanical Engineering, at Madurai Kamaraj University, India

**Courses:**

- ✓ M.Sc, Electro Mechanical Engineering , Industrial Automation
- ✓ M.Sc, Electro Mechanical Engineering , Fluid Power Systems Design
- ✓ M.Sc, Electro Mechanical Engineering , Advanced Control systems
- ✓ M.Sc, Electro Mechanical Engineering , Advanced Power Electronics and its applications
- ✓ M.Sc, Electro Mechanical Engineering , Electro Mechanical Drive Systems
- ✓ M.Sc, Industrial Engineering , Seminar and Scientific Research methods
- ✓ M.Sc, Industrial Engineering , Industrial Project Management

**Professional Experience:** (30 years)

- ✓ Teaching and Research : 21.5 years (India, Ethiopia –Bahirdar University, Mattu University)
- ✓ Industry : 8.7 years (India, Ghana, Nigeria)

**Research Interests:**

- ✓ Knowledge Engineering and Management in Manufacturing Industry
- ✓ Fuzzy logic in Electro mechanical systems
- ✓ Polymer Composite materials
- ✓ Metal matrix composite
- ✓ Cellular manufacturing system

**Book Published**

a) Title : **Design and Development of Knowledge Management for Manufacturing**  
<https://link.springer.com/book/10.1007/978-3-319-02892-7>

Authors : K. Ganesh, Sanjay Mohapatra, S. Nagarajan  
Name of the Publisher : Springer  
Year : 2014

- b) Title : **Fundamental and Applications of Green Energy Systems**  
 Authors : G. Mahendran, M. Jinnah Mohamed, **S. Nagarajan**, Santhosh Kumar Sahu  
 Name of the Publisher : Scientific International Publishing House  
 Year : 2022  
 ISBN : 978-93-94002-77-7
- c) Title : **Medical Equipment Engineering : Design, Manufacturing and Applications.**  
 Book Chapter(chapt.13) : Human –robot interaction in medical equipment manufacturing  
[https://digital-library.theiet.org/doi/10.1049/PBHE054E\\_ch13](https://digital-library.theiet.org/doi/10.1049/PBHE054E_ch13)  
 Authors :R. Kamalakannan, Dadapeer Doddamani, P. Sivakumar, S. Nagarajan, and J. Vairamuthu  
 Name of the Publisher : IET Books (The Institution of Engineering and Technology)  
 Year : August 2024
- d)Title : **ESG Innovation for sustainable Manufacturing Technology: Applications, designs and standards.**  
 Book Chapter(chapt.09) : Trends for additive manufacturing in the ESG and green sustainable technology era.  
[https://digital-library.theiet.org/doi/10.1049/PBME027E\\_ch9](https://digital-library.theiet.org/doi/10.1049/PBME027E_ch9)  
 Authors : R. Kamalakannan, P. Sivakumar, Dadapeer Doddamani, TanKoon Tatt, and S. Nagarajan,  
 Name of the Publisher : IET Books (The Institution of Engineering and Technology)  
 Year : October 2024

### List of Publications in Journals – (28- International Journals)

(2025-1,2023-1, 2022 -2, 2021-4, 2020-2, 2019-2, 2018 – 2, 2017 – 1, 2013 – 2, 2012 – 6, 2011- 1, 2010 - 3, 2009 – 1)

S.No	Year	Publisher	Indexed	No of papers	Impact factor
1	2025	Springer (Accepted)	Scopus Indexed	1	1.9
2	2023	Hindawi	Web of Science	1	3.791
3	2022	Hindawi IOP Science	Scopus Indexed Web of Science	1 1	2.098 1.2
4	2021	Springer others	Scopus Indexed/SCIE	2 2	2.84, 2.621
5	2020	Interciencia, Venezuela Tierärztliche Praxis	Science Citation Index Expanded Scopus Indexed	1 1	0.28
6	2019	Springer. Switzerland & Inderscience, Uk	Scopus Indexed	2	0.22 & 0.29
7	2018	Medwell, & Inderscience, UK	Scopus Indexed	2	0.12 & 0.27
8	2017	Inderscience, Uk	Scopus Indexed	1	0.27

9	2015	Research India Publications	Scopus Indexed	1	0.20
10	2013	Inderscience, Uk	Scopus Indexed	1	0.47
11	2012	Inderscience, Uk	Scopus Indexed	6	0.16 to 0.37
12	2011	Serial Publication,India	NIL	1	0.17
13	2010	Inderscience, Uk	Scopus Indexed	3	0.12 to 0.15
14	2009	Inderscience, Uk	Scopus Indexed	1	0.15

### Proceedings:

A Comparative Study on Mechanical Properties of Coir Fiber Reinforced Polymer Composites Filled with Calcium Carbonate Particles, Materials today: Proceedings, ELSEVIER, August 2020, PII: S2214-7853(20)36238-6.

### Journal paper Reviewer

- EJAS Journal of Science and Technology, Mattu University, Ethiopia
- Journal of Engineering Research and Reports, India
- European Alliance for Innovation (EAI) EAI ICAST 2024 conference, BiT,BDU

### Research Project done

Research Title: Mortality Prediction of Patients in Intensive Care Unit Using Machine Learning Model (A Case Study on Hospitals in Western Ethiopia. As **Co-Investigators- Mattu University**.  
**Duration:** 01-12-2021 to 30-06-2022 **Grant from University:** ETB 211,970.00.

### Conference Paper Presented

- Presented a paper entitled “Framework for Knowledge Management Need Assessment”, International Conference on Modeling Optimization and Computing (ICMOC2012) and one more paper “Process Design Framework for Implementation of Knowledge Management in Manufacturing Organisation” at the 1<sup>st</sup> International conference on Recent Advances in Mechanical Engineering, ICRAM - held at **Noorul University, Kumaracoil, Thuckalay,. April 2012.**( Procedia Engineering – ELSEVIER-38, 3668-3690, 2012) & during April 2010
- Presented a paper entitled “Organizational structure and communication design for knowledge management solution implementation”, Second International Conference on Simulation, Modeling and Analysis, COSMA 2011, **Amrita School of Engineering, Coimbatore -Tamilnadu, India, December 2011.**
- Presented a paper entitled “Development of Learning Design for Knowledge Management – A Case Study”, at the International conference on Operational Research for Urban and Rural Development, ORURD- held at **Thiagarajar College of Engineering, Madurai**, during December 2010.
- Presented a paper entitled “Development of framework and Model for Gaps versus Opportunities and Taxonomy Architecture for Knowledge Management- A case study” at the International conference on operations Research applications in Engineering and Management held at **Anna University, Tiruchirappalli**, during May 2009.
- Presented a Paper titled “Behavior Assessment Framework and Methodology for Knowledge Management- an Empirical study” at the 12<sup>th</sup> Annual conference of the society of operations management held at **IIT, Kanpur**, during December 2008
- Presented a Paper titled “Development of Readiness Assessment approach for knowledge management- A case of textile machinery manufacturing organization” in the 1<sup>st</sup> International Conference on Data Management organized by Institute of Management Technology, **(IMT) Ghaziabad**, during February, 2008.

7. Two more paper presented at various colleges.

### Events Organized

- **Organized “International Conference** on Emerging Trends in Engineering and Technology (ICETEI’20)”, *Pandian Saraswathi Yadav Engineering College*, 13-14<sup>th</sup> March 2020 & 15-16<sup>th</sup> March 2019, & 9,10<sup>th</sup> March 2018.
- Organized Five days “*Women Entrepreneurship Awareness Camp*” **sponsored** by Centre for Entrepreneurship development, Madurai, 21-25<sup>th</sup> January 2019.
- Organized three days “*Entrepreneurship Awareness Camp*” **sponsored** by Centre for Entrepreneurship development, Madurai, 27-29<sup>th</sup>, December 2018
- Signed MOU with HCL Technologies Ltd., Madurai and Maditssia.
- Organized Five **International conference** out of which two had been conducted in collaboration with IEEE (**ICCIC**) pothigai sub section of Chennai section (2016,2015, 2014, 2013- Two) **at Vickram College of Engineering**
- Organized “**Entrepreneurship Awareness Camp**” sponsored by Department of National Science and Technology, Govt. of India, 16-18 August 2016 and one in association with Ministry Human Resources Development and Anna University Regional Office, Madurai, 22-23 July 2014 and also in association with District Employment Center, Sivaganga and UYEGP Scheme of Tamilnadu Government, 19-20, February 2014.
- *Organized “Faculty Development Program on SPSS in Optimization Techniques”, 18 June 201 and “Faculty Training Program on Structural & Thermal Analysis using Ansys 12.0”, Vickram College of Engineering, 17–21, December 2013.*

### Community Services

- Established Computer Lab for students at Mettu Secondary School, Mettu, Ethiopia. (Self-funded- Group activity- 30000 ETB), June 2022.
- Constructed Female Staff Toilet for students at Mettu Secondary School, Mettu, Ethiopia. (Self-funded- Group activity- 60000 ETB), May-June 2022.
- Donated Safety Jacket to Bishhari Park, Mettu, Ethiopia. (Self-funded- Group activity- 15000 ETB), January 2023.

### Anna University Research Supervisor

Recognized Research Supervisor of Anna University, Chennai under the faculty of Mechanical Engineering. (Reg. No: 2820009)

### Countries Worked/visited

- Taiwan, Singapore, Hongkong, Ghana (Accra), Lagos (Nigeria), Ethiopia

### Personal Details

Date of birth and Age	: 26-5-1969 - 55 years
Marital Status	: Married - having one daughter (married).
Spouse Name	: S. Anuradha – Home maker
Nationality	: Indian
Passport Number	: U 8816262 Expiry Date: 01-03-2031; P. Issue: Madurai
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<https://www.scopus.com/authid/detail.uri?authorId=57867747700>

<https://scholar.google.com/citations?user=BIAlscAAAAAJ&hl=en>

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