

## Dr. SUNIL.B

Assistant Professor, Department of Mechanical Engineering, Siddaganga Institute of Technology, Tumakuru-572103

Contact: +91 9964011547

Email: [sunilb@sit.ac.in](mailto:sunilb@sit.ac.in)

Vidwan ID: **91207**

Scopus ID: [57224960890](#)

OrCID: [0000-0001-7227-3815](#)

Faculty ID: **SITF0624**



### Education

|   | Degree                  | Year | Institute                             | Specialization                  |
|---|-------------------------|------|---------------------------------------|---------------------------------|
| 1 | Bachelor of Engineering | 2008 | Visvesvaraya Technological University | Mechanical Engineering          |
| 2 | Master of Technology    | 2012 | Davanagere University                 | Machine Design                  |
| 3 | Doctor of Philosophy    | 2021 | Visvesvaraya Technological University | Mechanical Engineering Sciences |
|   |                         |      |                                       |                                 |

### Professional Experience

|   | Date (from-to)       | Designation         | Organization   |
|---|----------------------|---------------------|--|
| 1 | July 2017- Till date | Assistant Professor | Siddaganga Institute of Technology, Tumkur. Karnataka  |
| 2 | July 2014- July 2017 | Assistant Professor | Acharya Institute of Technology, Bangalore, Karnataka  |
| 3 | July 2012- July 2014 | Assistant Professor | Sri Dharmasthala Manjunatheshwara Institute of Technology, Ujire, Dakshina kannada Dist. Karnataka |
| 4 | Aug 2008- July 2010  | Lecturer            | Channabasaveshwara Institute of Technology, Gubbi, Tumkur Dist. Karnataka                          |

*(Please fill in reverse order. Current designation should be at the top)*

### Positions held

*(Please give details of any administrative posts, co Ordinator roles/ responsibilities held)*

#### Affiliations of Professional organizations

- Life Member - Indian Society for Technical Education
- Fellow - Institution of Engineers
- Professional Membership - SAEINDIA

#### Courses Taught

##### Undergraduate Courses

- Computer Aided Engineering Drawing
- Strength of Materials
- Design of Machine Elements-1
- Design of Machine Elements-2
- Tribology
- Mechanical Vibrations
- Operations Research
- Computer Aided Machine Drawing
- Metal Casting and Joining Processes
- Machine Tools and Machining Processes
- Management and Entrepreneurship
- Product Life Cycle Management
- Introduction to C Programming

#### Research Areas

- Material Science
- Fracture Mechanics
- Welding of Ferrous Materials
- Polymer Matrix Composites (PMC)
- Modelling and Analysis

#### Sponsored Projects

##### Completed Projects:

1. Title: Scheme for Promoting Interests, Creativity and Ethics among Students (SPICES)  
Funding Agency: AICTE  
Amount: 1 Lakh  
Duration: 1 Year

Role: Coordinator

## Publications

### Journals

- B Sunil , Rajanna S , Evaluation of mechanical properties of ferrite-martensite DP steels produced through intermediate quenching technique. SN Appl. Sci. 2, 1461. DOI:10.1007/s42452-020-03246-4.
- B Sunil , Rajanna S, FE Analysis of Fracture Toughness of Dual Phase Steel Produced Through IQ Technique, Journal of Green Engineering (JGE), Vol-10(10), 2020. 7488–7505.
- B Sunil , Rajanna S, Effect of the intermediate quenching on fracture toughness of ferrite-martensite dual phase steels, Frattura ed Integrità Strutturale, 55 (2021) 271-277; DOI: 10.3221/IGF-ESIS.55.20

### Conference Proceedings

- B. Sunil, T.S. Likith, P.B. Nagaraj, N. Varun, S.K. Vijay, Sakshi Shantharam Kamath, Ravi Kumar Chandrappa, A comparison study on mechanical properties of E-glass fiber and areca sheath fiber hybrid composites, Materials Today: Proceedings, Volume 66, Part 4, 2022, Pages 2521-2529, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2022.07.073>.
- Ravi Kumar Chandrappa, Sakshi Shantharam Kamath, B. Sunil, Areca husk fibre epoxy composites-A tribological study, Materials Today: Proceedings, Volume 66, Part 4, 2022, Pages 2455-2459, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2022.06.368>.
- Sakshi Shantharam Kamath, B. Sunil, Basavaraju Bennehalli, Tribological studies of epoxy composites using surface modified areca sheath fibres, Materials Today: Proceedings, Volume 45, Part 6, 2021, Pages 4763-4767, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.01.193>.
- Investigation of precipitation during recrystallisation in two phase Cu-Cr alloy, AIP Conference Proceedings 2274, 030043 (2020); <https://doi.org/10.1063/5.0025037>

### Reviewer of Journals

- Journal of The Institution of Engineers (India): Series D (IEID)
- The Journal of The Minerals, Metals & Materials Society

## Patents

- “AN ECONOMIC AND EFFICIENT METHOD FOR DECOMPOSING ORGANIC DISPOSALS”, 2024/10/30, PT\_CPZA00010050, 2024/03132, REPUBLIC OF SOUTH AFRICA.