


FACULTY PROFILE

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| Name | Dr. Shashikanth G S |
| Employee ID | AIET008 |
| Designation | Associate professor |
| Educational Qualification | BE, M.Tech, Ph.D. |
| Area of Specialization | Material Science |
| Department | Mechanical Engineering |
| Date of Joining to AIET | 01-09-2023 |
| Total Experience in years | Teaching :14 Years Research :06 Years |
| E-mail | shashikanth@akashiet.com |

Details of Educational Qualification

| Degree | Specialization | Passed out year | University |
|---------------|------------------------|------------------------|-------------------|
| Ph.D. | Material science | 2024 | VTU |
| M.Tech. | Machine Design | 2012 | VTU |
| B.E. | Mechanical Engineering | 2010 | VTU |

MOOC/NPTEL

| Sl No | Name of the Course | Duration of the course | Month and Year of completion | Course offered by |
|--------------|---------------------------|-------------------------------|-------------------------------------|--------------------------|
| 1 | Design Thinking | 4 weeks | Jan 2023 | NPTEL |
| 2 | Electrical Vehicles | 12 weeks | Jan 2026 | Skill Dzire |

Research Details

| | |
|-------------------|---|
| Research Areas | Material Science |
| Google scholar ID | https://scholar.google.com/citations?hl=en&user=MDw6BK4AAAAJ |
| ORCID-ID | 0000-0003-2519-5492 |
| Vidwan-ID | 377299 |
| h-index (scopus) | 06 |
| i10 index | 08 |

Papers Published in Journals

| Sl No | Title of the paper | Year of Publication | Journal Name | DOI |
|-------|--|---------------------|---|---|
| 1 | “Influence of processing methods of die casting and spray forming of Al-5wt.% Zn alloy on microstructure and mechanical properties”, | 2025 | Canadian Metallurgical Quarterly, pp. 01-11, | https://doi.org/10.1080/00084433.2025.2555091 |
| 2 | “Analysis of Microstructure and Mechanical Properties of Al-5 wt% Zn Alloy Processed Through Spray Atomization for the Different Spray Heights”, | 2025 | Journal of The Institution of Engineers (India): Series D, pp. 01-09, | https://doi.org/10.1007/s40033-025-00942-6 |
| 3 | Design and Fabrication of Automated Pesticide Sprayer and Harvesting System | 2025 | International Journal of Engineering Research & Technology | 10.17577/IJERTCO NV13IS03005 |
| 3 | Investigation of the Microstructure and Mechanical Characterization of an Aluminum-12 wt% Silicon Alloy Processed using Die and Centrifugal Casting Processes”, Journal of | 2024 | Bio- and Tribo-Corrosion, Vol. 10, pp. 01-08, | https://doi.org/10.1007/s40735-024-00903-8 |
| 4 | Mechanical, Microstructure and Tribological Properties of Al - 20 Wt.%Zn Alloy Processed Through As-Cast and Centrifugal Casting | 2024 | Journal of The Institution of Engineers (India): Series D | https://doi.org/10.1007/s40033-024-00652-5 |
| 5 | Microstructure and Mechanical Properties of Hypo and Hypereutectic Al-Si Alloy Processed through Die and Centrifugal Casting | 2024 | Journal of Propulsion Technology | https://doi.org/10.52783/tjpt.v44.i4.4332 |
| 6 | Comparative study of Al - 10 wt.% Zn alloy processed through As-cast and Centrifugal Casting. | 2024 | Journal of Propulsion Technology | https://doi.org/10.52783/tjpt.v44.i4.4333 |
| 7 | Optimization of Tribological Properties of Al6061, Boron And Graphite Mmcs Using Taguchi Method | 2022 | IOSR Journal of Mechanical and Civil Engineering | https://www.iosrjournals.org/iosr-jmce/papers/Conf-GET2021/13,%2055-72.pdf |
| 8 | Reverse Engineering on Drone | 2021 | International Journal for Scientific | https://www.iosrjournals.org/iosr-jmce/papers/Conf- |

| | | | | |
|---|--|------|---|---|
| | | | Research & Development | GET-2021/13.%2055-72.pdf |
| 9 | A Synonymous Description of Al-Zn Alloy in Different Casting Process | 2020 | International Journal of Innovative Science and Research Technology | https://ijisrt.com/assets/upload/files/IJSRT20MAY368.pdf |

Book Chapter Published

| SI No | Title of the paper | Year of Publication | Journal Name | DOI |
|-------|--|--|----------------------------------|-----|
| 1 | Prediction of Stalling Angle and Lift Performance Enhancement of Symmetric Airfoil | Accepted, Yet to Publish in March 2026 | Canadian Metallurgical Quarterly | |

Papers Presented in Conferences

| SI No | Title of the paper | Name of the Conference | Date of Conference |
|-------|---|---|---|
| 1 | Prediction of Stalling Angle and Lift Performance Enhancement of Symmetric Airfoil | 3 rd International Conference on Emerging Trends in Engineering and applied science 2025 (ICETEA-2025) | 18 th & 19 th Sept 2025 |
| 2 | An examination of Microstructural & Mechanical Properties of Al - 30 Wt.%Zn Alloy Processed Through As-Cast and Centrifugal Casting | 2 nd international conference in emerging trends in engineering and applied science 2024 (ICETEA-2025) | 8 th & 9 th Spet 2024 |
| 3 | Mechanical, Microstructure and Tribological Properties of Al - 20 Wt.%Zn Alloy Processed Through As-Cast and Centrifugal Casting | 1 st international conference in emerging trends in engineering and applied science 2023 (ICETEA-2023) | 19-10-2023 |
| 4 | Sustainable materials and recreants trends in mechanical engineering (SMARTME-2023) | Comparative study of Al - 10 wt.% Zn alloy processed through As-cast and Centrifugal Casting. | 11 and 12 August 2023 |
| 5 | Comparative study of Al-10 wt.% Zn alloy processed through As-cast and Centrifugal Casting | SMARTME-2023 ICAMMME2022 | 12-08-2023 |
| 6 | Optimization of Tribological Properties of Al6061, Boron And Graphite Mmcs Using Taguchi Method | Green Energy Technologies, 2021 | 19-02-2021 |
| 7 | Fabrication of the Solar Air Coller | Green Energy Technologies, 2021 | 19-02-2021 |
| 8 | Modelling And Simulation Of Stewart Platform | Innovations and Emerging Trends in Mechanical Engineering | 10-05-2012 |

IPRs/ Patents

| Sl No | Title of the IPRs/ Patents | Year of Publication | IPRs/ Patents number |
|-------|----------------------------|--|----------------------|
| 1 | SOLAR CELL PHONE CASE | 2024 | 438362-001 |
| 2 | EV for disabled persons | Accepted, Yet to Publish in Feb 2026 | |

Membership of Professional Bodies

| Sl No | Professional Body / Society | Year of Joining | Nature of Membership | Membership ID |
|-------|----------------------------------|-----------------|----------------------|---------------|
| 1 | Institute of Engineers | 2015 | Permanent | AM1640294 |
| 2 | Karnataka Rajya Vijnana Parishat | 2016 | Permanent | |

Faculty Development Program (FDP)/Student Development Program (SDP)/Conference organized

| Sl No | Name of the program | FDP/SDP/Conference | Period | |
|-------|--|---|------------|------------|
| | | | From | To |
| 1 | Technology Enablers For Smart Manufacturing Using Industry 4.0 | AICTE Sponsored National Level Five Days Virtual Short Term Training Program (STTP) | 12-07-2021 | 16-07-2021 |
| 2 | Mechanical Engineering Virtual Labs. | Virtual Labs, NITK | 06-05-2020 | 13-05-2020 |
| 3 | GCAT2021 | Conference | 01-10-2021 | 03-01-2021 |
| 4 | GCAT2021 | Conference | 07-10-2022 | 09-10-2022 |

Past positions

| Sl No | Designation | Organization | Period | |
|-------|---------------------|--------------|------------|------------|
| | | | From | To |
| 1 | Assistant Professor | NCET | 01-08-2012 | 30-08-2023 |
| 2 | Assistant Professor | AIET | 01-09-2023 | 30-08-2025 |