

Aadars M. S

Cert IOSH, MIE, MISTE |

Assistant Professor (Mechanical)

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Professional Summary

Enthusiastic and concept-driven Assistant Professor in Mechanical Engineering with a strong academic foundation and teaching expertise in core mechanical subjects, including Machine Design, Engineering Mechanics, Fluid Mechanics, Solid Mechanics, and Engineering Graphics. Passionate about delivering concept-oriented, application-based learning experiences that bridge theory and practice. Adept at developing clear instructional materials, guiding student projects, and fostering analytical and design thinking. Committed to academic excellence, student mentorship, and continuous professional development in the field of mechanical engineering.

Certifications & Skills

- **Certifications:** NEBOSH IGC, GRAD IOSH, **IOSH Train the Trainer**, First Aid - St. Johns, First Aid NHCPS, ASNT Level II (RT, UT, MT, PT), Oil Field Engineering & Quality Control
- **Key Skills:** Occupational Safety & Health, Risk Assessment, HSE Compliance, Incident Investigation, Training & Development, ISO 45001, Safety Audits, Emergency Response Planning, Fire & Explosion Control
- **Languages:** English(Professional), Hindi(conversational), Tamil(conversational), Malayalam (Mother Tongue)

Professional Experience

HSE Trainer

Jabal Dami Industrial Training, Oman & India

November 2021 – June 2025

- Conduct **industrial training programs** for workers and deliver **classroom-based certificate courses** for degree and diploma students.
- Lead **HSE training sessions** on NEBOSH IGC, IOSH Managing Safely, HSE Induction, Permit to Work (PTW), Working at Heights, Confined Space Entry, Fire Safety & Fire Fighting, First Aid & CPR, Scaffolding Inspection, Rigger & Banksman, and Gas Testing.

- Develop **safety awareness campaigns** and ensure compliance with **OSHA and ISO 45001** standards.

Assistant Professor Mechanical / Production

Vidya Academy of Science & Technology, India

October 2009 – October 2021

- Taught core subjects in **Mechanical and Production Engineering**, including Thermodynamics, Fluid Mechanics, Machine Design, and Manufacturing Technology.
- **Developed course materials** and lab manuals to support hands-on learning and application-based understanding of mechanical systems.
- **Supervised undergraduate projects** in areas such as design optimization, automation, CAD/CAM, and thermal systems.
- Mentored students for technical competitions and academic presentations at national and state-level engineering forums

Safety Engineer – Power Plant Construction

IBPIL, Tuticorin, India

December 2008 – October 2009

- Managed **pipeline, bunker, duct, and column fabrication** for power plant construction.
- Performed **non-destructive testing (NDT) inspection** of welded joints to ensure compliance with safety standards.
- Coordinated between teams to maintain **timely and precise construction execution**.

Education

- **M.Tech in Industrial Safety Engineering – NIT Trichy, India (2013) | CGPA: 8.63**
 - **B.Tech in Mechanical Engineering – Vidya Academy, University of Calicut, India (2008) | First Class**
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Training Delivered & Projects Handled

- **Safety Courses Conducted:** NEBOSH IGC, IOSH Managing Safely, HSE Induction, Permit to Work (PTW), Working at Heights, Confined Space Entry, Fire Safety & Fire Fighting, First Aid & CPR, Scaffolding Inspection, Rigger & Banksman, Gas Testing
- **Major Clients** for Which Training delivered
 - **OETC Oman, OPAL Oman, SHELL, GPC ONAM, STS OMAN,**
- **PG Project:** Fire Audit and Evacuation Planning using Pathfinder for NIT Trichy

- **UG Research Supervision:**
 - Experimental Investigation on Sprinkler Design for Compartmental Fire, Feasibility of Waste Cooking Oil as a Quenching Medium, Chicken Feather Composite for Industrial Applications, Fabrication of Exoskeleton for Lower Body Mobilization, Automatic Speed Control in Accident-Prone Areas, Automatic Book Retrieval System for Library
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Paper Published

- Experimental Investigation on Water Mist Fire Suppression System, Journal of Product Design, Quality Engineering & Technology Volume 6 Issue 1, 2021
 - Enhancement of burning by waste cooking oil, International Journal of Scientific and Engineering Research (IJSER) - (ISSN 2229-5518) IJSER Volume 11, Issue 5, May 2020 Edition
 - Mechanical Behaviour of E-Glass and Chicken Feather Composite, Research and Reviews on Experimental and Applied Mechanics Vol 4, No 1 (2021)
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Academic Achievements & Co-Curricular Activities

- Participated in **mock fire drills** and practical training on fire extinguisher usage (2012).
 - Certified in **First Aid Treatment** (St. Johns Ambulance & NHCPS).
 - Member of **ISTE (Indian Society for Technical Education) & IE (Institution of Engineers, India)**.
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