

Dr.B. Supraja Reddy



Designation : Assistant Professor
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Contact at : Department of Mechanical Engineering,
 Velagapudi Ramakrishna Siddhartha School of Engineering,
 Siddhartha Academy of Higher Education, Deemed to be
 University, Vijayawada, Andhra Pradesh 520007.

Education

Ph. D (Mechanical Engineering)

2022, Acharya Nagarjuna University, Guntur.

M.Tech (CAD/CAM)

2009, Osmania University, Hyderabad.

B.Tech (Mechanical Engineering)

2007, Acharya Nagarjuna University, Guntur.

Experience

Period	Designation	Institution / Organization	Key Responsibilities
2012 -Till Date	Assistant Professor	Velagapudi Ramakrishna Siddhartha School of Engineering, Siddhartha Academy of Higher Education, Deemed to be University.	Ph.D. /UG Guidance, Research Projects, Research publications, Incharge for UG/PG Student Projects & Internships and Maintain Department Activities Reports.
2010- 2012	Assistant Professor	Mother Theresa Educational Society Group of institution, Nunna, Krishna, A.P.	Teaching
2009 -2010	Design Engineer	HBE Press, south Korea, Seoul.	Design Engineer

Research Interests

Broad Area of Research :

- Materials – Metals & Composites
- Friction Stir welding
- CAD

Honors and Awards

- Honor as a Jury Member for State level student innovation competition “AVISHKAAR – 2024”, organized by A.P state government.
- Honor as a Judge for Technical events VG - TECHNOTSAV – 2025, Nunna, Vijayawada.

Courses Taught

S.No	Course Name	Level (UG/PG)
1	Additive Manufacturing	UG
2	Robotics	UG
3	Computer Aided Design	UG
4	Computer integrated Manufacturing	PG
5	Production Technology	UG
6	Manufacturing processes	UG
7	Computer Aided Design and Simulation	PG
8	Engineering Mechanics	UG
9	Engineering Graphics	UG
10	Basic Mechanical Engineering	UG
11	Manufacturing and Machining of Composite Materials	PhD

Research Profile

Publications

The recent publications and research contributions can be viewed from the following URLs

Google Scholar	https://scholar.google.com/citations?hl=en&user=7dgj-0AAAAJ&authuser=1
Scopus	https://www.scopus.com/authid/detail.uri?authorId=57202900104
ORCID	https://orcid.org/0000-0002-6297-0278
Research Gate	https://www.researchgate.net/profile/Suprajareddy_Bommareddy
LinkedIn	https://www.linkedin.com/in/suprajareddy-bommareddy-9645771b1/

Recognized Research Supervisor

S.No.	Department	University
1	Mechanical Engineering	Velagapudi Ramakrishna Siddhartha School of Engineering, Siddhartha Academy of Higher Education, Deemed to be university Kanuru, Vijayawada – 52007.

Funded Research Projects

S.No.	Type	Title	Status	Funding Agency	Amount (INR)	Duration
01.	Funded	Design of a Prosthetic Foot	Completed	RAPS for Indian Army (CSR)	75,000/-	1 Year
02.	Funded	Development of a composite Launch tube and Re-validation of a composite Canister	Completed	RAPS for DRDL, RCI, DRDO.	3,00,000/-	1 Year
03.	Funded	Design & Analysis of indigenous Composite Structures	On-Going	RAPS for DRDO.	7.08 lakhs	18 Months

Administrative Roles

S.No.	Role	Institution	Duration	Responsibilities
1	-	-	-	-

Certifications/MOOC Courses Completed

S.No.	Title	Platform	Duration	Year
1.	Nonlinear Vibrations	NPTEL	12 Weeks	2025
2.	Artificial Intelligence and Machine Learning in Materials Engineering	NPTEL	12 Weeks	2024
3.	Introduction to Industry 4.0 and Industrial Internet of Things	NPTEL	12 Weeks	2024
4.	Welding metallurgy	NPTEL	12 Weeks	2022
5.	Finite element modeling of welding processes	NPTEL	12 Weeks	2021
6.	Advances in welding and joining Technologies	NPTEL	12 Weeks	2020
7.	Fundamental of Welding Science and Technology	NPTEL	8 Weeks	2020
8.	Weld ability of metals	NPTEL	8 Weeks	2019

Consultancy / Industry Projects

Completed	-
On-going	-
Applied	-

Patents

S.No	Title	Status	Application No.	Year
1.	AI Based Robotic Surgery Method and Process	Published	202441051119	2024
2.	3-in-1 Water Purifier, Water Cooler and Air Cooler	Published	202341001723	2023
3.	Long Range Agricultural Spy Robot Vehicle with Night Vision	Published	202241044465	2022

Ph.D

Awarded	-
Guiding	01

Invited Talks

No. of Invited Talks	-
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Professional Service / Reviewer

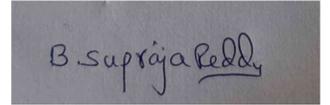
- Reviewer in Smart and Sustainable Developments in Materials, Manufacturing and Energy Engineering, Springer, 2025.
- SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, Scopus, 2025.

Professional Development Activities - Participations

Faculty Development and Training Programmes (at least 5 Days)	30
International / National Level Seminars	02 / 10
International / National Level Conferences	05 / 01
Workshops	40
Instructor Led / Self-Paced Courses	07
Webinars	20

Professional Bodies Membership Details

S.No.	Membership No.	Society Name
1.	LM106094	Indian Society for Technical Education (ISTE)
2.	7240410281	Society of Automotive Engineers, INDIA



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