



SIDDHARTHA ACADEMY OF HIGHER EDUCATION

An Institution **DEEMED TO BE UNIVERSITY**

(Under Section 3 of UGC Act, 1956)

Kanuru, Vijayawada - 520 007, AP. www.vrsiddhartha.ac.in

91 866 2582333

866 2582334

866 2584930

Department of Mechanical Engineering V. R. Siddhartha School of Engineering 2-Day Workshop on

DED Metal Additive Manufacturing – Applications and Challenges

29.08.2025 to 30.08.2025

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Dr. G. Dilli Babu,
Associate Professor
Dept. of Mechanical Engineering,
V. R. Siddhartha School of
Engineering, SAHE,
Vijayawada- 07.

Objective of the Workshop

This workshop aims to introduce the principles, applications, and challenges associated with Directed Energy Deposition (DED) Metal Additive Manufacturing (AM). Participants will gain exposure to:

- Fundamentals of Metal Additive Manufacturing
- DED Process Overview: Laser–Powder Interaction
- Industrial and Strategic Applications of DED
- Parameter Optimization and Quality Issues
- Challenges in Defect Detection and Monitoring
- Research Opportunities in DED for Students and Faculty

This workshop is designed for B.Tech. Mechanical Engineering students and faculty members to build a strong conceptual and practical foundation in this cutting-edge manufacturing technology.

Resource Persons:

Dr. Muvvala Gopinath
Associate Professor, Department of Mechanical and
Aerospace Engineering
Indian Institute of Technology Hyderabad
Expert in Metal Additive Manufacturing, Laser-based
Processing, and Smart Manufacturing

Venue:

ME Dept. Seminar Hall

About the University

Siddhartha Academy of Higher Education (Deemed to be University), Velagapudi Ramakrishna Siddhartha School of Engineering, formerly known as Velagapudi Ramakrishna Siddhartha Engineering College (VRSEC), is a premier institute under the Siddhartha Academy of General and Technical Education, located in Vijayawada, Andhra Pradesh, India. The College was established in 1977 as the first private self-financing engineering college in the state of composite Andhra Pradesh and is sponsored by "Siddhartha Academy of General and technical Education", a registered society run by philanthropists. The college is in autonomous status granted by UGC since 2006. The School of Engineering is offering B.Tech, programs in 9 disciplines with an intake of 1320, 7 M.Tech Programs with an overall intake of 90 students, in addition to 60 students in each of the MBA and MCA programs. At present, the college has 315 well-experienced faculty members including 149 members with Ph.D.

About Mechanical Engineering Department

Department of Mechanical Engineering established in the year 1977. At present, the department is offering one UG program (B.Tech in Mechanical Engineering) with a student intake of 120 and one PG program M.Tech (Automated Manufacturing Systems) with a student intake of 12. The Department of Mechanical Engineering has 35 faculty members, 27 of hold Ph.D. Degrees. The UG program of Mechanical Engineering was accredited by National Board and Accreditation (NBA) 5 times since inception. The Department has a Thriving research environment with active research groups. The Department has established the Centre of Excellence in Composites funded by DST FIST. The Department established SIEMENS Centre of Excellence with 8 industry supported skill laboratories and "3D Experience Center" with the support of APSSDC in collaboration with Dassault Systems.

REGISTRATION

There is a registration fee of Rs.350/- per participant including 18% GST. The interested Students and Faculty members can register using the following link:

<https://forms.gle/a2m847k4bxUXDQKi6>

A test will be conducted (online) by the coordinator at the end of the program. The certificates shall be issued to those participants who are registered and attend the program with minimum 80% attendance and score minimum 60% marks in the test.

Number of participants: 50

CONTACT

Dr. G. Dilli Babu

Associate Professor

Department of Mechanical Engineering

V R Siddhartha School of Engineering

Siddhartha Academy of Higher Education, Vijayawada- 520007

Email: gdillibabu@vrsiddhartha.ac.in, Ph: 9393271212