

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi – 590018



Project Report On

**“Investigating the Effect of Wire Arc Additive Manufacturing
Process Parameter on the Microstructure and Mechanical Properties
of 3D printed 316L Stainless Steel Alloy”**

*Submitted in partial fulfillment of the requirement for the award of
the degree of*

BACHELOR OF ENGINEERING

in

MECHANICAL ENGINEERING

by

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4JK20ME022

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4JK20ME023

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Under the Guidance of

MR. HAROLD J. D'SOUZA

Assistant Professor



DEPARTMENT OF MECHANICAL ENGINEERING

A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY

A Unit of Laxmi Memorial Education Trust ®

(Approved by AICTE, New Delhi, affiliated to VTU, Belagavi, Recognized by

Govt. of Karnataka)

Kottara Chowki, Mangaluru-575006, Karnataka

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DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

Certified that the project work entitled “Investigating the Effect of Wire Arc Additive Manufacturing Process Parameter on Microstructure and Mechanical properties of 3D Printed 316L Stainless Steel Alloy” carried out by Shivanesh R. (4JK20ME022), U. Sagar (4JK20ME023), Prathik (4JK21ME400), the bonafide students of A. J. Institute of Engineering and Technology in partial fulfilment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project Work prescribed for the said Degree.

Mr. Harold J. D'Souza

Project Guide

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Signature with

Date

1.

Dr. Sunil Kumar S

28/5/24

2.

Dr. Prashanth Rai M

28-5-24