ABOUT THE COLLEGE

Lal Bhahadur Shastri College of Eangineering, Kasaragod was established in the year 1993 under L.B.S Centre for Science and Technology, Thiruvananthapuram (a Govt. of Kerala undertaking). Currently the college is offering eight under graduate and one post graduate programms and has a student strength of around 2000. The college is affliated to A.P.J Abdul Kalam Technological University and is approved by AICTE. The 52 acres wide campus is located at Povval, 12 km away from the Kasaragod Railway station. The nearest Airport is Mangalore, about 75 km away from the college.

Vision of the College

To become a paragon institution for pursuance of education and research in engineering and technology

Mission of the College

- Impart finest quality Technical Education and training
- Nurture a vision of sustainable development
- Bequeath it to the next generation of professionals

ABOUT THE DEPARTMENT

Department of Mechanical Engineering was established in the year 1993. The major strength of the department is highly qualified and experienced faculty with specialization in main areas of Mechanical Engineering. State-of-the-art facilities are available in all the labs to train the students capable of meeting the requirements of present and future. The Mechanical Engineering Department has constantly produced many university rank holders, successful entrepreneurs and prominent academicians. Mechanical engineering department has organized several training programs for the faculty and nearby student community. The departmentis being interacted with various industries and educational institutions.

Vision of the Department

Excel individually and collectively in Mechanical Engineering Science and Technology, to generate, innovate and disseminate the knowledge for the total development of society.

Mission of the Department

- Establish facilities for teaching and learning with sustainable development.
- Impart knowledge in Mechanical Engineering theory and practical courses and provide training in the allied fields.
- Network with nearby institutes and industry and share the knowledge to reach next generation of professionals.

FACULTY DEVELOPMENT PROGRAMME

(Online)

on

ADDITIVE MANUFACTURING: RECENT TRENDS AND FUTURE PERSPECTIVES

2026 May 05th to 09th

Organized by

Department of Mechanical Engineering

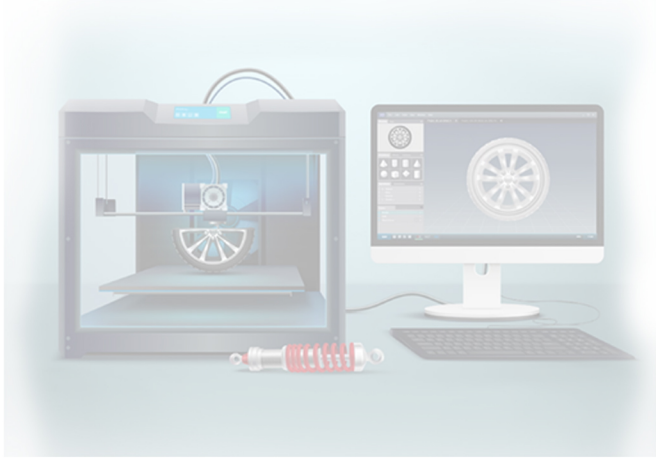
LBS College of Engineering, Kasaragod

Muliyar (PO), Kasaragod-671542, Kerala

www.lbscek.ac.in

ABOUT THE FDP

Additive Manufacturing (Rapid Prototyping or commonly called as 3D printing) is the fastest growing technology in the advanced manufacturing industries, which make use of layer by layer addition of the material for developing a 3D model based on the CAD data. It offers significant design freedom, enabling complex light weight geometries, reduced material waste and rapid production compared to subtractive manufacturing. Additive Manufacturing has transitioned from simple prototyping to producing fully functional end use parts in high value industries like aerospace and biomedical nowadays. This FDP gives an insight to the different additive manufacturing techniques used in various fields of industries such as metal additive manufacturing, bio implant manufacturing etc. and how the additively manufactured product can effectively used by the end user.



OBJECTIVES OF THE FDP

- To be conversant with the additive manufacturing processes and their industrial applications.
- To familiarise the process flow in additive manufacturing processes.
- To get an insight to the additive manufacturing applications in the field of metal additive manufacturing, bio im plant manufacturing etc.
- To know about the modelling and simulation aspects of Additive manufacturing processes.
- To understand the various post process techniques adapted for the additively manufactured products surface modifications
- To familiarise the surface engineering aspects of additively manufactured products.

Mode of Delivery
Online Platform

Time Schedule
Scheduled between (6 – 9) pm from 5 to 9 May 2026.

Target Participants:

Faculty Members, Research Scholars, PG students from various Institutes/Universities, Industry Personnel and Professionals/ Engineers from Government/Private Organizations.

Registration
Interested participants may register online through the link after paying the registration fees through the QR code or Bank details given below:
https://forms.gle/HDhiDZ7BHjvozw5d9

Registration Fees
₹ 300 only
Pay To : The Head of the Department Mechanical Engineering
Bank : Union bank of India
Accont No : 016922010002319
IFSC Code: UBIN0901695

Certificate:
Certificate shall be provided to all the participants those who have secured 80% attendance and successfully completing the course.

Important Dates:
Last date of Registration: 30 April 2026
Intimation of selection: 01 May 2026
Confirmation of Participation: 02 May 2026

ADVISORY COMMITTEE:

Dr. M. Abdul Rahman
(Director LBS Centre for Science and Technology)

Dr. Mohammed Shekoor T
(Principal LBS College of Engineering. Kasaragod)

Dr. Manoj Kumar C.V.
(HOD. Dept. of Mechanical Engineering.)

Coordinator Details:

Prajina N V
(Assistant Professor,Dept. of Mechanical Engineering)

Co-Coordinator Details:

Mahesh P V
(Associate Professor,Dept. of Mechanical Engineering)

Contact Details:

Ph: 8921582131 email id: prajinanv4@gmail.com

Programm Schedule:

SESSION/ TIME	TOPICS
05-05-2026 (Tuesday)	
S1/ (6-7) pm	Inaugural Session
S2/ (7-8.30) pm	Metal Additive Manufacturing: Fundamentals and Recent Trends
06-05-2026(Wednesday)	
S3/ (6-7.30) pm	Fabrication and Post Processing of Additive Manufactured Biomedical Implants
S4/ (7.30-9) pm	Molecular Mastery via Next Generation Thermal Post Processing Technique in Modern 3D Printing
07-05-2026(Thursday)	
S5/ (6-7.30) pm	Influence of post processing on the dimensional anisotropy in the Wire Arc Additive Manufactured Metal Components
S6/ (7.30-9) pm	3D printing: Turning Digital Designs into Reality
08-05-2026(Friday)	
S7/ 6-7.30) pm	Surface Engineering Approaches of Additively Manufactured Components
S8/ (7.30-9) pm	Understanding Corrosion in the Age of Metal Additive Manufacturing
09-05-2026(Saturday)	
S9/ (6-7.30) pm	Modelling and Simulation of Additive Manufacturing Processes
S10/ (7.30-9) pm	Valedictory Session

RESOURCE PERSONS:

Dr. S. Kanmani Subbu

Associate Professor, Mechanical Engineering Department

IIT Palakkad.

Dr. Govindan P

Professor, Mechanical Engineering Department

GCE Kannur.

Dr. Basil Kuriachen

Associate Professor, Mechanical Engineering Department

NIT Calicut.

Dr. Vineesh K P

Assistant Professor, Mechanical Engineering Department

NIT Calicut.

Dr. Athul Rajput Singh

Assistant Professor, Mechanical Engineering Department

NIT Surathkal.

Dr. Vimal Edachery

Assistant Professor, Mechanical Engineering Department

IIT Madras.

COURSE CONTENTS

Metal Additive Manufacturing: Fundamentals and Recent Trends
Fabrication and Post Processing of Additive Manufactured Biomedical Implants.
Process Flow in Additive Manufacturing- Digital design in to reality
Modelling and Simulation of Additive Manufacturing Processes
Wire Arc Metal Additive Manufacturing and Post Processing
Next Generation Thermal Post Processing Technique in Modern 3D Printing
Surface Engineering Approaches of Additively Manufactured Components