



Estd : 1939

Karnatak Law Society's

GOGTE INSTITUTE OF TECHNOLOGY

Jnana Ganga , Udyambag, Belagavi -590008
An Autonomous Institution under VTU , Belagavi



Estd : 1979



Department of Mechanical Engineering

CERTIFICATION COURSE OFFERED

COMPOSITE MATERIALS

PREREQUISITES: BASICS OF ENGINEERING MATERIALS AND MANUFACTURING PROCESSES

OBJECTIVES :

- TO UNDERSTAND THE MANUFACTURING PROCESSES OF REINFORCEMENT FIBERS AND MATRICES FOR COMPOSITES.
- TO IMPART THEORETICAL AND PRACTICAL KNOWLEDGE RELATED TO THE FABRICATION OF COMPOSITE MATERIALS
- TEACH PARTICIPANTS HOW TO SELECT APPROPRIATE COMPOSITE MATERIALS FOR SPECIFIC APPLICATIONS BASED ON DESIRED CHARACTERISTICS SUCH AS STRENGTH, FLEXIBILITY, WEIGHT, AND COST.

BENEFIT:

HANDS-ON SKILL DEVELOPMENT ON THE FABRICATION OF COMPOSITE MATERIALS

Course content of Composite Materials

Applications of Composite Materials



Introduction to Composites:

Matrix Materials: Polymers, Metals, Ceramic, Reinforcements: fibers, particulates, flakes. Processing techniques : Hand layup, Metal matrix

Hands on

Processing by Hand layup with different fibers, Powder Metallurgy: mixing, compaction, sintering, Liquid-State Processes

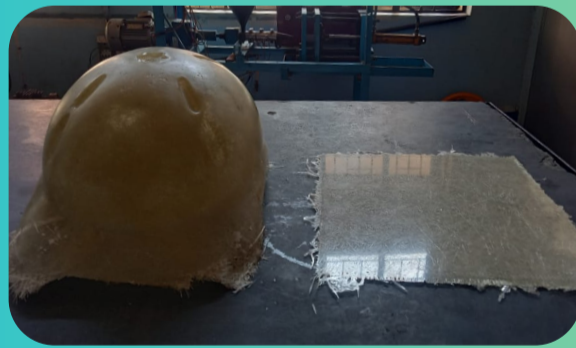
Testing

Microstructure, Hardness, Impact, Wear

Key Learnings:

Theory and hands on selection, manufacturing, and testing of composite materials

Course Instructor: Prof. Mahesh. A Kori (90288 74765)



HANDS ON FIBER REINFORCED POLYMERS AND METAL MATRIX COMPOSITES

AFTER FEE PAYMENT STUDENTS SHOULD FILL THE GOOGLE FORM & SUBMIT THE DETAILS TO CONFIRM REGISTRATION- [HTTPS://FORMS.GLE/V6YEAVHWU6TC1IGJ7](https://forms.gle/V6YEAVHWU6TC1IGJ7)

LAST DATE FOR REGISTRATION : 15 FEB 2024

**MAXIMUM NUMBER OF PARTICIPANTS FOR A COURSE IS 30
REGISTRATION ON A FIRST COME FIRST SERVE BASIS**

QR CODE FOR PAYMENT



Course duration : 30 Hrs
Course dates : March 2nd week (Tentative)
Fees for the Certification programs:
Rs. 1000 for GIT students
Rs. 3000 for Industry participants

for Syllabus Link

https://drive.google.com/file/d/1hscB7986s-i6Q_ajicOrKHoz_78zwQA1/view?usp=sharing