Mindluster Platform

About the course Laser Based Manufacturing Technology

Laser Based Manufacturing course in hindi, in this course we explore the use of lasers in precision cutting, welding, engraving, and advanced manufacturing processes.

Engineering Category's Courses

Course Lesson(30)

Lesson 1 : **Laser Based Manufacturing Intro Video**

Lesson 2 : **Lec 1 Lasers in Manufacturing Importance and Applications**

Lesson 3 : **Lec 2 Fundamentals of Laser Technology**

Lesson 4 : **Lec 3 Laser System Construction and Types**

Lesson 5 : **Lec 4 Principle of Operation Types of Laser Cutting and Kerf Geometry**

Lesson 6 : **Lec 5 Types of Lasers in Material Removal Process and Performance Parameters**

Lesson 7 : **Lec 6 A Case study on Cutting a Circular Part using CO2 Laser Machine**

Lesson 8 : **Lec 7 Mechanisms of Laser Welding Part I**

Lesson 9 : **Lec 8 Mechanisms of Laser Welding Part II**

Lesson 10 :
Lec 9 Effects of Process Parameters during Laser Welding and Study of Defects in Weld Beads

Lesson 11 : **Lec 10 A Case Study on Welding of Mild Steel Sheets using 2 5 kW CO2 Laser Machine**

Lesson 12 : **Lec 11 Material Forming and Fundamentals of Laser Forming**

Lesson 13 : **Lec 12 Mechanisms of Laser Forming**

Lesson 14 : **Lec 13 Process Parameters and their Effects on the Performance of Laser Forming**

Lesson 15 : **Lec 14 Surface Treatment and Application of Lasers**

Lesson 16 : **Lec 15 Laser Surface Hardening**

Lesson 17 : **Lec 16 Laser Surface Alloying**

Lesson 18 : **Lec 17 Laser Cladding**

Lesson 19 : **Lec 18 Additive Manufacturing Techniques**

Lesson 20 : **Lec 19 Laser Scanning Stereolithography**

Lesson 21 : **Lec 20 Selective Laser Sintering and Selective Laser Melting**

Lesson 22 :
Lec 21 Process and Performance Parameters of Laser Based Additive Manufacturing Techniques

Lesson 23 : **Lec 22 Lasers in Manufacturing Automation**

Lesson 24 : **Lec 24 CAD for Laser Based Manufacturing**

Lesson 25 : **Lec 23 CNC for Laser Based Manufacturing**

Lesson 26 : **Lec 25 Laser assisted Material Forming**

Lesson 27 : **Lec 26 Effect of Coatings 3D Laser Forming and Micro forming**

Lesson 28 : **Lec 27 Laser Induced Plasma Assisted Ablation**

Lesson 29 : **Lec 28 Laser Based Rock Drilling**

Lesson 30 : **LEc 29 Laser Based Garment Processing**

Related courses

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for Business Contact
business@mindluster.com