

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Mechanical Engineering - NOC: Fundamentals of Additive Manufacturing Technologies

Subject Co-ordinator - Prof. Sajan Kapil

Co-ordinating Institute - IIT - Guwahati

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction to Additive Manufacturing
Lecture 2 - CAD Models for Additive Manufacturing
Lecture 3 - Manipulation of STL Files
Lecture 4 - Slicing Methods - Part A
Lecture 5 - Slicing Methods - Part B
Lecture 6 - Toolpath Planning
Lecture 7 - Demonstration of CAD-CAM Packages
Lecture 8 - Introduction to Liquid AM
Lecture 9 - Stereolithography Apparatus: Fundamentals of Photopolymerization - Part 1
Lecture 10 - Stereolithography Apparatus: Fundamentals of Photopolymerization - Part 2
Lecture 11 - Stereolithography Apparatus: Sub-systems - Part 1
Lecture 12 - Stereolithography Apparatus: Sub-systems - Part 2
Lecture 13 - Other Liquid AM Processes - 1
Lecture 14 - Other Liquid AM Processes - 2
Lecture 15 - Sheet Additive Manufacturing - Part 1
Lecture 16 - Sheet Additive Manufacturing - Part 2
Lecture 17 - Wire Additive Manufacturing
Lecture 18 - Fused Deposition Modeling
Lecture 19 - Metal Wire Additive Manufacturing
Lecture 20 - Metal Inert Gas-Wire Arc Additive Manufacturing (MIG-WAAM) - Part 1
Lecture 21 - Metal Inert Gas-Wire Arc Additive Manufacturing (MIG-WAAM) - Part 2
Lecture 22 - Tungsten Inert Gas/Plasma-Wire Arc Additive Manufacturing (TIG/Plasma-WAAM)
Lecture 23 - Electron beam-based Wire Beam Additive Manufacturing (WBAM)
Lecture 24 - Laser Metal Wire Additive Manufacturing
Lecture 25 - Powder-Feed Additive Manufacturing - Part 1
Lecture 26 - Powder-Feed Additive Manufacturing - Part 2
Lecture 27 - Process Modeling for Powder Feed Additive Manufacturing - Part 1
Lecture 28 - Process Modeling for Powder Feed Additive Manufacturing - Part 2
Lecture 29 - Laser Beam based Powder Bed Additive Manufacturing - Part 1

Get DIGIMAT For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

<http://www.digimat.in>

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

- Lecture 30 - Laser Beam based Powder Bed Additive Manufacturing - Part 2
- Lecture 31 - Electron Beam based Powder Bed Additive Manufacturing
- Lecture 32 - Binder based Powder Bed Additive Manufacturing - Part 1
- Lecture 33 - Binder based Powder Bed Additive Manufacturing - Part 2