

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

NPTEL Video Course - Mechanical Engineering - NOC:Welding Application Technology

Subject Co-ordinator - Prof. Pankaj Biswas

Co-ordinating Institute - IIT - Guwahati

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

Lecture 1 - Plasma Arc Welding (PAW)  
Lecture 2 - Flux Cored Arc Welding (FCAW)  
Lecture 3 - Thermit Welding  
Lecture 4 - Resistance Welding - Part 1 (Resistance Spot Welding)  
Lecture 5 - Resistance Welding - Part 2 (Types of Resistance Welding)  
Lecture 6 - Friction Welding  
Lecture 7 - Friction Stir Welding - Part 1  
Lecture 8 - Friction Stir Welding - Part 2  
Lecture 9 - Soldering  
Lecture 10 - Brazing  
Lecture 11 - Residual Stress - Part 1  
Lecture 12 - Residual Stress - Part 2  
Lecture 13 - Influencing Factors and Control of Residual Stresses  
Lecture 14 - Residual Stress Measurement - 1  
Lecture 15 - Residual Stress Measurement - 2  
Lecture 16 - Residual Stress Measurement by NDT  
Lecture 17 - Welding Induced Distortion  
Lecture 18 - Welding Induced Distortion (Control and Measurement)  
Lecture 19 - Welding Induced Distortion (Measurement and Prediction)  
Lecture 20 - Welded Joint Analysis  
Lecture 21 - Welded Joints Analysis (Strength of Parallel and Transverse Fillet Welds)  
Lecture 22 - Welded Joints Analysis (Analysis of Eccentrically Loaded Welded Joint)  
Lecture 23 - Welded Joints Static Analysis (Analysis of Eccentrically Loaded Welded Joint - Part 1)  
Lecture 24 - Welded Joints Static Analysis (Analysis of Eccentrically Loaded Welded Joint - Part 2)  
Lecture 25 - Welded Joints Static Analysis (Welded Joint Subjected to Bending Moment)  
Lecture 26 - Welded Joints Static Analysis (Welded Joint Subjected to Bending Moment - Part 1)  
Lecture 27 - Welded Joints Static Analysis (Welded Joint Subjected to Bending Moment - Part 2)

---

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

<http://www.digimat.in>