NPTEL Video Course - Mechanical Engineering - NOC:Design for Quality, Manufacturing and Assembly

Subject Co-ordinator - Prof. Palaniappaan Ramu

Co-ordinating Institute - IIT - Madras

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Lecture 30 - General design guidelines for manual assembly
Lecture 31 - Systematic DFA methodology
Lecture 32 - Alpha symmetry, Beta symmetry
Lecture 33 - Quantification of part size and thickness
Lecture 34 - Systematic DFA Case study - controller assembly
Lecture 35 - DFA examples and discussion
Lecture 36 - Xerox Producibility Index (XPI)
Lecture 37 - High Speed and Robotic Assembly
Lecture 38 - Sheet Metal Working
Lecture 39 - Overview of DoE Workflow
Lecture 40 - DFA Software
Lecture 41 - DFM Software and Case Studies

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