

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

NPTEL Video Course - Mechanical Engineering - NOC:Engineering Economic Analysis

Subject Co-ordinator - Dr. Pradeep K. Jha

Co-ordinating Institute - IIT - Roorkee

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

- Lecture 1 - Introduction to Engineering Economy, Physical and Economic Environment, Phases in Engg. process
- Lecture 2 - Some economic concepts, Value and utility, Interest and Interest rate, Time value of money
- Lecture 3 - Interest formulas
- Lecture 4 - Interest formulas for discrete compounding and discrete payments
- Lecture 5 - Interest formulas for discrete compounding and discrete payments
- Lecture 6 - Problem solving on discrete compounding, discrete payment
- Lecture 7 - Interest formulas for Uniform gradient series
- Lecture 8 - Interest formulas for geometric gradient series
- Lecture 9 - Compounding frequency of Interest
- Lecture 10 - Problem solving on frequency compounding of interest and gradient series factors
- Lecture 11 - Economic equivalence
- Lecture 12 - Equivalence calculations involving cash flows
- Lecture 13 - Methods of comparison of alternatives
- Lecture 14 - comparison of alternatives
- Lecture 15 - Problem solving on equivalence and comparison of alternatives
- Lecture 16 - Replacement analysis
- Lecture 17 - Proper treatment of sunk cost in replacement
- Lecture 18 - Replacement because of improved efficiency, inadequacy, demand etc.
- Lecture 19 - Problem solving on replacement analysis
- Lecture 20 - Economic life of the asset
- Lecture 21 - Depreciation
- Lecture 22 - Basic depreciation methods
- Lecture 23 - Depreciation
- Lecture 24 - Modified accelerated cost recovery system (MACRS) method of depreciation, Depletion
- Lecture 25 - Depreciation
- Lecture 26 - Problem solving based on Depreciation and Depletion
- Lecture 27 - Elements of cost
- Lecture 28 - Breakeven analysis, Effect of fixed and variable cost on BEP.
- Lecture 29 - Economic order quantity

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- Lecture 30 - Problem solving based on Breakeven analysis and EOQ
- Lecture 31 - Cost estimation
- Lecture 32 - cost estimating relationships
- Lecture 33 - Introduction to decision under risk Criteria for decision under risk
- Lecture 34 - Expected value decision making under risk
- Lecture 35 - Expected variance decision making under risk
- Lecture 36 - Problem solving based on decision under risk
- Lecture 37 - Income taxes
- Lecture 38 - Effect of method of depreciation on income taxes
- Lecture 39 - After tax economic analysis
- Lecture 40 - Problem solving based on Income tax analysis