Mindluster Platform

# About the course power delivery systems Basics

power delivery systems course, This course explores the intricacies of power delivery systems, covering their design, operation, and applications.

**Engineering Category's Courses**

## Course Lesson(36)

Lesson 1 : **Operation and Planning of Power Distribution Systems Intro Video**

Lesson 2 : **Lec 1 Power systems Overview and historical developments**

Lesson 3 : **Lec 2 Introduction to power delivery systems**

Lesson 4 : **Lec 3 Introduction to electrical loads**

Lesson 5 : **Lec 4 Load diversity**

Lesson 6 : **Lec 5 Different load indices**

Lesson 7 : **Lec 6 Loss factor**

Lesson 8 : **Lec 7 Load management**

Lesson 9 : **Lec 8 Brief overview of power distribution substation**

Lesson 10 : **Lec 9 Substation bus schemes and primary distribution network topology**

Lesson 11 : **Lec 10 Voltage drop and power loss computations for typical radial distribution feeders**

Lesson 12 : **Lec 11 Genaralized expression for voltage drop for radial distribution feeder**

Lesson 13 : **Lec 12 Derivation of K constant for voltage drop computation**

Lesson 14 : **Lec 13 Different reliability indices used in distribution networks**

Lesson 15 : **Lec 14 Different reliability indices with numerical examples**

Lesson 16 : **Lec 15 Mathematical concept of reliability**

Lesson 17 : **Lec 16 Reliability evaluation of multiple units connected to series and or parallel**

Lesson 18 : **Lec 17 Numerical problems on reliability evaluation**

Lesson 19 : **Lec 18 Power quality problems in distribution systems**

Lesson 20 : **Lec 19 Forward backward load flow approach for power distribution systems**

Lesson 21 : **Lec 20 Forward backward load flow approach for power distribution systems**

Lesson 22 : **Lec 21 Reactive power compensation Basic idea**

Lesson 23 : **Lec 22 Reactive power compensation Numerical examples**

Lesson 24 : **Lec 23 Capacitor placement at distribution feeder Analytical approach**

Lesson 25 : **Lec 24 Power distribution system planning Economic aspects**

Lesson 26 : **Lec 25 Power distribution system planning Different models and solution strategies**

Lesson 27 : **Lec 26 Mono objective power distribution system planning approach**

Lesson 28 : **Lec 27 Multi objective power distribution system planning approach**

Lesson 29 : **Lec 28 Multi objective planning incorporating sectionalizing switches and tie lines**

Lesson 30 : **Lec 29 Reconfiguration of power distribution networks**

Lesson 31 : **Lec 30 Distribution networks with the integration of Distributed Generation**

Lesson 32 : **Lec 31 Concept of microgrids**

Lesson 33 : **Lec 32 Wind and solar energy conversion systems**

Lesson 34 : **Lec 33 Energy storage systems**

Lesson 35 : **Lec 34 Distribution system automation and smart grid Part I**

Lesson 36 : **Lec 35 Distribution system automation and smart grid Part II**

# Related courses

**Cabinetry Basics**

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**hinges workshops**

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