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Mechanical Engineering

Engineering Mechanics Course for Beginners

- Section 01: Introduction
- Section 02: The Concept of Force
- Section 03: Equilibrium of Rigid Bodies
- Section 04: Structural Analysis
- Section 05: Gravitation, Energy and Momentum

Crack Your Mechanical Engineer Interview

- Section 01: Introduction
- Section 02: Basic Mechanical Engineering (BME)
- Section 03: Manufacturing & Material Science
- Section 04: Strength Of Material (SOM)
- Section 05: Theory Of Machine (TOM)
- Section 06: Automobile Engineering
- Section 07: Fluid Mechanics (FM)
- Section 08: Thermodynamics
- Section 09: RAC & HMT
- Section 10: Miscellaneous

HVAC Basics and Load Calculation Masterclass

- Section 01: Basic Concepts in HVAC
- Section 02: Psychrometry
- Section 03: Psychrometric Processes
- Section 04: Cooling Load Calculation (MANUAL)
- Section 05: Cooling Load Calculation (E20- Excel form)
- Section 06: Cooling Load Calculation (HAP Software)

Internal Combustion Engine Basics

- Course Overview
- Welcome
- Engine Exterior
- Common Engine Components
- How Two Stroke Engines Work
- How Four Stroke Engines Work
- Petrol vs. Diesel
- Lubrication Oil System
- Fuel System
- Air and Exhaust Systems
- Cooling Water System
- Cylinder Sleeve
- Electrical System Part 1
- Electrical System Part 2
- Final Thoughts

Basic Automotive Engineering: Onboard Diagnostics

- Unit 01: Introduction
- Unit 02: Various Aspects of Onboard diagnostics
- Unit 03: Various systems

Engine Lubricant System Training - Level 4

- Introduction
- Functions & Components of Lubrication System
- Basic Working of the Lubrication System
- Properties, Additives & Designations of Lube Oils
- Lab Analysis & Diagnostics of the Lubrication Oil

A complete course on Turbocharging

- Introduction
- Types of Turbochargers
- Turbomatching & Turbofield failures

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Supercharger Automobile Engineering

- Introduction
- Advantages & Main components of Superchargers
- Types of Superchargers
- Brand Names & Models

Electric Vehicle Battery Management System

- Section 01: Introduction
- Section 02: Passive Cell Balancing
- Section 03: Voltage Measurement
- Section 04: Current Measurement
- Section 05: Temperature Measurement
- Section 06: Coulomb Counting
- Section 07: BMS IC Selection
- Section 08: MCU for BMS
- Section 09: Lithium-ion Battery Cell Modeling
- Section 10: UART Communication
- Section 11: I2C Communication
- Section 12: SPI Communication
- Section 13: CAN Communication
- Section 14: Power Management
- Section 15: BMS Design for 12V application
- Section 16: Thank you

Hybrid Vehicle Expert Training

- Introduction
- Types of Hybrid Electric Vehicles
- Degree of Hybridisation
- Components of HEVs
- Regenerative Systems

Energy Saving in Electric Motors

- Module 01: Introduction
- Module 02: Classification
- Module 03: Terminologies
- Module 04: Losses
- Module 05: Energy saving in motors part I
- Module 06: Energy saving in motors part II
- Module 07: Energy saving in motors Part III
- Module 08: Energy saving in motors part IV
- Module 09: Energy saving in motors part V
- Module 10: Energy Efficient Motor

Thank You

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