Mindluster Platform

About the course Engineering Mechanics

Mechanical engineering is an engineering branch that combines engineering physics and mathematics principles with materials science to design, analyze, manufacture, and maintain mechanical systems. It is one of the oldest and broadest of the engineering branches. Engineering Mechanics Rigid-body Mechanics â€¢ a basic requirement for the study of the mechanics of deformable bodies and the mechanics of fluids (advanced courses). â€¢ essential for the design and analysis of many types of structural members, mechanical components, electrical devices, etc, encountered in engineering.

Engineering Category's Courses

Course Lesson(73)

Lesson 1 : **Video Lectures on Engineering Mechanics by Khomesh Sahu Sir**

Lesson 2 : **Lecture 01 | Introduction to Engineering Mechanics | Engineering Mechanics**

Lesson 3 :
Lecture 2 | Module 1 | Fundamental of Engineering Mechanics Part 1 | Engineering Mechanics

Lesson 4 :
Lecture 3 | Module 1 | Fundamental of Engineering Mechanics Part 2 | Engineering Mechanics

Lesson 5 : **Best Books For Engineering Mechanics**

Lesson 6 :
Lecture 4 | Module 2 | Resultant Force and Low of Parallelogram | | Engineering Mechanics

Lesson 7 : **Lecture 5 | Module 2 | Law of Triangle | Engineering Mechanics**

Lesson 8 :
Lecture 6 | Module 2 | Problems Based on Law of Parallelogram and Law | Engineering Mechanics

Lesson 9 : **Lecture 7 | Module 2 | Resolution of Force | Engineering Mechanics**

Lesson 10 : **Lecture 8 | Module 2 | Problems on Force Resolution | Engineering Mechanics**

Lesson 11 :
Lecture 9 | Module 2 | Equilibrium Equation and Free Body Diagram | Engineering Mechanics

Lesson 12 : **Lecture 10 | Module 2 | Lami s Theorem and Problems | Engineering Mechanics**

Lesson 13 :
Lecture 11 | Module 2 | Problems Based on Co planner Concurrent Force | Engineering Mechanics

Lesson 14 :
Lecture 12 | Module 2 | Problems Based on Co planner Concurrent Force | Engineering Mechanics

Lesson 15 :
Lecture 13 | Module 2 | Problems Based on Co planner Concurrent Force | Engineering Mechanics

Lesson 16 :
Lecture 14 | Module 3 | Moment of Force and Moment of Couple | Engineering Mechanics

Lesson 17 : **Lecture 15 | Module 3 | Force Couple System | Engineering Mechanics**

Lesson 18 : **Lecture 16 | Module 3 | Varignon s Theorem and Problem | Engineering Mechanics**

Lesson 19 :
Lecture 17 | Module 3 | Equilibrium Equation in Co planner Non concurrent | Engineering Mechanics

Lesson 20 :
Lecture 18 | Module 3 | Problem on Varignon s Theorem Doubt Clearing | Engineering Mechanics

Lesson 21 :
Lecture 19 | Module 3 | Problems Based on Co planner Non concurrent Force | Engineering Mechanics

Lesson 22 :
Lecture 20 | Module 3 | Problems Based on Co planner Non concurrent Force | Engineering Mechanics

Lesson 23 : **Lecture 21 | Module 3 | Concept of Internal Hinge Problem | Engineering Mechanics**

Lesson 24 :
Lecture 22 | Module 4 | Basic Introduction of Truss Types of Truss | Engineering Mechanics

Lesson 25 :
Lecture 23 | Module 4 | Basic Assumptions For Plane Truss Analysis | Engineering Mechanics

Lesson 26 : **Lecture 24 | Module 4 | Concept of Joint Method | Engineering Mechanics**

Lesson 27 :
Lecture 25 | Module 4 | Problems on Joint Method Conceptual Problem 1 | Engineering Mechanics

Lesson 28 : **Lecture 26 | Module 4 | Problems on Joint Method Part 2 | Engineering Mechanics**

Lesson 29 : **Lecture 27 | Module 4 | Problems on Joint Method Part 3 | Engineering Mechanics**

Lesson 30 :
Lecture 28 | Module 4 | Important Results During Analysis of Plane Truss | Engineering Mechanics

Lesson 31 : **Lecture 29 | Module 4 | Statically Determinate truss Statically | Engineering Mechanics**

Lesson 32 : **Lecture 30 | Module 4 | Doubt Clearing Session With Problems | Engineering Mechanics**

Lesson 33 :
Lecture 31 | Module 4 | Problems Based on Joint Method Part 4 | Engineering Mechanics

Lesson 34 : **Lecture 32 | Module 4 | Concept of Section Method | Engineering Mechanics**

Lesson 35 :
Lecture 33 | Module 4 | Problems Based on Section Method Part 1 | Engineering Mechanics

Lesson 36 :
Lecture 34 | Module 4 | Problems Based on Section Method Part 2 | Engineering Mechanics

Lesson 37 :
Lecture 35 | Module 4 | Problems Based on Section Method Part 3 | Engineering Mechanics

Lesson 38 : **Lecture 36 | Module 4 | Concept of Zero Force Member ZFM | Engineering Mechanics**

Lesson 39 : **Lecture 37 | Module 4 | Problems on Zero Force Member ZFM | Engineering Mechanics**

Lesson 40 : **Lecture 38 | Module 5 | Virtual Work | Engineering Mechanics**

Lesson 41 : **Lecture 39 | Module 5 | Problems on Virtual Work Part 1 | Engineering Mechanics**

Lesson 42 : **Lecture 40 | Module 5 | Problems on Virtual Work Part 2 | Engineering Mechanics**

Lesson 43 : **Happy Teacher s Day | Message From | Khomesh Sahu Sir**

Lesson 44 :
Lecture 41 | Module 6 | Basic Introduction of COG COM Centroids | Engineering Mechanics

Lesson 45 : **Lecture 42 | Module 6 | How to Find Centroid of Line | Engineering Mechanics**

Lesson 46 :
Lecture 43 | Module 6 | Concept of Centroid of Area and How to Find | Engineering Mechanics

Lesson 47 :
Lecture 44 | Module 6 | How to Find Centroid of Area Triangles Part 2 | Engineering Mechanics

Lesson 48 :
Lecture 45 | Module 6 | How to Find Centroid of Area Sector of circle | Engineering Mechanics

Lesson 49 : **Lecture 46 | Module 6 | Problems on Centroid of Area Part 1 | Engineering Mechanics**

Lesson 50 : **Lecture 47 | Module 6 | Problems on Centroid of Area Part 2 | Engineering Mechanics**

Lesson 51 : **Lecture 48 | Module 6 | Problems on Centroid of Area Part 3 | Engineering Mechanics**

Lesson 52 :
Lecture 49 | Module 6 | Centroid of Curved Wire Important Notes | Engineering Mechanics

Lesson 53 :
Lecture 50 | Module 7 | Basic Introduction of Moment of Inertia MOI | Engineering Mechanics

Lesson 54 : **Lecture 51 | Module 7 | AMOI Rectangle Plane Area | Engineering Mechanics**

Lesson 55 : **Lecture 52 | Module 7 |AMOI Circle Semi circle Plane Area | Engineering Mechanics**

Lesson 56 : **Lecture 53 | Module 7 | AMOI Triangle Parabolic Plane Area | Engineering Mechanics**

Lesson 57 :
Lecture 54 | module 7 | Parallel Axis Theorem and Perpendicular Axis | Engineering Mechanics

Lesson 58 : **Lecture 55 | Module 7 | Problems on AMOI Part 1 | Engineering Mechanics**

Lesson 59 : **Lecture 56 | Module 7 | Problems on AMOI Part 2 | Engineering Mechanics**

Lesson 60 : **Doubt clearing session Physical significance of AMOI and MMOI**

Lesson 61 : **Lecture 57 | Module 7 | MMOI Part 1 | Engineering Mechanics**

Lesson 62 : **Lecture 58 | Module 7 | MMOI Part 2 | Engineering Mechanics**

Lesson 63 :
Lecture 59 | Module 7 | Point Mass System Composite Bar System | Engineering Mechanics

Lesson 64 : **Lecture 60 | Module 7 | Problems on MMOI | Engineering Mechanics**

Lesson 65 : **Lecture 61 | Module 7 | Radius of Gyration | Engineering Mechanics**

Lesson 66 :
Lecture 62 | Module 8 | Basic Introduction of Static Kinetic Friction | Engineering Mechanics

Lesson 67 : **Lecture 63 | Module 8 | Some Important Concept for Friction | Engineering Mechanics**

Lesson 68 : **Lecture 64 | Module 8 | Terminology used in Friction | Engineering Mechanics**

Lesson 69 :
Lecture 65 | Module 8 | Concept of Pulling Pushing Force and Problem | Engineering Mechanics

Lesson 70 : **Lecture 66 | Module 8 | Problems on Static Friction Part 1 | Engineering Mechanics**

Lesson 71 :
Lecture 67 | Module 8 | Problems on ladder and wedge friction Part 2 | Engineering Mechanics

Lesson 72 : **Lecture 68 | Module 8 | Problems on static friction Part 3 | Engineering Mechanics**

Lesson 73 : **Lecture 69 | Module 8 | Problems on kinetic friction Part 4 | Engineering Mechanics**

Related courses

Cabinetry Basics

MFT and MFT related accessories

hinges workshops

CNC Computer numerical control

Jointing Systems

Cabinet tips

for Business Contact
business@mindluster.com