

**DEPARTMENT OF
MECHANICAL ENGINEERING**

NPTEL VIDEOS & STUDY MATERIALS



Available at: **CENTRAL COMPUTING FACILITY (CCF)**

**GOVERNMENT ENGINEERING COLLEGE
KOZHIKODE**

SYSTEM No: 1

(Home – Documents - NPTEL Videos)

Sl. No.	Topics	Sl. No.	Topics
1.	Design Fundamentals	11.	Heat & Mass Transfer
2.	Dynamics of Machine	12.	Kinematics of Machines
3.	Engine Emissions	13.	Machine Design
4.	Engineering Mechanics	14.	Mechanical Measurements
5.	Finite Element Method	15.	Refrigeration & Air Conditioning
6.	Finite Element Analysis	16.	Solar Engineering Technology
7.	Fluid Dynamics	17.	Strength of Materials
8.	Fluid Machines	18.	Thermodynamics
9.	Fluid Mechanics	19.	Turbomachinery
10.	Forced Convective Heat Transfer	20.	Vibration of Mechanical Systems

SYSTEM No: 2

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Sl. No.	Topics	Sl. No.	Topics
1.	Classical Mechanics	10.	Fluid Mechanics
2.	Computational Fluid Dynamics	11.	Heat Transfer
3.	Computer Aided Engineering Design	12.	Manufacturing Systems Technology
4.	Conduction and Radiation	13.	Mass Transfer
5.	Convective Heat and Mass Transfer	14.	Radiation Heat Transfer
6.	Metallurgical and Materials Engineering	15.	Six - Sigma
7.	Economics, Management and Entrepreneurship	16.	Tribology
8.	Engineering Fracture Mechanics	17.	Vibration of Structures
9.	Finite Element Analysis		

SYSTEM No: 3

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Sl. No.	Topics
1.	Basics of Finite Element Analysis
2.	Conduction and Convection Heat Transfer
3.	Fluid Mechanics