

**DEPARTMENT OF
MECHANICAL ENGINEERING**

NPTEL VIDEOS & STUDY MATERIALS



Available at: **CAD/CAM LAB**

**GOVERNMENT ENGINEERING COLLEGE
KOZHIKODE**

SYSTEM No: 1

(PC – DataPart (D) - NPTEL Videos)

Sl. No.	Topics	Sl. No.	Topics
1.	Advanced Manufacturing Process	12.	Finite Element Analysis
2.	Classical Mechanics	13.	Fluid Mechanics
3.	Computational Fluid Dynamics	14.	Fuel, Refractory & Furnaces
4.	Computer Aided Engineering Design	15.	Heat Transfer
5.	Conduction and Radiation	16.	Manufacturing Systems Technology
6.	Convective Heat and Mass Transfer	17.	Mass Transfer
7.	Design and Optimization of Energy System	18.	Radiation Heat Transfer
8.	Metallurgical and Materials Engineering	19.	Six - Sigma
9.	Economics, Management and Entrepreneurship	20.	Tribology
10.	Engineering Fracture Mechanics	21.	Vibration of Structures
11.	Experimental Stress Analysis		

SYSTEM No: 2

(Computer – OS(C:) – NPTEL Videos)

Sl. No.	Topics	Sl. No.	Topics
1.	Advanced Heat & Mass Transfer	13.	Engine Emissions
2.	Advance Manufacturing Process	14.	Finite Element Method
3.	Advanced Operation Research	15.	Finite Element Analysis
4.	Advanced Solid Mechanics	16.	Fluid Mechanics
5.	Applied Thermodynamics	17.	Forced Convective Heat Transfer
6.	Basic Thermodynamics	18.	Fuel & Combustion Technology
7.	Composite Materials	19.	Heat & Mass Transfer
8.	Computational Flight Dynamics	20.	Hydraulics
9.	Computational Fluid Dynamics	21.	Introduction to Combustion
10.	Computer Aided Design	22.	Kinematics of Machines
11.	Convective Heat Transfer	23.	Machine Design
12.	Dynamics of Machines	24.	Manufacturing Processes

SYSTEM No: 3

(Computer – New Volume (D:) – NPTEL Videos)

Sl. No.	Topics
1.	Material Science and Engineering
2.	Mechanics of Solids
3.	Refrigeration and Air Conditioning
4.	Rotor Bearing Systems
5.	Solar Energy and Thermal Systems
6.	Solar Engineering Technology
7.	Strength of Materials
8.	Thermodynamics
9.	Turbomachinery

SYSTEM No: 4

(Computer – New Volume (E:) – NPTEL Videos)

Sl. No.	Topics
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| 1. | Marketing Management |
| 2. | Conduction & Convection |
| 3. | Fluid Mechanics |
| 4. | Manufacturing Systems Technology |
| 5. | Solid Mechanics |
| 6. | Stress Analysis |
| 7. | Vibration of Structures |
| 8. | Phase Diagrams |