



MANAV SCHOOL OF ENGINEERING & TECHNOLOGY

Approved by AICTE New Delhi, Affiliated to SGBAU (DTE Code : 1276)

Akola-Khamgaon NH 6, Vyala, Tal: Balapur, Dist.: Akola.

Email: mkct.engg@gmail.com Website : www.mkct.org.in

Material Science (PCC-I)

After successfully completing the course, students will be able to:

1. To study the basic concepts of metallurgy and classification of materials.
2. To study the process of formation of microstructures of metal materials and composites.
3. To study the alloying elements, their effects and applications.
4. To study the ferrous and non-ferrous metals and respective alloys.
5. To study the various heat treatment processes and their industrial applications.
6. To study the case hardening processes and applications of Powder metallurgy.

Fluid Mechanics (PCC-II)

After successfully completing the course, students will be able to:

1. To give fundamental knowledge of fluid, its properties
2. To develop understanding about hydrostatic law, principle of buoyancy and stability of a floating body and application of mass, momentum and energy equation in fluid flow
3. To inculcate the importance of boundary layer flow and its applications
4. To determine the losses in a flow system, flow through pipes, impact of jet

Energy Conversion -I (PCC-III)

After successfully completing the course, students will be able to:

1. To study the properties of steam and its behavior for different thermodynamic processes.
2. To study different types of boilers, their mountings, accessories, performance of boilers and different efficiencies.
3. To study the various fuel handling and ash handling systems in power plant.
4. To study various types of condensers and cooling towers.
5. To study various thermodynamic aspects of flow of steam through nozzle and diffuser.
6. To study flow of steam through steam turbines and concept of compounding.

Fluid Mechanics and Machines (MDM -II)

After successfully completing the course, students will be able to:

1. To give fundamental knowledge of fluid, its properties.



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2. To learn the operation, working principle & performance of hydraulic turbines.

Computational Methods and Programming

After successfully completing the course, students will be able to:

1. To understand the importance of obtaining approximate solutions to various practical problems.
2. To introduce some of the key computational techniques used in modelling and simulation of engineering problems.

Automotive Technology

After successfully completing the course, students will be able to:

1. Understand the basics of automobile engineering and its components.
2. Understand the basics of Control system and transmission system
3. Get aquatinted with the recent developments of electric and Hybrid Vehicles.