

Course contain of MEE-S204

Properties of fluids,
Pressure measurement,
Fluid statics,
fluid kinematics,
fluid dynamics,
Description of flows,
Conservation of mass,
Stream function ,
momentum theorems ,
Navier – Stokes equation ,energy equation ,
Similitude & modelling.

Fluid Mechanics.

①

Fluid mechanics may be defined as that branch of Engineering-Science which deals with the behaviour of fluid under the condition of rest and motion.

The fluid mechanics may be divided into

i) Statics (Fluid at rest)

ii) Kinematics.

iii) Dynamics.

Fluid- Any substance which can flow is called fluid or
A fluid is a substance which deforms continuously when
subjected to external shearing force.

Substance- which have finite mass, occupy space and
tangible.

Flow - its relative change of position of particle with respect
to time.

Matter- the matter can be classified on the basis of
the spacing between the molecules of matter. -

- i) solid
- ii) Fluid
 - Liquid
 - Gas.