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Mechanics (Web) Syllabus; Co-
ordinated by : IIT Kanpur; Available
from : 2012-05-15. Lec : 1; Modules /
Lectures. Introduction. Definition of a
fluid and Newtons' law of viscosity;
Rate of strain, Non-Newtonian fluid;
Fluid Statics. Pascal's theorem, Basic

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Faculty - Venugopal

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Mechanics and partial differential equations, Chemical Engineering thermodynamics, particulate science and technology, environmental engineering, fluid mechanics lab, physical chemistry lab.

BTech Chemical Engineering

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Mechanical Operations . Fluid statics,

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Section 1: Engineering Mathematics
I and II, John Wiley • Rajasekaran S.
and Sankarasubramanian, G.,
Engineering Mechanics, Vikas
Publishing House Private Limited •
Tayal, A. K., Engineering Mechanics-
Statics and Dynamics, Umesh

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*Syllabus for Engineering Mechanics
S1&S2 2015-2016 | KTU ...*

Fluid Mechanics (CHE 301) There shall be one compulsory objective type question comprising 10 Nos. spread over the entire syllabus and each

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carrying one mark. Two questions are to be set from each module out of which five questions are to be answered taking at least one from each module. All questions carry equal marks

Syllabus for B.Tech(Chemical

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Mechanics) Second Year

deNevers, N., "Fluid Mechanics for Chemical Engineers", 3rd Edition, 2004. *Please note that the full 2nd Edition of this textbook is also acceptable, although contents and numbering may be different for chapters, sections, and suggested

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CHEE223 - Chemical Engineering

Noel de Nevers, Fluid Mechanics for

Chemical Engineers, McGraw-Hill,

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208 COURSE OBJECTIVES: Students

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will: 1. Apply knowledge of mathematics, physics and material and energy balances to fluid mechanics. 2. Identify appropriate equations for fluid statics and fluid flows to solve ...

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thermodynamics, thermodynamic
system and processes, calculation of
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fundamental basic scientific principles. The emphasis remains on problem solving, and the new edition includes many more examples.

This 1975 book presents the fundamental ideas of fluid flow, viscosity, heat conduction, diffusion,

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the energy and momentum principles,
and the method of dimensional
analysis.

The book presents the state of the art
in the interdisciplinary field of fluid
mechanics applied to cardiovascular
modelling. It is neither a monograph

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nor a collection of research papers, rather an extended review in the field. It is arranged in 4 scientific chapters each presenting thoroughly the approach of a leading research team; two additional chapters prepared by biomedical scientists present the topic by the applied perspective. A unique

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feature is a substantial (approx. one fourth of the book) medical introductory part, written by clinical researchers for scientific readers, that would require a large effort to be collected otherwise.

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convective transfer by fluid motion of matter, energy and momentum, and the transfer of the same properties by diffusion of molecular motion, are presented at the outset. These concepts are then applied systematically to the study of fluid dynamics in an engineering context

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and to the parallel investigation of heat and mass transfer processes. The influence of viscosity and the dominant role of turbulence in fluid motion are emphasised. Individual chapters are concerned with the important subjects of boundary layers, flow in pipes and ducts, gas dynamics, and flow in turbo-

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Mechanics of a liquid with a free surface. Later chapters cover some of the special types of flow and transfer process encountered in chemical engineering applications, including two-phase flow, condensation, evaporation, flow in packed beds and fluidized solids.

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mechanics industries. Fluid Mechanics for Chemical Engineers: with Microfluidics, CFD, and COMSOL Multiphysics 5, Third Edition, systematically introduces fluid mechanics from the perspective of the chemical engineer who must understand actual physical behavior

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and electroosmotic switching

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flow, die flow, lubrication, momentum diffusion, turbulent flow, and others. More than 300 end-of-chapter problems of varying complexity are presented, including several from University of Cambridge exams. The author covers all material needed for the fluid mechanics portion of the

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