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Turbomachines has 5 units altogether and you will be able to find notes for every unit on the CynoHub app. Turbomachines can be learnt easily as long as you have a well planned study schedule and practice all the previous question papers, which are also available on the CynoHub app. All of the Topic and subtopics related to Turbomachines are mentioned below in detail. If you are having a hard time understanding Turbomachines or any other Engineering Subject of any semester or year then please watch the video lectures on the official CynoHub app as it has detailed explanations of each and every topic making your engineering experience easy and fun. Turbomachines Unit One Module-1 Introduction to turbomachines: Classification and parts of a turbo machines; comparison with positive displacement machines; dimensionless parameters and their physical significance; specific speed; illustrative examples on dimensional analysis and model studies. Energy transfer in turbomachines: Basic Euler turbine equation and its alternate form; components of energy transfer; general expression for degree of reaction; construction of velocity triangles for different values of degree of reaction. Turbomachines Unit Two Module-2 Compression process: Overall isentropic efficiency of compression; stage efficiency; comparison and relation between overall efficiency and stage efficiency; polytropic efficiency; pre heat factor. Expansion process: Overall isentropic efficiency for a turbine; stage efficiency for a turbine; comparison and relation between stage efficiency and overall efficiency, polytropic efficiency; reheat factor for expansion process. Download the APP Now! (Click Here) Turbomachines Unit Three Module-3 Design and performance analysis of Centrifugal compressors: Types, design parameters, flow analysis in impeller blades, volutes and diffusers, losses, slip factor, characteristic curves, surging, choking. Construction details. Design and performance analysis of axial fans and compressors: Stage velocity diagrams, enthalpy-entropy diagrams, stage losses and efficiency, work done, simple stage design problems, performance characteristics, instability in axial compressors. Construction details. Turbomachines Unit Four Module-4 Design and performance analysis of axial flow turbines: Turbine stage, work done, degree of reaction, losses and efficiency, flow passage; subsonic, transonic and supersonic turbines, multi-staging of turbine; exit flow conditions; turbine cooling Design and performance analysis of radial turbines:Thermodynamics and aerodynamics of radial turbines; radial turbine characteristics; losses and efficiency; design of radial turbine. Turbomachines Unit Five Module-5 Hydraulic pumps: Centrifugal and axial pumps. Manometric head, suction head, delivery head; manometric efficiency, hydraulic efficiency, volumetric efficiency, overall efficiency; multi stage pumps. Characteristics of pumps. Hydraulic turbines: Classification; Module quantities; Pelton wheel, Francis turbine, Kaplan turbine and their velocity triangles. Draft tubes and their function. Characteristics of hydraulic turbines. Turbomachines Course Objectives Understand the basics of turbomachines, the energy transfer and energy transformation in them. •Acquire the knowledge on design of centrifugal and axial turbomachines. •Study hydraulic pumps and turbines. Turbomachines Course Outcomes At the end of the course the student will be able to:1.CO1: Compute the energy transfer and energy transformation in turbomachines. 2.CO2: Analyze the design of turbomachine blades. 3.CO3 : Apply hydraulic pumps and turbines for specific requirements Turbomachines Text Books Turbines, Compressors & Fans-S.M. Yahya Principles of Turbo Machinery-D.G. Shepherd Turbomachines Reference Books An introduction to Energy conversion, Volume III, Turbo machinery-V.Kadambi and Manohar Prasad Turbomachines-Govinde Gowda and Nagaraj Fundamentals of Turbomachinery – B.K.Venkanna Scoring Marks in Turbomachines Scoring a really good grade in Turbomachines is a difficult task indeed and CynoHub is here to help!. Please watch the video below and find out how to get 1st rank in your B.tech examinations . This video will also inform students on how to score high grades in Turbomachines. There are a lot of reasons for getting a bad score in your Turbomachines exam and this video will help you rectify your mistakes and help you improve your grades. Information about VTU B.Tech Turbomachines was provided in detail in this article. To know more about the syllabus of other Engineering Subjects of JNTUH check out the official CynoHub application. Click below to download the CynoHub application. Download the APP Now! (Click Here) Academia.edu uses cookies to personalize content, tailor ads and improve the user experience. By using our site, you agree to our collection of information through the use of cookies. To learn more, view our Privacy Policy. error: Content is protected !! Join our Telegram Group & Share your contents, doubts, knowledge with other Students/Graduates "Course Plan - Turbo Machinery"Subject Code: ME 502Branch, Semester: Mechanical Engineering, 5th SemesterScheme: L: T: P: 3-1:0. Instructor: Prof. Akbar Ali Office: Sr. Asst. Prof, Mechanical Engineering DepartmentExtension: 593Email: akbarali3105@rediffmail.com,Instructor: Prof. Irfan Khan Office: Asst. Prof, Mechanical Engineering DepartmentExtension:---Email: mitm.irfankhan @rediffmail.com.Instructor: Prof. Amit Prajapati Office: Asst. Prof, Mechanical Engineering DepartmentExtension:---Email: sourabh.4242@gmail.com.Course Objective: The course provides insight into dedicated areas of turbo machines. Turbo machines are widely used in the transport and the energy sector. The operation of modern aircraft would not be possible without turbo machines. Most of the world's electricity is generated in processes where turbo machines play a vital role. It builds on foundational course material, primarily in the areas of fluid mechanics and thermodynamics, with a blend of additional theory and applications to provide the student with the basic knowledge necessary to engage in professional activities relating to the use of turbo machinery. Upon completion of this class, the student should be able to:1) Recognize and explain the differences between true turbomachines and positive displacement devices.2) Analyze incompressible, in viscid fluid/rotor energy transfer using Euler's turbine equations.3) Construct and analyze velocity diagrams for axial and centrifugal rotors and rotor/stator sets.4) Read and interpret performance curves for pumps, fans, and turbines. 5) Use scaling laws to predict turbo machine performance, by interpolation or extrapolation from known performance data.6) Specify the appropriate class of prime mover for a given application, based on head, flow and specific speed.7) Distinguish between cases where "single airfoil" analysis and "cascade" analysis applies.8) Explain the role of inlets, scrolls and diffusers on the operation and performance of pumps, fans and turbines.9) Identify and explain the general loss-producing mechanisms for flow through turbo machinery rotors and stators.

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