

B.E Mechanical Engineering 2nd Year

Syllabus Anna University Regulation 2021

Semester – III Theory Subjects

- **MA3351 - Transforms and Partial Differential Equations**
- **ME3351 - Engineering Mechanics**
- **ME3391 - Engineering Thermodynamics**
- **CE3391 - Fluid Mechanics and Machinery**
- **ME3392 - Engineering Materials and Metallurgy**
- **ME3393 - Manufacturing Processes**

Semester – III Practical Subjects

- **ME3381 - Computer Aided Machine Drawing**
- **ME3382 - Manufacturing Technology Laboratory**
- **GE3361 - Professional Development**

Semester – IV Theory Subjects

- **ME3491 - Theory of Machines**
- **ME3451 - Thermal Engineering**
- **ME3492 - Hydraulics and Pneumatics**
- **ME3493 - Manufacturing Technology**
- **CE3491 - Strength of Materials**
- **GE3451 - Environmental Sciences and Sustainability**

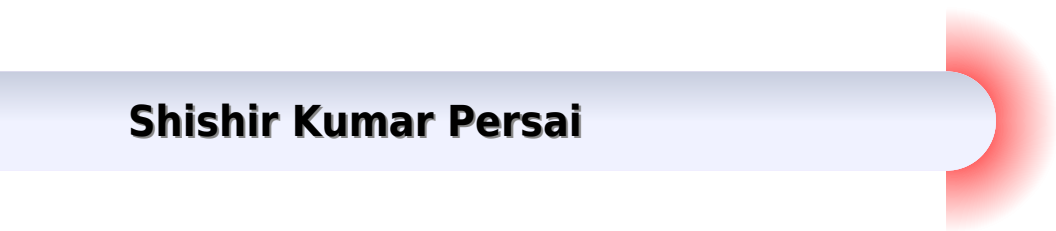
Semester – IV Practical Subjects

- **CE3481 - Strength of Materials and Fluid Machinery Laboratory**
- **ME3461 - Thermal Engineering Laboratory**



Anna University Regulation 2013 Syllabus Mechanical Engineering

Shishir Kumar Persai



Anna University Regulation 2013 Syllabus Mechanical Engineering:

Engineering Mathematics : Anna-USDP E. Rukmangadachari, P. Sivaramakrishna Das, The book covers the syllabus completely and exhaustively The five units of the syllabus are presented in the five chapters that make up this book Each topic of the subject discussed presents the important principles methods and processes of obtaining results in a systematic way with emphasis on clarity and academic rigour A lot of standard problems and frequently asked university questions have been worked out in detail for the students benefit Exercise problems are given with hints wherever necessary Further a supplement of Frequently Asked Questions and Answers is provided along with the book **Mechanical Engineering** Universitat Tel-Aviv, 1905 **Rules of Thumb for Mechanical Engineers** J. Edward Pope, 1997 Fluids Heat transfer Thermodynamics Mechanical seals Pumps and compressors Drivers Gears Bearings Piping and pressure vessels Tribology Vibration Materials Stress and strain Fatigue Instrumentation Engineering economics *Introduction To Mechanical Engineering: Thermodynamics, Mechanics And Strength Of Material* Onkar Singh, 2006 This Book Is The Systematic Presentation Of The Concepts And Principles Essential For Understanding Engineering Thermodynamics Engineering Mechanics And Strength Of Materials Textbook Covers The Complete Syllabus Of Compulsory Subject Of Mechanical Engineering Of Uttar Pradesh Technical University Lucknow In Particular And Other Universities Of The Country In General For Undergraduate Students Of Engineering And Technology Basic Concepts And Laws Of Thermodynamics Have Been Clearly Explained Using A Large Number Of Solved Problems Entropy Properties Of Pure Substances Thermodynamic Cycles And IC Engines Are Described In Detail Steam Tables And Mollier Diagram Is Included Principles Of Engineering Mechanics Have Been Discussed In Detail And Supported By Sufficient Number Of Solved And Unsolved Problems Simple And Compound Stresses Are Discussed At Length Bending Stresses In Beam And Torsion Have Been Covered In Detail Large Number Of Solved And Unsolved Problems With Answers Are Given At The End Of Each Chapter SI Units Are Used Throughout The Book *Elements of Mechanical Engineering (PTU)* Sadhu Singh, 2009 The present book on Elements of Mechanical Engineering is meant for the engineering students of all branches at their first year level It covers the new syllabus of Panjab Technical University Jalandhar However it shall be useful to students of other Universities also The book covers the basic principles of Thermodynamics zeroth law of Thermodynamics and the concept of temperature in the first chapter Mechanical Engineering Science, for Technicians' Course Arnold Oxley, 1963 **Introduction to Mechanical Engineering** Michael Clifford, 2024-11-26 Introduction to Mechanical Engineering Part 2 is the essential text for all second year undergraduate students as well as those studying foundation degrees and Higher National Diplomas Written by an experienced team of lecturers at the internationally renowned University of Nottingham the text provides thorough coverage of the following core engineering topics fully updated for the Second Edition Fluid dynamics Thermodynamics Solid mechanics Electromechanical drive systems Feedback and control theory Structural vibration As well as mechanical

engineers the text will be highly relevant to automotive aeronautical aerospace and general engineering students All units include questions with Units 4 and 5 including enhanced detailed solutions online as a bonus feature Introduction To Mechanical Engineering 3rd Edition Singh, **The Elements of Mechanical Engineering** International Correspondence Schools,1897 **Mechanical Engineering** ,1965 **Mechanical Engineering** Advisory Centre for Education,1969

Fundamentals Of Mechanical Engineering: Thermodynamics Mechanics And Strength Of Materials G. S.

Sawhney,2006-09 *Comprehensive Elements of Mechanical Engineering* Rajput,2005 **Handbook of Mechanical Engineering** Shishir Kumar Persai,2019-11-18 The last leg of all technical competitive exams including GATE ESE and PSUs require brushing of concepts and quick revisions However with bulky books the same is not possible You can and probably have already missed key formulae and ended up with not so good results To make your life easy GKP has come up with Handbook series for Mechanical Engineering Civil Engineering Electrical Engineering Computer Science Engineering and Electronics and Communications Engineering Our Handbook for Mechanical Engineering serves as a quick reference guide to brush up key concepts It also helps you revise the entire syllabus quickly in limited time Mechanical engineering is a sought after branch in GATE UPSC ESE major PSUs and several students write its paper annually We hope that the book is immensely useful for students aiming to clear competitive examinations and for students looking for exam preparation material to revise various concepts Key features of the book include a Last minute prep aspects b Formulae with conceptual clarity c Definitions and equations with explanatory notes Mechanical Engineering Handbook ,1958 *Guidance Leaflets* Walter James Greenleaf,United States. Office of Education,1934 **Marks' Standard Handbook for Mechanical Engineers** Eugene A. Avallone,Theodore Baumeister,Ali M. Sadegh,2006-12-07 Solve any mechanical engineering problem quickly and easily with the world s leading engineering handbook Nearly 1800 pages of mechanical engineering facts figures standards and practices 2000 illustrations and 900 tables clarifying important mathematical and engineering principle and the collective wisdom of 160 experts help you answer any analytical design and application question you will ever have

Mechanical Engineering Science for Technicians Course A. Oxley,1963 *Mechanical Engineering Essentials Reference Guide* Harold A. Rothbart,Tyler Gregory Hicks,1988 **Elements of Mechanical Engineering** R.K. Tyagi,R.S. Pandey,2008-08-01 Elements of Mechanical Engineering occupy a prominent position of understanding over view of mechanical engineering It consists of three units which are basic principals of thermodynamics basic manufacturing process simple stress and strain Throughout the book S I units have been followed Basic principle has been explained in detail by using solved problems Several unsolved problems tutorial sheets objective questions have been provided at the end of each chapter for practice This book is intended to serve as a textbook for the course of B Tech 1st and 2nd semester for the students of Amity University who find difficulties for finding syllabus of Amity University in a single book and is written in SI system Each chapter of the book is written in a simple and logical way and explaining theory with the help of examples

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