

**LABORATORY MANUAL
WORKSHOP PRACTICE
(ME 192)**



DEPARTMENT OF MECHANICAL ENGINEERING

Mechanical Workshop Practice Manual

A. K. Sarathe

Mechanical Workshop Practice Manual:

MECHANICAL WORKSHOP PRACTICE, Second Edition JOHN, K. C.,2010-08-27 Designed for the core course on Workshop Practice offered to all first year diploma and degree level students of engineering this book presents clear and concise explanation of the basic principles of manufacturing processes and equips students with overall knowledge of engineering materials tools and equipment commonly used in the engineering field The book describes the general principles of different workshop processes such as primary and secondary shaping processes metal joining methods surface finishing and heat treatment The workshop processes covered also include the hand working processes such as benchwork fitting arc welding sheet metal work carpentry blacksmithy and foundry It also explains the importance of safety measures to be followed in workshop processes and details the procedure of writing the records of the practices The tools and equipment used in each hand working process are enumerated before elaborating the process Finally the book discusses the machining processes such as turning operations the cutting tools and the tools used for measuring and marking and explains the working principle of Engine Lathe An appendix for advanced level practice and assessment of work has also been included New to This Edition A separate chapter on Plumbing as per the revised syllabus of Indian Universities Method for sketching isometric single line piping layout Neatly drawn illustrations and examples on Plumbing Key Features Follows the International Standard Organization ISO code of practice for drawings Includes a large number of illustrations to explain the methods and processes discussed Contains chapter end questions for viva voce test and exercises for making models

Engineering Workshop Practice | AICTE Prescribed Textbook - English A. K. Sarathe,2021-11-01 Engineering Workshop Practice Manual is a common paper for the first year Diploma course in Engineering Technology Syllabus of this book is strictly aligned as per model curriculum of AICTE and academic content is amalgamated with the concept of outcome based education Engineering Workshop Practice manual covers five units First unit deals with the carpentry second unit is about fitting third unit focuses on welding fourth units discusses about sheet metal working and the fifth unit deals with electrical house wiring The manual comprises of total seventeen workshop practical from P1 to P17 and the same are arranged in hierarchical manner from simple to complex so that students should not only focus on completing the practical and getting the marks grades but will also be motivated to create useful products incorporating their creative and critical thinking as well Some salient features of the book 1 Content of the manual aligned with the mapping of Course Outcomes Programs Outcomes and practical outcomes 1 Relevant theory has been included at the beginning of each practical 1 The manual has been developed to ensure alignment with the Outcome Based Education philosophy and consisting of total seventeen workshop practical 1 Unit wise practical are arranged in hierarchical manner from simple to complex 1 Manual provides recent information and QR Code for E resources etc 1 Figures photographs and table are inserted to improve clarity of the content

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