#### MOI UNIVERSITY

#### SCHOOL OF ENGINEERING

#### DEPARTMENT OF MECHANICAL & PRODUCTION ENGINEERING

FOURTH YEAR LABORATORY WORK FOR THE DEGREE OF BACHELOR OF TECHNOLOGY IN PRODUCTION ENGINEERING

COURSE CODE:

PRD 462

COURSE TITLE:

MACHINE TOOL TECHNOLOGY

LABORATORY WORK I: METAL CUTTING MACHINE TOOLS

#### 1. OBJECTIVES

The main objective of this laboratory work is to strengthen the theoretical knowledge gained by the students in the course of machine tool technology. At the end of the laboratory work the students will be able to know and understand.

- The various metal cutting tools used in the workshop and how to classify them.
  - ii) The major components and units of standard metal cutting machine tools.
  - The primary and auxiliary motions for every metal cutting machine tool available in the workshop.

#### 2. LABORATORY CONTENT

 Identify and name all metal cutting machine tools available in the workshop noting their characteristics. Use Table 1 to answer this part.

No.	Name machine tool	Purpose of the machine tool	Accuracy of the machine	Weight of the machine	Accessories attached
1					
2					
3					

Machining Parameters					Cutting tools used		Work plece dimensions		Type of coolant used
Op.	Max Sp	Min Sp	Max Fd.	Min. Fd.	Name of tool	Tool Material	Smallest	Biggest	
					7.45				

(P5 170 EMERY)

Pg2 = + 2

# **Lab Manual For Machine Tool Technology**

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#### **Table of Contents Lab Manual For Machine Tool Technology**

- 1. Understanding the eBook Lab Manual For Machine Tool Technology
  - The Rise of Digital Reading Lab Manual For Machine Tool Technology
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Lab Manual For Machine Tool Technology
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Lab Manual For Machine Tool Technology
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Lab Manual For Machine Tool Technology
  - Personalized Recommendations
  - Lab Manual For Machine Tool Technology User Reviews and Ratings
  - Lab Manual For Machine Tool Technology and Bestseller Lists
- 5. Accessing Lab Manual For Machine Tool Technology Free and Paid eBooks

- Lab Manual For Machine Tool Technology Public Domain eBooks
- Lab Manual For Machine Tool Technology eBook Subscription Services
- Lab Manual For Machine Tool Technology Budget-Friendly Options
- 6. Navigating Lab Manual For Machine Tool Technology eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Lab Manual For Machine Tool Technology Compatibility with Devices
  - Lab Manual For Machine Tool Technology Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Lab Manual For Machine Tool Technology
  - Highlighting and Note-Taking Lab Manual For Machine Tool Technology
  - Interactive Elements Lab Manual For Machine Tool Technology
- 8. Staying Engaged with Lab Manual For Machine Tool Technology
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Lab Manual For Machine Tool Technology
- 9. Balancing eBooks and Physical Books Lab Manual For Machine Tool Technology
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Lab Manual For Machine Tool Technology
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Lab Manual For Machine Tool Technology
  - Setting Reading Goals Lab Manual For Machine Tool Technology
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lab Manual For Machine Tool Technology
  - Fact-Checking eBook Content of Lab Manual For Machine Tool Technology
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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