

# University Of Ilorin

# Department Of Mechanical Engineering

Faculty Of Engineering And Technology

A Technical Report on the Tensile Test on Re-enforcement Steel Bar

**By Alawode Ridwan Olatunji**

Course: Mechanics Of Deformable Bodies (MEE311)

Supervisor’s Name: Engr Mustapha Ndagi

Date Of Experiment: January 25TH, 2023

Tensile Test on Re-enforcement Steel Bar

ALAWODE Ridwan Olatunji

# Table of Contents

[Project Group Members ii](#_Toc127165425)

[Table of Contents iii](#_Toc127165426)

[Apparatus Used iv](#_Toc127165427)

[1. Introduction 2](#_Toc127165428)

[1.1. Background 2](#_Toc127165429)

[2. Procedure 4](#_Toc127165430)

[2.1. Process of Purchase. 4](#_Toc127165431)

[2.2. Process of Machining. 4](#_Toc127165432)

[3. Result 6](#_Toc127165433)

[4. Source of Errors 7](#_Toc127165434)

[5. Precautions 8](#_Toc127165435)

[6. Observation 9](#_Toc127165436)

[7. Conclusion 10](#_Toc127165437)

[References and Table of Figures 11](#_Toc127165438)

[References 11](#_Toc127165439)

[Table of Figures 11](#_Toc127165440)

# Apparatus Used

# 1. Introduction

This technical report describes the process of machining a mild steel rebar

## 1.1. Background

Turning is a very important machining process in which a single-point cutting

# 2. Procedure

# 3. Result

# 4. Source of Errors

# 5. Precautions

# 6. Observation

# 7. Conclusion

# References and Table of Figures

## References

## Table of Figures

[Figure 0‑1. Hand File iv](#_Toc126817203)

[Figure 0‑2. Hacksaw iv](#_Toc126817204)

[Figure 0‑3. Vernier Calliper iv](#_Toc126817205)

[Figure 0‑4. Lathe Machine iv](#_Toc126817206)

[Figure 0‑1. Turning Process. Source: [F3] 2](#_Toc126817207)

[Figure 0‑2. A mild steel rebar rod 3](#_Toc126817208)

[Figure 3‑0‑1. Drawing of the expected finished product 6](#_Toc126817209)

[Figure 3‑0‑2. Finished product with 30 mm chuck grip allowance 6](#_Toc126817210)