

Organized by: Department of Mechanical Engineering

Institution: St. John College of Engineering and Management, Palghar

Date: 23rd September 2024 to 28th September 2024

Participants: Lab Attendants

1. Introduction

The Department of Mechanical Engineering organized a hands-on workshop on the operation and use of the Lathe Machine from 23rd September to 28th September 2024. This workshop was specifically designed for lab attendants to enhance their practical skills in machining and improve their efficiency in assisting students during machine shop sessions.

2. Objective of the Workshop

The primary objective of the workshop was to provide lab attendants with comprehensive knowledge and hands-on experience in operating the lathe machine. The workshop focused on the following key areas:

- Understanding the working principles of the lathe machine.
- Familiarization with different components and controls.
- Performing various machining operations such as turning, facing, taper turning, knurling, and threading.
- Maintaining machine safety and understanding proper handling procedures.

3. Content of the Workshop

The workshop was structured to cover both theoretical knowledge and practical application. The topics covered were:

- **Day 1 (23rd September 2024):**
 - Introduction to the lathe machine.
 - Explanation of lathe components and their functions.
 - Basic safety precautions while operating the lathe.
- **Day 2 (24th September 2024):**
 - Demonstration of turning and facing operations.
 - Hands-on practice for all participants.
- **Day 3 (25th September 2024):**
 - Introduction to taper turning and threading operations.
 - Practical session for participants to perform threading.
- **Day 4 (26th September 2024):**
 - Demonstration of knurling and drilling on the lathe.
 - Group discussion on troubleshooting and machine maintenance.
- **Day 5 (27th September 2024):**
 - Practical exercises for participants covering all the operations.
 - Personalized guidance and correction.
- **Day 6 (28th September 2024):**
 - Review of all the operations.
 - Final assessment of the participants' skills.

4. Outcomes

The workshop was successful in achieving its goals. All participants were able to:

- Gain confidence in operating the lathe machine independently.
- Improve their ability to assist students in machine shop sessions.
- Understand the importance of regular maintenance and safety protocols in a machine shop environment.

5. Certification Ceremony

On the final day of the workshop, a certification ceremony was held. Certificates were distributed to all participants by the Principal of St. John College of Engineering and

Management. The Principal emphasized the importance of such training programs in keeping the lab attendants updated with practical skills essential for the smooth functioning of the department.

6. Conclusion

The machine shop workshop for lab attendants was a valuable experience for all participants. It provided them with essential practical knowledge that will contribute significantly to the overall efficiency and safety of machine shop operations at St. John College of Engineering and Management.

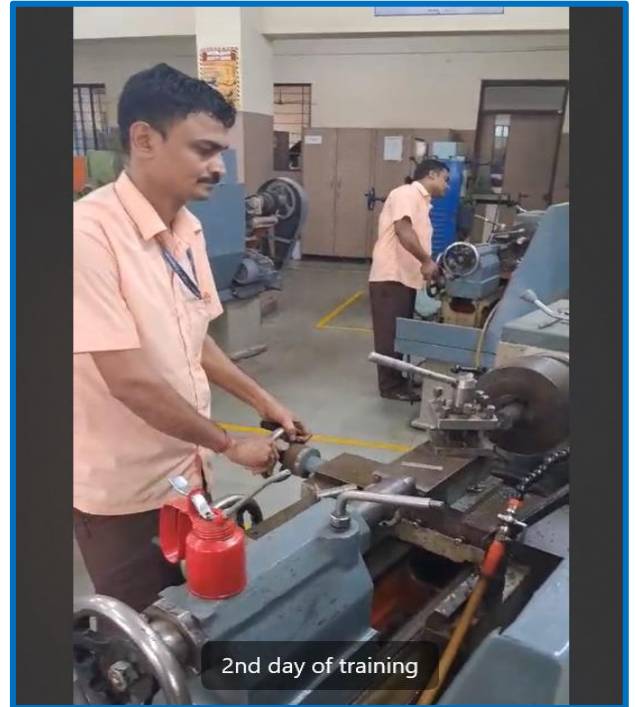
Prepared by:

Mr. Sagar R. Patil

Assistant Professor

Department of Mechanical Engineering

St. John College of Engineering and Management, Palghar





Distribution of Training Certificate from Honourable Principal, SJCEM