



KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES
(Declared as Deemed to be University under Sec. 3 of the UGC Act 1956)
A CHRISTIAN MINORITY RESIDENTIAL INSTITUTION
AICTE Approved & NAAC Accredited
Karunya Nagar, Coimbatore - 641 114, Tamil Nadu, India

DEPARTMENT OF MECHANICAL ENGINEERING

LATHE SHOP

The purpose of this laboratory is to familiarize students with working in All geared Lathes and Cone pulley Lathes. Students learn to machine parts and features that have a circular cross section. Students learn to do various types of operations such as Step Turning, Taper Turning, Knurling, Drilling, Boring, Tapping, External Thread cutting etc. This lab facilitates the students to select appropriate cutting tool for doing various operations.

COURSE OBJECTIVES:

To impart knowledge on

1. To impart knowledge on working in Lathe.
2. To impart knowledge on various operations in Lathe.
3. To impart knowledge on selection of tools for machining operations.

COURSE OUTCOMES:

After completing the course the students will be able to

1. Demonstrate skills to machine cylindrical components
2. Interpret component drawings and select appropriate cutting tools.
3. Compare the dimensions of the components using measuring instruments.

Facilities available for regular class work, project, research and consultancy

All Geared Lathe – Horizon Make

All Geared Lathe - MMM Loyal Make

All Geared Lathe – Balaji Make

Cone Pulley Head Medium Duty Lathe

Cone Pulley Head Light Duty Lathe.

Taper Turning Attachment.

Industry matching equipment's



All Geared Lathe – Horizon Make

Major equipment's



Lathe Shop I



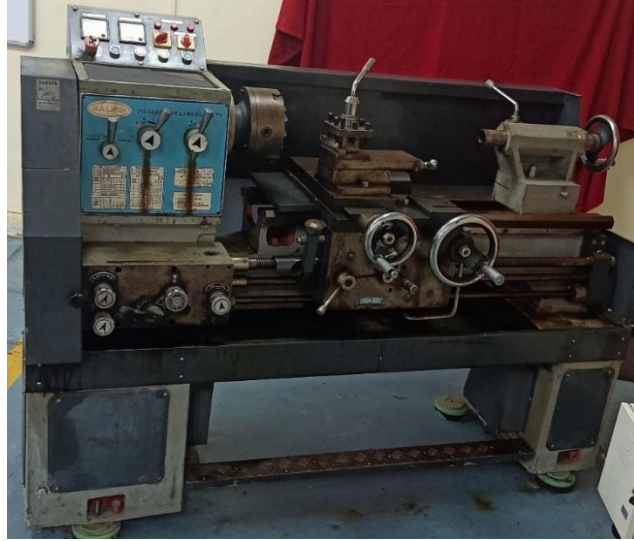
Lathe Shop II



All Geared Lathe – Horizon Make



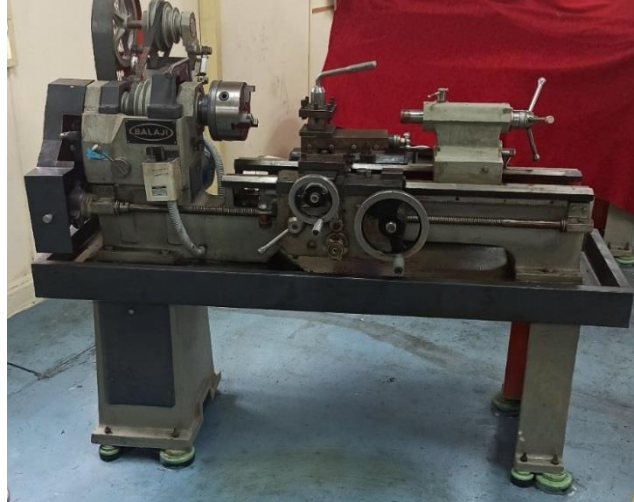
All Geared Lathe - MMM Loyal Make



All Geared Lathe – Balaji Make



Cone Pulley Head Medium Duty Lathe



Cone Pulley Head Light Duty Lathe

Lab in charge:

Dr. D. Philip Selvaraj, M.E., Ph.D., Assistant Professor (S.G.)



Lab technician:

Mr. J. Jones Robin, B.E., Engineering Technician

