

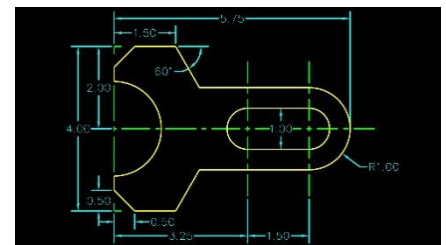


# अभिकलित्र सहायित अभिकल्पना एवं अभिकलित्र सहायित विनिर्माण प्रयोगशाला

## Computer Aided Design & Computer Aided Manufacturing Lab

### Major Equipments:

- CNC Lathe Machine
- CNC Milling Machine
- Robotic Arm
- 25 - Computers
  - AutoCAD
  - CATIA



#### In Charge

Prof. S. Agarwal  
(9752112131)

#### Associate In Charge

Prof. Manish Sharma (9899807140)  
Prof. Neeraj Mishra (7973245088)  
Prof. Syed Faiz Ahmad (9910575890)

#### Physical In Charge

Mr. Ram Mahor  
(7879334866)



CAD / CAM  
Equipment

## Department Of Mechanical Engineering



# अभिकलित्र सहायित अभिकल्पना एवं अभिकलित्र सहायित विनिर्माण प्रयोगशाला

## Computer Aided Design & Computer Aided Manufacturing Lab

### **SAFETY AND SECURITY RULES TO BE FOLLOWED IN LABORATORY:**

1. Always remove shoes before entering in the lab.
2. Do not touch anything without the permission of instructor/ lab assistant.
3. Read carefully the lab manual before performing experiments.
4. Switch off the power supply to the experimental setup on completion of the experiment.
5. Maintain clean and orderly laboratories and work area.
6. Do not leave experiments running unattended.
7. Any injuries should be reported immediately for proper care.
8. Computers and peripherals are not to be moved or reconfigured without approval of Lab and Classrooms staff.
9. Students may not install software on lab computers. If you have a question regarding specific software that you need to use, contact the Classroom and Labs support team.
10. The use of tobacco products is not allowed in computer classrooms and labs.
11. Remember to log out whenever you are done using any lab computer.
12. Violation of any of the above rules may result in disciplinary action and the loss of lab privileges.
13. Keep your belonging (bags etc) at appropriate place
14. Know where the fire extinguisher is located and how to use it.
15. Do not open the system unit casing or monitor casing
16. Do not insert metal objects such as clips, pins and needles into the computer casings.
17. Do not remove anything from the computer laboratory without permission.
18. Do not touch, connect or disconnect any plug or cable without your lecturer/laboratory technician's permission.
19. USB drive is strictly prohibited.

### **GENERAL INSTRUCTIONS**

1. Boys should tuck in the shirts.
2. Long hair should be protected, let it not be loose specially near rotating machineries.
3. Any other machines/ equipments should not be operated other than the prescribed one for that day.
4. Read carefully the lab manual before performing experiments.
5. Do not lean and do not be close to the rotating components.
6. Tools, apparatus and gauge sets are to be returned before leaving the laboratory.
7. Experiment date should be written in the appropriate place.
8. After completing the experiments the answer to the viva voice questions should be neatly written in the workbook.



अभिकलित्र सहायित अभिकल्पना एवं अभिकलित्र

सहायित विनिर्माण प्रयोगशाला

# Computer Aided Design & Computer Aided Manufacturing Lab

## Design of Machine Elements (120402)

### List of Experiments:

1. Design and drawing of Single, double and triple riveted joint.
2. Design and drawing of Single and double strap butt joint.
3. Design and drawing of Welded joint.
4. Design and drawing of Socket and Spigot cotter joint.
5. Design and drawing of Gib and Cotter joint.
6. Design and drawing of Knuckle joint.
7. Study of Theories of failure.
8. Design and drawing of Solid and hollow shaft.
9. Design and drawing of rigid coupling.
10. Design and drawing of Flexible coupling.