

"PVC" NSSK GOVT POLYTECHNIC BILASPUR

PLANNED PRACTICAL SYLLABUS COVERAGE

| Department: Mechanical Engg. | | | | Subject: COMPUTER AIDED MACHINE DRAWING PRACTICE | | |
|----------------------------------|----------------|-------------------|--|--|--|---------|
| Sem. & Branch: 4TH / Mech. Engg. | | | | Duration: 3 Year | | |
| Teacher: Suresh Kumar | | | | | | |
| Syllabus coverage | | Total periods:-56 | | | Practical : Yes | |
| SR. NO | Period no /hrs | UNIT/ Chapter | Details | Instruction Reference | Additional study | Remarks |
| 1 | 04 hrs | UNIT 1 | Introduction to CAD software. | 1. Bhatt , N.D., Machine Drawing, Charotar Publishing House,2003. 2.Inside Auto CAD-D.Raker and H.Rice, BPB Publications. | 1. Sidheswar, N.,Kannaiah, P.and Sastry,V.V.S., Machine Drawing, Tata Mc Graw Hill Book Com-pany, New Delhi 2. Kannaih, P.,Production Drawing, New Age International,2009 | |
| 2 | 04 hrs | UNIT 2 | Drawing aids and editing commands. | | | |
| 3 | 04 hrs | UNIT 3 | Basic dimensioning, hatching, blocks and views. | | | |
| 4 | 04 hrs | UNIT 4 | Isometric drawing, printing and plotting | | | |
| 5 | 04 hrs | UNIT 5 | Machine Drawing practice using Auto CAD: Detailed drawings of following machine parts are to be given to the students to assemble and draw the sectional or plain elevations, plans and side views with dimensioning and bill of materials using cad software (any 10 exercises). Practical : 01 - Sleeve & Cotter Joint | | | |
| 6 | 04 hrs | | Practical : 02 - Spigot & Cotter Joint | | | |
| 7 | 04 hrs | | Practical : 03 -Knuckle joint | | | |
| 8 | 04 hrs | | Practical : 04 - Stuffing Box or Screw Jack | | | |
| 9 | 04 hrs | | Practical : 05 -Foot Step Bearing | | | |
| 10 | 04 hrs | | Practical : 06 -Universal Coupling | | | |
| 11 | 04 hrs | | Practical : 07 -Plummer Block | | | |
| 12 | 04 hrs | | Practical : 08 -Simple Eccentric or Machine Vice | | | |
| 13 | 04 hrs | | Practical : 09 -Connecting Rod | | | |
| 14 | 04 hrs | | Practical : 10 -Protected Type Flanged Coupling. | | | |

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| Approved | Sign HOD/IOC |
| <i>Suresh Kumar</i> | <i>Suresh Kumar</i> |
| 27/01/2025 | |