## FITTING SHOP TURNING, PACING AND CHAMPERING

Ex NO: 12

DATE : DECEMBER 10, 2021

To make the turning, facing and chamfering on the given metal work piece toget the required dimension

Application

mechnical industries

Malerial Supplied

Mild sleel rod of 25mm diameter x 75mm length

Tooks Required

I seed rule

4) Single point culting fool 7) spanner
5) Churck Key B) cleaning brush
6) Tool post Key

a) Vernier colifer

3) Center lathe m/c

Sequence of operation

Dehecking a) work piece selfing

3) Tool refling 4) facing

5) Twuing 6) Chamfering

Working Sleps:

1) The given work piece is checked for its given dimensions

2) The work piece is hold in the three jaw chuck chuck key is used to

High ten the job rigidly enswing centering of the work piece

3) The single point culting tool is fried in the tool post of the lathe machine using tool post Key and spanners. Sometimes the packing material like hock saw blade pieces, thick sheet paper material can be used to set

the tool oppropriately pointing towards the center of the job 4) facing operation is done to obtain the required length of the job

3) Twining operation is done to obtain the required diameter of the job

6) Chamfering is done to romove short edges and corners of the work piece by keeping the tool at an angle 450 to the lathe axis

| 7) finally the work piece dimensions are checked to conform to the specification given in the drawing   |
|---|
| \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$  |
| Raw material All dimension in mo.   |
| tinished I hade lines   |
| PRE LAB QUESTION  |
| 1) Define laft a  |
| A lathe is a machine fool that rotates a work hiere of  |
| A lathe is a machine fool that rotates a work piece about an axis of rotation to perform Various operation suchas facing, furning, chamfering etc.  |
| 2) his four the types of hathe  1) CNIC Lathe 2) central Lathe 3) Automotic Lathe 4) Semicutomotic Rathe  5) Twent Loth 6) Coxpentory Lathe 7) Tool room Lathe 8) workshop Loth  3) Mention main ports of Rothe |
| 5) Tweet Loth 6) Confest wells 2) Full of all of alle   |
| 3) Mention main books of kathe  |
| y spinale 2) church 3) Head Plack 4) T. J. f.   |
|   |
| 4) Mention different operations performed in Lothe.   |
| 4) Mention different operations performed in Rothe.  Facing 2) Twenting 3) Chamfering 4) Orilling 5) Knurling  5) List out lathe culting hole   |
| 7   |
| 1) Twenting fool 2) corbide Hipped bol 3) Knowling fool 4) revolving centre 5) dead centre  |
| Post LaB Question 1) what are the different types of lathe chuck? 1) fow jow chuck 2) Three you chuck 3) Drill chuck 2) Mention the hal malarite in 11 111  |
| ) favo low chuck 2) There is abuse 2) and all all   |
| 2) mention the tool materials used in talke.  |
| 2) Mention the tool malerials used in lathe. 1) steel 2) corbide 3) Alloys  |
| 3) Mention the tool post angle for facing twining and chamfering process facing - 150 to 200  |
| Twining - gos   |
| Chamfering-450  |
|   |

- 4) what is facing?
  facing is a operation is used to create a flat surface by reducing the height of the work piece
- 5) Define twining operation
  Twenting operation is used to reduce the diameter of the workpiece
  0. 10:

Hence the required shape and size are obtained using fouring, facing and chamfering eferation on the given work piece