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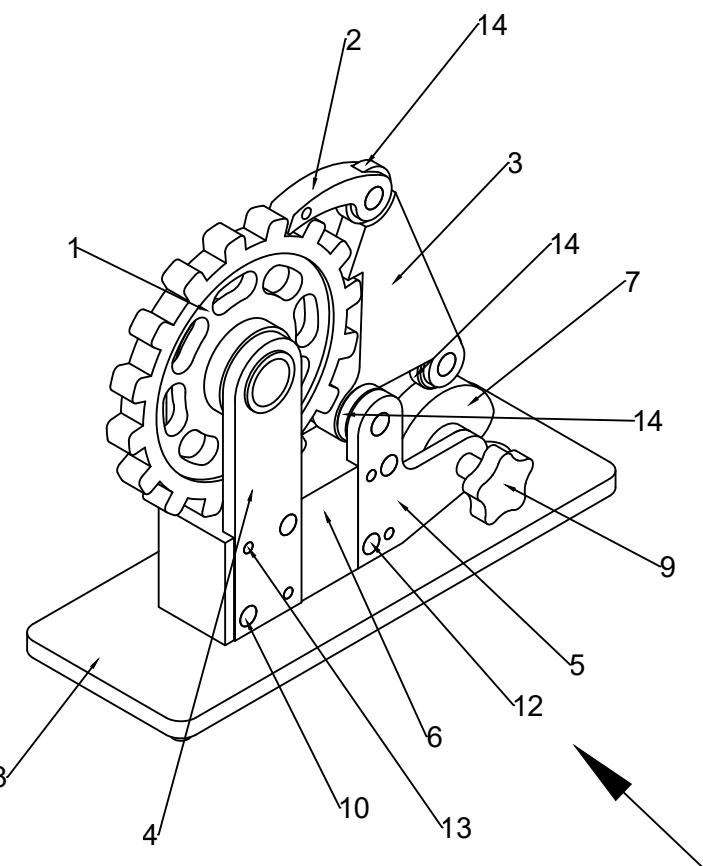


Figure 1

Q1: Assembly of a mechanism is shown in the figure 1 and the part drawings are shown in the adjoining figures.

Make the parts and assembly of the valve in the Inventor/FreeCAD Software.

Arrow in figure 1 shows the front viewing direction.

USE SCALING FACTOR = TOKEN NUMBER

The marks are divided in the following categories:

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Part Modeling 2. Assembly 3. Drawing With minimum 10 dimension and one section view 4. Proper Formatting | (22 Marks)
(06 Marks)
(01 Marks)
(01 Marks) |
|--|--|

Proper formatting means saving and submitting your files with file name:

Token Number_Entry Number_Group Number (e.g 07_2021ME12345_22)

DRN		DEPARTMENT OF MECHANICAL ENGINEERING, IIT DELHI	
CHKD		MCP 100 :ENGINEERING VISUALIZATION & COMMUNICATION	
APPD		I SEMESTER	
MINOR: MCP 100		TITLE: ASSEMBLY	
SOFTWARE BASED		ASSEMBLED	
		DRAWING NO:	SHEET 1 of 18
ALL DIMENSIONS ARE IN MM.		REV. 0	

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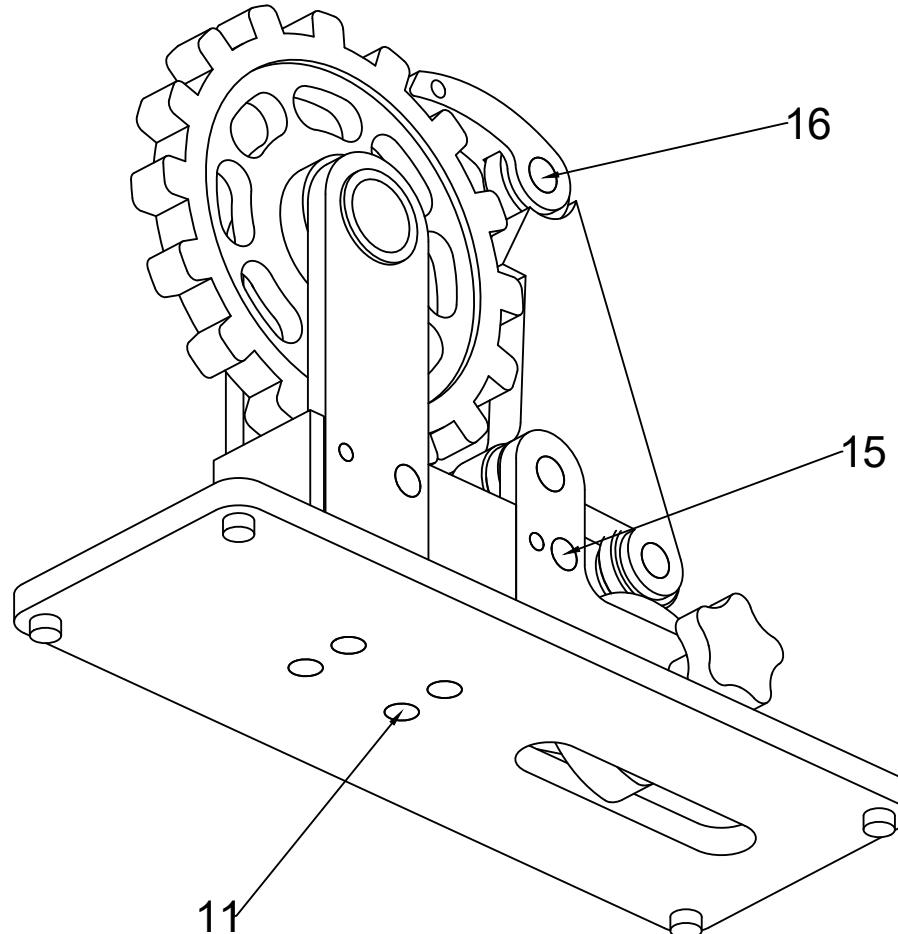
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SOFTWARE BASED		ASSEMBLED	
		DRAWING NO:	SHEET 2 of 18
			REV. 0

ALL DIMENSIONS ARE IN MM.

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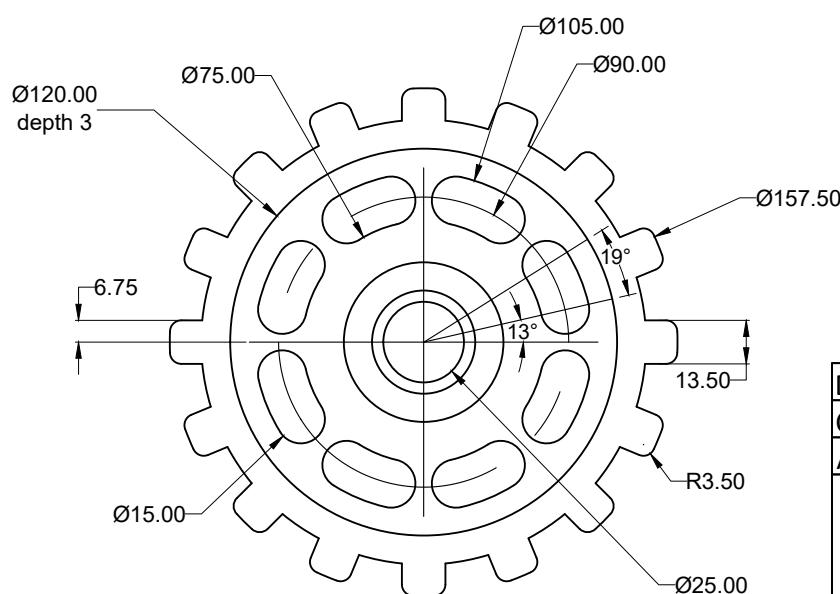
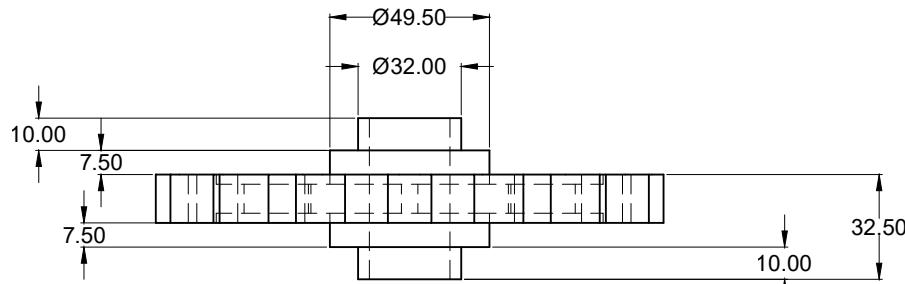
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	MINOR: MCP 100		TITLE: ASSEMBLY
	SOFTWARE BASED		PART 1
		DRAWING NO:	SHEET 3 of 18
			REV. 0

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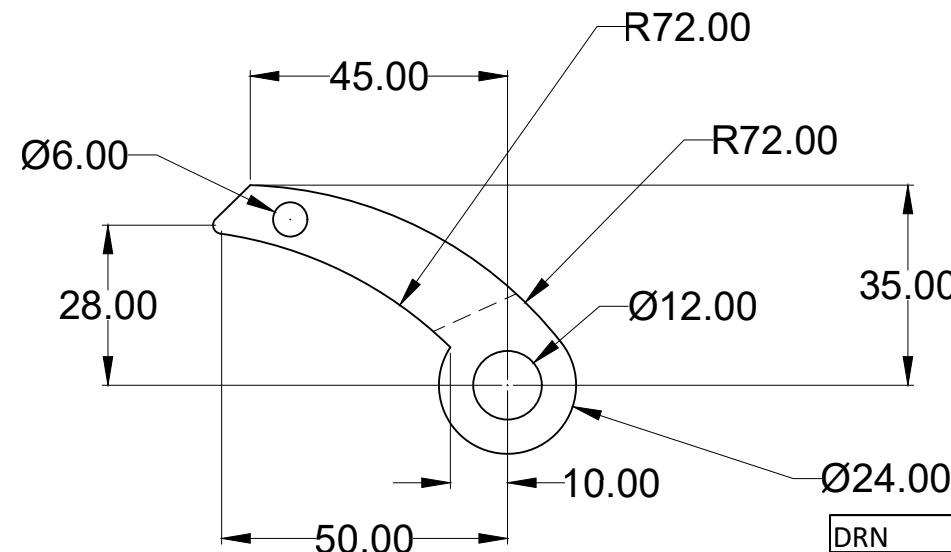
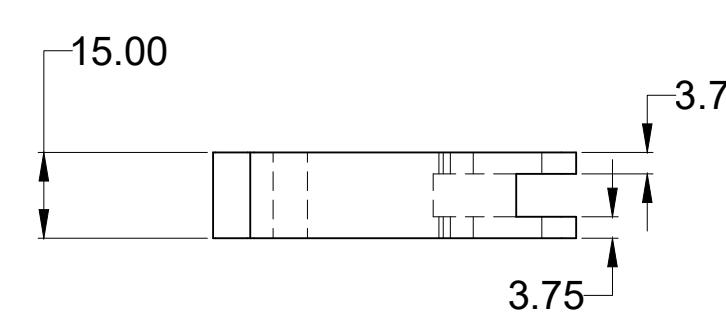
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MINOR: MCP 100		TITLE: ASSEMBLY
SOFTWARE BASED		PART 2
		DRAWING NO: SHEET 4 of 18
		REV. 0

ALL DIMENSIONS ARE IN MM.

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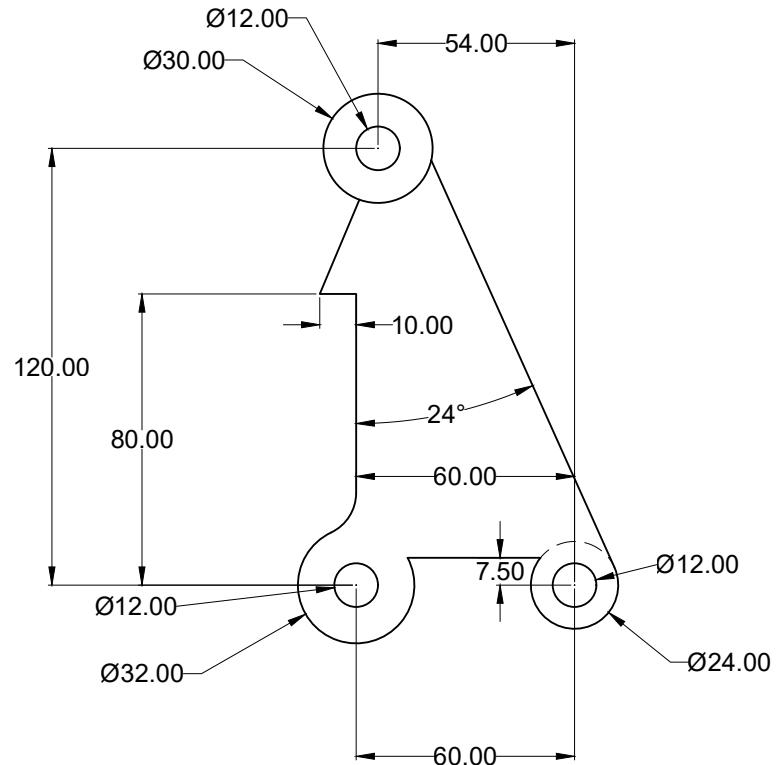
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MINOR: MCP 100		TITLE: ASSEMBLY
SOFTWARE BASED		PART 3
		DRAWING NO: SHEET 5 of 18
		REV. 0

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DRN		DEPARTMENT OF MECHANICAL ENGINEERING, IIT DELHI
CHKD		MCP 100 :ENGINEERING VISUALIZATION & COMMUNICATION
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	MINOR: MCP 100	TITLE: ASSEMBLY
	SOFTWARE BASED	PART 4
	DRAWING NO:	SHEET 6 of 18
		REV. 0

ALL DIMENSIONS ARE IN MM.

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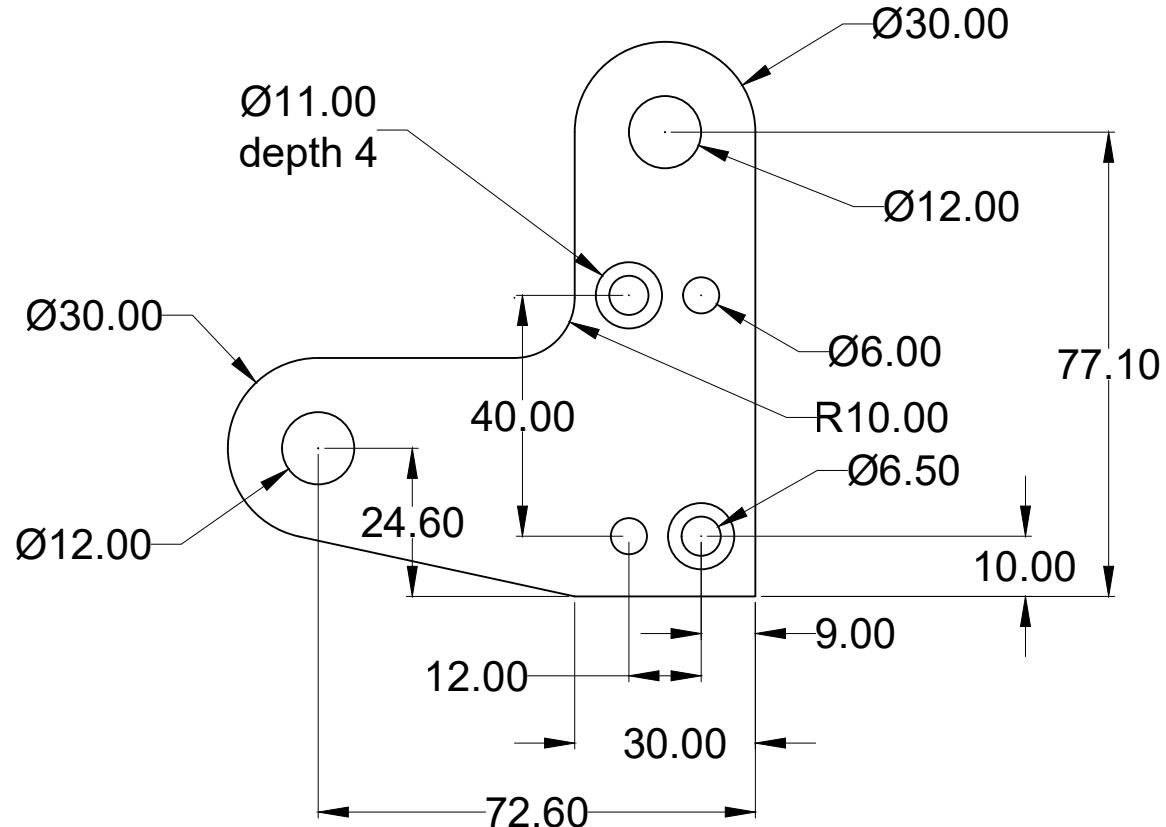
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		MINOR: MCP 100	TITLE: ASSEMBLY
		SOFTWARE BASED	PART 5
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ALL DIMENSIONS ARE IN MM.

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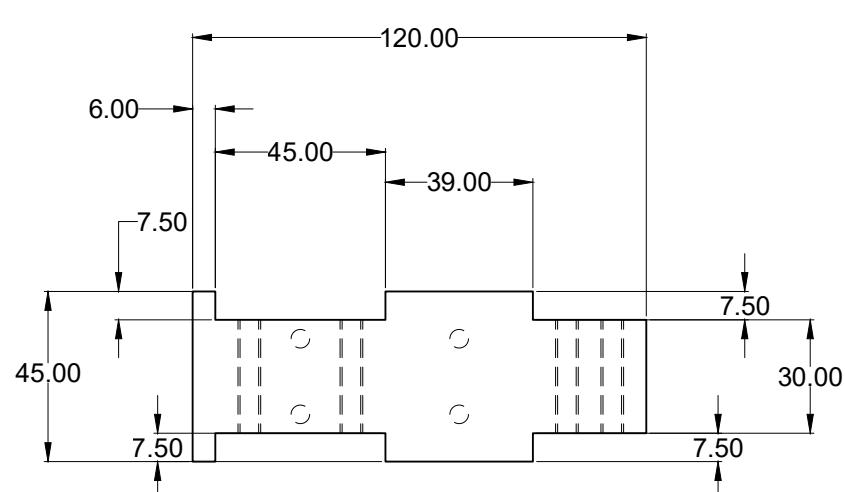
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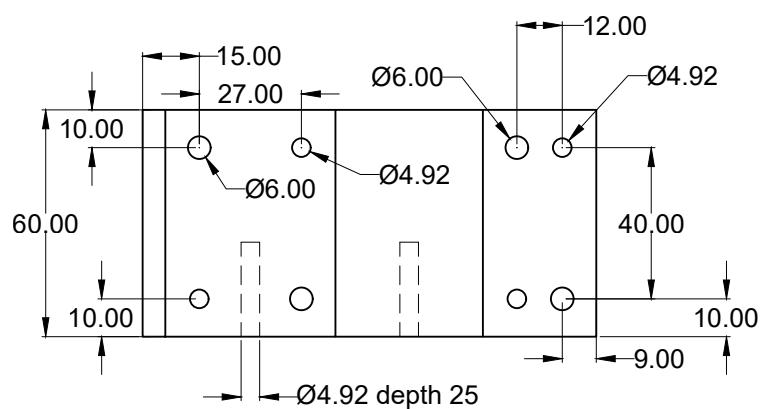
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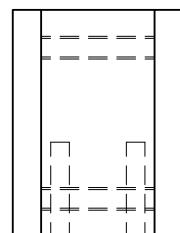
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		MINOR: MCP 100	TITLE: ASSEMBLY
		PSO/WAVELET BASED	
		PART 6	
		DRAWING NO:	SHEET 8 of 18
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ALL DIMENSIONS ARE IN MM.			

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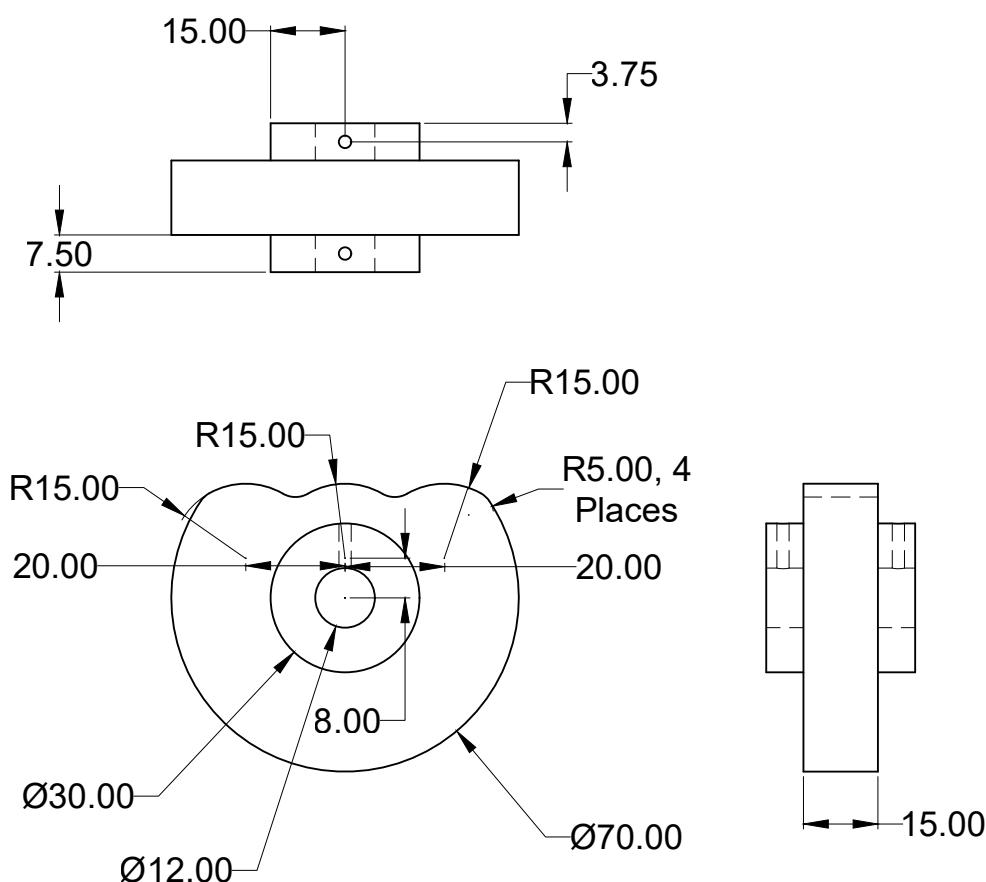
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CHKD		MCP 100 :ENGINEERING VISUALIZATION & COMMUNICATION
APPD		I SEMESTER
MINOR: MCP 100		TITLE: ASSEMBLY
SOFTWARE BASED		PART 7
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ALL DIMENSIONS ARE IN MM.

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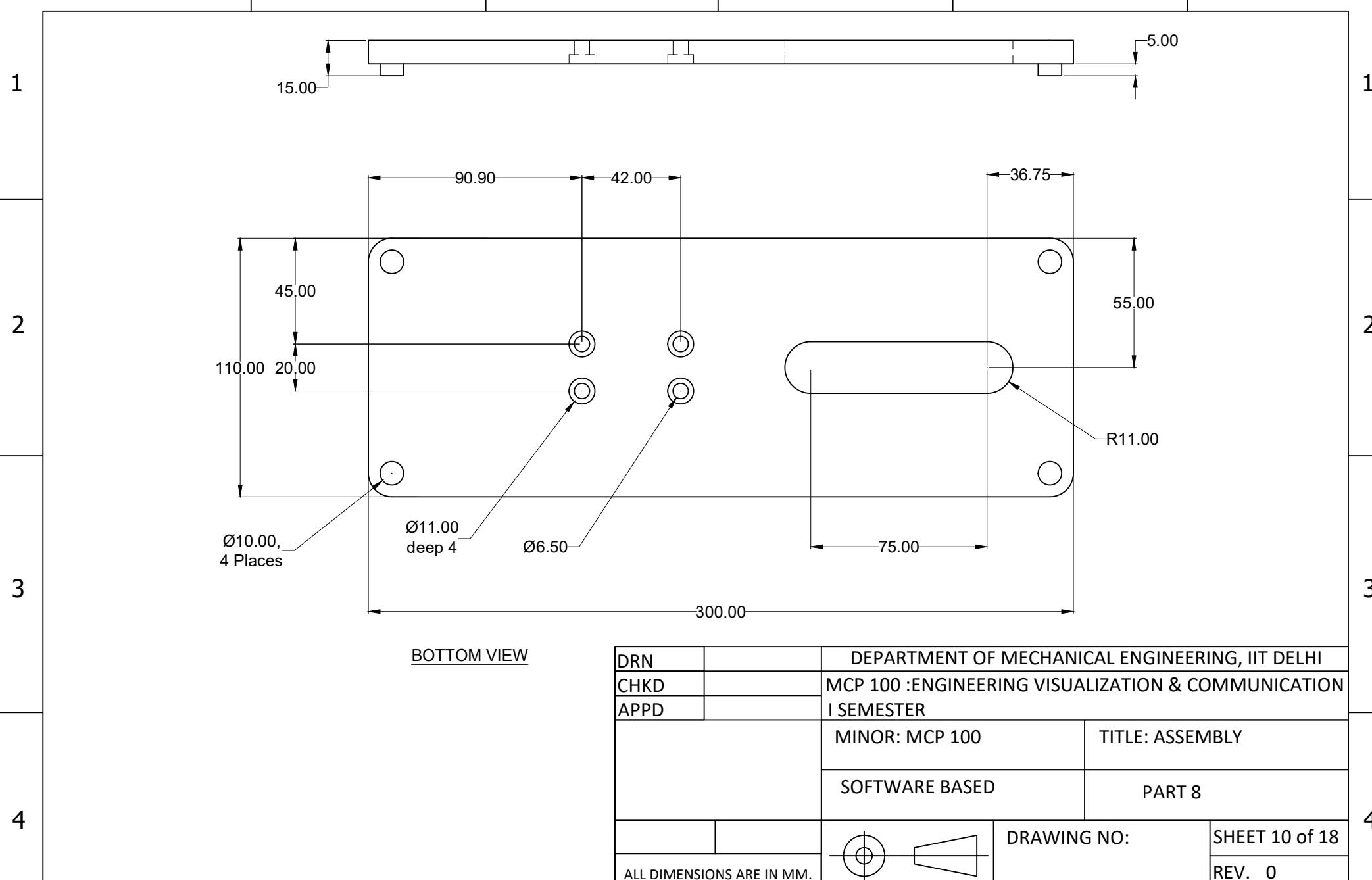
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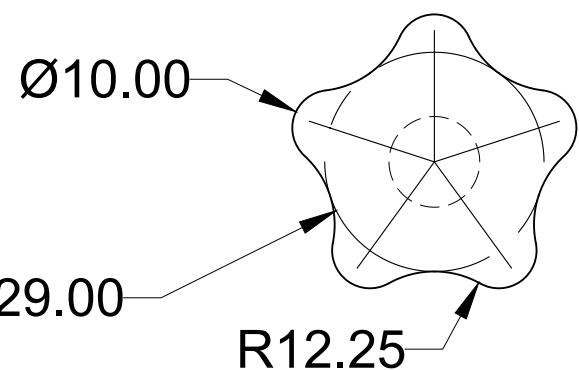
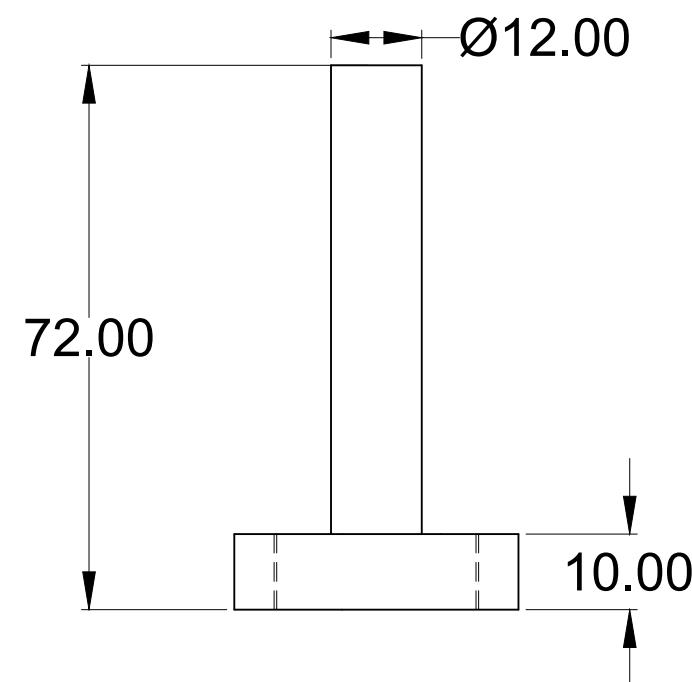
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APPD	I SEMESTER		
	MINOR: MCP 100		TITLE: ASSEMBLY
	SOFTWARE BASED		PART 9
		DRAWING NO:	SHEET 11 of 18
			REV. 0

ALL DIMENSIONS ARE IN MM.

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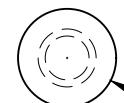
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DRN		DEPARTMENT OF MECHANICAL ENGINEERING, IIT DELHI	
CHKD		MCP 100 :ENGINEERING VISUALIZATION & COMMUNICATION	
APPD		I SEMESTER	
		MINOR: MCP 100	TITLE: ASSEMBLY
		SOFTWARE BASED	
		PART 10	
		DRAWING NO:	SHEET 12 of 18
			REV. 0

ALL DIMENSIONS ARE IN MM.

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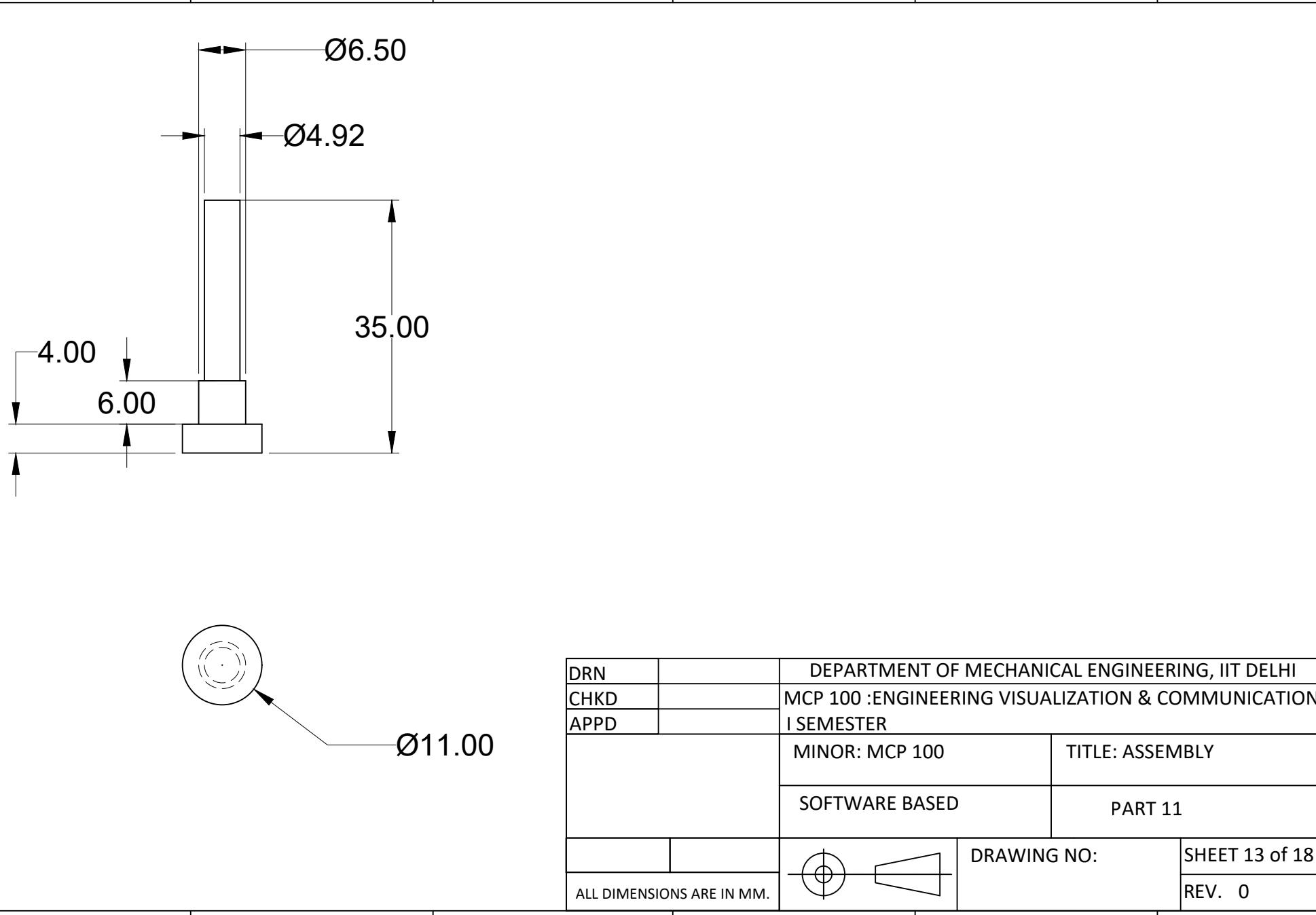
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APPD		I SEMESTER	
		MINOR: MCP 100	TITLE: ASSEMBLY
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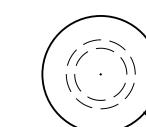
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DEPARTMENT OF MECHANICAL ENGINEERING, IIT DELHI

MCP 100 :ENGINEERING VISUALIZATION & COMMUNICATION

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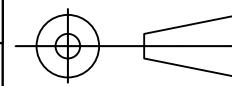
MINOR: MCP 100

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SOFTWARE BASED

PART 12

ALL DIMENSIONS ARE IN MM.



DRAWING NO:

SHEET 14 of 18

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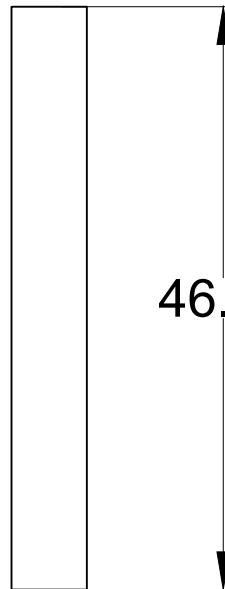
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DRN		DEPARTMENT OF MECHANICAL ENGINEERING, IIT DELHI	
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APPD		I SEMESTER	
		MINOR: MCP 100	TITLE: ASSEMBLY
		SOFTWARE BASED	
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		SHEET 15 of 18	
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ALL DIMENSIONS ARE IN MM.

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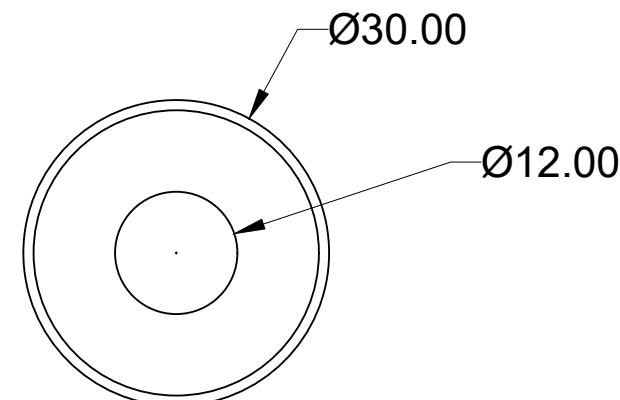
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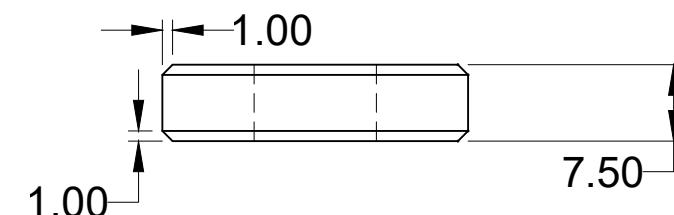


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DRN		DEPARTMENT OF MECHANICAL ENGINEERING, IIT DELHI	
CHKD		MCP 100 :ENGINEERING VISUALIZATION & COMMUNICATION	
APPD		I SEMESTER	
		MINOR: MCP 100	TITLE: ASSEMBLY
		SOFTWARE BASED	PART 14
		DRAWING NO:	SHEET 16 of 18
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ALL DIMENSIONS ARE IN MM.			

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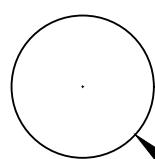
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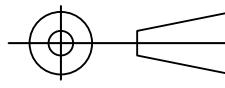
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DRN		DEPARTMENT OF MECHANICAL ENGINEERING, IIT DELHI	
CHKD		MCP 100 :ENGINEERING VISUALIZATION & COMMUNICATION	
APPD		I SEMESTER	
		MINOR: MCP 100	TITLE: ASSEMBLY
		SOFTWARE BASED	PART 15
		DRAWING NO:	SHEET 17 of 18
			REV. 0

ALL DIMENSIONS ARE IN MM.



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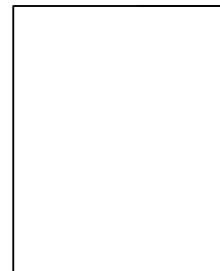
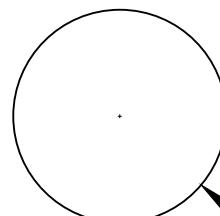
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DRN		DEPARTMENT OF MECHANICAL ENGINEERING, IIT DELHI	
CHKD		MCP 100 :ENGINEERING VISUALIZATION & COMMUNICATION	
APPD		I SEMESTER	
		MINOR: MCP 100	TITLE: ASSEMBLY
		SOFTWARE BASED	PART 16
		DRAWING NO:	SHEET 18 of 18
			REV. 0

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