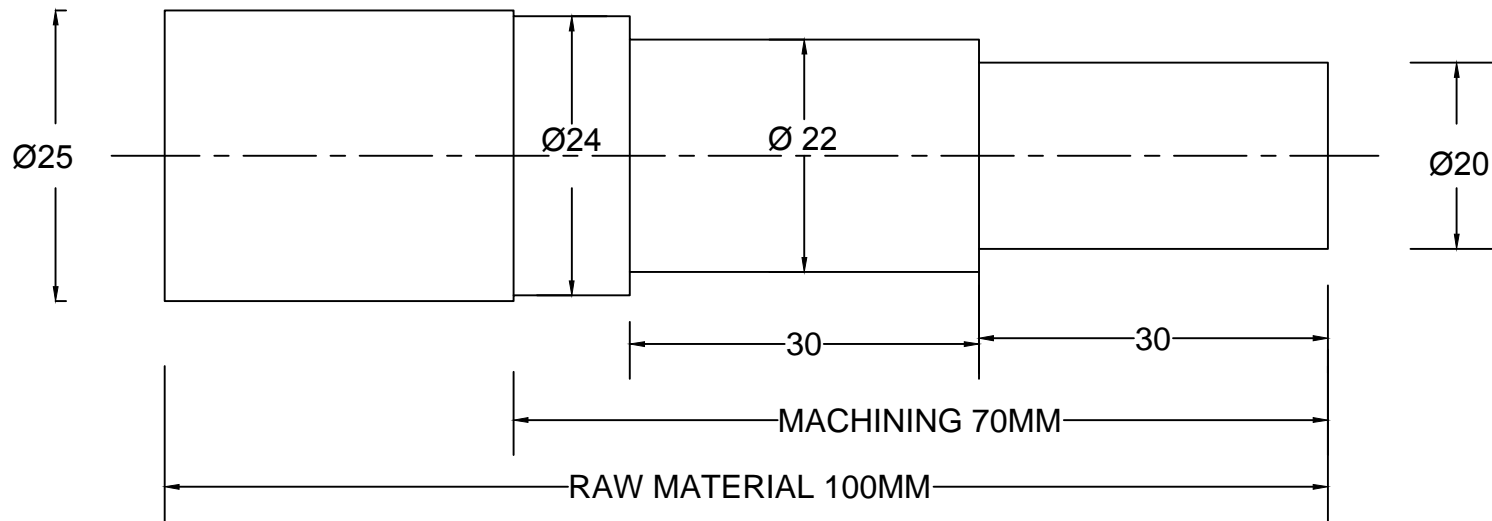# CNC LAB

Machine software: - Cut Viewer Turn V3.2

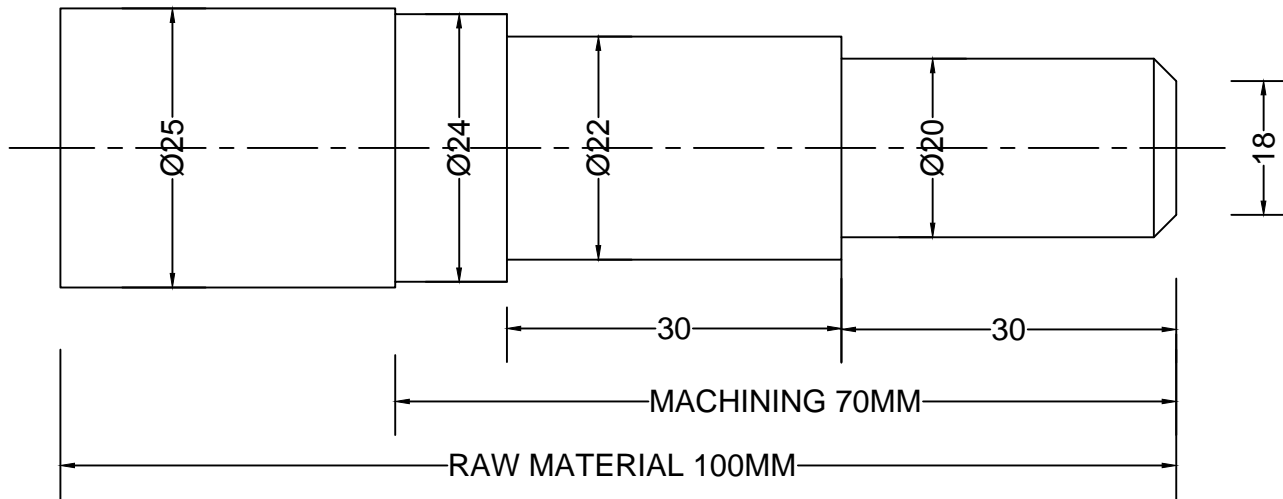# MECHANICAL ENGINEERING DEPARTMENT

Batch 2016-17

For Techno India NJR Institute of Technology

पंकज पोरवाल

Dr. Pankaj Kumar Porwal
(Principal)

PREPARED BY: - RAJENDRA LOHAR

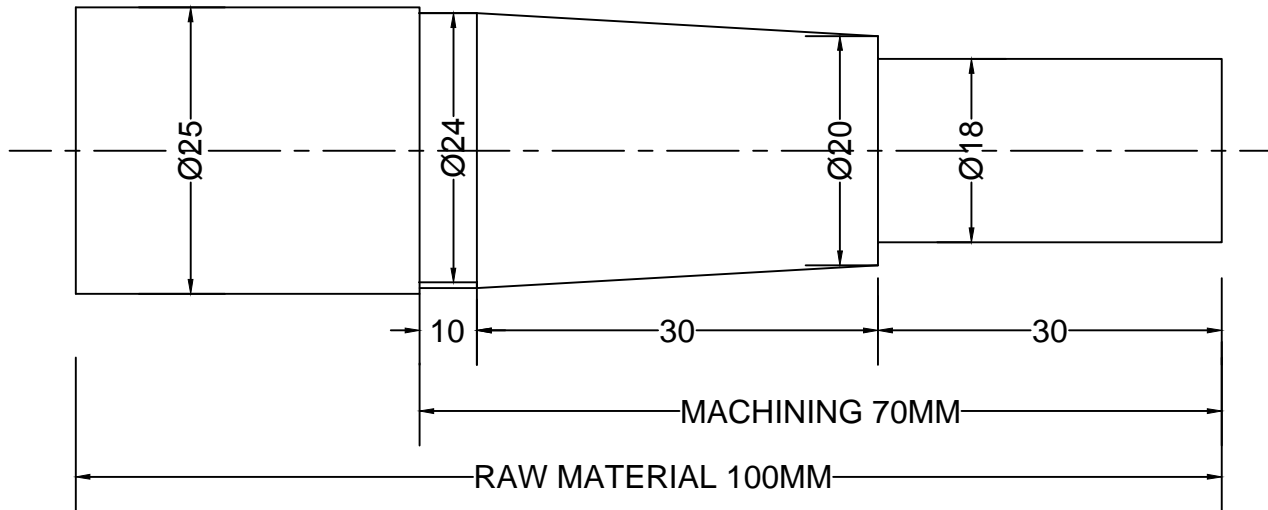Ø25   Ø24   Ø 22   Ø20

30   30

MACHINING 70MM

RAW MATERIAL 100MM

TECHNO INDIA NJR
INSTITUTE OF TECHNOLOGY

C.N.C. LAB Mechanical Department	All Dimension are in mm
	Designed By:- Rajendra Lohar
Operation Performed:- Step turning.	plain turning and
Date :- 01-08-2016	Experiment No.:- 001
Material:- Aluminium	

Ø25 Ø24 Ø22 Ø20 18

30 30

MACHINING 70MM

RAW MATERIAL 100MM

For Techno India NJR Institute of Technology
पंकज पोरवाल
Dr. Pankaj Kumar Porwal
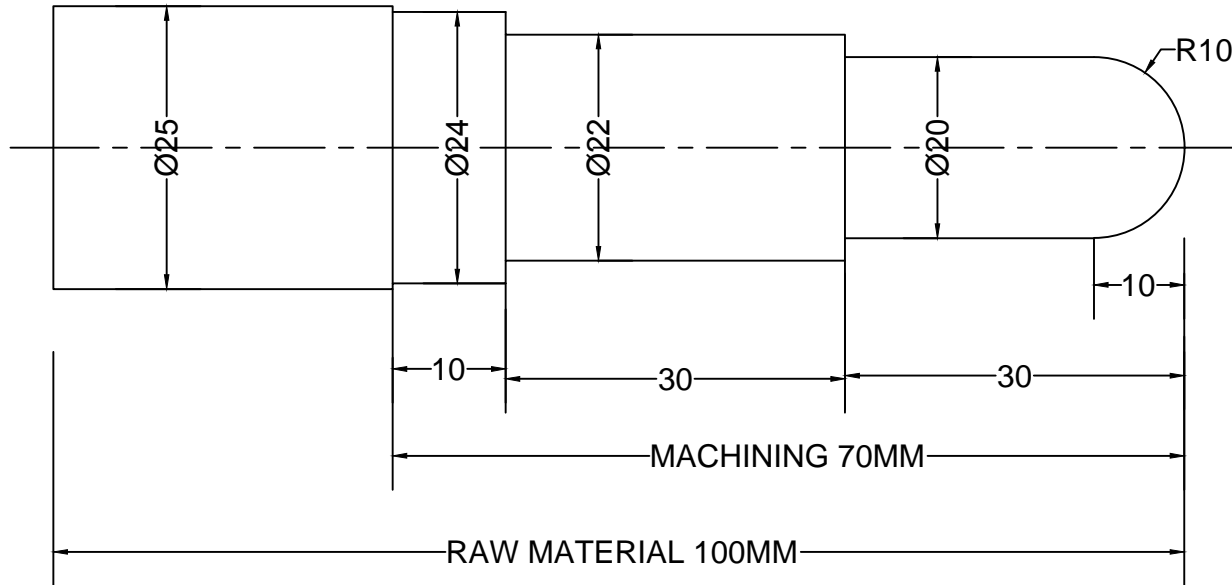(Principal)

TECHNO INDIA NJR
INSTITUTE OF TECHNOLOGY

C.N.C. LAB Mechanical Department	All Dimension are in mm
	Designed By:- Rajendra Lohar
Operation Performed:- Plain or Steps Turning with Chamfering.	
Date :- 01-08-2016	Experiment No.:- 002
Material:- Aluminium	

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Ø18

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MACHINING 70MM

RAW MATERIAL 100MM

For Techno India NJR Institute of Technology

पंकज पोरवाल

Dr. Pankaj Kumar Porwal

(Principal)

C.N.C. LAB Mechanical Department	All Dimension are in mm
	Designed By:- Rajendra Lohar
Operation Performed:- Facing, Turning or Taper turning operations.	
Date :- 01-08-2016	Experiment No.:- 003
Material:- Aluminium	

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MACHINING 70MM
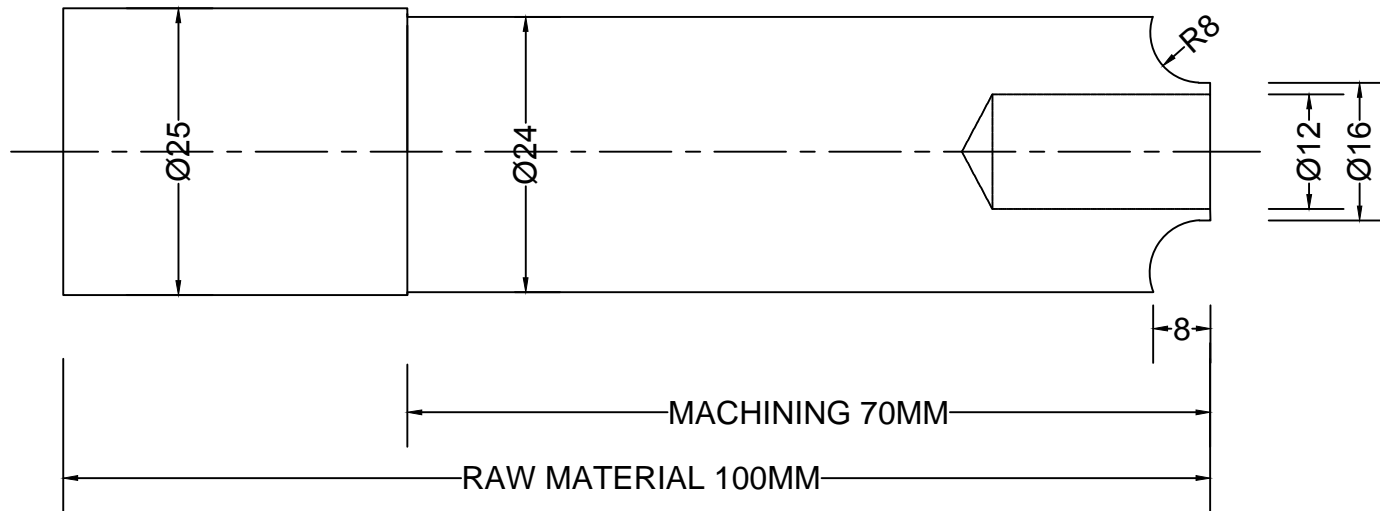
RAW MATERIAL 100MM

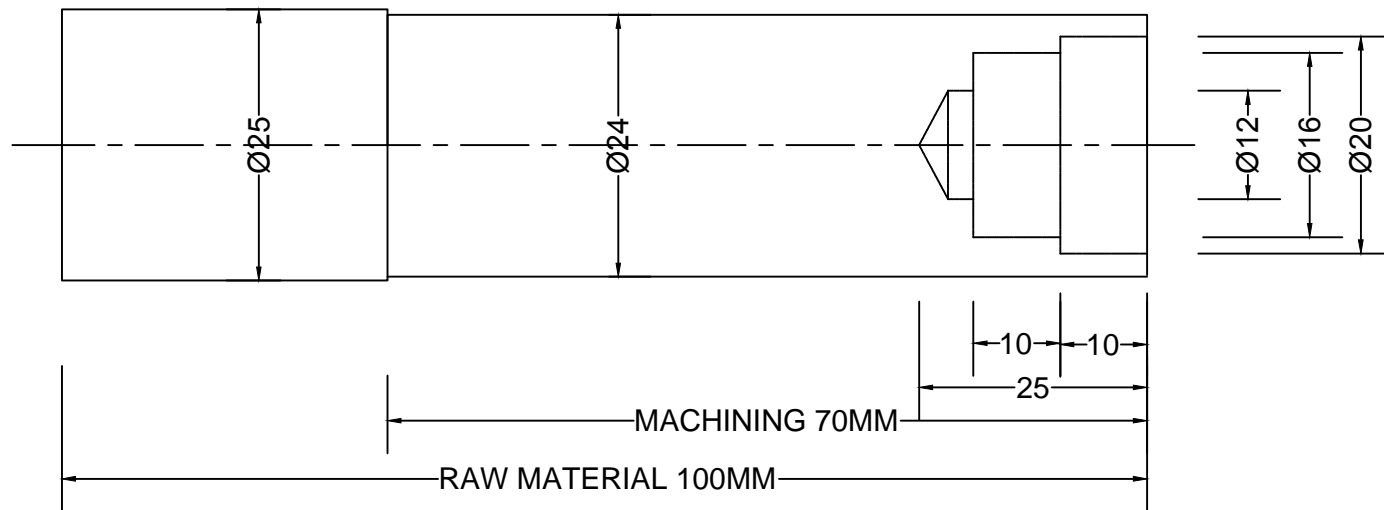For Techno India NJR Institute of Technology

पंकज पोरवाल

Dr. Pankaj Kumar Porwal

(Principal)

TECHNO INDIA NJR
INSTITUTE OF TECHNOLOGY

C.N.C. LAB Mechanical Department	All Dimension are in mm
	Designed By:- Rajendra Lohar
Operation Performed:- clock wise Radius cutting or turning operarions.	
Date :- 01-08-2016	Experiment No.:- 004
Material:- Aluminium	

M22X2MM PITCH

Ø25

Ø18

MACHINING 70MM

RAW MATERIAL 100MM

TECHNO INDIA NJR
INSTITUTE OF TECHNOLOGY

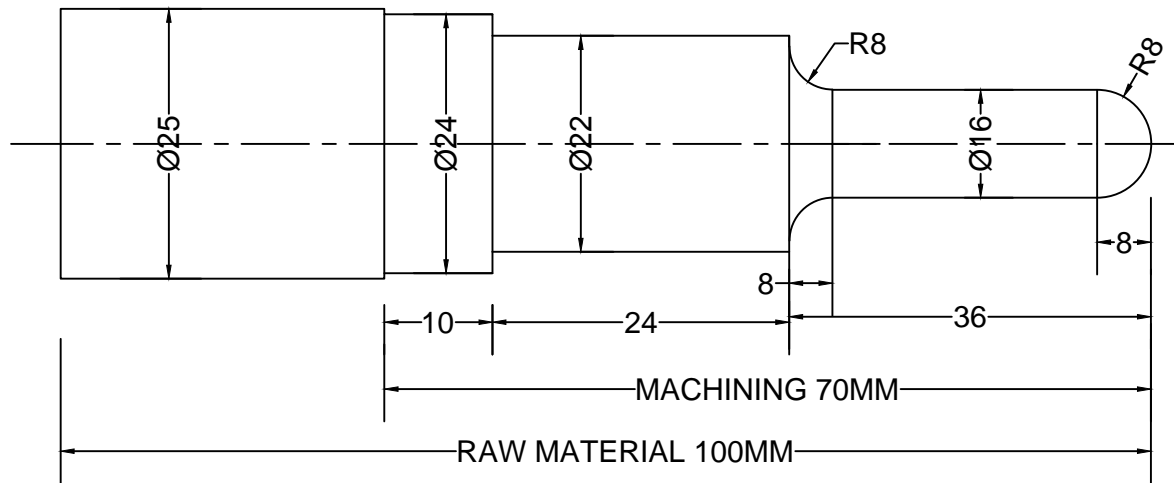| C.N.C. LAB Mechanical Department	All Dimension are in mm
	Designed By:- Rajendra Lohar
Operation Performed:- Metric V Thread cutting with Grooving operation.	
Date :- 01-08-2016	Experiment No.:- 005
Material:- Aluminium	

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R8

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Ø16

8

MACHINING 70MM

RAW MATERIAL 100MM

TECHNO INDIA NJR
INSTITUTE OF TECHNOLOGY

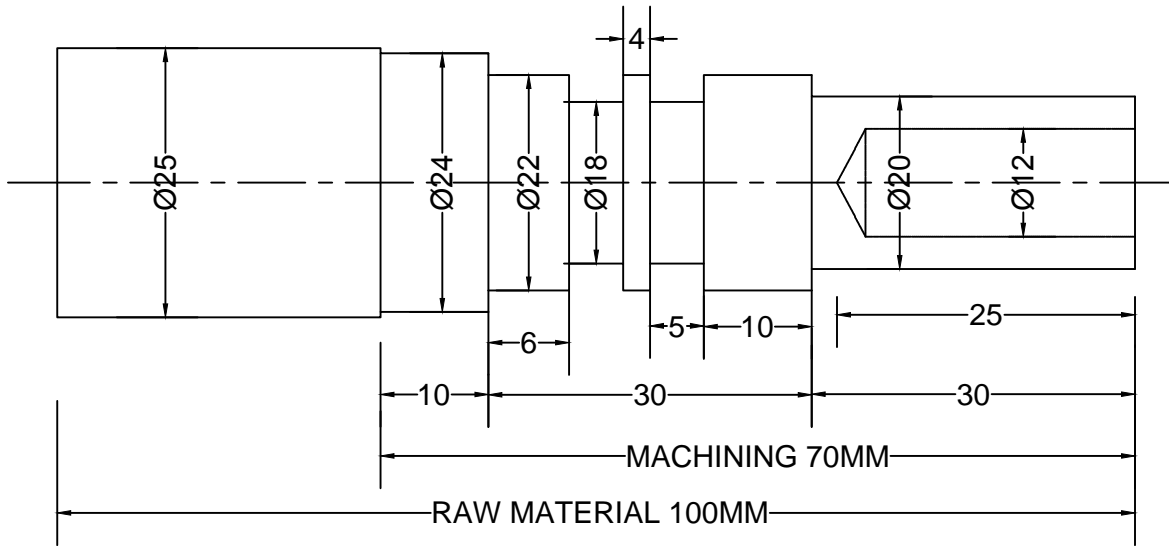| C.N.C. LAB Mechanical Department	All Dimension are in mm
	Designed By:- Rajendra Lohar
Operation Performed:- Drilling or counter clock wise radius turning operations.	
Date :- 01-08-2016	Experiment No.:- 006
Material:- Aluminium	

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Ø12 Ø16 Ø20

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MACHINING 70MM

RAW MATERIAL 100MM

TECHNO INDIA NJR
INSTITUTE OF TECHNOLOGY

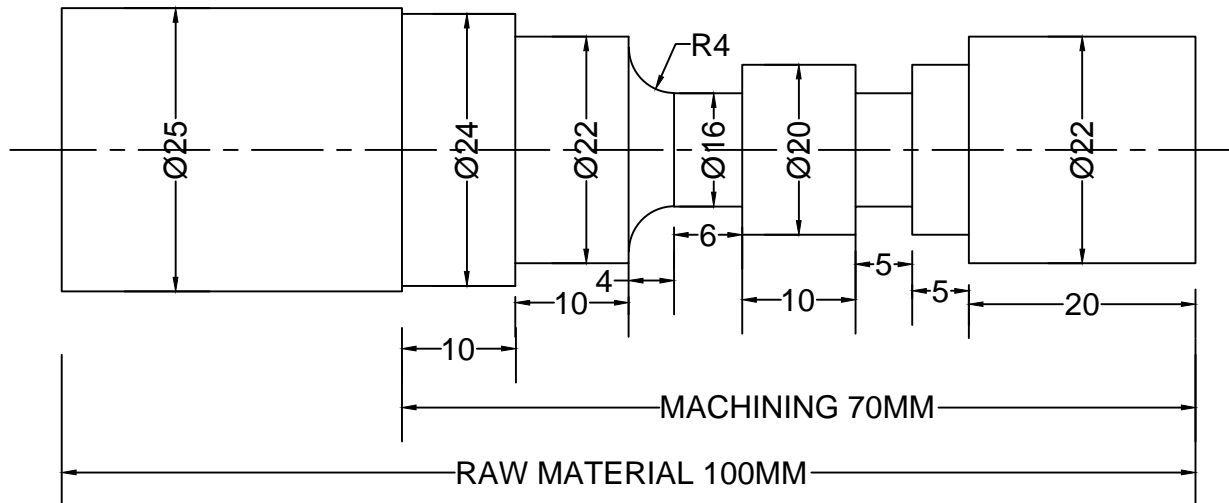| C.N.C. LAB Mechanical Department | All Dimension are in mm |
	Designed By:- Rajendra Lohar
Operation Performed:- Drilling or step Boring with boring tool.	
Date :- 01-08-2016	Experiment No.:- 007
Material:- Aluminium	

Ø25
Ø24
Ø22
R8
R8
Ø16
8
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24
8
36

MACHINING 70MM

RAW MATERIAL 100MM

TECHNO INDIA NJR
INSTITUTE OF TECHNOLOGY

C.N.C. LAB Mechanical Department	All Dimension are in mm
	Designed By:- Rajendra Lohar
Operation Performed:- Radius cutting clock wise or counter clock wise	
Date :- 01-08-2016	Experiment No.:- 008
Material:- Aluminium	

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Ø22
Ø18
Ø20
Ø12

4
6
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10
25
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30
30

MACHINING 70MM

RAW MATERIAL 100MM

For Techno India NJR Institute of Technology

पंकज पोरवाल

Dr. Pankaj Kumar Porwal
(Principal)

Ø25 Ø24 Ø22 Ø16 Ø20 Ø22

R4

10 4 6 10 5 5 20

10

MACHINING 70MM

RAW MATERIAL 100MM

TECHNO INDIA NJR
INSTITUTE OF TECHNOLOGY

C.N.C. LAB Mechanical Department	All Dimension are in mm
	Designed By:- Rajendra Lohar
Operation Performed:- Negative side step or radius turning by grooving tool	
Date :- 01-08-2016	Experiment No.:- 010
Material:- Aluminium	

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Ø22
R4
R4
10
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Ø20
3
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15
5
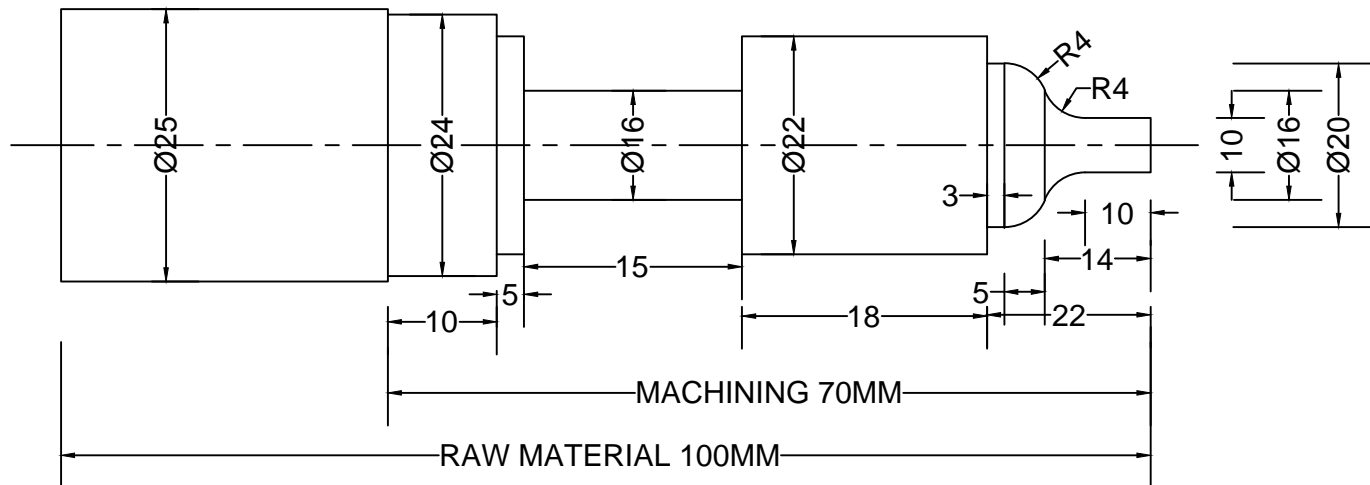14
18
5
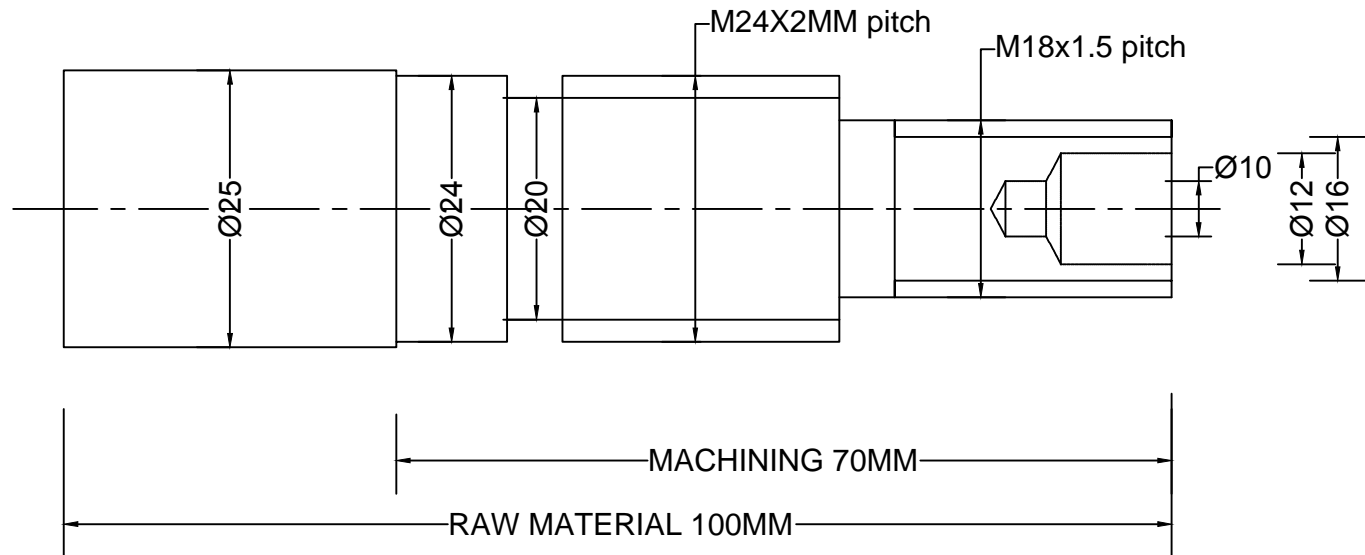22
10

MACHINING 70MM

RAW MATERIAL 100MM

For Techno India NJR Institute of Technology
पंकज पोरवाल
Dr. Pankaj Kumar Porwal
(Principal)

TECHNO INDIA NJR
INSTITUTE OF TECHNOLOGY

C.N.C. LAB Mechanical Department	All Dimension are in mm
	Designed By:- Rajendra Lohar
Operation Performed:- Broad Grooving or double (CW or CCW) Radius.	
Date :- 01-08-2016	Experiment No.:- 011
Material:- Aluminium	

M24X2MM pitch

M18x1.5 pitch

Ø25

Ø24

Ø20

Ø10

Ø12

Ø16

MACHINING 70MM

RAW MATERIAL 100MM

TECHNO INDIA NJR
INSTITUTE OF TECHNOLOGY

C.N.C. LAB Mechanical Department	All Dimension are in mm
	Designed By:- Rajendra Lohar
Operation Performed:- Double step Threading or double Drilling with Groove cutting.	
Date :- 01-08-2016	Experiment No.:- 012
Material:- Aluminium	