

KAMARAJ

COLLEGE OF ENGINEERING & TECHNOLOGY



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

DEPARTMENT OF MECHANICAL ENGINEERING

Content	Details
Academic Year	2024-2025 (EVEN Semester)
Date	20.01.2025 to 25.01.2025 (6 Days)
Name of the Value-added course	CNC Milling & Turning
Duration	48 Hours
No of Credit	3 Credit
Category	Theory (15 Hours) and Lab (33 hours)
Organized by	NTTF, Training Centre, Bangalore
External Coordinator	Mr. G Jayakumar, Manager – Training, NTTF, Bangalore
Three Member Committee Members	1. Dr. S. Thanga Kasi Rajan, ASP& HoD/Mech 2. Er. R.Sakthivel Murugan, AP/Mech 3. Er. N. R. Madhan, AP/Mech
Internal Coordinators	1. Er. N. R. Madhan, AP/Mech 2. Er. R.Sakthivel Murugan, AP/Mech

N.R. Madhan
Coordinators

S. Thanga Kasi Rajan
12/02/25
HoD/Mech

N.R. Madhan
13/1/25
Chief Coordinator Academic core

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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

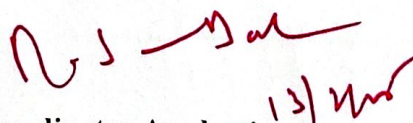
on

CNC Milling & Turning

Academic Year : 2024-2025 (EVEN Semester)
Date / Days : 20.01.2025 to 25.01.2025 (6 Days)
Duration : 48 Hours
Organized by : NTTF, Training Centre, Bangalore


Coordinators


HoD/Mech


Chief Coordinator Academic core



(An Autonomous Institution - Affiliated to Anna University, Chennai)
 S.P.G.Chidambara Nadar - C. Nagammal Campus,
 S.P.G.C. Nagar, K. Vellakulam - 625 701 (Near VIRUDHUNAGAR).

APPROVAL BOOK

Book No.

MECH

Date: 02-01-25

SL. No. 25

Sub: Requisition to approve Value Added Course - Reg.

NAME of the Program : CNC Programming

Year & Branch : II Year Mechanical

No of Students : 26 students

Type : Residential Training

Place : NTTF, Electronic city, Bangalore.

No of Days : 6 Days

Tentative Dates : Jan 20 - Jan 25, 2025 *Training charges only*

Amount : Rs. 2000 / student → Training Charges
 Rs. 1600 / student → Food & Accommodation

Approval of Training charge (Rs 2000/student) may please be sanctioned for VAC course. Remaining amount will be borne by students.

R. Debitiy
 C. R. SAKTHI VEL
 Signature of Staff

MURUGAN,
 AP/MECH

S. Thy. 11/2
 HO
 02/01/25

S. Thy. 11/2
 PRINCIPAL
 6/1/25

OFFICE USE

- 1) Account Head
- 2) Budget allotted
- 3) Amount committed / Spent sofar
- 4) Balance available

Value added Courses.

M.M.
 O.M.

Secretary

n.a.
R. Debitiy

S. Thy. 11/2

EDUTECH NTTF INDIA PVT LTD

23/24, II PHASE

PEENYA INDUSTRIAL AREA

BANGALORE

State Name : Karnataka, Code : 29

CIN: U74140KA2007PTC042217

E-Mail : nttfacts@nttf.co.in

Phone : 9844389168

Receipt No : **BTC/24-25/BR/SBI - 7135/139** Receipt Dt. : **22-1-2025**
Received from : **KAMARAJ COLLEGE OF ENGG & TECH**
In settlement of the following : **KAMARAJ COLLEGE OF ENGG & TECH-Being the Training Charges on Value added course on CNC Milling & Turning**

Description	Amount
OTHER INCOME - TRAINING	46,800.00 Cr


Total : 46,800.00

Rupees : **INR Forty Six Thousand Eight Hundred Only**
By Cash / Cheque / DD No : **25022492232 / 22-Jan-25 , , ,**
Drawn On : **Tamilnad Mercantile Bank (India) / Bangalore , , ,**

For EDUTECH NTTF INDIA PVT LTD

M/s. EDUTECH NTTF INDIA PVT. LTD.
#23/24, 2nd Phase, Peenya Industrial Area,
BANGALORE - 560 058
GORALA@NTTF.CO.IN
Authorised Signatory

Handwritten signature and date: 22-1-2025

 Outlook

Circular: Value-Added Course on CNC Milling & Turning

From Sakthivel Murugan.R <sakthivelmuruganmech@kamarajengg.edu.in>

Date Thu 1/9/2025 6:13 PM

To 23UME <23ume@kamarajengg.edu.in>

Cc Madhan.N.R <madhanmech@kamarajengg.edu.in>; HODMECH <hodmech@kamarajengg.edu.in>

Dear Students,

Dear Students,

I am pleased to inform you that the value-added course for your batch has been finalized. Below are the details:

Value-Added Course Title: CNC Milling & Turning

Duration: Six Days (Residential)

Dates: January 20–25, 2025

Location: NTTF Bangalore

Important Note: Accommodation and food expenses will be borne by the students.

All second-year Mechanical students are required to participate in this value-added program without fail. Your attendance and active participation in this program are mandatory.

Thank you for your cooperation, and we look forward to your enthusiastic participation.

With Regards,

Mr R Sakthivel Murugan,
Assistant Professor,
Department of Mechanical Engineering ,
Kamaraj College of Engineering and Technology (Autonomous),
S.P.G.C Nagar, K.Vellakulam- 625 701, Madurai District.
Mobile : +91 9600634468
www.kamarajengg.edu.in

n.e.h.
R. Sakthivel

S. Sakthivel

NETTUR TECHNICAL TRAINING FOUNDATION

INTERNSHIP PROGRAM – CNC PROGRAMMING

General Objectives

- 1.0. Introduction to CNC
- 2.0. Introduction to CNC Machine Hardware and its functions
- 3.0. Introduction to G-Code and M-Code
- 4.0. Introduction to Basic Operations of CNC Machine
- 5.0. Introduction to CNC Turning Operations
- 6.0. Introduction to CNC Milling Operations
- 7.0. Introduction to CNC Part Programming - Manual and Simulation
- 8.0. Assignments

Topics

Sr. No.	Topic	Hours
1.1	Introduction to CNC	10
2.1	CNC Machine Design	20
3.1	Cutting Tool and Cutting Tool Parameters	25
4.1	CNC Operation	25
5.1	CNC Turning	25
6.1	CNC Milling	25
7.1	Part Programming - CNC Turning and Milling	25
8.1	Exercises/Assignment	25
	Total	200



LIST OF SUBJECTS

CNC PROGRAMMING

Hours per Semester	48 h
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General Objectives:

- 1.0 Awareness on CNC
- 2.0 Familiarise CNC Machine Hardware and its functions
- 3.0 Familiarise with Cutting Tools used in CNC
- 4.0 Awareness on Basic Operations of CNC Machine
- 5.0 Familiarise CNC Turning Operations
- 6.0 Familiarise CNC Milling Operations
- 7.0 Familiarise CNC Part Programming - Manual and Simulation
- 8.0 Assessment

Topics:

Sl. No.	Major Topic	Allotted Hour
1.0	Introduction to CNC	2 h
2.0	CNC Hardware basics	2 h
3.0	Cutting Tool and Cutting Tool Parameters	2 h
4.0	CNC Operation	2 h
5.0	CNC Turning	2 h
6.0	CNC Milling	2 h
7.0	Part Programming - CNC Turning and CNC Milling	20 h
8.0	Exercise/Assessment	16 h
	Total	48 h

Detailed Syllabus:

1.0 Introduction to CNC

- 1.1 Introduction, Application and Advantages of CNC
- 1.2 Classification of CNC Machine - Feedback System, Motion Control System

2.0 CNC Hardware basics

- 2.1 Spindle Drives (Servo motors, Stepper Motors)
- 2.2 Automatic Tool Changer
- 2.3 Automatic Pallet Changer
- 2.4 Automatic Swarf Removal Mechanism
- 2.5 Work Holding and Tool Holding Devices

3.0 Cutting Tool and Cutting Tool Parameters

- 3.1 Cutting Tool Parameters - Tool Diameter, Surface Speed, Spindle Speed, Feed Rate and Depth of Cut
- 3.2 Tool Selection Criteria for PMKNSH Materials - referring catalogues

4.0 CNC Operation

- 4.1 CNC Safety
- 4.2 Power ON / OFF
- 4.3 Emergency Stop - Reset
- 4.4 CNC Set up and Operation
- 4.5 Offset and Settings
 - 4.5.1 Machine Offset
 - 4.5.2 Tool Length Offset
 - 4.5.3 Fixture Offset
- 4.6 Loading of Tools
- 4.7 Loading of CNC Program
- 4.8 Running of CNC Program

5.0 CNC Turning

- 5.1 Tools used in CNC Lathe
- 5.2 CNC Turning Operations

6.0 CNC Milling

- 6.1 Tools used in CNC Milling
- 6.2 CNC Milling Operations

7.0 Part Programming - CNC Turning and CNC Milling

- 7.1 Preparatory Codes
- 7.2 Miscellaneous Codes or Machine Codes

8.0 Exercise/Assessment

Course Outcome

1. Explain the basic principles and significance of CNC technology in modern manufacturing.
2. Recognize the key hardware components of CNC machines and describe their roles in machining operations.
3. Demonstrate knowledge of different cutting tools used in CNC machining and their applications in turning and milling processes.
4. Execute fundamental CNC machine operations, including setup, tool selection, and workpiece handling, for both turning and milling.
5. Create CNC part programs manually and verify their accuracy through simulation before execution.

N.R.J.
R. Debraj

S. Srinivasan

Department of Mechanical Engineering

Title of the Program: CNC Milling & Turning

Date: 20.01.2025 to 25.01.2025 (6 Days)

Participants: II year (2023 – 2027 Batch)

Academic Year: 2024 – 2025 EVEN

Conducted by: NTTF, Peeneya, Bangalore.

Venue: NTTF, Training Centre, Bangalore

Approval of Board of Study Meeting

Board of Study Meeting: IX

Mode: hybrid mode

Date & Timing: 07.12.2024 & 11.00 AM to 01.30 PM

Page No: 14 of 15

009.04.03 : Value Added Courses offered if any

Specify the Value added courses conducted in the department.

Dr.S.Thangakasirajan HOD/Mech informed to BoS members that the following value added courses are offered for Mechanical Engineering students and the ratification needed

14

to include the credits earned by students from value added courses as over and above credits.

Sl.No.	Name of the Course	Year	Offered by	Date	No of Students
1	CATIA	III/Mech	INVENTATEC, Chennai	31.07.2023 to 05.08.2023	42
2	CAD using UG - NX	II/Mech	CIPET, Madurai	13.02.2024 to 19.02.2024	31

Proposed List of Value Added Course for upcoming Semester: CAD Tool, CAE Tool,
CNC Coding, GD&T, HVAC, and Piping Engineering.

All the BoS members ratified and approved the same.

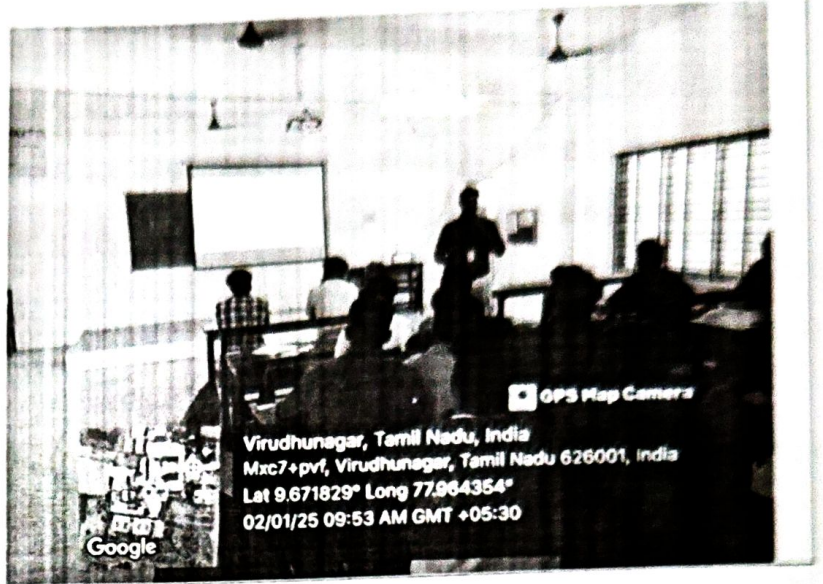
N. e. h.
R. Chelvanathan
CoordinatorsS. Thangakasirajan
HOD/Mech

DEPARTMENT OF MECHANICAL ENGINEERING

Three-member committee meeting for value added course selection

Agenda	Value Added Course Selection Meeting	
Date	:	02.01.2025
Time	:	09.10 AM
Venue	:	E14 Hall, Academic Block Four, Third Floor
Members Present	:	<p>Three Member Committee Members</p> <ol style="list-style-type: none"> 1. Dr. S. Thanga Kasi Rajan, ASP & HoD/Mech 2. Er.R.Sakthivel Murugan, AP/Mech 3. Er. N.R. Madhan, AP/Mech <p>Chairperson</p> <ol style="list-style-type: none"> 1. Er.R.Sakthivel Murugan, AP/Mech <p>Co-ordinators</p> <ol style="list-style-type: none"> 1. Er. N.R. Madhan, AP/Mech 1. Er.R.Sakthivel Murugan, AP/Mech <p>Class representative (2023 – 2027 Batch)</p> <ol style="list-style-type: none"> 1. Mr. Karthickeyan. M (23UME006), II Year/ Student 2. Mr. Sahi. D. V. (23UME014), II Year/ Student 3. Mr. Varuneshbalaa. M (23UME024), II Year/ Student 4. Mr. Shivakumaar. M (23UME029), II Year/ Student
Minutes of the Meeting	:	<p>It is optional to complete a Value-Added Course for Regulation 2021. In this regard a three-member committee has been formed and a meeting is organized to select the course for registration.</p> <ul style="list-style-type: none"> • Meeting started by 09.10 AM. Dr. S. Thanga Kasi Rajan, Associate Professor & Head of the Department, welcome the gathering. He has advised to maintain SOP for value added course. • Er. N. R. Madhan, Assistant Professor & Value-added course incharge has proposed course offered by <ul style="list-style-type: none"> o NTTF, Peeneya, Bangalore offering CNC. • Based on the suggestion and feedback given by the 2021-2025 & 2022-2026 Batch students, 3 committee members for Value added course and student representative, "CNC" course is agreed to take in this IV semester for 2023-2027 Batch students. Courses were selected by the students based on their interested. <p>Justification for the Courses selection:</p> <p>The justification for the course selection were as follows</p> <ol style="list-style-type: none"> i. These courses will be useful for their project work ii. It is a 48-hour courses (3 Credits) iii. These courses are useful to meet the Industrial Needs iv. These courses are in emerging areas.

Proof



S. Thangakasi Rajan
R. Sakthivel Murugan
Three Member Committee Members
Dr. S. Thanga Kasi Rajan, ASP & HoD/Mech
Er. R. Sakthivel Murugan, AP/Mech
Er. N. R. Madhan, AP/Mech

R. Sakthivel Murugan
Chairperson
Er. R. Sakthivel Murugan, AP/Mech

S. Thangakasi Rajan
HoD/Mech

N. R. Madhan
Dean Academics

Department of Mechanical Engineering

Title of the Program: CNC Milling & Turning

Date: 20.01.2025 to 25.01.2025 (6 Days)

Participants: II year (2023 – 2027 Batch)

Academic Year: 2024 – 2025 EVEN

Conducted by: NTF, Peeneya, Bangalore.

Venue: NTF, Training Centre, Bangalore

Photo Proof



Day 1 - Inauguration Ceremony
Address by Principal, NTF



Day 2 - Theory Session



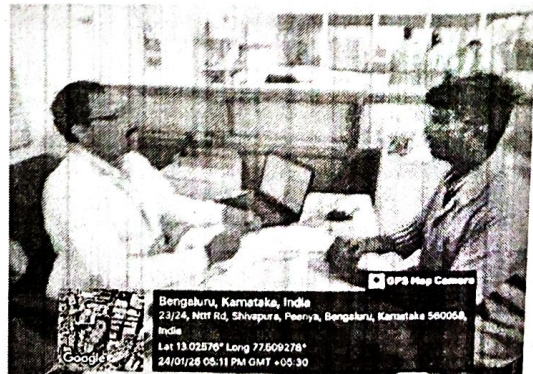
Day 3 - Lab Demo Session



Day 4 - Interaction Alumni
Er. M.Karthikeyan, 2022/MECH



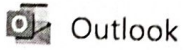
Day 5 - Practical Session



Day 6 - External Assessment during Viva Voce

[Signature]
Coordinators

[Signature]
12/02/25
HoD/Mech



Intimation about Value Added Course - Assessments

From Sakthivel Murugan.R <sakthivelmuruganmech@kamarajengg.edu.in>

Date Thu 1/23/2025 7:36 PM

To 23UME <23ume@kamarajengg.edu.in>

Cc santhoshcv@nttf.co.in <santhoshcv@nttf.co.in>; Madhan.N.R <madhanmech@kamarajengg.edu.in>; HODMECH <hodmech@kamarajengg.edu.in>

Dear Students,

As a part of the Value Added Course, there will be two assesments. The details of the assessments are as follows.

Assessment Date : 24-05-2025 (Friday)
Time : External (1.30 P.M to 06.00 P.M)
 Internal (06.30 P.M)
Venue : NTTF, Peenya Campus, Bangalore.

S.No	Assessment Type	Assessment Rubrics		Total Marks
1	External (NTTF)	Viva – 10 Marks	Dimensioning - 20 Marks	100
		Work Schedule – 10 Marks	CNC Programming - 40 Marks	
			Finishing - 10 Marks	
			Quality Check - 10 Marks	
		Theory – 20 Marks	Practical – 80 Marks	
2	Internal (KCET)	MCQ Questions		100

Final Assessment Mark = 60 % External + 40% Internal Assessments

With Regards,

Mr R Sakthivel Murugan,
 Assistant Professor,
 Department of Mechanical Engineering ,
 Kamaraj College of Engineering and Technology (Autonomous),
 S.P.G.C Nagar, K.Vellakulam- 625 701, Madurai District.
 Mobile : +91 9600634468
www.kamarajengg.edu.in

N.R.
R. Sakthivel

S. Sakthivel

Internal Assessment | | CNC Milling and Turning | II Year | Value Added Course

Title of the Program : Value added course for "CNC Milling and Turning"

Participants : II - year students

Date : 20.01.2025 to 25.01.2025

Conducted by : NTTF, Peeneya ,Bangalore.

Coordinators:

Er. Madhan N R, AP/Mech.

Er. R. Sakthivel Murugan, AP/Mech

Internal Assessment

Date: 24.01.2025 Time: 06:00 PM

MCQ Question

Each Question and answer carry 2 marks

Answer all the question.

* Required

* This form will record your name, please fill your name.

Which type of CNC programming allows for automatic adjustment of tool paths based on workpiece geometry? * (2 Points)

- Incremental programming
- Manual programming
- Conversational programming
- CAM

What is M-code used for in CNC programming? * (2 Points)

- To define machine functions
- To measure tool offsets
- To control axis movements
- To manage tool cooling

Which of the following is NOT a part of a CNC machine? * (2 Points)

- Spindle
- Toolpost
- Electric drill
- Controller

What is the coolant used for in CNC machining? * (2 Points)

- To increase tool speed
- To power the spindle
- To clean the machine
- B) To cool and lubricate during cutting

Which type of material is most commonly used for CNC cutting tools? * (2 Points)

- High-speed steel
- Copper
- Aluminum
- Plastic

In CNC milling, a "pocket" operation involves: * (2 Points)

- Surface finishing
- Creating a recessed area within the material
- Cutting a hole through the material
- Milling the edges of the material

What is the purpose of a tool turret in CNC turning? * (2 Points)

- To store and rotate multiple cutting tools
- To hold the workpiece
- To measure workpiece dimensions
- D) To control spindle speed

In CNC turning, which operation is typically used to remove material from the external diameter of the workpiece? * (2 Points)

- Turning
- Grooving
- Boring
- Facing

Which of the following describes the X-axis in CNC turning? * (2 Points)

- Rotational movement of the spindle
- Movement of the tool along the spindle axis
- Rotational movement of the tool
- Movement of the tool perpendicular to the spindle axis

Which axis is typically used for depth control in CNC milling? * (2 Points)

- Y-axis
- W-axis
- X-axis
- Z-axis
- Both tool and workpiece

What does the term "climb milling" refer to? * (2 Points)

- Milling in the direction of the cutter's rotation
- Milling against the direction of the cutter's rotation
- Milling with an angled cutter
- A vertical milling process

In CNC turning, the primary motion is performed by: * (2 Points)

- The workpiece
- The tool
- Neither tool nor workpiece
- Both tool and workpiece

What is the purpose of a tool setter in CNC machining? * (2 Points)

- To adjust spindle speed
- To measure tool dimensions and offsets
- To clamp the workpiece
- To lubricate the tool

What does CNC stand for? * (2 Points)

- Central Numerical Control
- Computerized Numerical Control
- Controlled Numerical Command
- Calculated Numerical Control

Which CNC operation is used to create a flat surface perpendicular to the axis of rotation? * (2 Points)

- Threading
- Drilling
- Facing
- Turning

What does G-code in CNC programming represent? * (2 Points)

- Graphics code
- Geometry code for toolpath
- General-purpose code
- Machine maintenance code

What is backlash in a CNC machine? * (2 Points)

- Incorrect tool movement due to loose components
- The delay in coolant flow
- Excess material left after machining
- Variation in spindle speed

What is the standard method for measuring tool offsets in CNC machines? * (2 Points)

- Using a tool setter or probe
- Using calipers
- Visual estimation
- Manual calculation

In CNC milling, the primary motion is performed by: * (2 Points)

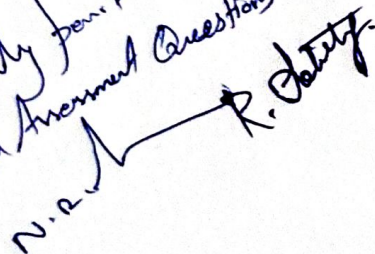
- The workpiece
- Both tool and workpiece
- The tool
- Neither tool nor workpiece

What is the main function of the spindle in a CNC milling machine? * (2 Points)

- To rotate the tool
- To move the tool horizontally
- To control coolant flow
- To clamp the workpiece

This content is neither created nor endorsed by Microsoft. The data you submit will be sent to the form owner.

 Microsoft Forms

Kindly find the
Internal Assessment Questions
N.A. 

Approved
S. J. H. 12 

Responses Overview Active

Responses

26

Average Score

36.9

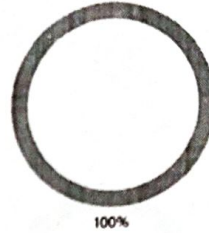
Average Time

15:44

1. What does CNC stand for? (2 points)

100% of respondents answered this question correctly

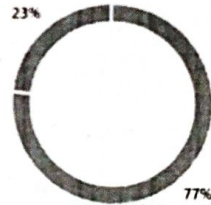
- Computerized Numerical Control 26 ✓
- Central Numerical Control 0
- Controlled Numerical Command 0
- Calculated Numerical Control 0



2. In CNC milling, the primary motion is performed by (2 points)

77% of respondents answered this question correctly

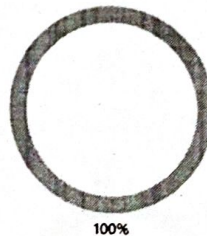
- The tool 20 ✓
- The workpiece 6
- Both tool and workpiece 0
- Neither tool nor workpiece 0



3. Which axis is typically used for depth control in CNC milling? (2 points)

100% of respondents answered this question correctly

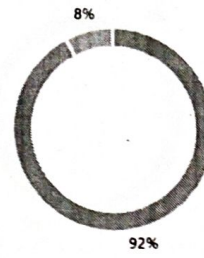
- X-axis 0
- Y-axis 0
- Z-axis 26 ✓
- W-axis 0
- Both tool and workpiece 0



4. What is the main function of the spindle in a CNC milling machine? (2 points)

92% of respondents answered this question correctly.

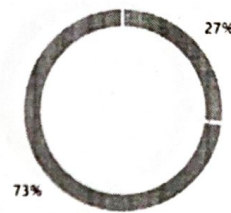
- To move the tool horizontally 0
- To rotate the tool 24 ✓
- To clamp the workpiece 2
- To control coolant flow 0



5. In CNC turning, the primary motion is performed by: (2 points)

73% of respondents answered this question correctly.

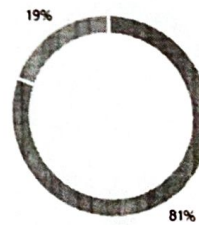
- The tool 7
- The workpiece 19 ✓
- Both tool and workpiece 0
- Neither tool nor workpiece 0



6. What does G-code in CNC programming represent? (2 points)

81% of respondents answered this question correctly.

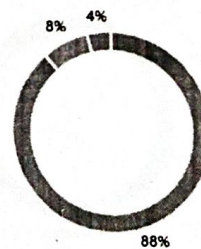
- Machine maintenance code 0
- Geometry code for toolpath 21 ✓
- General-purpose code 5
- Graphics code 0



7. What is M-code used for in CNC programming? (2 points)

88% of respondents answered this question correctly.

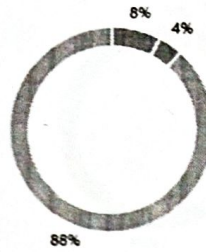
- To define machine functions 23 ✓
- To control axis movements 0
- To measure tool offsets 2
- To manage tool cooling 1



8. In CNC turning, which operation is typically used to remove material from the external diameter of the workpiece? (2 points)

88% of respondents answered this question correctly.

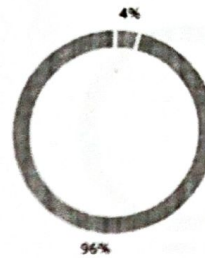
- Facing 2
- Boring 1
- Turning 23 ✓
- Grooving 0



9. Which of the following is NOT a part of a CNC machine? (2 points)

96% of respondents answered this question correctly.

- Controller 0
- Spindle 0
- Toolpost 1
- Electric drill 25 ✓



10. What is the purpose of a tool setter in CNC machining? (2 points)

100% of respondents answered this question correctly.

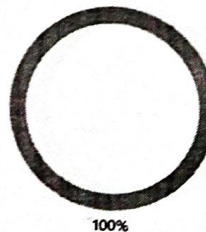
- To clamp the workpiece 0
- To measure tool dimensions and offsets 26 ✓
- To lubricate the tool 0
- To adjust spindle speed 0



11. Which type of material is most commonly used for CNC cutting tools? (2 points)

100% of respondents answered this question correctly.

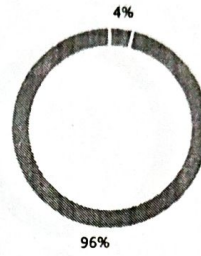
- Plastic 0
- High-speed steel 26 ✓
- Aluminum 0
- Copper 0



12. What is the coolant used for in CNC machining? (2 points)

96% of respondents answered this question correctly.

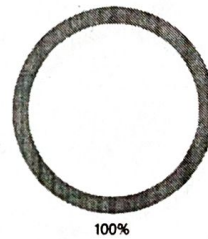
- To increase tool speed 1
- B) To cool and lubricate during cutting 25 ✓
- To clean the machine 0
- To power the spindle 0



13. What does the term "climb milling" refer to? (2 points)

100% of respondents answered this question correctly.

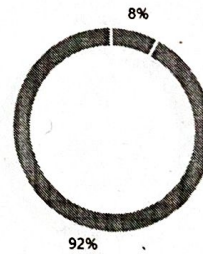
- Milling in the direction of the cutter's rotation 26 ✓
- Milling against the direction of the cutter's rotation 0
- A vertical milling process 0
- Milling with an angled cutter 0



14. Which of the following describes the X-axis in CNC turning? (2 points)

92% of respondents answered this question correctly.

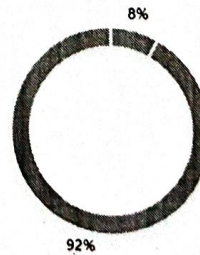
- Movement of the tool along the spindle axis 2
- Movement of the tool perpendicular to the spindle axis 24 ✓
- Rotational movement of the tool 0
- Rotational movement of the spindle 0



15. What is the standard method for measuring tool offsets in CNC machines? (2 points)

92% of respondents answered this question correctly.

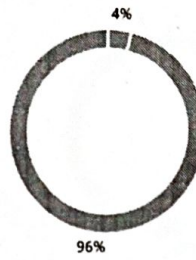
- Using calipers 2
- Using a tool setter or probe 24 ✓
- Visual estimation 0
- Manual calculation 0



16. Which CNC operation is used to create a flat surface perpendicular to the axis of rotation? (2 points)

96% of respondents answered this question correctly.

- Turning 1
- Facing 25 ✓
- Threading 0
- Drilling 0



17. What is backlash in a CNC machine? (2 points)

88% of respondents answered this question correctly.

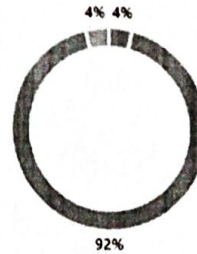
- Excess material left after machining 3
- Incorrect tool movement due to loose components 23 ✓
- The delay in coolant flow 0
- Variation in spindle speed 0



18. In CNC milling, a "pocket" operation involves: (2 points)

92% of respondents answered this question correctly.

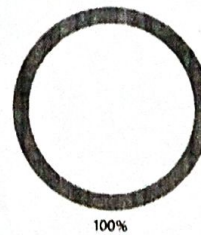
- Cutting a hole through the material 1
- Creating a recessed area within the material 24 ✓
- Milling the edges of the material 1
- Surface finishing 0



19. Which type of CNC programming allows for automatic adjustment of tool paths based on workpiece geometry? (2 points)

100% of respondents answered this question correctly.

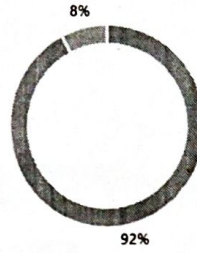
- Conversational programming 0
- CAM 26 ✓
- Manual programming 0
- Incremental programming 0



20. What is the purpose of a tool turret in CNC turning? (2 points)

92% of respondents answered this question correctly.

- A) To hold the workpiece 0
- B) To store and rotate multiple cutting tools 24 ✓
- C) To measure workpiece dimensions 2
- D) To control spindle speed 0



N.R. R. Clarity

25/1/2025

Department of Mechanical Engineering

Title of the Program: CNC Milling & Turning

Date: 20.01.2025 to 25.01.2025 (6 Days)

Participants: II year (2023 – 2027 Batch)

Academic Year: 2024 – 2025 EVEN

Conducted by: NTF, Peeneya ,Bangalore.

Venue: NTF, Training Centre, Bangalore

Internal Assessment

S.No	Roll No	Register No	Name	MCQ Marks (out of 40)
1	23UME001	920423114008	HARISH BALA. R	38
2	23UME002	920423114006	DHARINEESH. S	36
3	23UME003	920423114012	MUKILARASAN. M	32
4	23UME004	920423114013	MUTHURAJA. M	38
5	23UME005	920423114004	BALAGANESH. S	34
6	23UME006	920423114009	KARTHICKEYAN. M	38
7	23UME007	920423114018	SUBRAMANI PANDI.K	38
8	23UME008	920423114001	ARAVIND KUMAR. M	38
9	23UME010	920423114021	VASANTHKUMAR. N	40
10	23UME011	920423114003	ASHWIN. K	36
11	23UME012	920423114023	YOKAHARIHARAN. S	40
12	23UME013	920423114011	MAYILKANI. B	40
13	23UME014	920423114015	SAHI. D. V	38
14	23UME015	920423114022	VISHAL. M	32
15	23UME018	920423114019	THANGAPANDIRAJA. M	40
16	23UME019	920423114014	PON GANESH RAM. M	36
17	23UME020	920423114005	BALAKRISHNAN. P	34
18	23UME021	920423114007	GIRIDHARAN. N	38
19	23UME023	920423114010	MAHALINGAM. N	36
20	23UME024	920423114020	VARUNESHBALAA. M	40
21	23UME025	920423114002	ARUN PRAKASH. S	40
22	23UME026	920423114016	SHARUKESH. J	34
23	23UME027	920423114303	SIVAKUMAR. V	38
24	23UME028	920423114304	THARUN RAJ. P. S	40
25	23UME029	920423114302	SHIVAKUMAAR. M	30
26	23UME030	920423114301	ESAKKI SUDHAN.E	36

N.R.
 R. Debita
 Coordinators

S. Thy. Gyl
 HoD/Mech

Review: Internal Assessment || CNC Milling and Turning | II Year | Value Added Course

Respondent

6 ARUN PRAKASH S

06:51

Time to complete

40/40

Points

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What does CNC stand for? *

- Computerized Numerical Control ✓
- Central Numerical Control
- Controlled Numerical Command
- Calculated Numerical Control

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

In CNC milling, the primary motion is performed by: *

- The tool ✓
- The workpiece
- Both tool and workpiece
- Neither tool nor workpiece

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which axis is typically used for depth control in CNC milling? *

- X-axis
- Y-axis
- Z-axis ✓
- W-axis
- Both tool and workpiece

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What is the main function of the spindle in a CNC milling machine? *

- To move the tool horizontally
- To rotate the tool ✓
- To clamp the workpiece
- To control coolant flow

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

In CNC turning, the primary motion is performed by: *

- The tool
- The workpiece ✓
- Both tool and workpiece
- Neither tool nor workpiece

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What does G-code in CNC programming represent? *

- Machine maintenance code
- Geometry code for toolpath ✓
- General-purpose code
- Graphics code

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What is M-code used for in CNC programming? *

- To define machine functions ✓
- To control axis movements
- To measure tool offsets
- To manage tool cooling

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

In CNC turning, which operation is typically used to remove material from the external diameter of the workpiece? *

- Facing
- Boring
- Turning ✓
- Grooving

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which of the following is NOT a part of a CNC machine? *

- Controller
- Spindle
- Toolpost
- Electric drill ✓

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What is the purpose of a tool setter in CNC machining? *

- To clamp the workpiece
- To measure tool dimensions and offsets ✓
- To lubricate the tool
- To adjust spindle speed

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which type of material is most commonly used for CNC cutting tools?

- Plastic
- High-speed steel ✓
- Aluminum
- Copper

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What is the coolant used for in CNC machining?

- To increase tool speed
- B) To cool and lubricate during cutting ✓
- To clean the machine
- To power the spindle

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What does the term "climb milling" refer to?

- A) Milling in the direction of the cutter's rotation ✓
- Milling against the direction of the cutter's rotation
- A vertical milling process
- Milling with an angled cutter

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which of the following describes the X-axis in CNC turning?

- Movement of the tool along the spindle axis
- B) Movement of the tool perpendicular to the spindle axis ✓
- Rotational movement of the tool
- Rotational movement of the spindle

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What is the standard method for measuring tool offsets in CNC machines?

- Using calipers
- B) Using a tool setter or probe ✓
- Visual estimation
- Manual calculation

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which CNC operation is used to create a flat surface perpendicular to the axis of rotation?

- Turning
- B) Facing ✓
- Threading
- Drilling

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What is backlash in a CNC machine? *

- Excess material left after machining
- Incorrect tool movement due to loose components ✓
- The delay in coolant flow
- Variation in spindle speed

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

In CNC milling, a "pocket" operation involves: *

- Cutting a hole through the material
- Creating a recessed area within the material ✓
- Milling the edges of the material
- Surface finishing

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which type of CNC programming allows for automatic adjustment of tool paths based on workpiece geometry? *

- Conversational programming
- CAM ✓
- Manual programming
- Incremental programming

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What is the purpose of a tool turret in CNC turning? *

- To hold the workpiece
- To store and rotate multiple cutting tools ✓
- To measure workpiece dimensions
- To control spindle speed

N.R. ✓
R. Debata ✓

S. S. 7. 10. 2025

Review: Internal Assessment || CNC Milling and Turning | II Year | Value Added Course

Respondent

4 BALAGANESH.S

05:08

Time to complete

34/40

Points

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What does CNC stand for? *

- Computenized Numerical Control ✓
- Central Numerical Control
- Controlled Numerical Command
- Calculated Numerical Control

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

In CNC milling, the primary motion is performed by: *

- The tool ✓
- The workpiece
- Both tool and workpiece
- Neither tool nor workpiece

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which axis is typically used for depth control in CNC milling? *

- X-axis
- Y-axis
- Z-axis ✓
- W-axis
- Both tool and workpiece

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What is the main function of the spindle in a CNC milling machine? *

- To move the tool horizontally
- To rotate the tool ✓
- To clamp the workpiece
- To control coolant flow

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

In CNC turning, the primary motion is performed by:

- The tool
- The workpiece ✓
- Both tool and workpiece
- Neither tool nor workpiece

✗ Incorrect 0/2 Points

0 / 2 pts
Auto-graded

What does G-code in CNC programming represent?

- Machine maintenance code
- Geometry code for toolpath ✓
- General-purpose code
- Graphics code

✗ Incorrect 0/2 Points

0 / 2 pts
Auto-graded

What is M-code used for in CNC programming?

- To define machine functions ✓
- To control axis movements
- To measure tool offsets
- To manage tool cooling

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

In CNC turning, which operation is typically used to remove material from the external diameter of the workpiece?

- Facing
- Boring
- Turning ✓
- Grooving

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which of the following is NOT a part of a CNC machine?

- Controller
- Spindle
- Toolpost
- Electric drill ✓

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What is the purpose of a tool setter in CNC machining?

- To clamp the workpiece
- To measure tool dimensions and offsets ✓
- To lubricate the tool
- To adjust spindle speed

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which type of material is most commonly used for CNC cutting tools? *

- Plastic
- High-speed steel ✓
- Aluminum
- Copper

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What is the coolant used for in CNC machining? *

- A) To increase tool speed
- B) To cool and lubricate during cutting ✓
- C) To clean the machine
- D) To power the spindle

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What does the term "climb milling" refer to? *

- A) Milling in the direction of the cutter's rotation ✓
- B) Milling against the direction of the cutter's rotation
- C) A vertical milling process
- D) Milling with an angled cutter

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which of the following describes the X-axis in CNC turning? *

- A) Movement of the tool along the spindle axis
- B) Movement of the tool perpendicular to the spindle axis ✓
- C) Rotational movement of the tool
- D) Rotational movement of the spindle

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What is the standard method for measuring tool offsets in CNC machines? *

- A) Using calipers
- B) Using a tool setter or probe ✓
- C) Visual estimation
- D) Manual calculation

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which CNC operation is used to create a flat surface perpendicular to the axis of rotation? *

- A) Turning
- B) Facing ✓
- C) Threading
- D) Drilling

✗ Incorrect 0/2 Points

0 / 2 pts
Auto-graded

What is backlash in a CNC machine? *

- Excess material left after machining
- Incorrect tool movement due to loose components ✓
- The delay in coolant flow
- Variation in spindle speed

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

In CNC milling, a "pocket" operation involves: *

- Cutting a hole through the material
- Creating a recessed area within the material ✓
- Milling the edges of the material
- Surface finishing

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which type of CNC programming allows for automatic adjustment of tool paths based on workpiece geometry? *

- Conversational programming
- CAM ✓
- Manual programming
- Incremental programming

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What is the purpose of a tool turret in CNC turning? *

- To hold the workpiece
- To store and rotate multiple cutting tools ✓
- To measure workpiece dimensions
- D) To control spindle speed

N.E.M.
R. DeLuca

S. Th... O...

Review: Internal Assessment | | CNC Milling and Turning | II Year | Value Added Course

Respondent

1 SHIVAKUMAAR M

10:08

30/40

Time to complete

Points

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What does CNC stand for? *

- Computerized Numerical Control ✓
- Central Numerical Control
- Controlled Numerical Command
- Calculated Numerical Control

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

In CNC milling, the primary motion is performed by: *

- The tool ✓
- The workpiece
- Both tool and workpiece
- Neither tool nor workpiece

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which axis is typically used for depth control in CNC milling? *

- X-axis
- Y-axis
- Z-axis ✓
- W-axis
- Both tool and workpiece

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What is the main function of the spindle in a CNC milling machine? *

- To move the tool horizontally
- To rotate the tool ✓
- To clamp the workpiece
- To control coolant flow

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

In CNC turning, the primary motion is performed by:

- The tool
- The workpiece ✓
- Both tool and workpiece
- Neither tool nor workpiece

✗ Incorrect 0/2 Points

0 / 2 pts
Auto-graded

What does G-code in CNC programming represent?

- Machine maintenance code
- Geometry code for toolpath ✓
- General-purpose code
- Graphics code

✗ Incorrect 0/2 Points

0 / 2 pts
Auto-graded

What is M-code used for in CNC programming?

- To define machine functions ✓
- To control axis movements
- To measure tool offsets
- To manage tool cooling

✗ Incorrect 0/2 Points

0 / 2 pts
Auto-graded

In CNC turning, which operation is typically used to remove material from the external diameter of the workpiece?

- Facing
- Boring
- Turning ✓
- Grooving

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which of the following is NOT a part of a CNC machine?

- Controller
- Spindle
- Toolpost
- Electric drill ✓

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What is the purpose of a tool setter in CNC machining?

- To clamp the workpiece
- To measure tool dimensions and offsets ✓
- To lubricate the tool
- To adjust spindle speed

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which type of material is most commonly used for CNC cutting tools? *

- Plastic
- High-speed steel ✓
- Aluminum
- Copper

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What is the coolant used for in CNC machining? *

- To increase tool speed
- B) To cool and lubricate during cutting ✓
- To clean the machine
- To power the spindle

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What does the term "climb milling" refer to? *

- Milling in the direction of the cutter's rotation ✓
- Milling against the direction of the cutter's rotation
- A vertical milling process
- Milling with an angled cutter

✗ Incorrect 0/2 Points

0 / 2 pts
Auto-graded

Which of the following describes the X-axis in CNC turning? *

- Movement of the tool along the spindle axis
- Movement of the tool perpendicular to the spindle axis ✓
- Rotational movement of the tool
- Rotational movement of the spindle

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What is the standard method for measuring tool offsets in CNC machines? *

- Using calipers
- Using a tool setter or probe ✓
- Visual estimation
- Manual calculation

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which CNC operation is used to create a flat surface perpendicular to the axis of rotation? *

- Turning
- Facing ✓
- Threading
- Drilling

X Incorrect 0/2 Points

0 / 2 pts
Auto-graded

What is backlash in a CNC machine? *

- Excess material left after machining
- Incorrect tool movement due to loose components ✓
- The delay in coolant flow
- Variation in spindle speed

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

In CNC milling, a "pocket" operation involves: *

- Cutting a hole through the material
- Creating a recessed area within the material ✓
- Milling the edges of the material
- Surface finishing

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

Which type of CNC programming allows for automatic adjustment of tool paths based on workpiece geometry? *

- Conversational programming
- CAM ✓
- Manual programming
- Incremental programming

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

What is the purpose of a tool turret in CNC turning? *

- To hold the workpiece
- To store and rotate multiple cutting tools ✓
- To measure workpiece dimensions
- To control spindle speed

N.R.
R. DeJong

J. S. H. - 12/25

NETTUR TECHNICAL TRAINING FOUNDATION



WORK SCHEDULE SHEET

Exercise No.: 01	Commenced on: 24.01.2025	Marks scored out of 10 **Marks Distribution)
Title: Internship CNC	Finished on: 24.01.2025	

Sl. No.	Schedule of Operations	Machines / Operations	Time estimated	Speed	Feed	Remarks
1.	Interpretation of Drawing	Drawing				
2.	Check the raw material	Vericut				
3.	Create the programme (CNC Programming)	CNC Programming				
4.	Set the job in the Machine	M/C vice				
5.	Die the vice (work holding device)	M/C				
6.	Make the offset	Edge finder				
7.	X-Y-Z Reference	OS and mill				
8.	Mill the job as per drawing	CNC M/C	15 min	950		
9.	Slot Milling 20 square 2 to 0.5mm	CNC M/C				
10.	Spot drill 6 holes as per drawing	mill				
11.	Check the job (Inspection)					
12.	Deburr the part					
13.	Inspection					

Materials	MS	EN24	EN36	K100	K720	W300	AL	K605	Brass	Bronze	Copper
**Content / Description of operation with tolerance - 3 Speed, Feed & Operation - 3											
Hand tools & Measuring - 2											
Materials & Safety Precaution - 2											

Marks Distribution

4	2	4
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Evaluator Signature

(SANTHOSH C V, DEPUTY MANAGER, NTF)

NETTUR TECHNICAL TRAINING FOUNDATION



WORK SCHEDULE SHEET

Exercise No.: 01
 Title: Inboardrup CNC
 Commenced on: 04/01/85
 Finished on: 04/01/85

Marks scored out of 10
 Marks Distribution): **6

Sl. No.	Schedule of Operations	Machines / Operations	Time estimated	Speed	Feed	Remarks
1.	Interpretation of drawing	Drawing				
2.	check the raw material	raw material				
3.	create the program (CNC Programming)	CNC Programming				
4.	set the job in the machine					
5.	Dial the pin (work heading done)	M/C pin				
6.	Take the offset	M/C				
7.	X, Y, Z reference	edge finder				
8.	Mill the job as per drawing	5 cnd mill				
9.	slot drill / milling on square sections	CNC MK 8	15 min	950		
10.	spot drill 6 holes as per drawing	end mill				
11.	check the job (Inspection)					
12.	Deliver the part					
13.	ITSpection					

Materials	MS	EN24	EN36	K100	K720	W300	AL	K605	Brass	Bronze	Copper
**Content / Description of operation with tolerance - 3 Speed, Feed & Operation - 3											
Hand tools & Measuring - 2 Materials & Safety Precaution - 2											
Marks Distribution 5 2 1											

Roll No.: 230ME005
 (Use back side of the paper for safety precaution)
 IMSF - 8531

Evaluator Signature
 (SANTOSH CV, DEPUTY MANAGER, NTTF)

Title of the Program: CNC Milling & Turning

Date: 20.01.2025 to 25.01.2025 (6 Days)

Name of the College: Kamaraj College of Engineering and Technology, Madurai.

Year and Department: II Year and Mechanical Engineering

Venue: NTT Bangalore Training Center, Peenya Campus, Bangalore

Assessment Report

S.No	Roll No	Register No	Name	Viva (10)	Work Schedule (10)	Dimensioning (10)	CNC Programming (50)	Finishing (10)	Quality Check (10)	Total Marks (100)
1	23UME001	920423114008	HARISH BALA. R	7	7	7	44	7	8	80
2	23UME002	920423114006	DHARINEESH. S	9	9	8	46	8	9	89
3	23UME003	920423114012	MUKILARASAN. M	7	7	7	34	7	8	70
4	23UME004	920423114013	MUTHURAJA. M	7	7	7	44	7	8	80
5	23UME005	920423114004	BALAGANESH. S	7	6	6	29	7	6	61
6	23UME006	920423114009	KARTHICKEYAN. M	9	9	8	46	8	9	89
7	23UME007	920423114018	SUBRAMANI PANDI.K	7	7	7	44	7	8	80
8	23UME008	920423114001	ARAVIND KUMAR. M	9	9	9	46	8	9	90
9	23UME010	920423114021	VASANTHKUMAR. N	9	9	9	46	8	9	90
10	23UME011	920423114003	ASHWIN. K	9	9	9	46	8	9	90
11	23UME012	920423114023	YOKAHARIHARAN. S	10	9	9	46	8	9	91
12	23UME013	920423114011	MAYILKANI. B	10	9	9	46	8	9	91
13	23UME014	920423114015	SAHI. D. V	10	9	9	46	8	9	91
14	23UME015	920423114022	VISHAL. M	8	7	7	44	7	8	81
15	23UME018	920423114019	THANGAPANDIRAJA. M	7	7	7	44	7	8	80
16	23UME019	920423114014	PON GANESH RAM. M	7	7	7	44	7	8	80
17	23UME020	920423114005	BALAKRISHNAN. P	8	9	8	46	8	9	88
18	23UME021	920423114007	GIRIDHARAN. N	7	7	7	44	7	8	80
19	23UME023	920423114010	MAHALINGAM. N	7	7	7	44	7	8	80
20	23UME024	920423114020	VARUNESHBALAA. M	8	7	9	46	9	8	87

25/1/25



NETTUR TECHNICAL TRAINING FOUNDATION

An IMS Certified Training Institute (ISO 21001, ISO 9001, ISO 14001, ISO 45001)
Corporate Office : Post Box No. 5857, 23/24, II Phase, Peenya Industrial Area, Bengaluru-560058.
Phone : +91 80 28397218 | Fax: 080-28397196 | E-mail: btc@nttf.co.in | CIN: U05110KA1999NPL025461



S.No	Roll No	Register No	Name	Viva (10)	Work Schedule (10)	Dimensioning (10)	CNC Programming (50)	Finishing (10)	Quality Check (10)	Total Marks (100)
21	23UME025	920423114002	ARUN PRAKASH. S	7	7	7	44	7	8	80
22	23UME026	920423114016	SHARUKESH. J	7	9	8	46	8	8	86
23	23UME027	920423114303	SIVAKUMAR. V	7	7	7	44	7	8	80
24	23UME028	920423114304	THARUN RAJ. P. S	7	7	7	39	7	8	75
25	23UME029	920423114302	SHIVAKUMAAR. M	8	7	7	44	7	8	81
26	23UME030	920423114301	ESAKKI SUDHAN.E	8	7	7	44	7	8	81

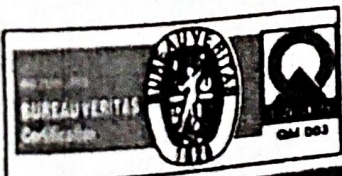
K. R. S. M.
25/01/25

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Department of Mechanical Engineering

Title of the Program: CNC Milling & Turning

Date: 20.01.2025 to 25.01.2025 (6 Days)

Participants: II year (2023 – 2027 Batch)

Academic Year: 2024 – 2025 EVEN

Conducted by: NTTF, Peeneya ,Bangalore.

Venue: NTTF, Training Centre, Bangalore

External Assessment

S.No	Roll No	Register No	Name	External Assessment (out of 100)
1	23UME001	920423114008	HARISH BALA. R	80
2	23UME002	920423114006	DHARINEESH. S	89
3	23UME003	920423114012	MUKILARASAN. M	70
4	23UME004	920423114013	MUTHURAJA. M	80
5	23UME005	920423114004	BALAGANESH. S	61
6	23UME006	920423114009	KARTHICKEYAN. M	89
7	23UME007	920423114018	SUBRAMANI PANDI.K	80
8	23UME008	920423114001	ARAVIND KUMAR. M	90
9	23UME010	920423114021	VASANTHKUMAR. N	90
10	23UME011	920423114003	ASHWIN. K	90
11	23UME012	920423114023	YOKAHARIHARAN. S	91
12	23UME013	920423114011	MAYILKANI. B	91
13	23UME014	920423114015	SAHI. D. V	91
14	23UME015	920423114022	VISHAL. M	81
15	23UME018	920423114019	THANGAPANDIRAJA. M	80
16	23UME019	920423114014	PON GANESH RAM. M	80
17	23UME020	920423114005	BALAKRISHNAN. P	88
18	23UME021	920423114007	GIRIDHARAN. N	80
19	23UME023	920423114010	MAHALINGAM. N	80
20	23UME024	920423114020	VARUNESHBALAA. M	87
21	23UME025	920423114002	ARUN PRAKASH. S	80
22	23UME026	920423114016	SHARUKESH. J	86
23	23UME027	920423114303	SIVAKUMAR. V	80
24	23UME028	920423114304	THARUN RAJ. P. S	75
25	23UME029	920423114302	SHIVAKUMAAR. M	81
26	23UME030	920423114301	ESAKKI SUDHAN.E	81

N. S. S.
R. S. S.
Coordinators

S. S. S.
HoD/Mech

Department of Mechanical Engineering

Title of the Program: CNC Milling & Turning

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Participants: II year (2023 – 2027 Batch)

Academic Year: 2024 – 2025 EVEN

Conducted by: NTTF, Peeneya ,Bangalore.

Venue: NTTF, Training Centre, Bangalore

External Assessment

S.No	Roll No	Register No	Name	External Assessment		Internal Assessment	Total
				(out of 100)	(out of 60)	(out of 40)	(out of 100)
1	23UME001	920423114008	HARISH BALA. R	80	48	38	86
2	23UME002	920423114006	DHARINEESH. S	89	54	36	90
3	23UME003	920423114012	MUKILARASAN. M	70	42	32	74
4	23UME004	920423114013	MUTHURAJA. M	80	48	38	86
5	23UME005	920423114004	BALAGANESH. S	61	37	34	71
6	23UME006	920423114009	KARTHICKEYAN. M	89	54	38	92
7	23UME007	920423114018	SUBRAMANI PANDI.K	80	48	38	86
8	23UME008	920423114001	ARAVIND KUMAR. M	90	54	38	92
9	23UME010	920423114021	VASANTHKUMAR. N	90	54	40	94
10	23UME011	920423114003	ASHWIN. K	90	54	36	90
11	23UME012	920423114023	YOKAHARIHARAN. S	91	55	40	95
12	23UME013	920423114011	MAYILKANI. B	91	55	40	95
13	23UME014	920423114015	SAHI. D. V	91	55	38	93
14	23UME015	920423114022	VISHAL. M	81	49	32	81
15	23UME018	920423114019	THANGAPANDIRAJA. M	80	48	40	88
16	23UME019	920423114014	PON GANESH RAM. M	80	48	36	84
17	23UME020	920423114005	BALAKRISHNAN. P	88	53	34	87
18	23UME021	920423114007	GIRIDHARAN. N	80	48	38	86
19	23UME023	920423114010	MAHALINGAM. N	80	48	36	84
20	23UME024	920423114020	VARUNESHBALAA. M	87	53	40	93
21	23UME025	920423114002	ARUN PRAKASH. S	80	48	40	88
22	23UME026	920423114016	SHARUKESH. J	86	52	34	86
23	23UME027	920423114303	SIVAKUMAR. V	80	48	38	86
24	23UME028	920423114304	THARUN RAJ. P. S	75	45	40	85
25	23UME029	920423114302	SHIVAKUMAAR. M	81	49	30	79
26	23UME030	920423114301	ESAKKI SUDHAN.E	81	49	36	85

[Signature]
Coordinators

[Signature]
HoD/Mech 12/02/25

[Signature]
Chief Coordinator Academic core

Title of the Program: CNC Milling & Turning

Date: 20.01.2025 to 25.01.2025 (6 Days)

Name of the College: Kamaraj College of Engineering and Technology, Madurai.

Year and Department: II Year and Mechanical Engineering

Venue: NTTF Bangalore Training Center, Peenya Campus, Bangalore

Attendance Report

S.No	Roll No	Register No	Name	Total Hours Conducted	Total Hours Attended	Attendance %
1	23UME001	920423114008	HARISH BALA. R	48	44	92%
2	23UME002	920423114006	DHARINEESH. S	48	48	100%
3	23UME003	920423114012	MUKILARASAN. M	48	48	100%
4	23UME004	920423114013	MUTHURAJA. M	48	48	100%
5	23UME005	920423114004	BALAGANESH. S	48	40	83%
6	23UME006	920423114009	KARTHICKEYAN. M	48	48	100%
7	23UME007	920423114018	SUBRAMANI PANDI. K	48	48	100%
8	23UME008	920423114001	ARAVIND KUMAR. M	48	48	100%
9	23UME010	920423114021	VASANTHKUMAR. N	48	48	100%
10	23UME011	920423114003	ASHWIN. K	48	48	100%
11	23UME012	920423114023	YOKAHARIHARAN. S	48	48	100%
12	23UME013	920423114011	MAYILKANI. B	48	48	100%
13	23UME014	920423114015	SAHI. D. V	48	48	100%
14	23UME015	920423114022	VISHAL. M	48	48	100%
15	23UME018	920423114019	THANGAPANDIRAJA. M	48	48	100%
16	23UME019	920423114014	PON GANESH RAM. M	48	48	100%
17	23UME020	920423114005	BALAKRISHNAN. P	48	48	100%
18	23UME021	920423114007	GIRIDHARAN. N	48	48	100%
19	23UME023	920423114010	MAHALINGAM. N	48	48	100%
20	23UME024	920423114020	VARUNESHBALAA. M	48	48	100%
21	23UME025	920423114002	ARUN PRAKASH. S	48	48	100%
22	23UME026	920423114016	SHARUKESH. J	48	48	100%
23	23UME027	920423114303	SIVAKUMAR. V	48	48	100%
24	23UME028	920423114304	THARUN RAJ. P. S	48	48	100%
25	23UME029	920423114302	SHIVAKUMAAR. M	48	48	100%
26	23UME030	920423114301	ESAKKI SUDHAN.E	48	48	100%

Dr. Senthil
25-1-25

K. Jeyapriya
25/1/25

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Department of Mechanical Engineering

Title of the Program: CNC Milling & Turning

Date: 20.01.2025 to 25.01.2025 (6 Days)

Participants: II year (2023 – 2027 Batch)

Academic Year: 2024 – 2025 EVEN

Conducted by: NTTF, Peeneya ,Bangalore.

Venue: NTTF, Training Centre, Bangalore

Attendance Sheet

S.No	Roll No	Register No	Name	Student Signature					
				20.01.25	21.01.25	22.01.25	23.01.25	24.01.25	25.01.25
1	23UME001	920423114008	HARISH BALA. R	Hari	Hari	Hari	Hari	Hari	Hari
2	23UME002	920423114006	DHARINEESH. S	S.D.R	S.D.R	S.D.R	S.D.R	S.D.R	S.D.R
3	23UME003	920423114012	MUKILARASAN. M	M.M	M.M	M.M	M.M	M.M	M.M
4	23UME004	920423114013	MUTHURAJA. M	M.M	M.M	M.M	M.M	M.M	M.M
5	23UME005	920423114004	BALAGANESH. S	Bala	Bala	Bala	Bala	Bala	Bala
6	23UME006	920423114009	KARTHICKEYAN. M	K.K	K.K	K.K	K.K	K.K	K.K
7	23UME007	920423114018	SUBRAMANI PANDI.K	S.P	S.P	S.P	S.P	S.P	S.P
8	23UME008	920423114001	ARAVIND KUMAR. M	A.K	A.K	A.K	A.K	A.K	A.K
9	23UME010	920423114021	VASANTHKUMAR. N	N.V	N.V	N.V	N.V	N.V	N.V
10	23UME011	920423114003	ASHWIN. K	Ash	Ash	Ash	Ash	Ash	Ash
11	23UME012	920423114023	YOKAHARIHARAN. S	Y.S	Y.S	Y.S	Y.S	Y.S	Y.S
12	23UME013	920423114011	MAYILKANI. B	M.B	M.B	M.B	M.B	M.B	M.B
13	23UME014	920423114015	SAHI. D. V	S.D.V	S.D.V	S.D.V	S.D.V	S.D.V	S.D.V
14	23UME015	920423114022	VISHAL. M	V.M	V.M	V.M	V.M	V.M	V.M
15	23UME018	920423114019	THANGAPANDIRAJA. M	T.M	T.M	T.M	T.M	T.M	T.M
16	23UME019	920423114014	PON GANESH RAM. M	P.M	P.M	P.M	P.M	P.M	P.M
17	23UME020	920423114005	BALAKRISHNAN. P	P.R	P.R	P.R	P.R	P.R	P.R
18	23UME021	920423114007	GIRIDHARAN. N	G.N	G.N	G.N	G.N	G.N	G.N
19	23UME023	920423114010	MAHALINGAM. N	M.N	M.N	M.N	M.N	M.N	M.N
20	23UME024	920423114020	VARUNESHBALAA. M	V.M	V.M	V.M	V.M	V.M	V.M
21	23UME025	920423114002	ARUN PRAKASH. S	A.S	A.S	A.S	A.S	A.S	A.S
22	23UME026	920423114016	SHARUKESH. J	S.J	S.J	S.J	S.J	S.J	S.J
23	23UME027	920423114303	SIVAKUMAR. V	S.V	S.V	S.V	S.V	S.V	S.V
24	23UME028	920423114304	THARUN RAJ. P. S	T.P.S	T.P.S	T.P.S	T.P.S	T.P.S	T.P.S
25	23UME029	920423114302	SHIVAKUMAAR. M	S.M	S.M	S.M	S.M	S.M	S.M
26	23UME030	920423114301	ESAKKI SUDHAN.E	S.E	S.E	S.E	S.E	S.E	S.E

Coordinators *P. Chelvan*

S. Thyagaraj
HoD/Mech

Department of Mechanical Engineering

Title of the Program: CNC Milling & Turning

Date: 20.01.2025 to 25.01.2025 (6 Days)

Participants: II year (2023 – 2027 Batch)

Academic Year: 2024 – 2025 EVEN

Conducted by: NTTF, Peeneya ,Bangalore.

Venue: NTTF, Training Centre, Bangalore

Summary Report

Course Objectives:

The CNC Programming course aims to provide participants with a detailed understanding of CNC technology. The key objectives of the course are to:

1. Introduce the basics of CNC technology.
2. Familiarize students with CNC machine hardware and its functions.
3. Introduce cutting tools used in CNC operations and their parameters.
4. Provide awareness about CNC machine operations and safety.
5. Train students in CNC turning and milling operations.
6. Equip students with knowledge in CNC part programming (manual and simulation).
7. Assess student proficiency through practical exercises and assessments.

Program Overview:

The course was conducted over 48 hours with a combination of theory sessions, practical hands-on training, and assessments. The sessions were designed to cover both the fundamental concepts and advanced aspects of CNC programming and machine operations.

Inauguration:

The CNC Programming course commenced with an Inaugural Ceremony on January 25, 2025. The event was graced by NTTF faculty members and experts who provided insights into the growing importance of CNC technologies in modern manufacturing. The ceremony highlighted the objectives of the course and set the tone for the upcoming sessions.

Course Structure:

Sl. No.	Major Topic	Allotted Hours	Session Type
1.0	Introduction to CNC	2 hours	Theory Session
2.0	CNC Hardware Basics	2 hours	Theory Session
3.0	Cutting Tool and Cutting Tool Parameters	2 hours	Theory Session
4.0	CNC Operation	2 hours	Theory Session
5.0	CNC Turning	2 hours	Theory Session
6.0	CNC Milling	2 hours	Theory Session
7.0	Part Programming - CNC Turning and CNC Milling	20 hours	Theory + Practical
8.0	Exercise/Assessment	16 hours	Practical + Assessment

Total Hours: 48 hours

Valedictory Ceremony:

The Valedictory Ceremony was held on January 29, 2025, marking the successful completion of the course. The ceremony included the distribution of certificates to participants, recognizing their efforts and accomplishments throughout the course. Feedback from participants was gathered to assess the effectiveness of the training and to improve future iterations of the course. Faculty members and industry experts congratulated the students for their active participation and skill acquisition.



Theory Sessions:

Throughout the course, students were provided with in-depth theoretical knowledge on CNC technologies, including:

- CNC machine types and components
- Operation and maintenance of CNC machines
- Cutting tool selection and parameter optimization
- CNC programming fundamentals

These sessions were structured to provide both a solid foundation and advanced concepts required to master CNC operations.

Practical Sessions:

Practical hands-on training was a key aspect of this course. The practical sessions focused on:

- Setting up CNC machines (turning and milling)
- Operating CNC machines safely
- Loading and executing CNC programs
- Performing real-world CNC part programming and simulations

Students actively engaged in machine operation and part programming to apply their theoretical learning in practical scenarios.

Assessments:

To evaluate student progress, comprehensive assessments were conducted throughout the course:

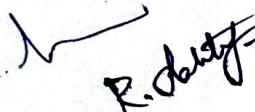
- **Theory Exam:** A Viva and Work Schedule from the theory contents.
- **Practical Exam:** Hands-on assessment where students demonstrated their ability to set up and operate CNC machines, and program parts for both turning and milling operations.

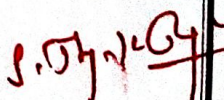
The final assessment gauged their understanding of CNC technology, machine operation, and programming proficiency.

Conclusion:

The CNC Programming course was a highly successful training program, providing participants with the essential skills and knowledge required to operate and program CNC machines. The blend of theory, practical sessions, and assessments ensured that participants were well-prepared to apply CNC technology in real-world scenarios.

The Inaugural and Valedictory Ceremonies added an official touch to the course, recognizing the students' hard work and success. The course concluded with positive feedback from participants, many of whom expressed increased confidence in their ability to work with CNC machines and software.


Coordinators


HoD/Mech

Feedback Form | CNC Milling and Turning | II Year | Value Added Course

Title of the Program : Value added course for "CNC Milling and Turning"
Participants : II - year students
Date : 20.01.2025 to 25.01.2025
Conducted by : **NTTF, Peeneya ,Bangalore.**

Coordinators:
Er. Madhan N.R, AP/Mech,
Er. R. Sakthivel Murugan, AP/Mech

Instructions: Please indicate your level of agreement the statements listed below

- 4 Star - Strong Agree
- 3 Star - Agree
- 2 Star - Neutral
- 1 Star - Dis-Agree

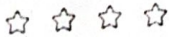
* Required

* This form will record your name, please fill your name.

1. The objectives of the training were clearly defined by the Co-ordinator *



2. Participation and interaction were encouraged. *



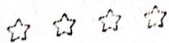
3. The topics covered were relevant to me. *



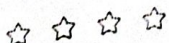
4. The content was organized and easy to follow. *



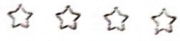
5. This training experience will be useful me. *



6. The trainer was knowledgeable about the training topics. *



7. The trainer was well prepared. *



8. The training objectives were met. *



9. The time allotted for the training was sufficient *



10. The HOP Lab were adequate and comfortable. *



Your view about this programme

11. What did you like most about this training? *

[Empty text box for question 11]

12. What aspects of the training could be improved? *

[Empty text box for question 12]

13. How do you hope to change your practice as a result of this training? *

[Empty text box for question 13]

14. Please share over all comments about this programme. *

[Empty text box for question 14]

15. Do you suggest this programme to your juniors *

Yes

No

This content is neither created nor endorsed by Microsoft. The data you submit will be sent to the form owner.

Microsoft Forms

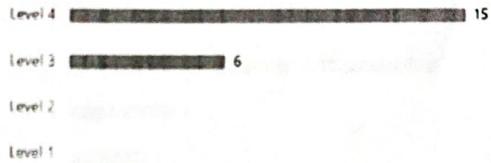
*Kindly form
the feedback questions
for use
R. Chelvey*

*Approved
S. S. H. - 12/04/25*

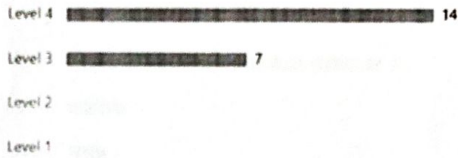
Responses Overview Active

Responses	Average Score	Average Time
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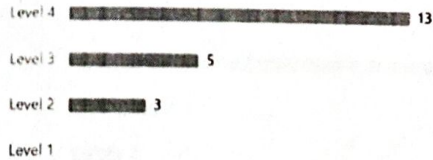
1. The objectives of the training were clearly defined by the Co-ordinator (0 point)



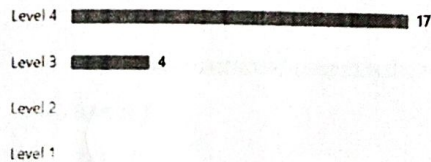
2. Participation and interaction were encouraged (0 point)



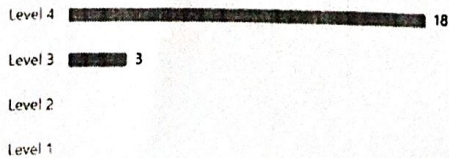
3. The topics covered were relevant to me. (0 point)



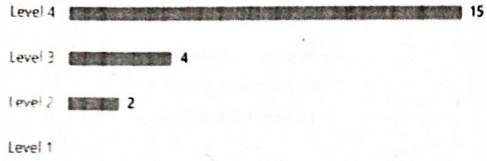
4. The content was organized and easy to follow (0 point)



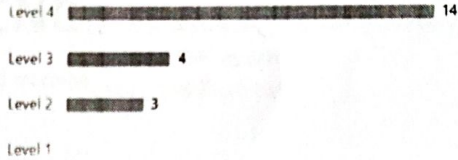
5. This training experience will be useful me. (0 point)



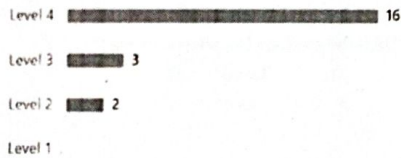
6. The trainer was knowledgeable about the training topics. (0 point)



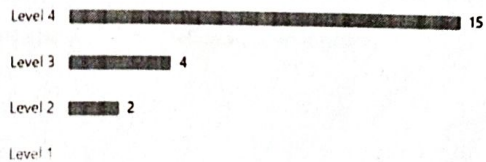
7. The trainer was well prepared. (0 point)



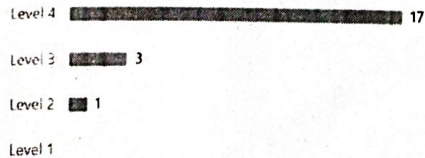
8. The training objectives were met. (0 point)



9. The time allotted for the training was sufficient (0 point)



10. The HOP Lab were adequate and comfortable. (0 point)



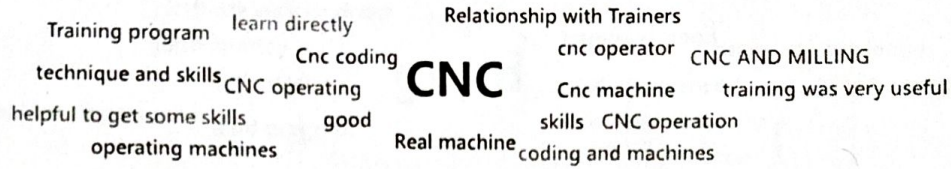
11. What did you like most about this training? (0 point)

21
Responses

Latest Responses

- "Operating cnc machines"
- "While operating cnc"
- "Real machine saw"
- ...

12 respondents (57%) answered CNC for this question.



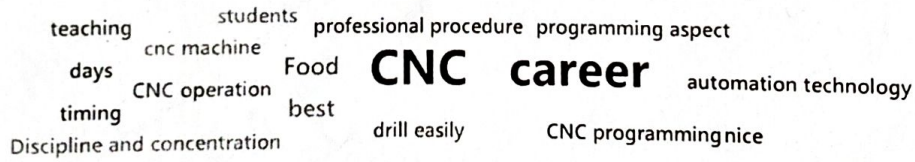
12. What aspects of the training could be improved? (0 point)

21
Responses

Latest Responses

- "In programming"
- "How to operate cnc machine like that"
- "Good"
- ...

4 respondents (19%) answered CNC for this question.



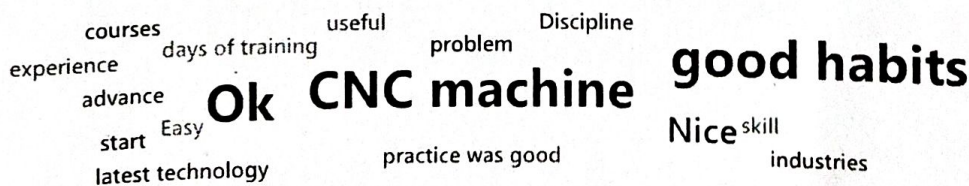
13. How do you hope to change your practice as a result of this training? (0 point)

21
Responses

Latest Responses

- "I get some good habits"
- "Easy to handle cnc machine"
- "Nice"
- ...

3 respondents (14%) answered CNC machine for this question.



14 Please share over all comments about this programme (0 point)

21 Responses

Latest Responses

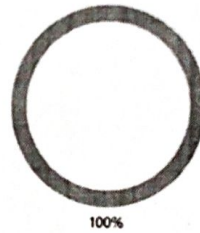
"It is so use to me and I get some skills in operating cnc machine"
"Very good program and we have less time to learn in the place we need to learn ..."
"Especially experience in the hostel everyday I enjoyed with my friends"
...

13 respondents (62%) answered good for this question.

staff are very kindness
good journey
CNC machine
golden opportunity
good program
good
traning is good
training knowledge
good experience
Nice training
skills good person
Especially experience
tha students

15. Do you suggest this programme to your juniors (0 point)

Yes 21
No 0



All the Questions
are lie above 3 out of 4.
& all the students are descripted
the VAC for nitivly.
N.R.
R. Chaitany

S. S. H. K. G. L.

Review: Feedback Form | CNC Milling and Turning | II Year | Value Added Course

Respondent

8 ESSAKI RAJA.M

03:25

Time to complete

1. The objectives of the training were clearly defined by the Co-ordinator *

Score / 0 pts



2. Participation and interaction were encouraged. *

Score / 0 pts



3. The topics covered were relevant to me. *

Score / 0 pts



4. The content was organized and easy to follow. *

Score / 0 pts



5. This training experience will be useful me. *

Score / 0 pts



6. The trainer was knowledgeable about the training topics. *

Score / 0 pts



7. The trainer was well prepared. *

Score / 0 pts



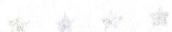
8. The training objectives were met. *

Score / 0 pts



9. The time allotted for the training was sufficient *

Score / 0 pts



10. The HOP Lab were adequate and comfortable. *

Score / 0 pts

★ ★ ★ ★

Your view about this programme

11. What did you like most about this training? *

Score / 0 pts

cnc operator working

12. What aspects of the training could be improved? *

Score / 0 pts

IN my career

13. How do you hope to change your practice as a result of this training? *

Score / 0 pts

ok

14. Please share over all comments about this programme. *

Score / 0 pts

This training is good

15. Do you suggest this programme to your juniors? *

Score / 0 pts

Yes

No

N.A
R. D. J.

S. S. H. - G. Y. L.

Review: Feedback Form | CNC Milling and Turning | II Year | Value Added Course

Respondent

10 THANGAPANDIRAJA.M

04:06

Time to complete

1. The objectives of the training were clearly defined by the Co-ordinator *

Score / 0 pts



2. Participation and interaction were encouraged. *

Score / 0 pts



3. The topics covered were relevant to me. *

Score / 0 pts



4. The content was organized and easy to follow. *

Score / 0 pts



5. This training experience will be useful me. *

Score / 0 pts



6. The trainer was knowledgeable about the training topics. *

Score / 0 pts



7. The trainer was well prepared. *

Score / 0 pts



8. The training objectives were met. *

Score / 0 pts



9. The time allotted for the training was sufficient *

Score / 0 pts



10. The HOP Lab were adequate and comfortable. *

Score / 0 pts



Your view about this programme

11. What did you like most about this training? *

Score / 0 pts

Very good

12. What aspects of the training could be improved? *

Score / 0 pts

Very nice

13. How do you hope to change your practice as a result of this training? *

Score / 0 pts

Very useful

14. Please share over all comments about this programme. *

Score / 0 pts

Ok

15. Do you suggest this programme to your juniors? *

Score / 0 pts

Yes

No

N/A
R. Delaney

S. J. H. - GYM

Review: Feedback Form | CNC Milling and Turning | II Year | Value Added Course

Respondent

11 DHARINEESH.S

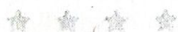
05:00

Time to complete

1. The objectives of the training were clearly defined by the Co-ordinator * Score / 0 pts



2. Participation and interaction were encouraged. * Score / 0 pts



3. The topics covered were relevant to me. * Score / 0 pts



4. The content was organized and easy to follow. * Score / 0 pts



5. This training experience will be useful me. * Score / 0 pts



6. The trainer was knowledgeable about the training topics. * Score / 0 pts



7. The trainer was well prepared. * Score / 0 pts



8. The training objectives were met. * Score / 0 pts



9. The time allotted for the training was sufficient * Score / 0 pts



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Santhosh C V

SANTHOSH C V
PROGRAM COORDINATOR
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Somanathan K

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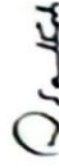
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This is to certify that **Varuneshbalaa M**- Reg.No 920423114020 student of Mechanical Engineering, Kamaraj College of Engineering & Technology, Virudhunagar, has successfully completed 48 hours of training "**Technical Enrichment - CNC Milling & Turning**" from 20th- 25th Jan 2025 at **Nettur Technical Training Foundation, Peenya, Bangalore.**

SANTHOSH C V
PROGRAM COORDINATOR
NTTF - B.TC BANGALORE

SOMANATHAN K
PRINCIPAL
NTTF - B.TC BANGALORE



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No. SD/BLR/541/25

25 01 2025

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This is to certify that **Arun Prakash S**-Reg No 920423114002 student of
Mechanical Engineering, Kamaraj College of Engineering & Technology,

Virudhunagar, has successfully completed 48 hours of training

"*Technical Enrichment - CNC Milling & Turning*" from 20th-25th Jan 2025

at Nettur Technical Training Foundation, Peenya, Bangalore.

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25 01 2025

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This is to certify that **Sharukesh J-Reg.No 920423114016** student of
**Mechanical Engineering, Kamaraj College of Engineering & Technology,
Virudhunagar, has successfully completed 48 hours of training
"Technical Enrichment - CNC Milling & Turning" from 20th - 25th Jan 2025
at Nettur Technical Training Foundation, Peenya, Bangalore.**

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No. SD/BLR/543/25

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PARTICIPATION CERTIFICATE

This is to certify that **Sivakumar V** - Reg No 920423114303 student of Mechanical Engineering, Kamaraj College of Engineering & Technology, Virudhunagar, has successfully completed 48 hours of training "Technical Enrichment - CNC Milling & Turning" from 20th - 25th Jan 2025 at Nettur Technical Training Foundation, Peenya, Bangalore.



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No. SD/BLR/544/25

25 01 2025

PARTICIPATION CERTIFICATE

This is to certify that **Tharun Raj P S** - Reg No 920423114304 student of **Mechanical Engineering Kamaraj College of Engineering & Technology,**

Virudhunagar, has successfully completed **48 hours of training**

"Technical Enrichment - CNC Milling & Turning" from **20th - 25th Jan 2025**
at **Nettur Technical Training Foundation, Peenya, Bangalore.**



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This is to certify that **Shivakumaar M**- Reg No 920423114302 student of **Mechanical Engineering, Kamaraj College of Engineering & Technology,**

Virudhunagar has successfully completed 48 hours of training

"Technical Enrichment - CNC Milling & Turning" from 20th - 25th Jan 2025
at **Nettur Technical Training Foundation, Peenya, Bangalore.**

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25 01 2025

PARTICIPATION CERTIFICATE

This is to certify that **Esakki Sudhan E** - Reg.No 920423114301 student of Mechanical Engineering, Kamaraj College of Engineering & Technology, Virudhunagar, has successfully completed 48 hours of training "Technical Enrichment - CNC Milling & Turning" from 20th - 25th Jan 2025 at Nettur Technical Training Foundation, Peenya, Bangalore.



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NITF - BIC BANGALORE



SOMNATHANK
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