

SYLLABUS/  
CURRICULUM



# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

(Approved by AICTE & Affiliated to Anna University, Chennai)

Madurai - Sivagangai Highway, Arasanoor, Thirumansolai Post, Sivagangai Dt. - 630 561, Tamilnadu  
Mobile : 9842102628, 7373002628 Email: info@psyec.edu.in Website : www.psyec.edu.in

City Office : 10, Pandian Saraswathi St, Sivagami Nagar, Narayanapuram, Madurai - 625 014. Telefax- 0452 2682338, Mobile : 98423-02628

## Department of Mechanical Engineering

Academic Year 2021-2022

### VACME2122OPCNC- OPERATIONS & PROGRAMMING IN CNC

#### Objective of the Course

- This course will introduce the student to the entry level Computer Numeric controller.
- To provide "hands-on" experience to create Models of Basic Parts and Machining.

#### Module-1 Introduction and history of CNC 9

Introduction to CNC technology -CNC machines & controls. History & development of CNC technology. Conventional Vs. non-conventional machine tool. Numerical control on CNC machine tools. CNC Control and types of CNC control. Calculation of technological data for CNC machining. CNC clamping system. Implementation of JH for CNC. Basic health and safety. CNC programming basics.

#### Module-2 CNC Programming 9

Introduction to CNC programming, Introduction and demonstration of line programs CNC programming for lathe & milling machine using ISO codes into the CNC simulator. CNC programming for lathe and milling machines using different machining cycles into the CNC simulator.

#### Module-3 CNC Programming Lathe 9

Plan and optimize programs for CNC turning operations. Calculate parameters like speed feed etc. and set references for the various operations. Prepare operation and operation sequence for the lathe operations like turning, grooving etc. Prepare & set CNC lathe operations and test run programmed.

#### Module-4 CNC Programming Milling 8

Plan and optimize programs for CNC Milling operations. Calculate parameters like speed feed, depth of cut etc. and set a reference for the various operations. Various methods of work process like edge finding block center etc. Prepare & set CNC Milling operations and test run programmed. Execute program and inspect simple geometrical forms / standard parts.

**Total Hours 35**

#### Outcomes

Upon completion of the course the students will able to

- Students can able to get the basic knowledge in CNC.
- Students can able to write and simulate CNC program in Software

  
Course Coordinator

  
HOD/MECH

  
PRINCIPAL

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# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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## Department of Mechanical Engineering

Academic Year 2021 - 2022

### VACME2122OPCNC- OPERATIONS & PROGRAMMING IN CNC

#### Course Schedule

Date	Time	TOPICS
01/12/2021	9.00 am to 12.15 pm	Introduction to CNC technology -CNC machines & controls. History & development of CNC technology. Conventional Vs. non-conventional machine tool. Numerical control on CNC machine tools.
	1.00 pm to 4.15 pm	
02/12/2021	9.00 am to 12.15 pm	CNC Control and types of CNC control. Calculation of technological data for CNC machining. CNC clamping system. Implementation of JH for CNC. Basic health and safety. CNC programming basics.
	1.00 pm to 4.15 pm	
03/12/2021	9.00 am to 12.15 pm	Introduction to CNC programming, Introduction and demonstration of line programs CNC programming for lathe & milling machine using ISO codes into the CNC simulator. CNC programming for lathe and milling machines using different machining cycles into the CNC simulator.
	1.00 pm to 4.15 pm	
04/12/2021	9.00 am to 12.15 pm	Plan and optimize programs for CNC turning operations. Calculate parameters like speed feed etc. and set references for the various operations.
	1.00 pm to 4.15 pm	
05/12/2021	9.00 am to 12.15 pm	Prepare operation and operation sequence for the lathe operations like turning, grooving etc. Prepare & set CNC lathe operations and test run programmed
	1.00 pm to 4.15 pm	
06/12/2021	9.00 am to 12.15 pm	Plan and Optimize program of CNC Milling operations Calculate parameters like speed feed, depth of cut etc. and set a reference for the various operations. Various methods of work process like edge finding block center etc. Prepare & set CNC Milling operations and test run programmed. Execute program and inspect simple geometrical forms / standard parts
	1.00 pm to 4.15 pm	

**Total Hours: 35**

Tea Break: 11:00 am to 11:15am & 03:00 pm to 03:15 pm

Lunch Break: 12:15 pm to 01:00pm

Course Coordinator

HOD/MECH

PRINCIPAL

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# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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## DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2021 – 2022

### One page Report

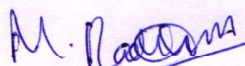
**Name of the course** : Operations & Programming In CNC  
**Course Code** : VACME2122OPCNC  
**Course Coordinator** : Mr.T. Ponvel Murugan  
**Date/Duration** : 01.12.2021 to 06.12.2021— 35 hours

I here affirm that the Final-year students of strength 30 have been taught the value-added course title “Operations & Programming In CNC” as per the syllabus and completed within the stipulated time duration.

I confirm that the value-added course titled “Operations & Programming In CNC” has been conducted in the beginning of the semester and course delivery along with the attendance of the students was recorded.

I confirmed that all the students were actively participated in the course and the eligible students were certified for the course.

  
Course Coordinator

  
HOD/MECH

  
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# ASSESSMENT PROCEDURE



# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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## Department of Mechanical Engineering

Academic Year 2021- 2022

### VACME2122OPCNC- OPERATIONS & PROGRAMMING IN CNC

#### Assessment Questions with Answer

1. The CNC machine stands for

- a) Computerized National Company
- b) Computerized Numerical Company
- c) Computerized Numerical Control
- d) **None**

2. CNC Machine started working in the

- a) 1900
- b) 1940
- c) 1980
- d) **None**

3. Computerized numerical control machines use

- a) Digital data & a computer
- b) computer and a CAM program
- c) **A computer**
- d) a CAM program & a digital data

4. CNC machine

- a) Open loop system
- b) Closed loop system
- c) **Both (a) & (b)**
- d) None

5. Open loop system controls the

- a) **Input**
- b) Output
- c) Both (a) & (b)
- d) None

6. Closed loop system controls the

- a) Input
- b) **Output**
- c) Both (a) & (b)
- d) None

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# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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7. Open loop system is

- a) Feedback system
- b) Non feedback system**
- c) Both (a) & (b)
- d) None

8. Closed loop system is

- a) Feedback system**
- b) Non feedback system
- c) Both (a) & (b)
- d) None

9. An open loop system does

- a) Correct machining
- b) Incorrect machining**
- c) Both (a) & (b)
- d) None

10. A closed loop system does

- a) Correct machining
- b) Incorrect machining**
- c) Both (a) & b
- d) None

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# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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## Department of Mechanical Engineering

Academic Year 2021- 2022

### VACME2122OPCNC- OPERATIONS & PROGRAMMING IN CNC

#### Assessment Test Paper

REGISTER NUMBER: 9/2018/14016

NAME OF THE STUDENT: MUTHUKUMAR M

1. The CNC machine stands for

- a) Computerized National Company
- b) Computerized Numerical Company
- c) Computerized Numerical Control
- d) None

2. CNC Machine started working in the

- a) 1900
- b) 1940
- c) 1980
- d) None

3. Computerized numerical control machines use

- a) Digital data & a computer
- b) computer and a CAM program
- c) A computer
- d) a CAM program & a digital data

4. CNC machine

- e) Open loop system
- f) Closed loop system
- g) Both (a) & (b)
- h) None

5. Open loop system controls the

- a) Input
- b) Output
- c) Both (a) & (b)
- d) None

6. Closed loop system controls the

- e) Input
- f) Output
- g) Both (a) & (b)
- h) None







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7. Open loop system is

- e) Feedback system
- f) Non feedback system
- g) Both (a) & (b)
- h) None

8. Closed loop system is

- e) Feedback system
- f) Non feedback system
- g) Both (a) & (b)
- h) None

9. An open loop system does

- e) Correct machining
- f) Incorrect machining
- g) Both (a) & (b)
- h) None

10. A closed loop system does

- e) Correct machining
- f) Incorrect machining
- g) Both (a) & b
- h) None

Pandian Saraswathi yadav Engineering College, Arasanoor -630561

Department of Mechanical Engineering

Student Performance Sheet

Academic Year : 2021-2022  
Course Code : VACME2122OPCNC  
Course Name : OPERATIONS & PROGRAMMING IN CNC  
Duration of hours : 35  
Period of Course : 01.12.2021 to 06.12.2021

Assessment Marks			Marks
Sl. No	Register Number	Student Name	
1	912018114002	AZHAGUMANIKANDAN A	80
2	912018114003	BALAMURUGAN R	90
3	912018114004	BHARATH M	75
4	912018114005	DINESH MAPPILLAI DURAI	80
5	912018114007	GUNA K	70
6	912018114008	HARIHARAN G	85
7	912018114009	INDHIRA KUMAR G	95
8	912018114010	JAYSHANKAR YADAV	90
9	912018114011	KARTHIK PRASANNA G	75
10	912018114012	MANI PRABHU K	78
11	912018114013	MANOJ S	94
12	912018114014	MOHAN R	96
13	912018114015	MUNIASAMY B	85
14	912018114016	MUTHUKUMAR M	80
15	912018114017	MUTHU KUMAR M	83
16	912018114019	MUTHURAJA V	85
17	912018114020	PRAVEEN KUMAR K	85
18	912018114021	PREM K	77
19	912018114022	SANTHANA SELVAM V	78
20	912018114025	SETHUMADHAVAN B	80
21	912018114026	SIVASANKAR P .	83
22	912018114027	VARUN CHAKKARAVARTHI T	85
23	912018114028	VASANTH N	84
24	912018114301	MANIKANDAN S	83
25	912018114302	RAVICHANDRAN R	82
26	912018114303	SANJAY M	94
27	912018114304	SIVARAJ J	92
28	912018114701	KABILAN K	95
29	912018114702	LANKESHWARAN B	93
30	912018114703	VENKATESH K	94

Course coordinator

HOD/MECH

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Enrollment  
Student Name  
List

Pandian Saraswathi yadav Engineering College, Arasanoor -630561

Department of Mechanical Engineering

Student Registration Sheet

Academic Year : 2021-2022

Course Code : VACME2122OPCNC

Course Name : OPERATIONS & PROGRAMMING IN CNC

Duration of hours : 35

Period of Course : 01.12.2021 to 06.12.2021

Enrolled Students List			Signature
Sl. No	Register Number	Student Name	
1	912018114002	AZHAGUMANIKANDAN A	Azhagumanikandan
2	912018114003	BALAMURUGAN R	R. Balamurugan
3	912018114004	BHARATH M	BHARATH M
4	912018114005	DINESH MAPPILLAI DURAI SV	Dinesh mappillai Durai SV
5	912018114007	GUNA K	Guna K.
6	912018114008	HARIHARAN G	HARIHARAN G
7	912018114009	INDHIRA KUMAR G	Indira kumar G
8	912018114010	JAYSHANKAR YADAV	Jayshankar Yadav
9	912018114011	KARTHIK PRASANNA G	KARTHIK PRASANNA G
10	912018114012	MANI PRABHU K	Mani Prabhu K.
11	912018114013	MANOJ S	Manoj S.
12	912018114014	MOHAN R	MOHAN R
13	912018114015	MUNIYASAMY B	Muniyasamy B
14	912018114016	MUTHUKUMAR M	M. Muthukumar
15	912018114017	MUTHU KUMAR M	Muthu kumar M
16	912018114019	MUTHURAJA V	U. muthu raja
17	912018114020	PRAVEEN KUMAR K	praveen kumar K
18	912018114021	PREM K	PREM K
19	912018114022	SANTHANA SELVAM V	Santha selvam V
20	912018114025	SETHUMADHAVAN B	Sethumadhavan B
21	912018114026	SIVASANKAR P	SIVASANKAR P
22	912018114027	VARUN CHAKKARAVARTHI T	T. Varun Chakravarti
23	912018114028	VASANTH N	Vasanth N
24	912018114301	MANIKANDAN S	MANIKANDAN S
25	912018114302	RAVICHANDRAN R	Ravichandran R.
26	912018114303	SANJAY M	Sanjay M
27	912018114304	SIVARAJ J	SIVARAJ J
28	912018114701	KABILAN K	Kabilan K
29	912018114702	LANKESHWARAN B	Lankeshwaran B
30	912018114703	VENKATESH K	venkatesh K.

Course coordinator



HOD/MECH



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# STUDENTS ATTENDANCE

Student Attendance Sheet

Academic Year : 2021-2022

Course Code : VACME2122OPCNC

Course Name : OPERATIONS & PROGRAMMING IN CNC

Duration of hours : 35

Period of Course : 01.12.2021 to 06.12.2021

Attendance Sheet			Date: 01.12.21					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912018114002	AZHAGUMANIKANDAN A	Azhagan	Azhagan	Azhagan	Azhagan	Azhagan	Azhagan
2	912018114003	BALAMURUGAN R	R.Bala	R.Bala	R.Bala	R.Bala	R.Bala	R.Bala
3	912018114004	BHARATH M	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath
4	912018114005	DINESH MAPPILLAI DURAI SV	DMSU	DMSU	DMSU	DMSU	DMSU	DMSU
5	912018114007	GUNA K	Gunk	Gunk	Gunk	Gunk	Gunk	Gunk
6	912018114008	HARIHARAN G	Hara	Hara	Hara	Hara	Hara	Hara
7	912018114009	INDHIRA KUMAR G	Indira	Indira	Indira	Indira	Indira	Indira
8	912018114010	JAYSHANKAR YADAV	Jyshan	Jyshan	Jyshan	Jyshan	Jyshan	Jyshan
9	912018114011	KARTHIK PRASANNA G	Karthik	Karthik	Karthik	Karthik	Karthik	Karthik
10	912018114012	MANI PRABHU K	Mani	Mani	Mani	Mani	Mani	Mani
11	912018114013	MANOJ S	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
12	912018114014	MOHAN R	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan
13	912018114015	MUNIYASAMY B	Muniya	Muniya	Muniya	Muniya	Muniya	Muniya
14	912018114016	MUTHUKUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
15	912018114017	MUTHU KUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
16	912018114019	MUTHURAJA V	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
17	912018114020	PRAVEEN KUMAR K	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen
18	912018114021	PREM K	Prem	Prem	Prem	Prem	Prem	Prem
19	912018114022	SANTHANA SELVAM V	Santha	Santha	Santha	Santha	Santha	Santha
20	912018114025	SETHUMADHAVAN B	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu
21	912018114026	SIVASANKAR P	Sivasankar	Sivasankar	Sivasankar	Sivasankar	Sivasankar	Sivasankar
22	912018114027	VARUN CHAKKARAVARTHI T	Varun	Varun	Varun	Varun	Varun	Varun
23	912018114028	VASANTH N	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth
24	912018114301	MANIKANDAN S	Mani	Mani	Mani	Mani	Mani	Mani
25	912018114302	RAVICHANDRAN R	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi
26	912018114303	SANJAY M	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
27	912018114304	SIVARAJ J	Sivaraj	Sivaraj	Sivaraj	Sivaraj	Sivaraj	Sivaraj
28	912018114701	KABILAN K	Kabilan	Kabilan	Kabilan	Kabilan	Kabilan	Kabilan
29	912018114702	LANKESHWARAN B	Lankesh	Lankesh	Lankesh	Lankesh	Lankesh	Lankesh
30	912018114703	VENKATESH K	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh

Tea Break FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch Break 12:15 pm to 01:00pm

Course Coordinator

M. Lakshmi  
HOD/MECH,

PRINCIPAL

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Student Attendance Sheet

Academic Year : 2021-2022

Course Code : VACME2122OPCNC

Course Name : OPERATIONS & PROGRAMMING IN CNC

Duration of hours : 35

Period of Course : 01.12.2021 to 06.12.2021

Attendance Sheet			Date: 02.12.21					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912018114002	AZHAGUMANIKANDAN A	Azhagan	Azhagan	Azhagan	Azhagan	Azhagan	Azhagan
2	912018114003	BALAMURUGAN R	R.Bala	R.Bala	R.Bala	R.Bala	R.Bala	R.Bala
3	912018114004	BHARATH M	Bha	Bha	Bha	Bha	Bha	Bha
4	912018114005	DINESH MAPPILLAI DURAI SV	Dmsv	Dmsv	Dmsv	Dmsv	Dmsv	Dmsv
5	912018114007	GUNA K	Guna	Guna	Guna	Guna	Guna	Guna
6	912018114008	HARIHARAN G	Hari	Hari	Hari	Hari	Hari	Hari
7	912018114009	INDHIRA KUMAR G	Indira	Indira	Indira	Indira	Indira	Indira
8	912018114010	JAYSHANKAR YADAV	Jyada	Jyada	Jyada	Jyada	Jyada	Jyada
9	912018114011	KARTHIK PRASANNA G	Karthi	Karthi	Karthi	Karthi	Karthi	Karthi
10	912018114012	MANI PRABHU K	Mani	Mani	Mani	Mani	Mani	Mani
11	912018114013	MANOJ S	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
12	912018114014	MOHAN R	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan
13	912018114015	MUNIYASAMY B	Muni	Muni	Muni	Muni	Muni	Muni
14	912018114016	MUTHUKUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
15	912018114017	MUTHU KUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
16	912018114019	MUTHURAJA V	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
17	912018114020	PRAVEEN KUMAR K	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen
18	912018114021	PREM K	Prem	Prem	Prem	Prem	Prem	Prem
19	912018114022	SANTHANA SELVAM V	Santha	Santha	Santha	Santha	Santha	Santha
20	912018114025	SETHUMADHAVAN B	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu
21	912018114026	SIVASANKAR P	Siva	Siva	Siva	Siva	Siva	Siva
22	912018114027	VARUN CHAKKARAVARTHI T	Varun	Varun	Varun	Varun	Varun	Varun
23	912018114028	VASANTH N	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth
24	912018114301	MANIKANDAN S	Mani	Mani	Mani	Mani	Mani	Mani
25	912018114302	RAVICHANDRAN R	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi
26	912018114303	SANJAY M	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
27	912018114304	SIVARAJ J	Siva	Siva	Siva	Siva	Siva	Siva
28	912018114701	KABILAN K	Kabi	Kabi	Kabi	Kabi	Kabi	Kabi
29	912018114702	LANKESHWARAN B	Lanka	Lanka	Lanka	Lanka	Lanka	Lanka
30	912018114703	VENKATESH K	Venka	Venka	Venka	Venka	Venka	Venka

Tea Break FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch Break 12:15 pm to 01:00pm

Course Coordinator

HOD/MECH,

PRINCIPAL

Student Attendance Sheet

Academic Year : 2021-2022

Course Code : VACME2122OPCNC

Course Name : OPERATIONS & PROGRAMMING IN CNC

Duration of hours : 35

Period of Course : 01.12.2021 to 06.12.2021

Attendance Sheet			Date: 03.12.21					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912018114002	AZHAGUMANIKANDAN A	Azhagan	Azhagan	Azhagan	Azhagan	Azhagan	Azhagan
2	912018114003	BALAMURUGAN R	R.Balan	R.Balan	R.Balan	R.Balan	R.Balan	R.Balan
3	912018114004	BHARATH M	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath
4	912018114005	DINESH MAPPILLAI DURAI SV	DMSV	DMSV	DMSV	DMSV	DMSV	DMSV
5	912018114007	GUNA K	Gunk	Gunk	Gunk	Gunk	Gunk	Gunk
6	912018114008	HARIHARAN G	Haran	Haran	Haran	Haran	Haran	Haran
7	912018114009	INDHIRA KUMAR G	I.K	I.K	I.K	I.K	I.K	I.K
8	912018114010	JAYSHANKAR YADAV	Jyshan	Jyshan	Jyshan	Jyshan	Jyshan	Jyshan
9	912018114011	KARTHIK PRASANNA G	Karthik	Karthik	Karthik	Karthik	Karthik	Karthik
10	912018114012	MANI PRABHU K	Mani	Mani	Mani	Mani	Mani	Mani
11	912018114013	MANOJ S	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
12	912018114014	MOHAN R	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan
13	912018114015	MUNIASAMY B	Muni	Muni	Muni	Muni	Muni	Muni
14	912018114016	MUTHUKUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
15	912018114017	MUTHU KUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
16	912018114019	MUTHURAJA V	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
17	912018114020	PRAVEEN KUMAR K	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen
18	912018114021	PREM K	Prem	Prem	Prem	Prem	Prem	Prem
19	912018114022	SANTHANA SELVAM V	Selva	Selva	Selva	Selva	Selva	Selva
20	912018114025	SETHUMADHAVAN B	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu
21	912018114026	SIVASANKAR P	Siva	Siva	Siva	Siva	Siva	Siva
22	912018114027	VARUN CHAKKARAVARTHI T	Varun	Varun	Varun	Varun	Varun	Varun
23	912018114028	VASANTH N	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth
24	912018114301	MANIKANDAN S	Mani	Mani	Mani	Mani	Mani	Mani
25	912018114302	RAVICHANDRAN R	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi
26	912018114303	SANJAY M	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
27	912018114304	SIVARAJ J	Sivaraj	Sivaraj	Sivaraj	Sivaraj	Sivaraj	Sivaraj
28	912018114701	KABILAN K	Kabilan	Kabilan	Kabilan	Kabilan	Kabilan	Kabilan
29	912018114702	LANKESHWARAN B	Lankesh	Lankesh	Lankesh	Lankesh	Lankesh	Lankesh
30	912018114703	VENKATESH K	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh

Tea Break FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch Break 12:15 pm to 01:00pm

Course Coordinator

HOD/MECH,

PRINCIPAL

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Student Attendance Sheet

Academic Year : 2021-2022

Course Code : VACME2122OPCNC

Course Name : OPERATIONS & PROGRAMMING IN CNC

Duration of hours : 35

Period of Course : 01.12.2021 to 06.12.2021

Attendance Sheet			Date: 06.12.21					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912018114002	AZHAGUMANIKANDAN A	Azhagan	Azhagan	Azhagan	Azhagan	Azhagan	Azhagan
2	912018114003	BALAMURUGAN R	R.Balan	R.Balan	R.Balan	R.Balan	R.Balan	R.Balan
3	912018114004	BIARATHI M	Bharathi	Bharathi	Bharathi	Bharathi	Bharathi	Bharathi
4	912018114005	DINESH MAPPILLAI DURAISV	DMSV	DMSV	DMSV	DMSV	DMSV	DMSV
5	912018114007	GUNA K	Guna	Guna	Guna	Guna	Guna	Guna
6	912018114008	HARIHARAN G	Hariharan	Hariharan	Hariharan	Hariharan	Hariharan	Hariharan
7	912018114009	INDHIRA KUMAR G	Indhira	Indhira	Indhira	Indhira	Indhira	Indhira
8	912018114010	JAYSHANKAR YADAV	Jayshankar	Jayshankar	Jayshankar	Jayshankar	Jayshankar	Jayshankar
9	912018114011	KARTHIK PRASANNA G	Karthik	Karthik	Karthik	Karthik	Karthik	Karthik
10	912018114012	MANI PRABHU K	Mani	Mani	Mani	Mani	Mani	Mani
11	912018114013	MANOJ S	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
12	912018114014	MOHAN R	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan
13	912018114015	MUNIASAMY B	Muni	Muni	Muni	Muni	Muni	Muni
14	912018114016	MUTHUKUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
15	912018114017	MUTHU KUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
16	912018114019	MUTHURAJA V	V.muthu	V.muthu	V.muthu	V.muthu	V.muthu	V.muthu
17	912018114020	PRAVEEN KUMAR K	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen
18	912018114021	PREM K	Prem	Prem	Prem	Prem	Prem	Prem
19	912018114022	SANTHANA SELVAM V	Selva	Selva	Selva	Selva	Selva	Selva
20	912018114025	SETHUMADHAVAN B	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu
21	912018114026	SIVASANKAR P	Siva	Siva	Siva	Siva	Siva	Siva
22	912018114027	VARUN CHAKKARAVARTHI T	T.varun	T.varun	T.varun	T.varun	T.varun	T.varun
23	912018114028	VASANTH N	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth
24	912018114301	MANIKANDAN S	Mani	Mani	Mani	Mani	Mani	Mani
25	912018114302	RAVICHANDRAN R	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi
26	912018114303	SANJAY M	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
27	912018114304	SIVARAJ J	Siva	Siva	Siva	Siva	Siva	Siva
28	912018114701	KABILAN K	Kabilan	Kabilan	Kabilan	Kabilan	Kabilan	Kabilan
29	912018114702	LANKESHWARAN B	Lankesh	Lankesh	Lankesh	Lankesh	Lankesh	Lankesh
30	912018114703	VENKATESH K	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh

Tea Break FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch Break 12:15 pm to 01:00pm

Course coordinator

HOD/MECH,

PRINCIPAL

R RAJA

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RAJA

Date: 2024.06.27

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Student Attendance Sheet

Academic Year : 2021-2022

Course Code : VACME2122OPCNC

Course Name : OPERATIONS & PROGRAMMING IN CNC

Duration of hours : 35

Period of Course : 01.12.2021 to 06.12.2021

Attendance Sheet			Date: 05-12-21					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912018114002	AZHAGUMANIKANDAN A	Azhagan	Azhagan	Azhagan	Azhagan	Azhagan	Azhagan
2	912018114003	BALAMURUGAN R	R.Balan	R.Balan	R.Balan	R.Balan	R.Balan	R.Balan
3	912018114004	BHARATH M	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath
4	912018114005	DINESH MAPPILLAI DURAISV	Dmsu	Dmsu	Dmsu	Dmsu	Dmsu	Dmsu
5	912018114007	GUNA K	Guna	Guna	Guna	Guna	Guna	Guna
6	912018114008	HARIHARAN G	Hari	Hari	Hari	Hari	Hari	Hari
7	912018114009	INDHIRA KUMAR G	Indhira	Indhira	Indhira	Indhira	Indhira	Indhira
8	912018114010	JAYSHANKAR YADAV	Jyash	Jyash	Jyash	Jyash	Jyash	Jyash
9	912018114011	KARTHIK PRASANNA G	Karthik	Karthik	Karthik	Karthik	Karthik	Karthik
10	912018114012	MANI PRABHU K	Mani	Mani	Mani	Mani	Mani	Mani
11	912018114013	MANOJ S	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
12	912018114014	MOHAN R	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan
13	912018114015	MUNIASAMY B	Muni	Muni	Muni	Muni	Muni	Muni
14	912018114016	MUTHUKUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
15	912018114017	MUTHU KUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
16	912018114019	MUTHURAJA V	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
17	912018114020	PRAVEEN KUMAR K	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen
18	912018114021	PREM K	Prem	Prem	Prem	Prem	Prem	Prem
19	912018114022	SANTHANA SELVAM V	Santha	Santha	Santha	Santha	Santha	Santha
20	912018114025	SETHUMADHAVAN B	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu
21	912018114026	SIVASANKAR P	Siva	Siva	Siva	Siva	Siva	Siva
22	912018114027	VARUN CHAKKARAVARTHI T	Varun	Varun	Varun	Varun	Varun	Varun
23	912018114028	VASANTH N	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth
24	912018114301	MANIKANDAN S	Mani	Mani	Mani	Mani	Mani	Mani
25	912018114302	RAVICHANDRAN R	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi
26	912018114303	SANJAY M	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
27	912018114304	SIVARAJ J	Siva	Siva	Siva	Siva	Siva	Siva
28	912018114701	KABILAN K	Kabi	Kabi	Kabi	Kabi	Kabi	Kabi
29	912018114702	LANKESHWARAN B	Lankesh	Lankesh	Lankesh	Lankesh	Lankesh	Lankesh
30	912018114703	VENKATESH K	Venka	Venka	Venka	Venka	Venka	Venka

Tea Break FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch Break 12:15 pm to 01:00pm

Course Coordinator

HOD/MECH,

PRINCIPAL

R RAJA

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by R RAJA  
Date: 2024.06.27  
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Student Attendance Sheet

Academic Year : 2021-2022

Course Code : VACME2122OPCNC

Course Name : OPERATIONS & PROGRAMMING IN CNC

Duration of hours : 35

Period of Course : 01.12.2021 to 06.12.2021

Attendance Sheet			Date: 06.12.21					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912018114002	AZHAGUMANIKANDAN A	Azhagan	Azhagan	Azhagan	Azhagan	Azhagan	Azhagan
2	912018114003	BALAMURUGAN R	R.Bala	R.Bala	R.Bala	R.Bala	R.Bala	R.Bala
3	912018114004	BHARATH M	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath
4	912018114005	DINESH MAPPILLAI DURAI SV	Dmsu	Dmsu	Dmsu	Dmsu	Dmsu	Dmsu
5	912018114007	GUNA K	Guna	Guna	Guna	Guna	Guna	Guna
6	912018114008	HARIHARAN G	Hariharan	Hariharan	Hariharan	Hariharan	Hariharan	Hariharan
7	912018114009	INDHIRA KUMAR G	Indhira	Indhira	Indhira	Indhira	Indhira	Indhira
8	912018114010	JAYSHANKAR YADAV	Jyadav	Jyadav	Jyadav	Jyadav	Jyadav	Jyadav
9	912018114011	KARTHIK PRASANNA G	Karthik	Karthik	Karthik	Karthik	Karthik	Karthik
10	912018114012	MANI PRABHU K	Mani	Mani	Mani	Mani	Mani	Mani
11	912018114013	MANOJ S	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
12	912018114014	MOHAN R	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan
13	912018114015	MUNYASAMY B	Munyasamy	Munyasamy	Munyasamy	Munyasamy	Munyasamy	Munyasamy
14	912018114016	MUTHUKUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
15	912018114017	MUTHU KUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
16	912018114019	MUTHURAJA V	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
17	912018114020	PRAVEEN KUMAR K	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen
18	912018114021	PREM K	Prem	Prem	Prem	Prem	Prem	Prem
19	912018114022	SANTHANA SELVAM V	Selvam	Selvam	Selvam	Selvam	Selvam	Selvam
20	912018114025	SETHUMADHAVAN B	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu
21	912018114026	SIVASANKAR P	Siva	Siva	Siva	Siva	Siva	Siva
22	912018114027	VARUN CHAKKARAVARTHI T	T.Varun	T.Varun	T.Varun	T.Varun	T.Varun	T.Varun
23	912018114028	VASANTH N	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth
24	912018114301	MANIKANDAN S	Mani	Mani	Mani	Mani	Mani	Mani
25	912018114302	RAVICHANDRAN R	Ravichandran	Ravichandran	Ravichandran	Ravichandran	Ravichandran	Ravichandran
26	912018114303	SANJAY M	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
27	912018114304	SIVARAJ J	Sivaraj	Sivaraj	Sivaraj	Sivaraj	Sivaraj	Sivaraj
28	912018114701	KABILAN K	Kabilan	Kabilan	Kabilan	Kabilan	Kabilan	Kabilan
29	912018114702	LANKESHWARAN B	Lankeshwaran	Lankeshwaran	Lankeshwaran	Lankeshwaran	Lankeshwaran	Lankeshwaran
30	912018114703	VENKATESH K	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh

Tea Break FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch Break 12:15 pm to 01:00pm

Course Coordinator

M. Prabhakaran  
HOD/MECH,

PRINCIPAL

R RAJA

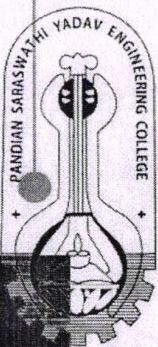
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RAJA

Date: 2024.06.27

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CERTIFICATES



# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

Approved by AICTE & Affiliated to Anna University, Chennai.

Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu - 630 561

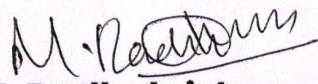
## Value added course on Operations & Programming In CNC


Organized by

**DEPARTMENT OF MECHANICAL ENGINEERING**

# CERTIFICATE

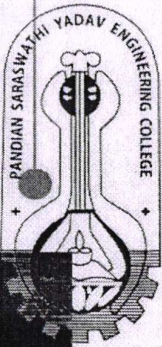
This is to Certify that Mr/Ms.....R. Mohan..... of IV - VII SEM-MECH  
has actively participated in the value-added course on **Operations & Programming  
In CNC** organized by the Department of Mechanical Engineering From 01.12.2021 to  
06.12.2021 (35 Hours) at Pandian Saraswathi Yadav Engineering College, Sivagangai.

  
**Mr. M. Radhakrishnan**  
HOD/MECH

  
**Dr.R. Raja**  
Principal

**R RAJA**

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RAJA  
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# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

Approved by AICTE & Affiliated to Anna University, Chennai.

Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu – 630 561

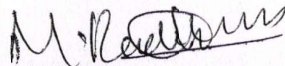
## Value added course on Operations & Programming In CNC

Organized by


DEPARTMENT OF MECHANICAL ENGINEERING

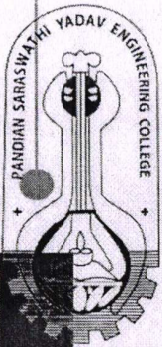
# CERTIFICATE

This is to Certify that Mr/Ms. S. MANOJ of IV - MECH  
has actively participated in the value-added course on **Operations & Programming  
In CNC** organized by the Department of Mechanical Engineering From 01.12.2021 to  
06.12.2021 (35 Hours) at Pandian Saraswathi Yadav Engineering College, Sivagangai.

  
**Mr. M. Radhakrishnan**  
HOD/MECH

**R RAJA**  
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by R RAJA  
Date: 2024.06.27  
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**Dr. R. Raja**  
Principal



# PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

Approved by AICTE & Affiliated to Anna University, Chennai.

Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu - 630 561

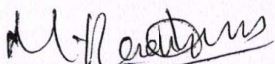
## Value added course on Operations & Programming In CNC

Organized by

**DEPARTMENT OF MECHANICAL ENGINEERING**


# CERTIFICATE

This is to Certify that Mr/Ms.....CT. HART HARAN..... of .....IV - MECH.....  
has actively participated in the value-added course on **Operations & Programming  
In CNC** organized by the Department of Mechanical Engineering From 01.12.2021 to  
06.12.2021 (35 Hours) at Pandian Saraswathi Yadav Engineering College, Sivagangai.

  
**Mr. M. Radhakrishnan**  
HOD/MECH

**R RAJA**

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by R RAJA  
Date: 2024.06.27  
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**Dr. R. Raja**  
Principal