

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 2019-2020

**VACME1920FC- Free CAD**

### OBJECTIVE OF THE COURSE

- This course will introduce the student to the entry level CAD applications of free CAD software
- To provide "hands-on" experience to create 3D Models of Basic Parts and Assemblies

**MODULE-1 INTRODUCTION 7**  
Introduction for Free Cad-Basic Preference-Basic Tools and Techniques- Define Constraints- Customizing Workbenches

**MODULE-2 2D MODELING 7**  
2D drawing setting up- Tech Draw workbench- Convert a 2D Sketch into 3D Model- Manage and collaborate remotely with cloud.

**MODULE-3 3D MODELING 7**  
**Part Workbench-** Draft workbench- Part Design workbench- Sketcher workbench- Import and export Files in Free CAD- Material, Texture & Rendering in Free CAD- 3D Printing in Free CAD

**MODULE-4 ASSEMBLY 7**  
Parametric part modeling- Model Locating finger -A2 Plus Workbench- Assembly Workbench- Insert Fasteners in Free CAD Assembly- Exploded view in Free CAD

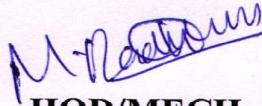
**MODULE-5 3D MODELING PROJECTS 7**  
Model Compression spring- Pipe and flange design- Sheet metal part design- Model Gear-Surface Design- Model Index Slide- STL File- Model helical thread- Model gear pump body- Model chuck jaw- Convert DXF into 3D

**Total:35 Hours**

### OUTCOMES

- After the completion of the course,
- Students will be able will create a 3D and model Multiview drawings
- Students will be able to explain the need, relevancy and application of Free CAD

  
Course coordinator

  
HOD/MECH

  
PRINCIPAL

Digitally signed by  
R RAJA  
Date: 2024.06.26  
18:10:18 +05'30'





# 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 2019-2020

**VACME1920FC- Free Cad**


### Course Schedule

Date	Time	TOPICS
04/12/2019	9.00 am to 12.15 pm	Introduction for Free Cad-Basic Preference-Basic Tools and Techniques- Define Constraints-Customizing Workbenches
	1.00 pm to 4.15 pm	
05/12/2019	9.00 am to 12.15 pm	2D drawing setting up- Tech Draw workbench- Convert a 2D Sketch into 3D Model- Manage and collaborate remotely with cloud.
	1.00 pm to 4.15 pm	
06/12/2019	9.00 am to 12.15 pm	Part Workbench- Draft workbench- Part Design workbench- Sketcher workbench- Import and export Files in FreeCAD
	1.00 pm to 4.15 pm	
07/12/2019	9.00 am to 12.15 pm	Material, Texture & Rendering in FreeCAD- 3D Printing in Free CAD, Practice
	1.00 pm to 4.15 pm	
08/12/2019	9.00 am to 12.15 pm	Parametric part modeling- Model Locating finger -A2 Plus Workbench- Assembly 4 Workbench- Insert Fasteners in FreeCAD Assembly- Exploded view in FreeCAD
	1.00 pm to 4.15 pm	
09/12/2019	9.00 am to 12.15 pm	Model Compression spring- Pipe and flange design- Sheet metal part design- Model Gear- Surface Design- Model Index Slide- STL File- Model helical thread- Model gear pump body- Model chuck jaw- Convert DXF into 3D
	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

R

RAJA

Digitally signed  
by R RAJA  
Date: 2024.06.26  
18:10:30 +05'30'





# 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 2019-2020

### One page Report

<b>Name of the course</b>	: <b>Free CAD</b>
<b>Course Code</b>	: <b>VACME1920FC</b>
<b>Resource Person</b>	: Mr. N. Shanmugam Electro Mechanical Designer Embien Technologies (India) Private Limited Madurai
<b>Course Coordinator</b>	: Dr. S. Rajamuneeswaran
<b>Date/Duration</b>	: 04.12.2019-09.12.2019— 35 hours

I here affirm that the second-year students of strength 30 have been taught the value-added course title “Free CAD” as per the syllabus and completed within the stipulated time duration.

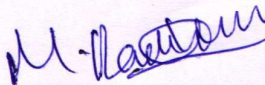
I confirm that the value-added course titled “Free CAD” has been conducted in the beginning of the semester and course delivery along with the attendance of the students was recorded.

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

  
Dr. S. Rajamuneeswaran


ASP/MECH

Course Co-Ordinator

  
Mr. M. Radhakrishnan.,

ASP/MECH

Head of the Department

  
Dr. R. Raja  
Principal

R

RAJA

Digitally signed

by R RAJA

Date:

2024.06.26

18:11:35 +05'30'



# ASSESSMENT PROCEDURE





# 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 2019-2020

VACME1920FC- Free Cad

### Assessment Questions with Answer

1. In Cartesian coordinate system, the \_\_\_ axis is vertical.
  - a) X
  - b) Y
  - c) Z
  - d) W
2. Minor axis and major axis must be specified in order to draw a(n) \_\_\_\_\_.
  - a) **ellipse**
  - b) line
  - c) chamfer
  - d) circle
3. What does the command Fillet do?
  - a) Straightens an angle
  - b) **Curves an angle**
  - c) Deletes an angle
  - d) All of above
4. The shortcut command key for UNDO.
  - a) CTRL+C
  - b) **CTRL+Z**
  - c) CTRL+CU
  - d) CTRL+CHA
5. This type of triangle has TWO equal sides? \_\_\_\_\_.
  - a) Move
  - b) Trim
  - c) **Extend**
  - d) Scale
6. What a phantom line used for?
  - a) **To show an alternate position**
  - b) To represent a line of symmetry
  - c) To represent an edge not visible
  - d) To eliminate a section of drawing not needed because of size

R RAJA

Digitally signed  
by R RAJA  
Date: 2024.06.26  
18:10:52 +05'30'





# 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

7. The \_\_\_ command provides the length of an object but does not place a dimension line on the drawing?

- a) Annotate
- b) Leader
- c) Baseline
- d) **Distance**

8. Free CAD commands such as LINE, CIRCLE, and ARC and other basic CAD figures are examples of \_\_\_\_\_

- a) Modify commands
- b) Edit commands
- c) **Draw commands.**
- d) None of the above

9. When a layer is turned off \_\_\_\_\_

- a) It makes no real difference. Details can still be added to the layer
- b) **Details on the layer cannot be seen**
- c) File space is saved when saving the file
- d) Details cannot be erased from the layer

10. What a break line used for?

- a) To show an alternate position
- b) To represent an edge not visible
- c) To represent a line of symmetry
- d) **To eliminate a section of drawing not needed because of size**

R

RAJA

Digitally signed

by R RAJA

Date: 2024.06.26

18:11:02 +05'30'





# 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 2019-2020

**VACME1920FC- Free Cad**

Assessment Test Paper

REGISTER NUMBER: 912018114003

NAME OF THE STUDENT: Balamurugan.R

8/10

1. In Cartesian coordinate system, the \_\_\_ axis is vertical.
  - a) X
  - b) Y
  - c) Z
  - d) W
2. Minor axis and major axis must be specified in order to draw a(n) \_\_\_\_\_.
  - a) ellipse
  - b) line
  - c) chamfer
  - d) circle
3. What does the command Fillet do?
  - a) Straightens an angle
  - b) Curves an angle
  - c) Deletes an angle
  - d) All of above
4. The shortcut command key for UNDO.
  - a) CTRL+C
  - b) CTRL+Z
  - c) CTRL+CU
  - d) CTRL+CHA
5. This type of triangle has TWO equal sides? \_\_\_\_\_.
  - a) Move
  - b) Trim
  - c) Extend
  - d) Scale
6. What a phantom line used for?
  - a) To show an alternate position
  - b) To represent a line of symmetry





# 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

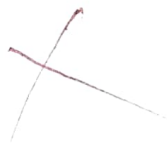
7. The \_\_\_ command provides the length of an object but does not place a dimension line on the drawing?

- a) Annotate
- b) Leader
- c) Baseline
- d)  Distance



8. Free CAD commands such as LINE, CIRCLE, and ARC and other basic CAD figures are examples of \_\_\_\_\_

- a) Modify commands
- b)  Edit commands
- c) Draw commands.
- d) None of the above

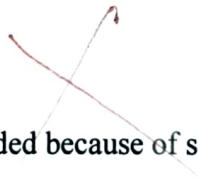


9. When a layer is turned off \_\_\_\_\_

- a) It makes no real difference. Details can still be added to the layer
- b)  Details on the layer cannot be seen
- c) File space is saved when saving the file
- d) Details cannot be erased from the layer

10. What a break line used for?

- a) To show an alternate position
- b) To represent an edge not visible
- c)  To represent a line of symmetry
- d) To eliminate a section of drawing not needed because of size





Pandian Saraswathi yadav Engineering College, Arasanoor -630561

Department of Mechanical Engineering

**Student Performance Sheet**

Academic Year : 2019-2020

Course Code : VACME1920FC

Course Name : Free Cad

Duration of hours : 35

Period of Course : 04.12.2019 to 09.12.2019

Assessment Marks			Marks
Sl. No	Register Number	Student Name	
1	912018114002	AZHAGUMANIKANDAN A	86
2	912018114003	BALAMURUGAN R	80
3	912018114004	BHARATH M	84
4	912018114005	DINESH MAPPILLAI DURAI SV	86
5	912018114007	GUNA K	85
6	912018114008	HARIHARAN G	88
7	912018114009	INDHIRA KUMAR G	94
8	912018114010	JAYSHANKAR YADAV	90
9	912018114011	KARTHIK PRASANNA G	92
10	912018114012	MANI PRABHU K	91
11	912018114013	MANOJ S	95
12	912018114014	MOHAN R	94
13	912018114015	MUNIASAMY B	92
14	912018114016	MUTHUKUMAR M	93
15	912018114017	MUTHU KUMAR M	92
16	912018114019	MUTHURAJA V	78
17	912018114020	PRAVEEN KUMAR K	74
18	912018114021	PREM K	79
19	912018114022	SANTHANA SELVAM V	80
20	912018114025	SETHUMADHAVAN B	82
21	912018114026	SIVASANKAR P	84
22	912018114027	VARUN CHAKKARAVARTHI T	85
23	912018114028	VASANTH N	80
24	912018114301	MANIKANDAN S	82
25	912018114302	RAVICHANDRAN R	84
26	912018114303	SANJAY M	85
27	912018114304	SIVARAJ J	86
28	912018114701	KABILAN K	87
29	912018114702	LANKESHWARAN B	90
30	912018114703	VENKATESH K	92

Course coordinator HOD/MECH

PRINCIPAL

Digitally signed by  
R RAJA  
Date: 2024.06.26  
18:14:01 +05'30'



# STUDENTS ATTENDANCE



Student Attendance Sheet

Academic Year : 2019-2020

Course Code : VACME1920FC

Course Name : Free Cad

Duration of hours : 35

Period of Course : 04.12.2019 to 09.12.2019

Attendance Sheet			Date: 04/12/2019					
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	Azhag	Azhag	Azhag	Azhag	Azhag	Azhag
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	Dmsv	Dmsv	Dmsv	Dmsv	Dmsv	Dmsv
5	912018114007	GUNA K	Guna	Guna	Guna	Guna	Guna	Guna
6	912018114008	HARIHARAN G	Hara	Hara	Hara	Hara	Hara	Hara
7	912018114009	INDHIRA KUMAR G	M	M	M	M	M	M
8	912018114010	JAYSHANKAR YADAV	Jyank	Jyank	Jyank	Jyank	Jyank	Jyank
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	Muni	Muni	Muni	Muni	Muni	Muni
14	912018114016	MUTHUKUMAR M	Mk	Mk	Mk	Mk	Mk	Mk
15	912018114017	MUTHU KUMAR M	Mk	Mk	Mk	Mk	Mk	Mk
16	912018114019	MUTHURAJA V	Muthu Raja	Muthu Raja	Muthu Raja	Muthu Raja	Muthu Raja	Muthu Raja
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	Sant	Sant	Sant	Sant	Sant	Sant
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	Tvarun	Tvarun	Tvarun	Tvarun	Tvarun	Tvarun
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	Lank	Lank	Lank	Lank	Lank	Lank
30	912018114703	VENKATESH K	Venk	Venk	Venk	Venk	Venk	Venk

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 : 2019-2020

Course Code : VACME1920FC

Course Name : Free Cad

Duration of hours : 35

Period of Course : 04.12.2019 to 09.12.2019

Attendance Sheet			Date: 05.12.2019					
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	Azhag	Azhag	Azhag	Azhag	Azhag	Azhag
2	912018114003	BALAMURUGAN R	R.Balagan	R.Balagan	R.Balagan	R.Balagan	R.Balagan	R.Balagan
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	Hare	Hare	Hare	Hare	Hare	Hare
7	912018114009	INDHIRA KUMAR G	In	In	In	In	In	In
8	912018114010	JAYSHANKAR YADAV	Jyade	Jyade	Jyade	Jyade	Jyade	Jyade
9	912018114011	KARTHIK PRASANNA G	Karthik	Karthik	Karthik	Karthik	Karthik	Karthik
10	912018114012	MANI PRABHU K	Manp	Manp	Manp	Manp	Manp	Manp
11	912018114013	MANOJ S	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
12	912018114014	MOHAN R	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan
13	912018114015	MUNIYASAMY B	Mj	Mj	Mj	Mj	Mj	Mj
14	912018114016	MUTHUKUMAR M	Me	Me	Me	Me	Me	Me
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	Sant	Sant	Sant	Sant	Sant	Sant
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	Tvarun	Tvarun	Tvarun	Tvarun	Tvarun	Tvarun
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	Kabi	Kabi	Kabi	Kabi	Kabi	Kabi
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



Student Attendance Sheet

Academic Year : 2019-2020

Course Code : VACME1920FC

Course Name : Free Cad

Duration of hours : 35

Period of Course : 04.12.2019 to 09.12.2019

Attendance Sheet			Date: 05/12/2019					
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.Balamurugan	R.Balamurugan	R.Balamurugan	R.Balamurugan	R.Balamurugan	R.Balamurugan
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	Guna	Guna	Guna	Guna	Guna	Guna
6	912018114008	HARIHARAN G	Haran	Haran	Haran	Haran	Haran	Haran
7	912018114009	INDHIRA KUMAR G	Indhira	Indhira	Indhira	Indhira	Indhira	Indhira
8	912018114010	JAYSHANKAR YADAV	Jyala	Jyala	Jyala	Jyala	Jyala	Jyala
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	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	Sant	Sant	Sant	Sant	Sant	Sant
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	Tvarun	Tvarun	Tvarun	Tvarun	Tvarun	Tvarun
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

Digitally signed by R RAJA  
Date: 2024.06.26  
18:12:54 +05'30'



Student Attendance Sheet

Academic Year : 2019-2020

Course Code : VACME1920FC

Course Name : Free Cad

Duration of hours : 35

Period of Course : 04.12.2019 to 09.12.2019

Attendance Sheet			Date: 07.12.2019					
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	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	MUNIYASAMY B	Muniyasamy	Muniyasamy	Muniyasamy	Muniyasamy	Muniyasamy	Muniyasamy
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	Muthuraja	Muthuraja	Muthuraja	Muthuraja	Muthuraja	Muthuraja
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	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	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

HOD/MECH

PRINCIPAL

R RAJA

Digitally signed by R RAJA  
Date: 2024.06.26  
18:13:06 +05'30'



Student Attendance Sheet

Academic Year : 2019-2020

Course Code : VACME1920FC

Course Name : Free Cad

Duration of hours : 35

Period of Course : 04.12.2019 to 09.12.2019

Attendance Sheet			Date: 08.12.2019					
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	Azh	Azh	Azh	Azh	Azh	Azh
2	912018114003	BALAMURUGAN R	R.Balam	R.Balam	R.Balam	R.Balam	R.Balam	R.Balam
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	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	MUNIYASAMY B	Muniyasamy	Muniyasamy	Muniyasamy	Muniyasamy	Muniyasamy	Muniyasamy
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	Santhana	Santhana	Santhana	Santhana	Santhana	Santhana
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	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

HOD/MECH

PRINCIPAL

R RAJA

Digitally signed by R. RAJA  
Date: 2024.06.26  
18:13:20 +05'30'



Student Attendance Sheet

Academic Year : 2019-2020

Course Code : VACME1920FC

Course Name : Free Cad

Duration of hours : 35

Period of Course : 04.12.2019 to 09.12.2019

Attendance Sheet			Date: 09.12.2019					
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	Azhag	Azhag	Azhag	Azhag	Azhag	Azhag
2	912018114003	BALAMURUGAN R	R.Balas	R.Balas	R.Balas	R.Balas	R.Balas	R.Balas
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	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	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	MUNIYASAMY B	Muniyasamy	Muniyasamy	Muniyasamy	Muniyasamy	Muniyasamy	Muniyasamy
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	Santhana	Santhana	Santhana	Santhana	Santhana	Santhana
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	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. Rajarajam  
HOD/MECH

Principal

Enrollment  
Student Name  
List



Pandian Saraswathi yadav Engineering College, Arasanoor -630561

Department of Mechanical Engineering

**Student Registration Sheet**

Academic Year : 2019-2020

Course Code : VACME1920FC

Course Name : Free Cad

Duration of hours : 35

Period of Course : 04.12.2019 to 09.12.2019

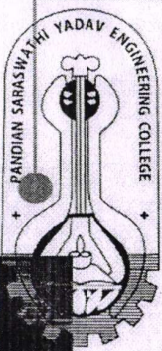
Enrolled Students List			Signature
Sl. No	Register Number	Student Name	
1	912018114002	AZHAGUMANIKANDAN A	Azhagumanikandan A
2	912018114003	BALAMURUGAN R	R. Balamurugan
3	912018114004	BHARATH M	BHARATH M
4	912018114005	DINESH MAPPILLAI DURAI	Dinesh mappillai Durai SV
5	912018114007	GUNA K	Guna K.
6	912018114008	HARIHARAN G	HARIHARAN G
7	912018114009	INDHIRA KUMAR G	Indhira Kumar
8	912018114010	JAYSHANKAR YADAV	Jayashankar yadav
9	912018114011	KARTHIK PRASANNA G	KARTHIK PRASANNA G
10	912018114012	MANI PRABHU K	Mani prabhuk
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	V. Muthu Raja
17	912018114020	PRAVEEN KUMAR K	Praveen kumar
18	912018114021	PREM K	Prema K
19	912018114022	SANTHANA SELVAM V	Santhana Selvam
20	912018114025	SETHUMADHAVAN B	Sethumadhavan B
21	912018114026	SIVASANKAR P	SIVASANKAR P
22	912018114027	VARUN	Varun Chakravarthi
23	912018114028	VASANTH N	Vasanth
24	912018114301	MANIKANDAN S	MANIKANDAN R
25	912018114302	RAVICHANDRAN R	Ravichandran R
26	912018114303	SANJAY M	M. Sanjay
27	912018114304	SIVARAJ J	SIVARAJI
28	912018114701	KABILAN K	K. Kabilan
29	912018114702	LANKESHWARAN B	Lankeshwaran
30	912018114703	VENKATESH K	venkatesh k.

Course coordinator:  M. Nataraj  
HOD/MECH

PRINCIPAL: 

MODEL  
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

**Free CAD**

Organized by

**DEPARTMENT OF MECHANICAL ENGINEERING**

## CERTIFICATE

This is to Certify that Mr/Ms.....S. Manoj..... of II / III Sem / MECH .  
has actively participated in the value-added course on **Free CAD** organized by the  
Department of Mechanical Engineering From 04.12.2019 to 09.12.2019 (35 Hours) at  
Pandian Saraswathi Yadav Engineering College, Sivagangai.

**Mr. M. Radhakrishnan**

**HOD/MECH**

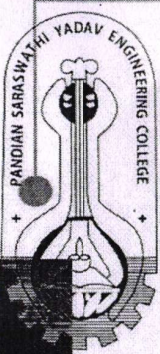
**R RAJA**

Digitally signed by  
R RAJA  
Date: 2024.06.26  
18:11:55 +05'30'

**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

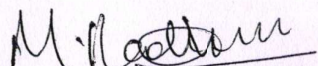
**Free CAD**

Organized by


**DEPARTMENT OF MECHANICAL ENGINEERING**

## CERTIFICATE

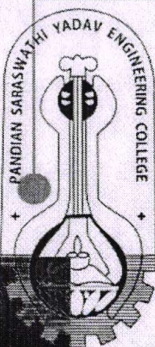
This is to Certify that Mr/Ms.....*R. Bala Murugan*..... of *11/111 Sem /MECH*  
has actively participated in the value-added course on **Free CAD** organized by the  
Department of Mechanical Engineering From 04.12.2019 to 09.12.2019 (35 Hours) at  
Pandian Saraswathi Yadav Engineering College, Sivagangai.

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

**R RAJA**  
Digitally signed  
by R RAJA  
Date: 2024.06.26  
18:12:08 +05'30'

  
**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

**Free CAD**

Organized by

**DEPARTMENT OF MECHANICAL ENGINEERING**

## CERTIFICATE

This is to Certify that Mr/Ms.....K. Guna..... of II/III Sem/MECH  
has actively participated in the value-added course on **Free CAD** organized by the  
Department of Mechanical Engineering From 04.12.2019 to 09.12.2019 (35 Hours) at  
Pandian Saraswathi Yadav Engineering College, Sivagangai.

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

**R RAJA**

Digitally signed  
by R RAJA  
Date: 2024.06.26  
18:12:19 +05'30'

**Dr. R. Raja**  
Principal