

CIRCULAR

Ref No:23-24/Even/VAC/02 Date:15.02.2024

The Department of Mechanical Engineering is conducting a Value-Added Course on "PRODUCTIVE TOOLS IN AUTOCAD" from 02.03.2024 to 07.03.2024 & 10.03.2024. All the interested students requested to register and attend the course.

The invitation is herewith attached.

HOD

Circulated to:	1. All the faculty members
	2. All the students
Copy to	Principal Office
	2. Department Notice Board



Value Added Course ENROLLED STUDENTS LIST

SI. No.	Register Number	Name of the Student	Year
1	3442110501	ANAND KUMAR RAM	III
2	3442110505	DURAIRAI T	III
3	3442110506	KRISHNA BALAJI S	III
4	3442110508	LOGESH A	III
5	3442110509	LOHIDHARSHAN T	III
6	3442110507	RAJAKUMARAN P	III
7	3442110511	SANJEEV KUMAR	III
8	3442110515	SUJEET KUMAR	III
9	3442110313	NAVEEN KUMAR G	III
10	3442124514	SRINIVASAN G	III
11	3442124514	SRIRAM M	III
12	3442220502	BIKASH BASFORE	III
13	3442220502	DHANUSHKUMAR R	III
13 14	3442220504	MOHAMMED ASARAFALI S	III
15	3442220507	PAVAN KUMAR S	III
16	3442220507	RANJITH V	III
17	3442220508	SRINIVASAN S	III
18	3442220510	SUBHAM MAL	III
19	3442220510	VASANTH KUMAR I	III
20	3442253501		III
21	3442253501	MOHAMED AL ASHIM P RIJAS NAINAN D	III
22	3442254501		III
23	3442355501	MUHAMMED AMAN BASIL BENNY	III
23 24			III
25	3442355502	IITHIN JOSEPH	III
	3442355503	MACHANKANTI NAVEEN RAJ	
<u>26</u>	3442355504	MIDHUN THOMAS	III
27	3442355505	SRINIVAS S	III
28	3442355506	VISHNU JITH K V	III
29	3442355507	VISHNU P	III
30	3442355508	YADULDAS KARATHADY	III
31	3441915537	SANTHOSH.A	IV IV
32	3442010504	AKASH KUMAR	
33	3442010506	CHANDAN KUMAR	IV
34	3442010512	RANJAN KUMAR MANDAL	IV
35	3442010515	THARUN KUMAR S	IV
36	3442010516	UDHAYAM K	IV
37	3442010517	VASANTHRAJ R	IV
38	3442010518	VIGNESH R	IV
39	3442010520	YEDDULA DEEKESHWAR REDDY	IV
40	3442120505	GOVARATHAN P	IV
41	3442120506	MADHAN RAJ L	IV
42	3442120507	MANIKANDAN M	IV
43	3442120521	VIGNESH V	IV

44	3442120522	VIJAYAKUMAR A	IV
45	3442120523	YUGENDIRAN S	IV
46	3442154501	VYSHNAV NR	IV
47	3442255501	ABIJITH S	IV
48	3442256501	MOHAMMAD FAVAS C	IV
49	3442357501	ABHIRAM S	IV
50	3442357502	ADIL ABDULLA	IV
51	3442357503	ADIL MEHABOOB	IV
52	3442357504	AJMAL N	IV
53	3442357505	JENSON TEJI	IV
54	3442357506	KAAVIYAN D	IV
55	3442357507	KARTHIK R	IV
56	3442357508	MUHAMMED RAZI BIN SALAM	IV
57	3442357509	NABIL ABDUL JABBAR	IV
58	3442357510	SAIDALI NOWFIN	IV
59	3442357511	SOURAV SREEJITH K M	IV



VALUE ADDED COURSE TIME TABLE

NAME OF THE COURSE: PRODUCTIVE TOOLS IN AUTOCAD COURSE CODE:VA182

	Day			Timing	No.of
Date		Title	Name of the faculty		hours
02.03.2024	Saturday	Introduction to		9.00am-	3
02.03.2024		AUTOCAD	Mr.K.Vijayakumar	12.00pm	
02.03.2024		Title block		12.30pm-	3
02.03.2024	Saturday	layout design	Mr.A.Imthiyas	3.30pm	
03.03.2024		Productivity		9.00am-	3
03.03.2024	Sunday	tools & features	Mr.S.Kalyanakumar	12.00pm	
03.03.2024	Sunday	Wireframe and surface modelling	Mr.P.Kumaran	12.30pm- 3.30pm	3
04.03.2024	Monday	Interface, Structure and commands	Mr.S.Sathiyaraj	3.30pm- 5.30pm	3
05.03.2024	Tuesday	Solid modelling	Mr.B.SelvaBabu	3.30pm- 5.30pm	3
06.03.2024	Wednesday	2 dimensional & 3-dimensional modelling	Mr.G.Antony Casmir	3.30pm- 5.30pm	3
07.03.2024	Thursday	Production drawing	Mr.A.Elanthiraiyan	3.30pm- 5.30pm	3
10.03.2024	Sunday	Assembly drawing	Dr.S.Prakash	9.00am- 12.00pm	3
10.03.2024	Sunday	Introduction to Solidworks, Ansys & Test	Mr.K.Vijayakumar	12.30pm- 3.30pm	3

Total=30 hours



VALUE ADDED COURSE TITLE : PRODUCTIVE TOOLS IN

AUTOCAD

VALUE ADDED COURSE CODE: VA182

FACULTY : Engineering

COURSE HOURS : 30

Preamble

To impart knowledge to the students on the basics of AutoCAD Mechanical and describe AutoCAD Mechanical productivity tools and ways to use the productivity tools for basic CAD practices.

Course	Course Outcomes: On the successful completion of the course, students will be able to														
CO1.	Und	Understand the basics of Autocad mechanical								Unders	tand				
CO2.		Apply the concept of Interacting with User Interface, Common Drawing Setup Mechanical Structure, Structuring Data in Drawings							3	Apply					
CO3.	App	y the	techn	iques	in Pro	oductiv	ity Too	ls & F	eatur	es in A	utoCAI) softw	are	Арр	ly
CO4.		Apply the techniques of Three-dimensional part modelling of different components by showing in multiple views													
CO5.	Apply the knowledge in Creating Drawing Sheets, Model Space Views in Layouts Apply							ly							
Mappin	ig with	n Prog	ramn	ne Ou	tcom	es and	Progra	mme	Speci	fic Out	comes				
СО	PO1	PO2	PO 3	PO 4	PO5	PO6	PO7	PO 8	PO9	PO1 0	PO11	PO12	PSO1	PSO 2	PSO 3
CO1	S	М	М	S	М	-	-	-	-	-	-	-	-	-	-
CO2	S	L	S	S	М	-	-	-	L	-	-	-	М	М	М
CO3	S	М	S	S	L	-	-	-	L	-	-	-	М	-	М
CO4	S	М	S	S	М	-	•	-	L	-	-	-	М	М	М
CO5	S	М	S	L	M	L	L	-	L	-	-	-	М	М	L
S- Strong	; M-Me	dium;	L-Low												

COURSE CONTENT

CHAPTER I INTRODUCTION

Introduction to Technical Drafting-Computer Aided Drafting and Design-AutoCAD Mechanical Interface, Design Concepts-AutoCAD Mechanical Overview, Instrument Drawing Techniques-Drawing Management/File Types

CHAPTER II COMMANDS, INTERFACE, STRUCTURE

Mechanical Structure - Standard Based Design-Cartesian coordinate System-Draw commands-Modify commands-Text command- Interacting with User Interface- Common Drawing Setup-Mechanical Structure-Structuring Data in Drawings- Reusing and Editing Structured Data-Mechanical Layers and Layer Control-Layers-Centerlines-Construction Lines -Designing with Lines- Create and Save AutoCAD

CHAPTER III PRODUCTIVITY TOOLS, FEATURES

Dimension Productivity Tools -Production Drawing Creation-Tools for Creating Key Geometry-Core Design Tools - Tools for Manipulating Geometry-Editing Tools-Power Command-Adding Standard Feature Data for Holes and Slots-Dimensioning and Annotation Your Drawings-Creating Dimensions-Editing Dimensions-Hole Charts and Fits Lists-Mechanical Standard Parts

CHAPTER IV 2-D, 3-D & ASSEMBLY

2D Fundamentals-Assembly commands-Geometric Shapes-Creating key geometry-Orthographic Projection/Multiview Drawings-Isometric drawings-Wireframe modeling-Surface modeling –Solid modeling, Production Drawings-Components assembly-Engineering drawings-Assembly views

CHAPTER V LAYOUT & TITLE BLOCK

Creating Drawing Sheets-Model Space Views in Layouts-Title Block and drawing Borders-Creating Drawing Sheets in Model Space-Annotation Symbols-Bill of Materials, Parts Lists, and Balloons - Standard Based Design-Configure Layer, Text, and Symbol Properties

Refere	Reference Books					
1	1 The AutoCAD Productivity Handbook: Tips & Techniques: CAD Intentions, Brandon KL					
2	Autocad 2022 training guide, CAD Language , Linkan Sagar					
3	AUTOCAD 2019 for Beginners, Cadfolks					

Ref: 23-24/Even/VAC/02 Date: 12.03.2024

From

Dr.S.Sangeetha Professor, Mechanical Engineering, Aarupadai Veedu Institute of Technology, Paiyanoor-603 104

To

The Principal,
Aarupadai Veedu Institute of Technology
Paiyanoor-603 104

Respected Sir,

Sub: Submission of Mechanical Engineering Department Value added course-Report- Reg.

The Department of Mechanical Engineering had conducted a Value-Added Course on "PRODUCTIVE TOOLS IN AUTOCAD" from 02.03.2024 to 07.03.2024 & 10.03.2024. The report of the programme is herewith attached for your kind perusal.

Thanking you,

With regards,

Coordinator

HOD



Value Added Course on "PRODUCTIVE TOOLS IN AUTOCAD" (From 02.03.2024 to 10.03.2024 - 30 Hours)

The Department of Mechanical Engineering conducted a Value Added Course on "PRODUCTIVE TOOLS IN AUTOCAD" from 02.03.2024 to 10.03.2024 - 30 Hours. The course was inaugurated by **Dr.M.Prabhahar**, **HOD** / **Mech.** and coordinated by **Dr.S.Sangeetha Prof/Mech.**

Totally 10 sessions were conducted with various faculty members from the Department and around 59 students of III & IV year Mechanical Engineering attended the session.

SESSION 1: INTRODUCTION TO AUTOCAD (9.00am-12.00pm)

The first session on Introduction to AutoCAD was conducted by Mr.K.Vijayakumar, AP II/MECH/AVIT.

- History of AutoCAD
- Introduction to AutoCAD software, instruction to how to download software by Educator.
- Introduction to Technical Drafting, Computer Aided Drafting and Design Software versions and differences between the latest versions.
- How to open the software, setting units, layout, dimensions and basic tools to be used.



SESSION 2: TITLE BLOCK LAYOUT DESIGN (12.30 pm to 03.30 pm)

The second session on Title block layout design was conducted by Mr.A.Imthiyas AP/MECH/AVIT.

- Creating Drawing Sheets, Model Space Views in Layouts
- Title Block and drawing Borders
- Creating Drawing Sheets in Model Space
- Annotation Symbols
- Bill of Materials
- Parts Lists and Balloons



SESSION 3: PRODUCTIVITY TOOLS & FEATURES (9.00am-12.00pm)

The third session on Productivity Tools & Features in AutoCAD software was conducted by Mr. S. Kalyana kumar, AP II/MECH/AVIT.

- Two-dimensional drawing creation
- Dimension Productivity Tools
- Tools for Creating Key Geometry, Core Design Tools
- Tools for Creating Key Geometry Tools for Manipulating Geometry
- Editing Tools
- Power Command
- Production Drawing Creation
- Adding Standard Feature Data for Holes and Slots



SESSION 4: WIREFRAME AND SURFACE MODELLING (12.30 pm to 03.30 pm)

The fourth session on Wireframe and Surface Modelling was conducted by Mr.P.Kumaran, AP II/MECH/AVIT.

- 2D Fundamentals
- Geometric Shapes, Creating key geometry
- Orthographic Projection/Multiview Drawings
- Isometric drawings
- Wireframe modelling
- Surface modelling

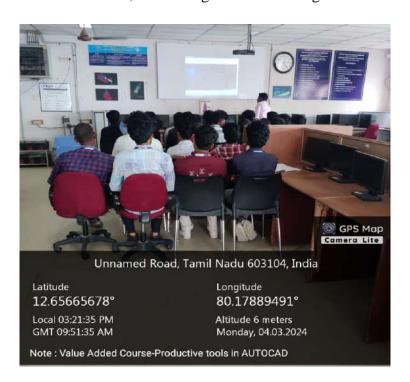


SESSION 5: INTERFACE, STRUCTURE AND COMMANDS (03.30 pm to 05.30 pm)

The fifth session on commands, interface and structure of AutoCAD software was conducted by Mr. S. Sathiyaraj, AP II/MECH/AVIT.

He had shared his presentation on

- Drawing Techniques
- Cartesian coordinate System
- Interacting with User Interface, Common Drawing Setup
- Draw commands, Modify commands, Text command
- Mechanical Structure, Structuring Data in Drawings



SESSION 6: SOLID MODELLING (03.30 pm to 05.30 pm)

The sixth session on Solid Modelling was conducted by Mr.B.SelvaBabu, AP/MECH/AVIT.

- Solid modelling tools used
- Engineering drawings
- Primary views of solid model
- Production Drawings
- Multiview Drawings



SESSION 7: 2 DIMENSIONAL & 3-DIMENSIONAL MODELLING (03.30 pm to 05.30 pm)

The seventh session on 2 Dimensional & 3 Dimensional modelling was conducted by Mr.G.Antony Casmir, AP II/MECH/AVIT.

- 2D drawings in AutoCAD
- Two-dimensional part modelling
- Drawing from Isometric to Orthographic projection
- 3D drawings in AutoCAD
- Orthographic projection to Isometric view drawing
- Three-dimensional part modelling of different components by showing in multiple views



SESSION 8: PRODUCTION DRAWING (03.30 pm to 05.30 pm)

The eigth session on Production Drawing was conducted by Mr.A.Elanthiraiyan AP II/MECH/AVIT.

- Assembly commands
- How to use assembly commands for assembling Engineering components
- Components assembly
- Assembly views
- Introduction to Analysis software



SESSION 9: ASSEMBLY DRAWING (9.00am-12.00pm)

The ninth session on Standard design, Layer and Production drawing was conducted by Dr.S.Prakash, AP II/MECH/AVIT

- Standard Based Design
- Configure Layer, Text, and Symbol Properties
- Solid shape various engineering components
- Assembly of the components
- How to use AutoCAD for production drawing
- Brief about Civil and Architecture CAD



SESSION 10: INTRODUCTION TO SOLIDWORKS, ANSYS (12.30 pm to 03.30 pm)

The tenth session on Introduction to Solidworks and Ansys softwares was conducted by Mr.K.Vijayakumar AP II/Mech, AVIT

- Introduction to Solidworks modelling software
- How to open and use solidworks
- Various commands and features used
- Modelling of simple components in solidworks
- Differences of some Modelling softwares such as Solidworks, Catia and Creo
- Introduction to Ansys software
- Applications and why analysis software



End of the session:

Test was conducted at the end of tenth session.

Outcome:

The Value-added course was conducted on 'Productive tools in AutoCAD'. The students gained knowledge in AutoCAD and how to do part drawings, Engineering component drawings and assembly. Students also learned about solidworks modelling software and analysis software of Ansys.

The Value Added Course was coordinated by Dr.S.Sangeetha/Mech/AVIT.

Ref: 23-24/Even/VAC/02 Date: 12.03.2024

From

Dr.S.Sangeetha
Value Added Course Coordinator,
Mechanical Engineering,
Aarupadai Veedu Institute of Technology,
Paiyanoor-603 104

To

The Principal,
Aarupadai Veedu Institute of Technology
Paiyanoor-603 104

Respected Sir,

Sub: Submission of **Attendance and mark Statement** of Eligible Students for Certificate purpose-Reg.

Herewith I had enclosed the duly verified Attendance and Mark Statement of eligible students for availing Value Added Course Certificate on "PRODUCTIVE TOOLS IN AUTOCAD" from 02.03.2024 to 07.03.2024 & 10.03.2024 conducted by our institution for the Academic Year 2023-2024.

Kindly do the needful.

Thanking you,

Yours Sincerely

Dr.S.Sangeetha

Value Added Course Coordinator

Encl: Attendance and mark Statement



Value Added Course ATTENDANCE PERCENTAGE

			Attendance
SI. No.	Register Number	Name of the Student	_
			Percentage
1	3442110501	ANAND KUMAR RAM	100
2	3442110505	DURAIRAJ T	90
3	3442110506	KRISHNA BALAJI S	90
4	3442110508	LOGESH A	100
5	3442110509	LOHIDHARSHAN T	90
6	3442110511	RAJAKUMARAN P	90
7	3442110513	SANJEEV KUMAR	100
8	3442110515	SUJEET KUMAR	100
9	3442124509	NAVEEN KUMAR G	90
10	3442124514	SRINIVASAN G	90
11	3442124515	SRIRAM M	70
12	3442220502	BIKASH BASFORE	100
13	3442220504	DHANUSHKUMAR R	100
14	3442220506	MOHAMMED ASARAFALI S	100
15	3442220507	PAVAN KUMAR S	100
16	3442220508	RANJITH V	100
17	3442220509	SRINIVASAN S	100
18	3442220510	SUBHAM MAL	100
19	3442220512	VASANTH KUMAR I	100
20	3442253501	MOHAMED AL ASHIM P	100
21	3442253503	RIJAS NAINAN D	100
22	3442254501	MUHAMMED AMAN	100
23	3442355501	BASIL BENNY	100
24	3442355502	IITHIN JOSEPH	100
25	3442355503	MACHANKANTI NAVEEN RAJ	100
26	3442355504	MIDHUN THOMAS	100
27	3442355505	SRINIVAS S	100
28	3442355506	VISHNU JITH K V	100
29	3442355507	VISHNU P	100
30	3442355508	YADULDAS KARATHADY	100
31	3441915537	SANTHOSH.A	100
32	3442010504	AKASH KUMAR	100
33	3442010506	CHANDAN KUMAR	90
34	3442010512	RANJAN KUMAR MANDAL	100
35	3442010515	THARUN KUMAR S	100
36	3442010516	UDHAYAM K	100
37	3442010517	VASANTHRAJ R	100
38	3442010518	VIGNESH R	90
39	3442010520	YEDDULA DEEKESHWAR	100
40	3442120505	GOVARATHAN P	100

41	3442120506	MADHAN RAJ L	100
42	3442120507	MANIKANDAN M	100
43	3442120521	VIGNESH V	100
44	3442120522	VIJAYAKUMAR A	100
45	3442120523	YUGENDIRAN S	70
46	3442154501	VYSHNAV NR	100
47	3442255501	ABIJITH S	100
48	3442256501	MOHAMMAD FAVAS C	100
49	3442357501	ABHIRAM S	100
50	3442357502	ADIL ABDULLA	100
51	3442357503	ADIL MEHABOOB	100
52	3442357504	AIMAL N	90
53	3442357505	JENSON TEJI	100
54	3442357506	KAAVIYAN D	100
55	3442357507	KARTHIK R	90
56	3442357508	MUHAMMED RAZI BIN SALAM	90
57	3442357509	NABIL ABDUL JABBAR	90
58	3442357510	SAIDALI NOWFIN	100
59	3442357511	SOURAV SREEJITH K M	100



Value Added Course MARK LIST

SI. No.	Register Number	Name of the Student	Marks Obtained(100)
1	3442110501	ANAND KUMAR RAM	84
2	3442110505	DURAIRAJ T	84
3	3442110506	KRISHNA BALAJI S	80
4	3442110508	LOGESH A	78
5	3442110509	LOHIDHARSHAN T	82
6	3442110511	RAJAKUMARAN P	94
7	3442110513	SANIEEV KUMAR	80
8	3442110515	SUJEET KUMAR	92
9	3442124509	NAVEEN KUMAR G	82
10	3442124514	SRINIVASAN G	80
11	3442124515	SRIRAM M	80
12	3442220502	BIKASH BASFORE	78
13	3442220504	DHANUSHKUMAR R	78
14	3442220506	MOHAMMED ASARAFALI S	80
15	3442220507	PAVAN KUMAR S	92
16	3442220508	RANJITH V	86
17	3442220509	SRINIVASAN S	78
18	3442220510	SUBHAM MAL	88
19	3442220512	VASANTH KUMAR J	90
20	3442253501	MOHAMED AL ASHIM P	80
21	3442253503	RIJAS NAINAN D	96
22	3442254501	MUHAMMED AMAN	80
23	3442355501	BASIL BENNY	78
24	3442355502	JITHIN JOSEPH	80
25	3442355503	MACHANKANTI NAVEEN RAJ	90
26	3442355504	MIDHUN THOMAS	76
27	3442355505	SRINIVAS S	88
28	3442355506	VISHNU JITH K V	86
29	3442355507	VISHNU P	80
30	3442355508	YADULDAS KARATHADY	88
31	3441915537	SANTHOSH.A	88
32	3442010504	AKASH KUMAR	80
33	3442010506	CHANDAN KUMAR	74
34	3442010512	RANJAN KUMAR MANDAL	80
35	3442010515	THARUN KUMAR S	88
36	3442010516	UDHAYAM K	76
37	3442010517	VASANTHRAJ R	80
38	3442010518	VIGNESH R	94
39	3442010520	YEDDULA DEEKESHWAR	76
40	3442120505	GOVARATHAN P	78
41	3442120506	MADHAN RAI L	82

42	3442120507	MANIKANDAN M	80
43	3442120521	VIGNESH V	78
44	3442120522	VIJAYAKUMAR A	80
45	3442120523	YUGENDIRAN S	72
46	3442154501	VYSHNAV NR	76
47	3442255501	ABIJITH S	74
48	3442256501	MOHAMMAD FAVAS C	76
49	3442357501	ABHIRAM S	78
50	3442357502	ADIL ABDULLA	66
51	3442357503	ADIL MEHABOOB	60
52	3442357504	AJMAL N	78
53	3442357505	IENSON TEII	72
54	3442357506	KAAVIYAN D	74
55	3442357507	KARTHIK R	82
56	3442357508	MUHAMMED RAZI BIN SALAM	84
57	3442357509	NABIL ABDUL JABBAR	76
58	3442357510	SAIDALI NOWFIN	74
59	3442357511	SOURAV SREEJITH K M	76

Total No. of students: 59 No. of Absentees:Nil

No. Appeared: 59

No. Passed: 59 No. Failed: Nil

% of Passes: 100%



Ref: 23-24/Even/VAC/02 Date: 12.03.2024

From

Dr.S.Sangeetha
Value Added Course Coordinator,
Mechanical Engineering,
Aarupadai Veedu Institute of Technology,
Paiyanoor-603 104

To

The Principal,
Aarupadai Veedu Institute of Technology
Paiyanoor-603 104

Respected Sir,

Sub: Submission of **Eligible students** for Value Added Course Certificates- Reg.

Herewith I had enclosed the list of eligible students for availing Value Added Course Certificate on "PRODUCTIVE TOOLS IN AUTOCAD" from 02.03.2024 to 10.03.2024 conducted by our institution for the Academic Year 2023-2024. Kindly do the needful.

Thanking you,

Yours Sincerely

Dr.S.Sangeetha

Value Added Course Coordinator

Encl:List of Eligible Students



Value Added Course ELIGIBLE STUDENTS LIST

SI. No.	Register Number	Name of the Student	Year
1	3442110501	ANAND KUMAR RAM	III
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51	3442357503	ADIL MEHABOOB	IV
52	3442357504	AJMAL N	IV
53	3442357505	JENSON TEJI	IV
54	3442357506	KAAVIYAN D	IV
55	3442357507	KARTHIK R	IV
56	3442357508	MUHAMMED RAZI BIN SALAM	IV
57	3442357509	NABIL ABDUL JABBAR	IV
58	3442357510	SAIDALI NOWFIN	IV
59	3442357511	SOURAV SREEJITH K M	IV