



Indra Ganesan

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL

INDRA GANESAN COLLEGE OF ENGINEERING





DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2018-19 EVEN / ODD SEMESTER

1.2 Academic Flexibility (30)

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs,SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

AND

1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

VAC Title:	Introduction to CAD,CAM & Practical CNC Machining				
Resource Person:	Mr.Balaji &Mr.Prabakar Trainer CADD center Trichy				
Date of conduct from:	05.11.2018	To:	09.11.2018	Duration:	30 Hours
Organized Department:	MECHANICAL ENGINEERING				
Participant Year:	Mech II,III,IV Year	Semester:	ODD	No. of Students Registered:	106
Venue:	Mechanical Seminar Hall				

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COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
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Department of Mechanical Engineering

Academic Year 2018-2019 -ODD Semester

Date: 01.11.2018

DEPARTMENT CIRCULAR

Department of Mechanical Engineering of IGCE association with "CADD Centre, Trichy" is going to organize Value Added Course for all II and III, IV year students on "Introduction to CAD, CAM & Practical CNC Machining" from 05.11.2018 to 09.11.2018. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.


Resource Person Details	1. Mr. Balaji Trainer CADD centre Trichy 2. Mr. Prabakar Trainer CADD centre Trichy
Venue	Mechanical Seminar Hall, IGCE


HOD/MECH

Cc:

- Principal office
- IQAC Coordinator
- Class In charges - II, III & IV Year
- Office File
- Notice Board


PRINCIPAL


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



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Value Added Course


"Introduction to CAD, CAM & Practical CNC Machining"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to CAD, CAM & CNC Machining	3	05.11.2018
2	Get foundational knowledge in computer aided design, manufacture, and the practical use of CNC machines for milling.	3	05.11.2018
3	Explore how to properly sketch and model 3D parts.	3	06.11.2018
4	Explore the basics of setting up a CAM program and defining tool paths to cut simple geometry.	3	06.11.2018
5	Explain the CAD design process as applied to prismatic parts.	3	07.11.2018
6	Workflow of digital manufacturing.	3	07.11.2018
7	Demonstrate knowledge and skills in basic Fusion 360 CAM.	3	08.11.2018
8	Recall foundational knowledge of practical CNC machining.	3	08.11.2018
9	New tutorials that explore thin Extrude, CAM tool library, NC Program, and sheet setup.	3	09.11.2018
10	Updated practice and challenge exercises.	3	09.11.2018
11	Exam	1	09.11.2018
Total Hours (Excluding Assessment)		30	-


VAC Coordinator


HOD/Mech


Dr. G. Balakrishnan, M.E., Ph.D.,
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Value Added Course

"Introduction to CAD, CAM & Practical CNC Machining"

STUDENTS PARTICIPATION LIST

S.No.	Reg.No	Student's Name	Year/ Branch
1	811217114001	S.Abdul Yasin	II/MECH
2	811217114002	R.Ajithkumar	II/MECH
3	811217114003	S.Anandha Kumar	II/MECH
4	811217114004	M.Ananth	II/MECH
5	811217114005	R.Chellaiah	II/MECH
6	811217114006	C.Devarajan	II/MECH
7	811217114007	S.Dhamotharan	II/MECH
8	811217114008	A.Dhanussh	II/MECH
9	811217114009	C.Dharanidharan	II/MECH
10	811217114010	N.Dharman	II/MECH
11	811217114013	M.Hariharasudhan	II/MECH
12	811217114014	A.Jawagar	II/MECH
13	811217114015	Karthick S	II/MECH
14	811217114016	D.Madhan	II/MECH
15	811217114018	M.Mohammed Faizal	II/MECH
16	811217114019	S.Mohanraj	II/MECH
17	811217114020	R.Munishwaran	II/MECH
18	811217114021	P.Murugan	II/MECH
19	811217114022	P.Ponnar	II/MECH
20	811217114023	M.Prakash	II/MECH
21	811217114025	M.Rajamuni	II/MECH
22	811217114026	La.Ramanathan	II/MECH
23	811217114027	G.Sairam	II/MECH
24	811217114028	R.Sankaralingam	II/MECH

Dr. G. Balakrishnan, M.E., Ph.D.
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S.No.	Reg.No	Student's Name	Year/ Branch
25	811217114030	M.Selvakumar	II/MECH
26	811217114031	A.Shameer	II/MECH
27	811217114032	D.Sivakumar	II/MECH
28	811217114033	A.Sriram	II/MECH
29	811217114034	S.Thirumurugan	II/MECH
30	811217114035	A.Vengatesh	II/MECH
31	811217114036	M.Venkatesh	II/MECH
32	811217114037	P.Vinayagamorthy	II/MECH
33	811217114038	B.Vinothraja	II/MECH
34	811217114039	D.Yugesh	II/MECH
35	811217114301	K.Arun	II/MECH
36	811217114302	K.Santhosh Kumar	II/MECH
37	811217114303	R.Thirumoorthi	II/MECH
38	811217114012	R.Hariharan	II/MECH
39	811217114029	C.Sarathkumar	II/MECH
40	811216114001	Ajmalkhan K	III/MECH
41	811216114002	Amar Praveen D	III/MECH
42	811216114003	Anandaperumal P	III/MECH
43	811216114004	Chinnappan A	III/MECH
44	811216114005	Dayas Kumar M	III/MECH
45	811216114006	Dhinakaran K	III/MECH
46	811216114007	Dhinakaran S	III/MECH
47	811216114008	Dinesh Babu M	III/MECH
48	811216114009	Gobi P	III/MECH
49	811216114010	Gopinath N	III/MECH
50	811216114011	Gunaseelan G	III/MECH
51	811216114012	Hariram S	III/MECH
52	811216114013	Harish M	III/MECH
53	811216114014	Karan K	III/MECH

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S.No.	Reg.No	Student's Name	Year/ Branch
54	811216114015	Karthick A	III/MECH
55	811216114016	Kingsley J	III/MECH
56	811216114017	Kiruthikeyan P	III/MECH
57	811216114018	Krishna Prakash N	III/MECH
58	811216114019	Mahendran A	III/MECH
59	811216114020	Mahendran K	III/MECH
60	811216114021	Nagarajan K	III/MECH
61	811216114022	Nambiyappan K	III/MECH
62	811216114023	Nandha Kumar P	III/MECH
63	811216114024	Naveen Kumar K	III/MECH
64	811216114025	Palanisamy K	III/MECH
65	811216114026	Pulamadan K	III/MECH
66	811216114027	Ramkumar R	III/MECH
67	811216114028	Robert A	III/MECH
68	811216114029	Sasi Kumar S	III/MECH
69	811216114030	Senthil Kumar B	III/MECH
70	811216114031	Subash Salamon S	III/MECH
71	811216114032	Tamilselvan C	III/MECH
72	811216114033	Vairavel A	III/MECH
73	811216114034	Vasudevan A`	III/MECH
74	811216114035	Vengatraman V	III/MECH
75	811216114036	Vignesh K	III/MECH
76	811216114037	Yanatharan T	III/MECH
77	811216114301	B.Gokul	III/MECH
78	811216114302	S.Hariharan	III/MECH
79	811216114304	J.Karunakaran	III/MECH
80	811216114305	Manoj Kumar K	III/MECH
81	811216114701	S.Vasanth	III/MECH
82	811216114702	V.K.Karthekeyan	III/MECH

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

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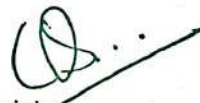


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S.No.	Reg.No	Student's Name	Year/ Branch
83	811215114001	Aravindh M	IV/MECH
84	811215114002	Arunkumar T	IV/MECH
85	811215114004	Chelladurai R	IV/MECH
86	811215114005	Christin Yesudoss A	IV/MECH
87	811215114006	Crown Meshak J	IV/MECH
88	811215114007	Dineshkumar B	IV/MECH
89	811215114008	Dinesh Kumar R	IV/MECH
90	811215114009	Dinesh Kumar V	IV/MECH
91	811215114010	Faizal Dasthahir S.B	IV/MECH
92	811215114011	Gopi P	IV/MECH
93	811215114012	Gunaseelan R	IV/MECH
94	811215114014	Hariharan S	IV/MECH
95	811215114015	Jayaranjan AS	IV/MECH
96	811215114016	Joyal S	IV/MECH
97	811215114017	Karthick M	IV/MECH
98	811215114018	Karthik L	IV/MECH
99	811215114019	Karthikeyan K	IV/MECH
100	811215114020	Karupaiya R	IV/MECH
101	811215114021	Kathiravan M	IV/MECH
102	811215114023	Kristen Kennis K	IV/MECH
103	811215114024	Kumaran R	IV/MECH
104	811215114025	Manikandan N	IV/MECH
105	811215114026	Mathiyarasan S	IV/MECH
106	811215114027	Mohamed Burose A	IV/MECH


VAC Coordinator


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HoD/MECH



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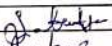
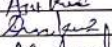
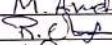
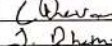
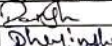
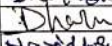
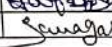





Department of Mechanical Engineering
Academic Year 2018-2019-ODD Semester

STUDENTS ATTENDANCE SHEET

Value Added course

“Introduction to CAD, CAM & Practical CNC Machining”


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

S.No.	Reg.No	Student's Name	Year/ Branch	DATE: 05.11.18		DATE: 06.11.18		DATE: 07.11.18		DATE: 08.11.18		DATE: 09.11.18		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1	811217114001	S.Abdul Yasin	II MECH	/	/	/	/	/	/	/	/	/	/	10	
2	811217114002	R.Ajithkumar	II MECH	/	/	a	/	/	/	/	/	/	/	9	
3	811217114003	S.Anandha Kumar	II MECH	/	/	/	/	/	/	/	/	/	/	10	
4	811217114004	M.Ananth	II MECH	/	/	/	/	a	/	/	/	/	/	9	
5	811217114005	R.Chellaiah	II MECH	/	/	/	/	/	/	/	/	/	/	10	
6	811217114006	C.Devarajan	II MECH	/	/	/	/	/	/	/	/	/	/	10	
7	811217114007	S.Dhamotharan	II MECH	/	/	/	/	/	/	/	/	/	/	10	
8	811217114008	A.Dhanussh	II MECH	/	/	/	/	a	/	/	/	/	/	9	
9	811217114009	C.Dharanidharan	II MECH	/	/	/	/	/	/	/	/	/	/	10	
10	811217114010	N.Dharman	II MECH	/	/	/	/	/	/	/	/	/	/	10	
11	811217114013	M.Hariharasudhan	II MECH	/	/	/	/	/	/	/	/	/	/	10	
12	811217114014	A.lawagar	II MECH	/	/	/	/	/	/	/	/	/	/	10	



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S.No.	Reg.No	Student's Name	Year/ Branch	DATE: 11.06.19		DATE: 12.06.19		DATE: 13.06.19		DATE: 14.06.19		DATE: 15.06.19		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
13	811217114015	Karthick S	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
14	811217114016	D.Madhan	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
15	811217114018	M.Mohammed Faizal	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	09	[Signature]
16	811217114019	S.Mohanraj	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
17	811217114020	R.Munishwaran	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
18	811217114021	P.Murugan	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
19	811217114022	P.Ponnar	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
20	811217114023	M.Prakash	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
21	811217114025	M.Rajamuni	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
22	811217114026	La.Ramanathan	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
23	811217114027	G.Sairam	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
24	811217114028	R.Sankaralingam	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
25	811217114030	M.Selvakumar	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
26	811217114031	A.Shameer	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
27	811217114032	D.Sivakumar	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
28	811217114033	A.Sriram	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
29	811217114034	S.Thirumurugan	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	09	[Signature]
30	811217114035	A.Vengatesh	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
31	811217114036	M.Venkatesh	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
32	811217114037	P.Vinavagamoorthy	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
33	811217114038	B.Vinothraja	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
34	811217114039	D.Yugesh	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
35	811217114301	K.Arun	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]

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S.No.	Reg.No	Student's Name	Year/ Branch	DATE: 11.06.19		DATE: 12.06.19		DATE: 13.06.19		DATE: 14.06.19		DATE: 15.06.19		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
36	811217114302	K.Santhosh Kumar	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	K. Santhosh
37	811217114303	R.Thirumoorthi	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	R. Thirumoorthi
38	811217114012	R.Hariharan	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	R. Hariharan
39	811217114029	C.Sarathkumar	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	C. Sarathkumar
40	811216114001	Aimalkhan K	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	A. Aimalkhan
41	811216114002	Amar Praveen D	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	A. Praveen
42	811216114003	Anandaperumal P	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	P. Anandaperumal
43	811216114004	Chinnappan A	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	A. Chinnappan
44	811216114005	Davas Kumar M	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	M. Davas Kumar
45	811216114006	Dhinakaran K	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	K. Dhinakaran
46	811216114007	Dhinakaran S	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	S. Dhinakaran
47	811216114008	Dinesh Babu M	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	M. Dinesh Babu
48	811216114009	Gobi P	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	P. Gobi
49	811216114010	Gopinath N	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	N. Gopinath
50	811216114011	Gunaseelan G	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	G. Gunaseelan
51	811216114012	Hariram S	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	S. Hariram
52	811216114013	Harish M	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	M. Harish
53	811216114014	Karan K	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	K. Karan
54	811216114015	Karthick A	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	A. Karthick
55	811216114016	Kingsley I	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	I. Kingsley
56	811216114017	Kiruthikeyan P	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	P. Kiruthikeyan
57	811216114018	Krishna Prakash N	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	N. Krishna Prakash
58	811216114019	Mahendran A	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	A. Mahendran

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S.No.	Reg.No	Student's Name	Year/ Branch	DATE: 11.06.19		DATE: 12.06.19		DATE: 13.06.19		DATE: 14.06.19		DATE: 15.06.19		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
63	811216114024	Naveen Kumar K	III/MECH	/	/	/	/	/	/	/	/	/	/	10	K.K
64	811216114025	Palanisamy K	III/MECH	/	/	/	/	/	/	/	/	/	/	10	K.P
65	811216114026	Pulamadan K	III/MECH	/	/	/	/	/	/	/	/	/	/	10	K.Pulamadan
66	811216114027	Ramkumar R	III/MECH	/	/	/	/	/	/	/	/	/	/	10	R.K
67	811216114028	Robert A	III/MECH	/	/	/	/	/	/	/	/	/	/	10	A.R
68	811216114029	Sasi Kumar S	III/MECH	/	/	/	/	/	/	/	/	/	/	10	S.K
69	811216114030	Senthil Kumar B	III/MECH	/	/	/	/	/	/	/	/	/	/	10	B.S
70	811216114031	Subash Salamon S	III/MECH	/	/	/	/	/	/	/	/	/	/	10	S.S
71	811216114032	Tamilselvan C	III/MECH	/	/	/	/	/	/	/	/	/	/	9	T.C
72	811216114033	Vairavel A	III/MECH	/	/	/	/	/	/	/	/	/	/	10	V.A
73	811216114034	Vasudevan A`	III/MECH	/	/	/	/	/	/	/	/	/	/	10	V.A
74	811216114035	Vengatraman V	III/MECH	/	/	/	/	/	/	/	/	/	/	10	V.V
75	811216114036	Vignesh K	III/MECH	/	/	/	/	/	/	/	/	/	/	10	V.K
76	811216114037	Yanatharan T	III/MECH	/	/	/	/	/	/	/	/	/	/	10	T.Y
77	811216114301	B.Gokul	III/MECH	/	/	/	/	/	/	/	/	/	/	8	G.B
78	811216114302	S.Hariharan	III/MECH	/	/	/	/	/	/	/	/	/	/	10	H.S
79	811216114304	I.Karunakaran	III/MECH	/	/	/	/	/	/	/	/	/	/	10	K.I
80	811216114305	Manoj Kumar K	III/MECH	/	/	/	/	/	/	/	/	/	/	10	K.M
81	811216114701	S.Vasanth	III/MECH	/	/	/	/	/	/	/	/	/	/	10	V.S
82	811216114702	V.K.Karthekeyan	III/MECH	/	/	/	/	/	/	/	/	/	/	10	K.V
83	811215114001	Aravindh M	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	M.A
84	811215114002	Arunkumar T	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	T.A
85	811215114004	Chelladurai R	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	R.C

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				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
86	811215114005	Chella pandiyan	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	<i>[Signature]</i>
87	811215114006	Crown Meshak J	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
88	811215114007	Dineshkumar B	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
89	811215114008	Dinesh Kumar R	IV/MECH	✓	a	✓	✓	✓	✓	✓	✓	✓	✓	9	<i>[Signature]</i>
90	811215114009	Dinesh Kumar V	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	V. Dinesh Kumar
91	811215114010	Faizal Dasthahir S.B	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
92	811215114011	Gopi P	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
93	811215114012	Gunaseelan R	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Gunaseelan
94	811215114014	Hariharan S	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Hariharan
95	811215114015	Jayaranjan AS	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
96	811215114016	Joyal S	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
97	811215114017	Karthick M	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
98	811215114018	Karthik L	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
99	811215114019	Karthikeyan K	IV/MECH	✓	✓	✓	✓	a	✓	✓	✓	✓	a	8	<i>[Signature]</i>
100	811215114020	Karupaiya R	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
101	811215114021	Kathiravan M	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
102	811215114023	Kristen Kennis K	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
103	811215114024	Kumaran R	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
104	811215114025	Manikandan N	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
105	811215114026	Mathiyarasan S	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
106	811215114027	Mohamed Burose A	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>

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				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
105	811215114026	Mathiyarasan S	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	6	<i>[Signature]</i>	
106	811215114027	Mohamed Burose A	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	6	<i>[Signature]</i>	

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VAC Coordinator

[Signature]
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[Signature]
HoD/MECH



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Name of the Student :

Year/Sem:


AU Register Number:

Value Added Course

“Introduction to CAD, CAM & Practical CNC Machining”

MCQ QUESTIONS (25X4 = 100 Marks)

1. The Data Panel is accessed by clicking its icon on the:
a) Marking menu. c) Browser.
b) Application Bar. d) Tool bar.
2. If a sketch entity is blue, it means that it:
a) Has a constraint. c) Has a dimension.
b) Underdefined. d) Is a construction entity
3. When starting from a new, empty design, which folder in the browser appears after extruding a sketch profile into a solid or a surface?
a) Named Views. c) Bodies.
b) Sketches. d) Origin.
4. Which of the following can be applied while creating an Extruded feature from a sketch profile?
a) Shell. c) Fillet.
b) Draft d) Chamfer.
5. One way that Projected drawing views differ from Isometric drawing views is that:
a) Position alignment of Projected views is locked to the parent view. c) Isometric views can have an appearance style different from the parent view.
b) Projected views can have a scale which is different from the parent view. d) None of the above.
6. Fixturing is also often referred to as?
a) Work holding. c) Arresting.
b) Immobilizing. d) Grounding.

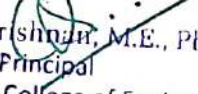

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23. What occurs every time a file is saved in Fusion 360?
- a) None of these.
 - b) A Simulation is run.
 - c) A Version is created.
 - d) The file opens in a web browser
24. What is the typically attachment hardware used to hold down a vise of stock to a CNC mill's table?
- a) C nuts.
 - b) X nuts.
 - c) T nuts.
 - d) Square nuts.
25. Tool library sample tools can't be edited, but they can be:
- a) Copied.
 - b) Moved.
 - c) Duplicated.
 - d) Deleted.


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Name of the Student : R. Chelladurai

Year/Sem: IV - mech

AU Register Number: 811215114004

Value Added Course

“Introduction to CAD, CAM & Practical CNC Machining”

MCQ QUESTIONS (25X4 = 100 Marks)

19
25

- The Data Panel is accessed by clicking its icon on the:
a) Marking menu. c) Browser.
b) Application Bar. d) Tool bar.
- If a sketch entity is blue, it means that it:
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- When starting from a new, empty design, which folder in the browser appears after extruding a sketch profile into a solid or a surface?
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b) Sketches. d) Origin.
- Which of the following can be applied while creating an Extruded feature from a sketch profile?
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- One way that Projected drawing views differ from Isometric drawing views is that:
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b) Projected views can have a scale which is different from the parent view. d) None of the above.
- Fixturing is also often referred to as?
a) Work holding. c) Arresting.
b) Immobilizing. d) Grounding.

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(a) None of these. (b) A Simulation is run. (c) A Version is created. (d) The file opens in a web browser
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(a) C nuts. (b) X nuts. (c) T nuts. (d) Square nuts.
25. Tool library sample tools can't be edited, but they can be:
(a) Copied. (b) Moved. (c) Duplicated. (d) Deleted.
18. The physical material for a body is assigned to:
(a) Drawing (b) Manufacture (c) Assembly (d) Simulation
19. Choosing the Rest Machining option in the 3D Locket, 2D Contour or 2D Additive Creating toolpath is useful for which of the following?
(a) Removing only the remaining material from a previous toolpath. (b) Aggressively roughing out material. (c) Machining only open pockets. (d) Machining only fully enclosed pockets.
20. A pocket that lies on the outer contour of a part and is not fully enclosed is commonly known as:
(a) An open pocket. (b) A partially enclosed pocket. (c) A degenerate pocket. (d) A semi-pocket.
21. One purpose of creating User Parameters is to:
(a) Apply a constraint to sketch entities. (b) Create a sketch. (c) Set the physical material of a body. (d) Control the value of multiple dimensions from a single access point.
22. Which of the following cannot be applied to Bodies alone?
(a) Extrudes (b) Chamfers (c) Joints (d) Revolves

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Value Added Course

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ANSWER KEY

1	b	6	a	11	a	16	a	21	d
2	b	7	a	12	b	17	c	22	a
3	a	8	b	13	d	18	d	23	a
4	b	9	a	14	b	19	a	24	c
5	a	10	c	15	c	20	a	25	a

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Department of Mechanical Engineering

Academic Year 2018-2019-Even Semester

STUDENTS ASSESEMENT SHEET

“Introduction to CAD, CAM & Practical CNC Machining”

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S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1	811215114001	Aravindh M	IV/MECH	30	100	20	80	90
2	811215114002	Arunkumar T	IV/MECH	30	100	18	72	86
3	811215114004	Chelladurai R	IV/MECH	27	90	19	76	83
4	811215114005	Christin Yesudoss A	IV/MECH	30	100	22	88	94
5	811215114006	Crown Meshak J	IV/MECH	30	100	18	72	86



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				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
6	811215114007	Dineshkumar B	IV/MECH	30	100	20	80	90
7	811215114008	Dinesh Kumar R	IV/MECH	30	100	18	72	86
8	811215114009	Dinesh Kumar V	IV/MECH	30	100	20	80	90
9	811215114010	Faizal Dasthahir S.B	IV/MECH	30	100	19	76	88
10	811215114011	Gopi P	IV/MECH	30	100	19	76	88
11	811215114012	Gunaseelan R	IV/MECH	30	100	20	80	90
12	811215114014	Hariharan S	IV/MECH	24	80	20	80	80
13	811215114015	Jayaranjan AS	IV/MECH	30	100	22	88	94
14	811215114016	Joyal S	IV/MECH	27	90	20	80	85
15	811215114017	Karthick M	IV/MECH	30	100	19	76	88



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				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	OVERALL MARK(100) (50% of A + 50% of B)
16	811215114018	Karthik L	IV/MECH	30	100	19	76	88
17	811215114019	Karthikeyan K	IV/MECH	30	100	20	80	90
18	811215114020	Karupaiya R	IV/MECH	30	100	19	76	88
19	811215114021	Kathiravan M	IV/MECH	30	100	19	76	88
20	811215114023	Kristen Kennis K	IV/MECH	30	100	22	88	94
21	811215114024	Kumaran R	IV/MECH	24	80	18	72	76
22	811215114025	Manikandan N	IV/MECH	30	100	22	88	94
23	811215114026	Mathiyarasan S	IV/MECH	30	100	22	88	94
24	811215114027	Mohamed Burose A	IV/MECH	30	100	20	80	90
25	811215114028	Mohamed Ishaq S	IV/MECH	30	100	18	72	86



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OVERALL MARK (100)
(50% of A + 50% of B)

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	(50% of A + 50% of B)
26	811215114029	Mohandoss M	IV/MECH	30	100	19	76	88
27	811215114030	Muralidharan R	IV/MECH	30	100	20	80	90
28	811215114031	Mutharasu D	IV/MECH	30	100	18	72	86
29	811215114032	Muthu Kumar S	IV/MECH	30	100	20	80	90
30	811215114033	Naveen Raj R	IV/MECH	30	100	18	72	86
31	811215114034	Parthiban R	IV/MECH	30	100	20	80	90
32	811215114035	Pradeep N	IV/MECH	30	100	20	80	90
33	811215114036	Praveen Kumar J	IV/MECH	30	100	18	72	86
34	811215114037	Praveen Kumar M	IV/MECH	30	100	19	76	88
35	811215114038	Premkumar R	IV/MECH	24	80	18	72	76



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S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	MARK(100) (50% of A + 50% of B)
36	811215114039	Ramachandran M	IV/MECH	30	100	20	80	90
37	811215114040	Ramakannan A	IV/MECH	30	100	18	72	86
38	811215114041	Revanth S	IV/MECH	30	100	20	80	90
39	811215114042	Sabarinathan P	IV/MECH	30	100	18	72	86
40	811215114043	Saffar Hussain SB	IV/MECH	30	100	19	76	88
41	811215114044	Sairaj M	IV/MECH	30	100	20	80	90
42	811215114045	Santhosh M	IV/MECH	30	100	19	76	88
43	811215114046	Saravannan R	IV/MECH	27	90	22	88	89
44	811215114047	Selva Kumar S	IV/MECH	30	100	18	72	86
45	811215114048	Shyam Sundar R	IV/MECH	30	100	22	88	94



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Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	OVERALL MARK(100) (50% of A + 50% of B)
46	811215114049	Solairaj P	IV/MECH	30	100	20	80	90
47	811215114050	Sudhakar R	IV/MECH	30	100	20	80	90
48	811215114051	Sundaramaran P	IV/MECH	30	100	18	72	86
49	811215114052	Suseendran V	IV/MECH	30	100	19	76	88
50	811215114053	Syed Kaja S	IV/MECH	30	100	22	88	94
51	811215114054	Tamilarasan G	IV/MECH	30	100	18	72	86
52	811215114055	Thamotharan K	IV/MECH	24	80	20	80	80
53	811215114056	Thanasekaran G	IV/MECH	30	100	19	76	88
54	811215114057	Valarmathi M	IV/MECH	30	100	20	80	90
55	811215114058	Venkatesh Babu G	IV/MECH	30	100	18	72	86



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D. G. Indrakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
G.Vellur, Madurai - 625 011
Manikandam, Tiruchirappalli - 620 032
OVERALL MARK (100)
(50% of A + 50% of B)

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		
				No. of Session Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	(50% of A + 50% of B)
56	811216114017	Kiruthikeyan P	III/MECH	30	100	22	88	94
57	811216114018	Krishna Prakash N	III/MECH	30	100	18	72	86
58	811216114019	Mahendran A	III/MECH	30	100	19	76	88
59	811216114020	Mahendran K	III/MECH	30	100	20	80	90
60	811216114021	Nagarajan K	III/MECH	30	100	18	72	86
61	811216114022	Nambiyappan K	III/MECH	30	100	19	76	88
62	811216114023	Nandha Kumar P	III/MECH	30	100	22	88	94
63	811216114024	Naveen Kumar K	III/MECH	30	100	18	72	86
64	811216114025	Palanisamy K	III/MECH	30	100	18	72	86
65	811216114026	Pulamadani K	III/MECH	30	100	18	72	86
66	811216114027	Ramkumar R	III/MECH	30	100	18	72	86
67	811216114028	Robert A	III/MECH	30	100	19	76	88
68	811216114029	Sasi Kumar S	III/MECH	30	100	20	80	90
69	811216114030	Senthil Kumar B	III/MECH	30	100	20	80	90
70	811216114031	Subash Salomon S	III/MECH	30	100	20	80	90
71	811216114032	Tamilselvan C	III/MECH	27	90	22	88	89
72	811216114033	Vairavel A	III/MECH	30	100	18	72	86
73	811216114034	Vasudevan A	III/MECH	30	100	19	76	88
74	811216114035	Vengatraman V	III/MECH	30	100	20	80	90
75	811216114036	Vignesh K	III/MECH	30	100	18	72	86
76	811216114037	Yanatharan T	III/MECH	30	100	19	76	88
77	811216114301	B.Gokul	III/MECH	24	80	22	88	84



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(Signature)
 Dr. C. Balakrishnan, M.E., Ph.D.,
 Principal

Indra Ganesan College of Engineering
 Madurai Main Road, Manikandam, Tiruchirappalli - 620 012

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		
				No. of Session Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	MARK(100) (50% of A + 50% of B)
78	811216114302	S.Hariharan	III/MECH	30	100	18	72	86
79	811216114304	J.Karunakaran	III/MECH	30	100	18	72	86
80	811216114305	Manoj Kumar K	III/MECH	30	100	18	72	86
81	811216114701	S.Vasanth	III/MECH	30	100	18	72	86
82	811216114702	V.K.Karthekeyan	III/MECH	27	90	18	72	81
83	811215114001	Aravindh M	IV/MECH	30	100	22	88	94
84	811215114002	Arunkumar T	IV/MECH	30	100	20	80	90
85	811215114004	Chelladurai R	IV/MECH	30	100	18	72	86
86	811215114005	Christin Yesudoss A	IV/MECH	30	100	19	76	88
87	811215114006	Crown Meshak J	IV/MECH	30	100	20	80	90
88	811215114007	Dineshkumar B	IV/MECH	30	100	18	72	86
89	811215114008	Dinesh Kumar R	IV/MECH	27	90	18	72	81
90	811215114009	Dinesh Kumar V	IV/MECH	30	100	18	72	86
91	811215114010	Faizal Dasthahir S.B	IV/MECH	30	100	20	80	90
92	811215114011	Gopi P	IV/MECH	30	100	20	80	90
93	811215114012	Gunaseelan R	IV/MECH	30	100	18	72	86
94	811215114014	Hariharan S	IV/MECH	30	100	19	76	88
95	811215114015	Jayaranjan AS	IV/MECH	30	100	18	72	86
96	811215114016	Joyal S	IV/MECH	30	100	20	80	90
97	811215114017	Karthick M	IV/MECH	30	100	18	72	86
98	811215114018	Karthik L	IV/MECH	27	90	19	76	83
99	811215114019	Karthikeyan K	IV/MECH	27	90	18	72	81



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S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Session Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
100	811215114020	Karupaiya R	IV/MECH	30	100	19	76	88
101	811215114021	Kathiravan M	IV/MECH	30	100	18	72	86
102	811215114023	Kristen Kennis K	IV/MECH	30	100	19	76	88
103	811215114024	Kumaran R	IV/MECH	30	100	20	80	90
104	811215114025	Manikandan N	IV/MECH	30	100	20	80	90
105	811215114026	Mathiyarasan S	IV/MECH	30	100	22	88	94
106	811215114027	Mohamed Burose A	IV/MECH	30	100	18	72	86


VAC Coordinator


Dr. G. Balakrishnan, M.E., Ph.D.,
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HOD/MECH



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Principal

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IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

Report on Value Added Course

Title:	Introduction to CAD, CAM & Practical CNC Machining		
Resource Person:	Mr. Prabahar Trainer CADD centre Trichy	Mr. Balaji Trainer CADD centre Trichy	
Date of conduct from :	05.11.2018	To: 09.11.2018	Duration: 30 Hours
Organized Department :	MECHANICAL ENGINEERING		
Participant Year:	2,3,4	No. of Students Registered :	106
Venue:	Mechanical Seminar Hall		

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Know to explain the CAD design process as applied to prismatic parts.
- Know how to summarize the workflow of digital manufacturing..
- Students are expected to learn and practice the skills they will need in the workplace.
- Know to recall foundational knowledge of practical CNC machining.
- They receive required training on CAD, CAM & Practical CNC Machining.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD/MECH


Principal



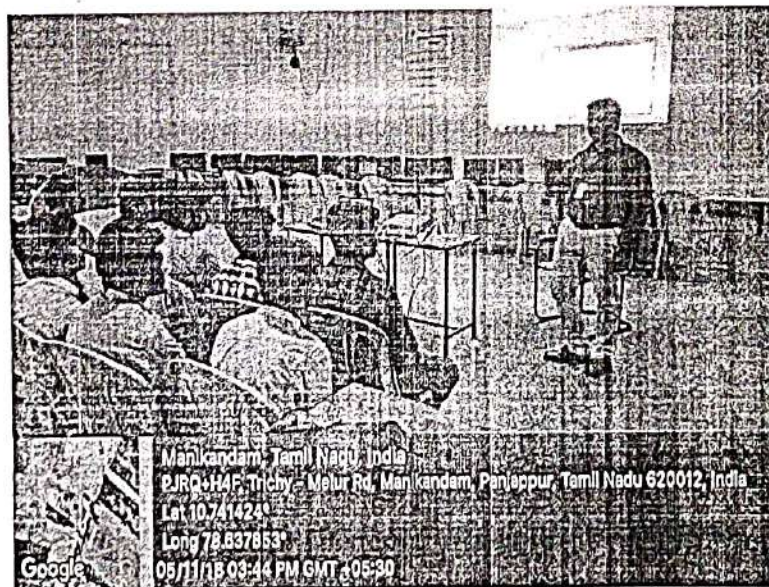
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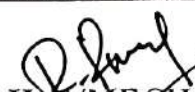
Sample Photo of Value Added Course

Title:	Introduction to CAD, CAM & Practical CNC Machining			
Resource Person:	Mr. Prabahar Trainer CADD centre Trichy	Mr. Balaji Trainer CADD centre Trichy		
Date of conduct from :	05.11.2018	To:	09.11.2018	Duration: 30 Hours
Organized Department :	MECHANICAL ENGINEERING			
Participant Year:	2,3,4	No. of Students Registered :	106	
Venue:	Mechanical Seminar Hall			

Sample Photo




VAC Coordinator


HOD/MECH


Principal

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.


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CENTRE

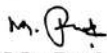
CADD CENTER

CERTIFICATE OF PARTICIPATION

Premier Plaza, No-122, II Floor, 5&44, Bharathiar Salai, Cantonment, Tiruchirappalli

This is to certify that Mr. Deepak P of IV Year MECH, Indra Ganesan College of Engineering has successfully completed the Value Added course Introduction to CAD, CAM & Practical CNC Machining conducted from 05 November 2018 to 09 November 2018 (5 days) during the Academic year 2018-2019 odd semester.


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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Sankandam, Trichy-620 012.


Mr. Prabhar,
CADD Centre

18/11 odd



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This is to certify that Mr. Santhosh M of IV Year MECH, Indra Ganesan College of Engineering has successfully completed the Value Added course Introduction to CAD, CAM & Practical CNC Machining conducted from 05 November 2018 to 09 November 2018 (5 days) during the Academic year 2018-2019 odd semester.

Dr. G. Balakrishnan, M.E., Ph.D.
Principal
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Manikandam Trichy-620 012.



Mr. Prabhar,
CADD Centre



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This is to certify that Mr. Revanth S of IV Year MECH, Indra Ganesan College of Engineering has successfully completed the Value Added course Introduction to CAD, CAM & Practical CNC Machining conducted from 05 November 2018 to 09 November 2018 (5 days) during the Academic year 2018-2019 odd semester.



Mr. Prabahar

Mr. Prabahar,
CADD Centre

Dr. G. Balakrishnan

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Tiruchirappalli-620 012



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This is to certify that Mr. Sudhakar R. of IV Year MECH, Indra Ganesan College of Engineering has successfully completed the Value Added course Introduction to CAD, CAM & Practical CNC Machining conducted from 05 November 2018 to 09 November 2018 (5 days) during the Academic year 2018-2019 odd semester.



Mr. Prabahar

Mr. Prabahar,
CADD Centre

Dr. G. Balakrishnan

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This is to certify that Mr. Prasanth C of IV Year MECH, Indra Ganesan College of Engineering has successfully completed the Value Added course Introduction to CAD, CAM & Practical CNC Machining conducted from 05 November 2018 to 09 November 2018 (5 days) during the Academic year 2018-2019 odd semester.



AS Prabakar

Mr. Prabakar,
CADD Centre

[Signature]

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Manikandam, Trichy-620 012.



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This is to certify that Mr. Ganesh M of IV Year MECH, Indra Ganesan College of Engineering has successfully completed the Value Added course Introduction to CAD, CAM & Practical CNC Machining conducted from 05 November 2018 to 09 November 2018 (5 days) during the Academic year 2018-2019 odd semester.



AS Prabakar

Mr. Prabakar,
CADD Centre

Dr. G. Balakrishnan

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This is to certify that Mr. Deepak P of IV Year MECH, Indra Ganesan College of Engineering has successfully completed the Value Added course Introduction to CAD, CAM & Practical CNC Machining conducted from 05 November 2018 to 09 November 2018 (5 days) during the Academic year 2018-2019 odd semester.



Mr. Prabahar

Mr. Prabahar,
CADD Centre

Dr. G. Balakrishnan

Dr. G. Balakrishnan, M.E., Ph.D.,
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This is to certify that Mr. Manoj Kumar K of III Year M.ECH, Indra Ganesan College of Engineering has successfully completed the Value Added course Introduction to CAD, CAM & Practical CNC Machining conducted from 05 November 2018 to 09 November 2018 (5 days) during the Academic year 2018-2019 odd semester.

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

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This is to certify that Mr. Karan K of III Year MECH, Indra Ganesan College of Engineering has successfully completed the Value Added course Introduction to CAD, CAM & Practical CNC Machining conducted from 05 November 2018 to 09 November 2018 (5 days) during the Academic year 2018-2019 odd semester.

Dr. G. Balakrishnan, M.E., Ph.D.,
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This is to certify that Mr. Vasanth S of III Year MECH, Indra Ganesan College of Engineering has successfully completed the Value Added course Introduction to CAD, CAM & Practical CNC Machining conducted from 05 November 2018 to 09 November 2018 (5 days) during the Academic year 2018-2019 odd semester.

Dr. G. Balakrishnan, M.E., Ph.D.,
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Mr. Prabahar,
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This is to certify that Mr. Gokul B of III Year MECH, Indra Ganesan College of Engineering has successfully completed the Value Added course Introduction to CAD, CAM & Practical CNC Machining conducted from 05 November 2018 to 09 November 2018 (5 days) during the Academic year 2018-2019 odd semester.

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal



Mr. Prabahar,
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Manikandam, Tiruchy 620 012




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This is to certify that Mr. Vignesh K. of III Year MECH, Indra Ganesan College of Engineering has successfully completed the Value Added course Introduction to CAD, CAM & Practical CNC Machining conducted from 05 November 2018 to 09 November 2018 (5 days) during the Academic year 2018-2019 odd semester.


Dr. G. Balakrishnan, M.E., Ph.D.,
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IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.




Mr. Prabahar,
CADD Centre





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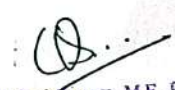
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This is to certify that Mr. Robert A of III Year MECH, Indra Ganesan College of Engineering has successfully completed the Value Added course Introduction to CAD, CAM & Practical CNC Machining conducted from 05 November 2018 to 09 November 2018 (5 days) during the Academic year 2018-2019 odd semester.


Dr. G. Balakrishnan, M.E., Ph.D.,
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Mr. Prabahar,
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This is to certify that Mr. Prakash M of II Year MECH, Indra Ganesan College of Engineering has successfully completed the Value Added course Introduction to CAD, CAM & Practical CNC Machining conducted from 05 November 2018 to 09 November 2018 (5 days) during the Academic year 2018-2019 odd semester.



**Mr. Prabahar,
CADD Centre**

**Dr. G. Balakrishnan, M.E., Ph.D.,
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This is to certify that Mr. Karthick S of II Year MECH, Indra Ganesan College of Engineering has successfully completed the Value Added course Introduction to CAD, CAM & Practical CNC Machining conducted from 05 November 2018 to 09 November 2018 (5 days) during the Academic year 2018-2019 odd semester.

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

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Mr. Prabahar,
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr. Dharman N of II Year MECH, Indra Ganesan College of Engineering has successfully completed the Value Added course Introduction to CAD, CAM & Practical CNC Machining conducted from 05 November 2018 to 09 November 2018 (5 days) during the Academic year 2018-2019 odd semester.

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This is to certify that Mr. Abdul Yasin S of II Year MECH, Indra Ganesan College of Engineering has successfully completed the Value Added course Introduction to CAD, CAM & Practical CNC Machining conducted from 05 November 2018 to 09 November 2018 (5 days) during the Academic year 2018-2019 odd semester.


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