



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 – 2

TEACHING-LEARNING AND EVALUATION

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL
INDRA GANESAN COLLEGE OF ENGINEERING





Criteria2

Teaching-Learning and Evaluation

350

KeyIndicator-2.3.Teaching-Learning Process (40)

2018-2019

PARTICIPATIVE LEARNING
MECHANICAL ENGINEERING

Activity	Number of Students Attended	Page No.
Value Added Course(VAC)	212	3
TOTAL STUDENTS ATTENDED	212	-



Criteria2

Teaching-Learning and Evaluation

350

KeyIndicator-2.3.Teaching-Learning Process (40)

2018-2019

MECHANICAL ENGINEERING

PARTICIPATIVE LEARNING

VALUE ADDED COURSE



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

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. Prabahar Trainer CADD centre Trichy
Venue	Mechanical Seminar Hall, IGCE


HOD/MECH


PRINCIPAL

Cc:

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


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



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.,
Principal

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Principal

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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 * Attendance in VAC out of 100 percentage + 0.5 * Test mark in VAC out of 100 marks)


VAC Coordinator


HoD/MECH


Principal



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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

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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.Vinayagamoorthy	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

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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-Even Semester

Value Added Course

“Introduction to CAD, CAM & Practical CNC Machining”

STUDENTS ATTENDANCE SHEET

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: 19.11.18		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1	811215114001	Aravindh M	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Aravindh
2	811215114002	Arunkumar T	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	a	9	Arunkumar
3	811215114004	Chelladurai R	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Chelladurai
4	811215114005	Christin Yesudoss A	IV/MECH	✓	✓	✓	✓	✓	a	✓	✓	✓	✓	9	Christin
5	811215114006	Crown Meshak J	IV/MECH	✓	✓	a	✓	✓	✓	✓	✓	✓	✓	9	Crown
6	811215114007	Dineshkumar B	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Dinesh
7	811215114008	Dinesh Kumar R	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Dinesh
8	811215114009	Dinesh Kumar V	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Dinesh Kumar



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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: 19.11.18		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
9	811215114010	Faizal Dasthahir S.B	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
10	811215114011	Gopi P	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
11	811215114012	Gunaseelan R	IV/MECH	a	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	<i>[Signature]</i>
12	811215114014	Hariharan S	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
13	811215114015	Jayaranjan AS	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
14	811215114016	Joyal S	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	<i>[Signature]</i>
15	811215114017	Karthick M	IV/MECH	✓	✓	✓	a	✓	✓	✓	✓	✓	✓	9	<i>[Signature]</i>
16	811215114018	Karthik L	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
17	811215114019	Karthikeyan K	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
18	811215114020	Karupaiya R	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	<i>[Signature]</i>
19	811215114021	Kathiravan M	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	<i>[Signature]</i>
20	811215114023	Kristen Kennis K	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
21	811215114024	Kumaran R	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
22	811215114025	Manikandan N	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	<i>[Signature]</i>
23	811215114026	Mathiyarasan S	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	<i>[Signature]</i>
24	811215114027	Mohamed Burose A	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	<i>[Signature]</i>
25	811215114028	Mohamed Ishaq S	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	<i>[Signature]</i>
26	811215114029	Mohandoss M	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>



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(Signature)
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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: 19.11.18		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
27	811215114030	Muralidharan R	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	<i>(Signature)</i>
28	811215114031	Mutharasu D	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	<i>(Signature)</i>
29	811215114032	Muthu Kumar S	IV/MECH	/	/	/	/	/	/	/	/	a	/	9	<i>(Signature)</i>
30	811215114033	Naveen Raj R	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	<i>(Signature)</i>
31	811215114034	Parthiban R	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	<i>(Signature)</i>
32	811215114035	Pradeep N	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	<i>(Signature)</i>
33	811215114036	Praveen Kumar J	IV/MECH	/	/	/	/	/	/	/	/	a	/	9	<i>(Signature)</i>
34	811215114037	Praveen Kumar M	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	<i>(Signature)</i>
35	811215114038	Premkumar R	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	<i>(Signature)</i>
36	811215114039	Ramachandran M	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	<i>(Signature)</i>
37	811215114040	Ramakannan A	IV/MECH	/	/	a	/	/	/	/	/	/	/	09	<i>(Signature)</i>
38	811215114041	Revanth S	IV/MECH	a	/	/	/	/	/	/	/	/	/	09	<i>(Signature)</i>
39	811215114042	Sabarinathan P	IV/MECH	/	/	/	/	/	/	/	/	a	/	9	<i>(Signature)</i>
40	811215114043	Saffar Hussain SB	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	<i>(Signature)</i>
41	811215114044	Sairaj M	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	<i>(Signature)</i>
42	811215114045	Santhosh M	IV/MECH	/	/	/	/	/	/	/	/	a	/	9	<i>(Signature)</i>
43	811215114046	Saravannan R	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	<i>(Signature)</i>
44	811215114047	Selva Kumar S	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	<i>(Signature)</i>



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				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
45	811215114048	Shyam Sundar R	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Sush.
46	811215114049	Solairaj P	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Solairaj
47	811215114050	Sudhakar R	IV/MECH	/	/	/	/	/	/	a	/	/	/	9	Sudhakar
48	811215114051	Sundaramaran P	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Sundaram
49	811215114052	Suseeindran V	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Suseeindran
50	811215114053	Syed Kaja S	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Syed Kaja
51	811215114054	Tamilarasan G	IV/MECH	/	/	/	/	/	a	/	/	/	/	9	Tamilarasan
52	811215114055	Thamotharan K	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Thamotharan
53	811215114056	Thanasekaran G	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Thanasekaran
54	811215114057	Valarmathi M	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Valarmathi
55	811215114058	Venkatesh Babu G	IV/MECH	/	/	/	/	a	/	/	/	/	/	9	Venkatesh
56	811215114059	Vincent Paul Raj	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Vincent Paul
57	811215114060	Yogeswaran K	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Yogeswaran
58	811215114302	Deepak P	IV/MECH	/	/	/	/	/	a	/	/	/	/	9	Deepak
59	811215114303	Ganesh M	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Ganesh
60	811215114304	Karthick R	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Karthick
61	811215114305	Karuppaiah M	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Karuppaiah
62	811215114306	Mahesh R.A.N	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Mahesh



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

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

Principal

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K. Valley, Madurai Main Road

Manikandam, Trichy-620 012

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	Naveen K
64	811216114025	Palanisamy K	III/MECH	/	/	/	/	a	a	/	/	a	a	6	Palanisamy K
65	811216114026	Pulamadan K	III/MECH	/	/	/	/	/	/	/	/	/	/	10	Pulamadan K
66	811216114027	Ramkumar R	III/MECH	/	/	/	/	/	/	/	a	/	/	9	Ramkumar R
67	811216114028	Robert A	III/MECH	/	/	/	/	a	a	/	/	/	/	8	Robert A
68	811216114029	Sasi Kumar S	III/MECH	/	/	/	/	/	/	/	/	/	/	10	Sasi Kumar S
69	811216114030	Senthil Kumar S	III/MECH	a	a	/	/	/	/	/	/	/	/	8	Senthil Kumar S
70	811216114031	Subash Salamon S	III/MECH	/	/	/	/	/	/	/	/	/	/	10	Subash Salamon S
71	811216114032	Tamilselvan C	III/MECH	/	/	a	a	/	/	/	/	/	/	8	Tamilselvan C
72	811216114033	Vairavel A	III/MECH	/	/	/	/	/	/	/	/	/	/	10	Vairavel A
73	811216114034	Vasudevan A	III/MECH	/	/	/	/	/	/	/	/	/	/	10	Vasudevan A
74	811216114035	Vengatraman V	III/MECH	/	/	/	/	/	/	/	/	/	/	10	Vengatraman V
75	811216114036	Vignesh K	III/MECH	/	/	/	/	/	/	/	a	a	/	8	Vignesh K
76	811216114037	Yanatharan T	III/MECH	/	/	/	/	/	/	/	/	/	/	8	Yanatharan T
77	811216114301	B.Gokul	III/MECH	/	/	/	/	/	/	/	/	/	/	10	B.Gokul
78	811216114302	S.Hariharan	III/MECH	/	/	/	/	/	/	/	/	/	a	8	S.Hariharan
79	811216114304	J.Karunakaran	III/MECH	/	/	/	/	/	/	/	/	/	/	8	J.Karunakaran
80	811216114305	Manoj Kumar K	III/MECH	a	a	/	/	/	/	/	/	/	/	10	Manoj Kumar K
81	811216114701	S.Vasanth	III/MECH	/	/	/	/	/	/	/	/	/	/	10	S.Vasanth
82	811216114702	V.K.Karthekeyan	III/MECH	/	/	/	/	/	/	/	/	/	/	10	V.K.Karthekeyan
83	811215114001	Aravindh M	IV/MECH	/	/	/	/	/	/	/	/	/	/	8	Aravindh M
84	811215114002	Arunkumar T	IV/MECH	a	a	/	/	/	/	/	/	/	/	10	Arunkumar T
85	811215114004	Chelladurai R	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Chelladurai R



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				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
				86	811215114005	Chella pandiyan	IV/MECH	/	/	/	/	/	/		
87	811215114006	Crown Meshak	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Crown Meshak
88	811215114007	Dineshkumar B	IV/MECH	a	a	/	/	/	/	/	/	/	/	8	dineshkumar
89	811215114008	Dinesh Kumar R	IV/MECH	/	/	/	/	a	a	/	/	/	/	8	Dinesh
90	811215114009	Dinesh Kumar V	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Dineshkumar
91	811215114010	Faizal Dasthahir S.B	IV/MECH	a	a	/	/	/	/	/	/	/	/	8	Faizal Dasthahir S.B
92	811215114011	Gopi P	IV/MECH	/	/	/	/	/	/	/	/	a	a	8	Gopi P
93	811215114012	Gunaseelan R	IV/MECH	a	/	/	/	/	/	/	/	/	/	9	Gunaseelan R
94	811215114014	Hariharan S	IV/MECH	/	/	a	a	/	/	a	a	/	/	6	hariharan s
95	811215114015	Jayaranjan AS	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Jayaranjan
96	811215114016	Joyal S	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Joyal S
97	811215114017	Karthick M	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Karthick M
98	811215114018	Karthik L	IV/MECH	/	/	a	a	/	/	/	/	/	/	10	Karthik L
99	811215114019	Karthikeyan K	IV/MECH	/	/	/	/	/	/	/	/	/	/	8	Karthikeyan K
100	811215114020	Karupaiya R	IV/MECH	a	/	/	/	/	/	/	/	/	/	10	Karupaiya R
101	811215114021	Kathiravan M	IV/MECH	/	/	/	/	/	/	/	/	/	/	9	Kathiravan M
102	811215114023	Kristen Kennis K	IV/MECH	/	/	/	/	/	/	/	/	/	/	10	Kristen
103	811215114024	Kumaran R	IV/MECH	/	/	/	/	/	/	a	a	a	a	6	Kumaran R
104	811215114025	Manikandan N	IV/MECH	/	/	a	a	/	/	/	/	/	/	10	Manikandan
105	811215114026	Mathiyarasan S	IV/MECH	/	/	/	/	/	/	/	/	/	/	8	Mathiyarasan S
106	811215114027	Mohamed Burose A	IV/MECH	/	/	/	/	a	a	/	/	/	/	10	Mohamed Burose A


VAE Coordinator


HoD/MECH



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COLLEGE OF ENGINEERING
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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)

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



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15. When setting up a machine configuration file, which of the following options is not available as a “capability”?
- a) Milling. c) Mill-turn.
b) Turning. d) Cutting.
16. Which setup operation type is the correct choice when using a waterjet to make a part?
- a) Cutting. c) Milling.
b) Grinding. d) Turning or mill/turn.
17. Fusion 360 uses yellow lines when displaying calculated toolpaths to indicate which of the following?
- a) Ramping movements. c) Rapid movements.
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18. The physical material for a body is assigned while in which workspace?
- a) Drawing. c) Animation.
b) Manufacture. d) Design.
19. Choosing the Rest Machining option in the 2D Pocket, 2D Contour or 2D Adaptive Clearing toolpaths is useful for which of the following?
- a) Removing only the remaining material from a previous toolpath. c) Machining only open pockets.
b) Aggressively roughing out material. d) Machining only fully enclosed pockets.
20. A pocket that meets the outer contour of a part and is not fully enclosed is commonly known as?
- a) An open pocket. c) A degenerate pocket.
b) A Partially enclosed pocket. d) A semi-pocket.
21. One purpose of creating User Parameters is to:
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22. Which of the following cannot be applied to Bodies alone?
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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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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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VAC Coordinator


HoD/MECHANICAL



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Name of the Student : R. Chelladurai

Year/Sem: [N] - mech

AU Register Number: 811215114004

Value Added Course

“Introduction to CAD, CAM & Practical CNC Machining”

MCQ QUESTIONS (25X4 = 100 Marks)

19
25

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CADD[®]
CENTRE

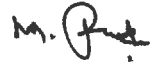
CADD CENTER

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.


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Mr. Prabahar,
CADD Centre



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

STUDENTS ASSESEMENT SHEET

“Introduction to CAD, CAM & Practical CNC Machining”

(Signature)
Dr. G. Balakrishnan, M.E., Ph.D.,
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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)	
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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				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (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)	OVERALL 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



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Tiruchirapalli- 620 012
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Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
10 Valley, Madurai Main Road
Manikandam, Tiruchirapalli-620012.

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)	
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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Principal

Indra Ganesan College of Engineering
IG Vellore, Madurai, Manikandam, Trichy

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)	
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	Pulamadan 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 Salamon 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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COLLEGE OF ENGINEERING
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Principal

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IGV Main Road, Manikandam,
Madurai, 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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COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli- 620 012
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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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Manikandam, Trichy-620 012


HOD/MECH



Indra Ganesan

COLLEGE OF ENGINEERING
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Principal

Indra Ganesan College of Engineering
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



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirapalli- 620 012
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Department of Mechanical Engineering

Academic Year 2018-2019 EVEN Semester

Date: 05.06.2019

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 “Model Based Systems Engineering” from 11.06.2019 to 15.06.2019. 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. Jaya kumar Trainer CADD centre Trichy
Venue	Mechanical Seminar Hall, IGCE


Ho/MECH

Cc:

- Principal office.
- Class In charges - II, III & IV Year
- Class Rooms of 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.



Indra Ganesan

COLLEGE OF ENGINEERING

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Value Added Course

“Model Based Systems Engineering”

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Model-based Systems Engineering and Object-Process Methodology	3	11.06.2019
2	OPM Objects, Processes, and States	3	11.06.2019
3	Relations between Things	3	12.06.2019
4	Creation and consumption of objects	3	12.06.2019
5	Transitions between object states	3	13.06.2019
6	System aspects: Function, structure, and behavior	3	13.06.2019
7	Object-Process Language	3	14.06.2019
8	The System Diagram	3	14.06.2019
9	System purpose, beneficiary, and benefit	3	15.06.2019
10	System function: Main process and its operand	3	15.06.2019
11	Exam	1	15.06.2019
Total Hours (Excluding Assessment)		30	-


VAC Coordinator


Dr. G. Balakrishnan, M.E., Ph.D.,
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HoD/MECHANICAL



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli- 620 012
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Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

“Value Added Course”

“Model Based Systems Engineering”

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



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli- 620 012
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S.No.	Reg.No	Student's Name	Year/ Branch
23	811217114027	G.Sairam	II/MECH
24	811217114028	R.Sankaralingam	II/MECH
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

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S.No.	Reg.No	Student's Name	Year/ Branch
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
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

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COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli- 620 012
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S.No.	Reg.No	Student's Name	Year/ Branch
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
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

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COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirapalli- 620 012
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S.No.	Reg.No	Student's Name	Year/ Branch
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 Co ordinator


HoD/Mechanical


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Manikandam, Trichy-620 012.



Department of Mechanical Engineering

Academic Year 2018-2019-Odd Semester

STUDENTS ATTENDANCE SHEET

Value Added course

“Model Based Systems Engineering”

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

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		
				1	811217114001	S.Abdul Yasin	II MECH	/	/	/	/	/	/		
2	811217114002	R.Ajithkumar	II MECH	/	/	a	/	/	/	/	/	/	/	9	Ajith.
3	811217114003	S.Anandha Kumar	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Ankur
4	811217114004	M.Ananth	II MECH	✓	✓	✓	✓	a	✓	✓	✓	✓	✓	9	Anur.
5	811217114005	R.Chellaiah	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Ch.
6	811217114006	C.Devarajan	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Dh.
7	811217114007	S.Dhamotharan	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Dhamo
8	811217114008	A.Dhanussh	II MECH	✓	✓	✓	✓	a	✓	✓	✓	✓	✓	9	Dhanus
9	811217114009	C.Dharanidharan	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Dharan
10	811217114010	N.Dharman	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Dharman
11	811217114013	M.Hariharasudhan	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Harihar
12	811217114014	A.Jawagar	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Jawagar



Indra Ganesan

COLLEGE OF ENGINEERING
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				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
13	811217114015	Karthick S	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Karthick S
14	811217114016	D.Madhan	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	D.Madhan
15	811217114018	M.Mohammed Faizal	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	09	M.Mohammed Faizal
16	811217114019	S.Mohanraj	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	S.Mohanraj
17	811217114020	R.Munishwaran	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	R.Munishwaran
18	811217114021	P.Murugan	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	P.Murugan
19	811217114022	P.Ponnar	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	P.Ponnar
20	811217114023	M.Prakash	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	M.Prakash
21	811217114025	M.Rajamuni	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	M.Rajamuni
22	811217114026	La.Ramanathan	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	La.Ramanathan
23	811217114027	G.Sairam	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	G.Sairam
24	811217114028	R.Sankaralingam	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	R.Sankaralingam
25	811217114030	M.Selvakumar	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	M.Selvakumar
26	811217114031	A.Shameer	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	A.Shameer
27	811217114032	D.Sivakumar	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	D.Sivakumar
28	811217114033	A.Sriram	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	A.Sriram
29	811217114034	S.Thirumurugan	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	09	S.Thirumurugan
30	811217114035	A.Vengatesh	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	A.Vengatesh
31	811217114036	M.Venkatesh	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	M.Venkatesh
32	811217114037	P.Vinayagamoorthy	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	P.Vinayagamoorthy
33	811217114038	B.Vinothraja	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	B.Vinothraja
34	811217114039	D.Yugesh	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	D.Yugesh
35	811217114301	K.Arun	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	K.Arun



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				36	811217114302	K.Santhosh Kumar	II MECH	✓	✓	✓	✓	✓	✓		
37	811217114303	R.Thirumoorthi	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
38	811217114012	R.Hariharan	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
39	811217114029	C.Sarathkumar	II MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
40	811216114001	Ajmalkhan K	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
41	811216114002	Amar Praveen D	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
42	811216114003	Anandaperumal P	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
43	811216114004	Chinnappan A	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
44	811216114005	Dayas Kumar M	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
45	811216114006	Dhinakaran K	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
46	811216114007	Dhinakaran S	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
47	811216114008	Dinesh Babu M	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
48	811216114009	Gobi P	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
49	811216114010	Gopinath N	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
50	811216114011	Gunaseelan G	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
51	811216114012	Hariram S	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
52	811216114013	Harish M	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
53	811216114014	Karan K	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
54	811216114015	Karthick A	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
55	811216114016	Kingsley J	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
56	811216114017	Kiruthikeyan P	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
57	811216114018	Krishna Prakash N	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]
58	811216114019	Mahendran A	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	[Signature]



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59	811216114020	Mahendran K	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	K. Mahendran
60	811216114021	Nagarajan K	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	K. Nagarajan
61	811216114022	Nambiyappan K	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	K. Nambiyappan
62	811216114023	Nandha Kumar P	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	P. Nandha Kumar
63	811216114024	Naveen Kumar K	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	K. Naveen Kumar
64	811216114025	Palanisamy K	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	K. Palanisamy
65	811216114026	Pulamadan K	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	K. Pulamadan
66	811216114027	Ramkumar R	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	R. Ramkumar
67	811216114028	Robert A	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	A. Robert
68	811216114029	Sasi Kumar S	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	S. Sasi Kumar
69	811216114030	Senthil Kumar B	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	B. Senthil Kumar
70	811216114031	Subash Salamon S	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	S. Subash Salamon
71	811216114032	Tamilselvan C	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	C. Tamilselvan
72	811216114033	Vairavel A	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	A. Vairavel
73	811216114034	Vasudevan A	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	A. Vasudevan
74	811216114035	Vengatraman V	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	V. Vengatraman
75	811216114036	Vignesh K	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	K. Vignesh
76	811216114037	Yanatharan T	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	T. Yanatharan
77	811216114301	B.Gokul	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8	B. Gokul
78	811216114302	S.Hariharan	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	S. Hariharan
79	811216114304	J.Karunakaran	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	J. Karunakaran
80	811216114305	Manoj Kumar K	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	K. Manoj Kumar
81	811216114701	S.Vasanth	III/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	S. Vasanth



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82	811216114702	V.K.Karthekeyan	III/MECH	✓	✓	✓	a	✓	✓	✓	✓	✓	✓	9	V. K. Karthekeyan
83	811215114001	Aravindh M	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	M. Aravindh
84	811215114002	Arunkumar T	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	T. Arunkumar
85	811215114004	Chelladurai R	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	R. Chelladurai
86	811215114005	Christin Yesudoss A	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	A. Christin Yesudoss
87	811215114006	Crown Meshak J	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	J. Crown Meshak
88	811215114007	Dineshkumar B	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	B. Dineshkumar
89	811215114008	Dinesh Kumar R	IV/MECH	✓	a	✓	✓	✓	✓	✓	✓	✓	✓	9	R. Dinesh Kumar
90	811215114009	Dinesh Kumar V	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	V. Dinesh Kumar
91	811215114010	Faizal Dasthahir S.B	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	S.B. Faizal Dasthahir
92	811215114011	Gopi P	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	P. Gopi
93	811215114012	Gunaseelan R	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	R. Gunaseelan
94	811215114014	Hariharan S	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	S. Hariharan
95	811215114015	Jayaranjan AS	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	AS. Jayaranjan
96	811215114016	Joyal S	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	S. Joyal
97	811215114017	Karthick M	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	M. Karthick
98	811215114018	Karthik L	IV/MECH	✓	✓	a	✓	✓	✓	✓	✓	✓	✓	9	L. Karthik
99	811215114019	Karthikeyan K	IV/MECH	✓	✓	✓	✓	✓	a	✓	✓	✓	✓	9	K. Karthikeyan
100	811215114020	Karupaia R	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	R. Karupaia
101	811215114021	Kathiravan M	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	M. Kathiravan
102	811215114023	Kristen Kennis K	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	K. Kristen Kennis
103	811215114024	Kumaran R	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	R. Kumaran
104	811215114025	Manikandan N	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	N. Manikandan



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105	811215114026	Mathiyarasan S	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>S. Mathiyarasan</i>
106	811215114027	Mohamed Burose A	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>A. M. Burose</i>

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VAC Coordinator

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P. P. J.
HoD/MECH



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Name of the Student

Year/Sem:

AU Register Number:

Value Added Course

“Model Based Systems Engineering”

MCO QUESTIONS (25X4 = 100 Marks)

1. The Unified Modeling Language (UML) has become an effective standard for software modelling. How many different notations does it have?
a) Three. c) Four.
b) Six. d) Nine
2. Which model in system modelling depicts the dynamic behaviour of the system ?
a) Context Model. c) Data Model
b) Behavioral Model d) Object Model
3. Which model in system modelling depicts the static nature of the system ?
a) Structural Model c) Context Model
b) Data Model d) Behavioral Model.
4. Which perspective in system modelling shows the system or data architecture.
a) Behavioral perspective c) External perspective
b) Structural perspective d) All of the mentioned
5. Which system model is being depicted by the ATM operations shown below:
a) Context model c) Behavioral model
b) Structural model d) Interaction model
6. Activity diagrams are used to model the processing of data.
a) True c) False
b) Immobilizing. d) Grounding.

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7. Model-driven engineering is just a theoretical concept. It cannot be converted into a working/executable code.
- a) False
b) True
c) Movable jaw.
d) The vise screw.
8. The UML supports event-based modeling using _____
- a) Deployment
b) State chart
c) Collaboration
d) All of the mentioned
9. Which of the following diagram is not supported by UML considering Data-driven modeling ?
- a) Data Flow Diagram (DFD)
b) Activity
c) State Chart
d) Component
10. _____ allows us to infer that different members of classes have some common characteristics.
- a) Realization
b) Aggregation
c) Generalization
d) dependency
11. One creates Behavioral models of a system when you are discussing and designing the system architecture.
- a) False.
b) True
c) Relative size models
d) Relative size models
12. _____ & _____ diagrams of UML represent Interaction modeling.
- a) Class, Object
b) Use Case, Sequence
c) Activity, State Chart
d) All of the mentioned
13. Which level of Entity Relationship Diagram (ERD) models all entities and relationships?
- a) Level 4
b) Level 3
c) Level 1
d) Level 2

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14. _____ classes are used to create the interface that the user sees and interacts with as the software is used.
- a) Controller
b) Boundary
c) Entity
d) Business
15. Which of the following statement is incorrect regarding the Class-responsibility-collaborator (CRC) modeling ?
- a) All use-case scenarios (and corresponding use-case diagrams) are organized into categories in CRC modelling
b) The review leader reads the use-case deliberately
c) Only developers in the review (of the CRC model) are given a subset of the CRC model index cards
d) All of the mentioned
16. A data object can encapsulates processes and operation as well.
- a) False
b) Grinding.
c) Milling.
d) True.
17. The two dimensions of spiral model are
- a) diagonal, angular
b) radial, perpendicular.
c) radial, angular.
d) diagonal, perpendicular
18. The Incremental Model is combination of elements of
- a) Build & FIX Model & Waterfall Model
b) Linear Model & RAD Model.
c) Waterfall Model & RAD Model
d) Linear Model & Prototyping Model.
19. Model preferred to create client/server applications is
- a) Concurrent Model
b) Spiral Model
c) WINWIN Spiral Model
d) Incremental Model
20. Spiral model was developed by
- a) Berry Boehm
b) Victor Bisili
c) Bev Littlewood.
d) Roger Pressman.
21. Software evolution does not comprises:

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21. Software evolution does not comprises:
- a) Development activities
 - b) Re-engineering activities.
 - c) Maintenance activities
 - d) Negotiating with client
22. Which technique is applied to ensure the continued evolution of legacy systems ?
- a) Reverse Engineering and Reengineering
 - b) Reengineering
 - c) Reverse Engineering.
 - d) Forward engineering
23. Program modularization and Source code translation are the activities of _____
- a) Reengineering
 - b) Reverse Engineering and Reengineering
 - c) Reverse Engineering.
 - d) Forward engineering
24. Reverse engineering is the last activity in a reengineering project.
- a) True
 - b) X nuts.
 - c) False.
 - d) Square nuts.
25. The cost of re-engineering is often significantly less than the costs of developing new software.
- a) True.
 - b) False.
 - c) Duplicated.
 - d) Deleted.

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Value Added Course
“Model Based Systems Engineering”

ANSWER KEY

1	d	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

VAC Coordinator



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Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli 620 012
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Name of the Student

N. Shanman

Year/Sem: II / mech

AU Register Number:

811217114010

Value Added Course

“Model Based Systems Engineering”

MCQ QUESTIONS (25X4 = 100 Marks)

20
25

1. The Unified Modeling Language (UML) has become an effective standard for software modelling. How many different notations does it have?
 a) Three. c) Four.
 b) Six. d) Nine
2. Which model in system modelling depicts the dynamic behaviour of the system ?
 a) Context Model. c) Data Model
 b) Behavioral Model d) Object Model
3. Which model in system modelling depicts the static nature of the system ?
 a) Structural Model c) Context Model
 b) Data Model d) Behavioral Model.
4. Which perspective in system modelling shows the system or data architecture.
 a) Behavioral perspective c) External perspective
 b) Structural perspective d) All of the mentioned
5. Which system model is being depicted by the ATM operations shown below:
 a) Context model c) Behavioral model
 b) Structural model d) Interaction model
6. Activity diagrams are used to model the processing of data.
 a) True c) False
 b) Immobilizing. d) Grounding.

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7. Model-driven engineering is just a theoretical concept. It cannot be converted into a working/executable code.
- (a) False c) Movable jaw.
b) True d) The vise screw.
8. The UML supports event-based modeling using _____
- a) Deployment c) Collaboration
 (b) State chart d) All of the mentioned
9. Which of the following diagram is not supported by UML considering Data-driven modeling ?
- (a) Data Flow Diagram (DFD) c) State Chart
 (b) Activity d) Component
10. _____ allows us to infer that different members of classes have some common characteristics.
- (a) Realization c) Generalization
 (b) Aggregation d) dependency
11. One creates Behavioral models of a system when you are discussing and designing the system architecture.
- (a) False. c) Relative size models
b) True d) Relative size models
12. _____ & _____ diagrams of UML represent Interaction modeling.
- a) Class, Object c) Activity, State Chart
b) Use Case, Sequence (d) All of the mentioned
13. Which level of Entity Relationship Diagram (ERD) models all entities and relationships?
- a) Level 4 (c) Level 1
b) Level 3 d) Level 2


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14. _____ classes are used to create the interface that the user sees and interacts with as the software is used.
- a) Controller c) Entity
b) Boundary d) Business
15. Which of the following statement is incorrect regarding the Class-responsibility-collaborator (CRC) modeling ?
- a) All use-case scenarios (and corresponding use-case diagrams) are organized into categories in CRC modelling c) Only developers in the review (of the CRC model) are given a subset of the CRC model index cards
b) The review leader reads the use-case deliberately d) All of the mentioned
16. A data object can encapsulates processes and operation as well.
- a) False c) Milling.
b) Grinding. d) True.
17. The two dimensions of spiral model are
- a) diagonal, angular c) radial, angular.
b) radial, perpendicular. d) diagonal, perpendicular
18. The Incremental Model is combination of elements of
- a) Build & FIX Model & Waterfall Model c) Waterfall Model & RAD Model
b) Linear Model & RAD Model. d) Linear Model & Prototyping Model.
19. Model preferred to create client/server applications is
- a) Concurrent Model c) WINWIN Spiral Model
b) Spiral Model d) Incremental Model
20. Spiral model was developed by
- a) Berry Boehm c) Bev Littlewood.
b) Victor Bisili d) Roger Pressman.
21. Software evolution does not comprises:

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21. Software evolution does not comprises:
- a) Development activities
 - b) Re-engineering activities.
 - c) Maintenance activities
 - d) Negotiating with client
22. Which technique is applied to ensure the continued evolution of legacy systems ?
- a) Reverse Engineering and Reengineering
 - b) Reengineering
 - c) Reverse Engineering.
 - d) Forward engineering
23. Program modularization and Source code translation are the activities of _____
- a) Reengineering
 - b) Reverse Engineering and Reengineering
 - c) Reverse Engineering.
 - d) Forward engineering
24. Reverse engineering is the last activity in a reengineering project.
- a) True
 - b) X nuts.
 - c) False.
 - d) Square nuts.
25. The cost of re-engineering is often significantly less than the costs of developing new software.
- a) True.
 - b) False.
 - c) Duplicated.
 - d) Deleted.

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Department of Mechanical Engineering

Academic Year 2018-2019-Odd Semester

STUDENTS ASSESEMENT SHEET

Value Added course

“Model Based Systems Engineering”


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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	811217114001	S.Abdul Yasin	II MECH	30	100	20	80	90
2	811217114002	R.Ajithkumar	II MECH	27	90	19	76	83
3	811217114003	S.Anandha Kumar	II MECH	30	100	19	76	88
4	811217114004	M.Ananth	II MECH	30	100	22	88	94
5	811217114005	R.Chellaiah	II MECH	30	100	18	72	86
6	811217114006	C.Devarajan	II MECH	30	100	19	76	88
7	811217114007	S.Dhamotharan	II MECH	30	100	18	72	86
8	811217114008	A.Dhanussh	II MECH	30	100	18	72	86
9	811217114009	C.Dharanidharan	II MECH	30	100	19	76	88
10	811217114010	N.Dharman	II MECH	30	100	20	80	90
11	811217114013	M.Hariharasudhan	II MECH	27	90	20	80	85



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				No. of Session Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
12	811217114014	A.Jawagar	II MECH	30	100	20	80	90
13	811217114015	Karthick S	II MECH	30	100	22	88	94
14	811217114016	D.Madhan	II MECH	30	100	18	72	86
15	811217114018	M.Mohammed Faizal	II MECH	30	100	19	76	88
16	811217114019	S.Mohanraj	II MECH	27	90	19	76	83
17	811217114020	R.Munishwaran	II MECH	30	100	20	80	90
18	811217114021	P.Murugan	II MECH	30	100	22	88	94
19	811217114022	P.Ponnar	II MECH	30	100	18	72	86
20	811217114023	M.Prakash	II MECH	30	100	22	88	94
21	811217114025	M.Rajamuni	II MECH	30	100	18	72	86
22	811217114026	La.Ramanathan	II MECH	30	100	22	88	94
23	811217114027	G.Sairam	II MECH	30	100	22	88	94
24	811217114028	R.Sankaralingam	II MECH	30	100	20	80	90
25	811217114030	M.Selvakumar	II MECH	30	100	18	72	86
26	811217114031	A.Shameer	II MECH	30	100	19	76	88
27	811217114032	D.Sivakumar	II MECH	30	100	20	80	90
28	811217114033	A.Sriram	II MECH	30	100	18	72	86
29	811217114034	S.Thirumurugan	II MECH	27	90	18	72	81
30	811217114035	A.Vengatesh	II MECH	30	100	18	72	86
31	811217114036	M.Venkatesh	II MECH	30	100	20	80	90
32	811217114037	P.Vinayagamoorthy	II MECH	30	100	20	80	90
33	811217114038	B.Vinothraja	II MECH	30	100	18	72	86



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VAC MCQ TEST
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				No. of Session Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
34	811217114039	D.Yugesh	II MECH	30	100	19	76	88
35	811217114301	K.Arun	II MECH	30	100	18	72	86
36	811217114302	K.Santhosh Kumar	II MECH	30	100	20	80	90
37	811217114303	R.Thirumoorthi	II MECH	30	100	18	72	86
38	811217114012	R.Hariharan	II MECH	27	90	19	76	83
39	811217114029	C.Sarathkumar	II MECH	30	100	22	88	94
40	811216114001	Ajmalkhan K	III/MECH	30	100	18	72	86
41	811216114002	Amar Praveen D	III/MECH	27	90	19	76	83
42	811216114003	Anandaperumal P	III/MECH	30	100	18	72	86
43	811216114004	Chinnappan A	III/MECH	30	100	19	76	88
44	811216114005	Dayas Kumar M	III/MECH	30	100	20	80	90
45	811216114006	Dhinakaran K	III/MECH	30	100	18	72	86
46	811216114007	Dhinakaran S	III/MECH	24	80	19	76	78
47	811216114008	Dinesh Babu M	III/MECH	30	100	22	88	94
48	811216114009	Gobi P	III/MECH	30	100	18	72	86
49	811216114010	Gopinath N	III/MECH	30	100	19	76	88
50	811216114011	Gunaseelan G	III/MECH	27	90	18	72	81
51	811216114012	Hariram S	III/MECH	30	100	19	76	88
52	811216114013	Harish M	III/MECH	30	100	18	72	86
53	811216114014	Karan K	III/MECH	30	100	19	76	88
54	811216114015	Karthick A	III/MECH	30	100	20	80	90
55	811216114016	Kingsley J	III/MECH	30	100	20	80	90



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VAC-MCQ TEST

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)	
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	Pulamadan 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 Salamon 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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VAC MCQ TEST

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				No. of Session Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (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	86
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	86
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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				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


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REPORT ON VALUE ADDED COURSE


Title:	Model Based Systems Engineering			
Resource Person:	Mr. Balaji Trainer CADD center Trichy	Mr. Jaya kumar Trainer CADD center Trichy		
Date of conduct from :	11.06.2019	To:	15.06.2019	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 Model-based Systems Engineering and Object-Process Methodology
- Know how to Creation and consumption of objects
- Learnt and Demonstrate Object-Process Language
- Students are expected to learn and practice the Problem occurrence
- Know to recall Refining synchronous processes: In-zooming
- They receive required training Link uniqueness and model fact representation principles

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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Principal

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SAMPLE PHOTOS OF VALUE ADDED COURSE

Title:	Model Based Systems Engineering				
Resource Person:	Mr. Balaji Trainer CADD center Trichy		Mr. Jaya kumar Trainer CADD center Trichy		
Date of conduct from :	11.06.2019	To:	15.06.2019	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



Manikandam, Tamil Nadu, India
P/RQ4H4F, Trichy, Madurai Rd, Manikandam, Tiruchirapalli, Tamil Nadu 620012, India
Lat: 10.741424
Long: 78.637883
15/06/19 03:44 PM GMT+05:30


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Principal
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Manikandam, Trichy-620 012


VAC Coordinator


H.O. MECH



Principal

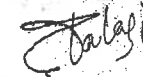
CADD CENTRE

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

CERTIFICATE OF PARTICIPATION

This is to certify that Mr. Ajmalkhan K of III Year M ECH, Indra Ganesan College of Engineering has successfully completed the Value Added course Model Based Systems Engineering conducted from 11 June 2019 to 15 June 2019 (5 days) during the Academic year 2018-2019 Even Semester.


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Mr. Balaji,
CADD Centre