



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 2019-20 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:	Evaluation of CREO				
Resource Person:	Mr.Prabakar &Mr.Jayakumar Trainer CADD center Trichy				
Date of conduct from:	09.12.2019	To:	13.12.2019	Duration:	30 Hours
Organized Department:	MECHANICAL ENGINEERING				
Participant Year:	Mech IV Year	Semester:	ODD	No. of Students Registered:	41
Venue:	Mechanical Seminar Hall				

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Indra Ganesan

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

Academic Year 2019-2020 – Odd Semester

Date: 07.12.2019

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 “Evaluation of CREO” from 09.12.2019 to 13.12.2019. 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	<ol style="list-style-type: none">1. Mr. Prabahar Trainer CADD centre Trichy2. Mr. Jaya kumar Trainer CADD centre Trichy
Venue	Mechanical Seminar Hall, IGCE

HOD, MECH

PRINCIPAL

Cc:

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



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Value Added Course


"Evaluation of CREO"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	CREO Parametric Interface, Concepts, Managing Files in CREO	3	09.12.2019
2	Creating and Modifying Sketches, Extrudes and Chamfers	3	09.12.2019
3	Creating Revolves and Rounds	3	10.12.2019
4	Understanding Datum, Patterns	3	10.12.2019
5	Creating Sweep Features, Helical Sweep Features	3	11.12.2019
6	Creating Blends, Swept Blends, Copy and Paste Functionality	3	11.12.2019
7	Creating Shells, Draft, Holes, Ribs	3	12.12.2019
8	Relations and Parameters, Deleting, Suppressing	3	12.12.2019
9	Managing Design-Intent, Analysing Mass Properties	3	13.12.2019
10	Assembling With Constraints, Drafting In CREO	3	13.12.2019
11	Test	1	13.12.2019
Total Hours Excluding Assessment		30	-


VAC Coordinator


HoD/MECH


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

“Evaluation of CREO”

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

STUDENTS PARTICIPATION LIST

S.No.	Reg.No	Student's Name	Year/ Branch
1	811216114001	Ajmalkhan K	IV/MECH
2	811216114002	Amar Praveen D	IV/MECH
3	811216114003	Anandaperumal P	IV/MECH
4	811216114004	Chinnappan A	IV/MECH
5	811216114005	Dayas Kumar M	IV/MECH
6	811216114006	Dhinakaran K	IV/MECH
7	811216114007	Dhinakaran S	IV/MECH
8	811216114008	Dinesh Babu M	IV/MECH
9	811216114009	Gobi P	IV/MECH
10	811216114010	Gopinath N	IV/MECH
11	811216114011	Gunaseelan G	IV/MECH
12	811216114012	Hariram S	IV/MECH
13	811216114013	Harish M	IV/MECH
14	811216114014	Karan K	IV/MECH
15	811216114015	Karthick A	IV/MECH
16	811216114016	Kingsley J	IV/MECH
17	811216114017	Kiruthikeyan P	IV/MECH
18	811216114018	Krishna Prakash N	IV/MECH
19	811216114019	Mahendran A	IV/MECH
20	811216114020	Mahendran K	IV/MECH
21	811216114021	Nagarajan K	IV/MECH
22	811216114022	Nambiyappan K	IV/MECH
23	811216114023	Nandha Kumar P	IV/MECH
24	811216114024	Naveen Kumar K	IV/MECH
25	811216114025	Palanisamy K	IV/MECH
26	811216114026	Pulamadan K	IV/MECH
27	811216114027	Ramkumar R	IV/MECH
28	811216114028	Robert A	IV/MECH




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S.No.	Reg.No	Student's Name	Year/ Branch
29	811216114029	Sasi Kumar S	IV/MECH
30	811216114030	Senthil Kumar B	IV/MECH
31	811216114031	Subash Salamon S	IV/MECH
32	811216114032	Tamilselvan C	IV/MECH
33	811216114033	Vairavel A	IV/MECH
34	811216114034	Vasudevan A`	IV/MECH
35	811216114035	Vengatraman V	IV/MECH
36	811216114036	Vignesh K	IV/MECH
37	811216114037	Yanatharan T	IV/MECH
38	811216114301	B.Gokul	IV/MECH
39	811216114302	S.Hariharan	IV/MECH
40	811216114304	J.Karunakaran	IV/MECH
41	811216114305	Manoj Kumar K	IV/MECH


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


HoB MECH



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Report on Value Added Course

Title:	Evaluation of CREO				
Resource Person:	Mr. Jayakumar & Mr. Prabahar, Trainer, CADD centre, Trichy				
Date of conduct from :	09.12.2019	To:	13.12.2019	Duration:	30 Hours
Organized Department :	MECHANICAL ENGINEERING				
Participant Year:	4	No. of Students Registered :	41		
Venue:	Mechanical Seminar hall				

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

- Know to explain the CREO Parametric Interface, Concepts.
- Know how to Creating and Modifying Sketches
- Learn and Demonstrate Datum, Patterns, basic commands
- Students are expected to learn the special tools like Creating Shells, Draft, Holes, Ribs.
- Know to recall Assembling with Constraints, Drafting in CREO.
- They receive required training on Animating Assemblies, Applying Mechanism to Assemblies, Creating Sheet Metal Work

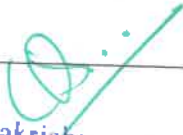
Assessment Process

- 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:	Evaluation of CREO			
Resource Person:	Mr. Jayakumar & Mr. Prabahar, Trainer, CADD centre, Trichy			
Date of conduct from :	09.12.2019	To:	13.12.2019	Duration: 30 Hours
Organized Department :	MECHANICAL ENGINEERING			
Participant Year:	4	No. of Students Registered :	41	
Venue:	Mechanical Seminar hall			


Sample Photo




VAC Coordinator


HOD MECH

Principal


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Department of Mechanical Engineering
Academic Year 2019-2020 – Odd Semester

STUDENTS ATTENDANCE LIST

Value Added Course

"Evaluation of CREO"

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	811216114001	Aimalkhan K	IV/MECH	✓	✓	✓	✓	✓	✓		
2	811216114002	Amar Praveen D	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
3	811216114003	Anandaperumal P	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
4	811216114004	Chinnappan A	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
5	811216114005	Dayas Kumar M	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	<i>[Signature]</i>
6	811216114006	Dhinakaran K	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
7	811216114007	Dhinakaran S	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
8	811216114008	Dinesh Babu M	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	<i>[Signature]</i>
9	811216114009	Gobi P	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
10	811216114010	Gopinath N	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
11	811216114011	Gunaseelan G	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
12	811216114012	Hariram S	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
13	811216114013	Harish M	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
14	811216114014	Karan K	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	<i>[Signature]</i>
15	811216114015	Karthick A	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
16	811216114016	Kingsley J	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>
17	811216114017	Kiruthikeyan P	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	<i>[Signature]</i>



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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		
18	811216114018	Krishna Prakash N	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Krishna Prakash N
20	811216114019	Mahendran A	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Mahendran A
21	811216114020	Mahendran K	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Mahendran K
21	811216114021	Nagaraian K	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Nagaraian K
22	811216114022	Nambiyappan K	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Nambiyappan K
23	811216114023	Nandha Kumar P	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Nandha Kumar P
24	811216114024	Naveen Kumar K	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Naveen Kumar K
25	811216114025	Palanisamy K	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Palanisamy K
26	811216114026	Pulamadan K	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Pulamadan K
27	811216114027	Ramkumar R	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Ramkumar R
28	811216114028	Robert A	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Robert A
29	811216114029	Sasi Kumar S	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Sasi Kumar S
30	811216114030	Senthil Kumar B	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Senthil Kumar B
31	811216114031	Subash Salamon S	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Subash Salamon S
32	811216114032	Tamilselvan C	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Tamilselvan C
33	811216114033	Vairavel A	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	Vairavel A
34	811216114034	Vasudevan A	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Vasudevan A
35	811216114035	Vengatraman V	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Vengatraman V
36	811216114036	Vignesh K	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8	Vignesh K
37	811216114037	Yanatharan T	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Yanatharan T
38	811216114301	B.Gokul	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	B.Gokul
39	811216114302	S.Hariharan	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	S.Hariharan
40	811216114304	J.Karunakaran	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	J.Karunakaran
41	811216114305	Manoj Kumar K	IV/MECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Manoj Kumar K


VAC Coordinator

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



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Department of Mechanical Engineering

Academic Year 2019-2020 – Odd Semester

VALUE ADDED COURSE ASSESEMENT SHEET

“Evaluation of CREO”

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	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)	
1	811216114001	Ajmalkhan K	IV/MECH	24	80	20	80	80
2	811216114002	Amar Praveen D	IV/MECH	30	100	18	72	86
3	811216114003	Anandaperumal P	IV/MECH	30	100	19	76	88
4	811216114004	Chinnappan A	IV/MECH	27	90	22	88	89
5	811216114005	Dayas Kumar M	IV/MECH	30	100	18	72	86
6	811216114006	Dhinakaran K	IV/MECH	30	100	20	80	90
7	811216114007	Dhinakaran S	IV/MECH	27	90	18	72	81
8	811216114008	Dinesh Babu M	IV/MECH	30	100	20	80	90
9	811216114009	Gobi P	IV/MECH	30	100	19	76	88
10	811216114010	Gopinath N	IV/MECH	30	100	19	76	88
11	811216114011	Gunaseelan G	IV/MECH	30	100	20	80	90
12	811216114012	Hariram S	IV/MECH	30	100	20	80	90
13	811216114013	Harish M	IV/MECH	27	90	22	88	89
14	811216114014	Karan K	IV/MECH	30	100	20	80	90
15	811216114015	Karthick A	IV/MECH	30	100	19	76	88
16	811216114016	Kingsley J	IV/MECH	30	100	19	76	88
17	811216114017	Kiruthikeyan P	IV/MECH	24	80	20	80	80



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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)	
18	811216114018	Krishna Prakash N	IV/MECH	30	100	19	76	88
19	811216114019	Mahendran A	IV/MECH	30	100	19	76	88
20	811216114020	Mahendran K	IV/MECH	30	100	22	88	94
21	811216114021	Nagarajan K	IV/MECH	30	100	18	72	86
22	811216114022	Nambiyappan K	IV/MECH	30	100	22	88	94
23	811216114023	Nandha Kumar P	IV/MECH	27	90	22	88	89
24	811216114024	Naveen Kumar K	IV/MECH	30	100	20	80	90
25	811216114025	Palanisamy K	IV/MECH	30	100	18	72	86
26	811216114026	Pulamadan K	IV/MECH	30	100	19	76	88
27	811216114027	Ramkumar R	IV/MECH	30	100	20	80	90
28	811216114028	Robert A	IV/MECH	30	100	18	72	86
29	811216114029	Sasi Kumar S	IV/MECH	30	100	20	80	90
30	811216114030	Senthil Kumar B	IV/MECH	30	100	18	72	86
31	811216114031	Subash Salamon S	IV/MECH	30	100	20	80	90
32	811216114032	Tamilselvan C	IV/MECH	27	90	20	80	85
33	811216114033	Vairavel A	IV/MECH	27	90	18	72	81
34	811216114034	Vasudevan A`	IV/MECH	30	100	19	76	88
35	811216114035	Vengatraman V	IV/MECH	30	100	18	72	86
36	811216114036	Vignesh K	IV/MECH	24	80	20	80	80
37	811216114037	Yanatharan T	IV/MECH	30	100	18	72	86
38	811216114301	B.Gokul	IV/MECH	30	100	20	80	90
39	811216114302	S.Hariharan	IV/MECH	30	100	18	72	86
40	811216114304	J.Karunakaran	IV/MECH	30	100	20	80	90
41	811216114305	Manoj Kumar K	IV/MECH	30	100	20	80	90

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Name of the Student:

Year/Sem:

AU Register Number:

Value Added Course

“Evaluation of CREO”

MCO QUESTIONS (25X4 = 100 Marks)

1. Which one of the following is the sub process of CAD?
 - a) Manufacturing
 - b) both c and d
 - c) Design Engineering
 - d) Computer Graphics
2. Which one of the following is the sub process of CAM?
 - a) Network
 - b) All Of These
 - c) CAD
 - d) Manufacturing
3. Which model is the iterative process?
 - a) Ohsuga model
 - b) Pahl and Beitz model.
 - c) Shigley model
 - d) E-arle model
4. What is the other name of world coordinate system?
 - a) viewpoint.
 - b) universe
 - c) Hierarchical.
 - d) none of these.
5. Device coordinates system can be represented in terms of
 - a) pixels
 - b) foot
 - c) inch
 - d) All Of These
6. In right coordinate system, index finger represented as
 - a) y axis
 - b) reverse of z axis
 - c) x axis
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 - a) scaling+translation+clipping
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9. What happen that the scaling factor are less than 1?
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15. The method of selecting and enlarging portions of drawing on the display is termed as
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- a) both b and c
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20. Which one of the following characters affects the cost of the given tolerance?
- a) component size
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- a) ISO 4000
 - b) ISO (BS4200)
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Name of the Student: *nardha kumar.p*

Year/Sem: *IV/mech*

AU Register Number: *811216114023*

Value Added Course

“Evaluation of CREO”

22/95
Done

MCO QUESTIONS (25X4 = 100 Marks)

- Which one of the following is the sub process of CAD?
a) Manufacturing
b) both c and d
c) Design Engineering
d) Computer Graphics
- Which one of the following is the sub process of CAM?
a) Network
b) All Of These
c) CAD
d) Manufacturing
- Which model is the iterative process?
a) Ohsuga model
b) Pahl and Beitz model.
c) Shigley model
d) E-arle model
- What is the other name of world coordinate system?
a) viewpoint.
b) universe
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(Signature)
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Value Added Course

“Evaluation of CREO”

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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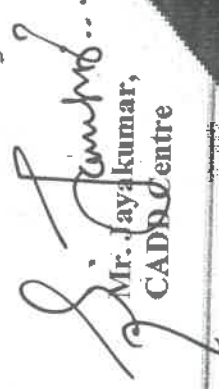
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This is to certify that Mr. Amar Praveen D of IV Year MECH has successfully completed the value added course on Evaluation of CREO organized by Department of Mechanical Engineering and IQAC of our institution in association with CADD centre from 11 June 2019 to 15 June 2019 (5 days) during the Academic year 2019-2020.



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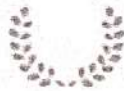
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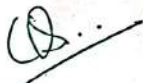
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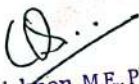
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