



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Regg. By Govt. of T.S & Affiliated to JNTUH, Hyderabad)

NAAC "B++" Accredited Institute

Gunthapally (V), Abdullapurmet(M), RR Dist, Near Ramoji Film City, Hyderabad -501512.

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2.6.2 CO-PO Attainment OF MECH Department

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PRINCIPAL
Avanthi Institute of Engg. & Tech
Gunthapally (V), Abdullapurmet (M), RR Dist



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Gunthapally (V), Abdullapurmet (M), RR Dist, Near Ramoji Film City, Hyderabad - 501512.

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Academic Year :2022-23							
Branch & Section:		MECH		Exam:		MID - I	
Course/Sub:		B.TECH-MDP		Year/Semester:		II-I	
Sl.No	Roll Number	CO1	C02	C03	C04	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	21Q61A0302		4		4	5	5
2	21Q61A0303	5		5		5	5
3	21Q61A0304		5	5		5	5
4	21Q61A0307	3			4	5	5
5	21Q61A0308	5		5		5	5
6	21Q61A0309			4	5	4	5
7	22Q65A0301	4		4		5	5
8	22Q65A0302			5	5	4	5
9	22Q65A0303	5	4			5	5
10	22Q65A0304		5		4	5	5
11	22Q65A0305	4	5			8	5
12	22Q65A0306	5	2			10	5
No. of students attempted		7	6	6	5	12	12
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	6	5	10	12
% of Students > 50%		100	83.34	100	100	83.34	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3


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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
						2022-23	
Branch & Section:		MECH		Exam:		MID - II	
Course/Sub:		B.TECH-MDP		Year/Semester:		II-I	
Sl.No	Roll Number					Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	21Q61A0302	5			5	3	5
2	21Q61A0303	4			5	3	5
3	21Q61A0304			3	2	6	5
4	21Q61A0307	2			5	8	5
5	21Q61A0308	5			4	3	5
6	21Q61A0309	5		5		5	5
7	22Q65A0301	5		5		3	5
8	22Q65A0302	3			2	8	5
9	22Q65A0303	5		2		6	5
10	22Q65A0304	3		5	5	3	5
11	22Q65A0305	5			5	8	5
12	22Q65A0306			5	5	10	5
No. of students attempted		10	0	6	9	12	12
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		9	0	5	7	7	12
% of Students > 50%		90	0	83.34	77.78	58.34	100
Attainment Level		3	0	3	3	2	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3


 Ranga Reddy (Dist.)
 Gunthapally (V), Hayathnagar,
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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	Machine Drawing Practice	Year/Semester:	II-I

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	21Q61A0302	71
2	21Q61A0303	63
3	21Q61A0304	70
4	21Q61A0307	70
5	21Q61A0308	70
6	21Q61A0309	71
7	22Q65A0301	70
8	22Q65A0302	69
9	22Q65A0303	10
10	22Q65A0304	71
11	22Q65A0305	68
12	22Q65A0306	71

No. of students who attempted the subject	11
Max. Marks	75
No. of students secured > 26 marks	11
Percentage of students secured > 26 marks	100.0
Overall External Attainment level	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3


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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	MDP	Semester:	II-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25*INT + 0.75*EXT

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COURSE OUTCOMES

CO1	Preparation of engineering and working drawings with dimensions and bill of material during
CO2	design and development. Developing assembly drawings using part drawings of machine components. Conventional representation of materials, common machine elements and parts such as
CO3	screws, nuts, bolts, keys, gears, webs, ribs. Types of sections – selection of section planes and drawing of sections and auxiliary sectional
CO4	views. Parts not usually sectioned. Methods of dimensioning, general rules for sizes and placement of dimensions for holes

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	2	2								2	2
CO2	3	3	2	2	2								2	2
CO3	3	3	2	2	2								1	2
CO4	2	2	2	2	2								2	2
CO avg(M)	2.5	2.5	2	2	2								1.75	2

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Department:		MECHANICAL ENGINEERING							
Course Outcome Attainment - Internal Assessments									
Name of the Faculty:		MECH				Academic Year:		2022-23	
Branch & Section:		Mechanics Of Solids				Exam:		MID - I	
Course/Sub:		Year/Semister:				II-I			
SLNo	Roll Number	CO1	C02	C02	C03	Objective	Assignment		
		Q1	Q2	Q3	Q4				
Maximum Marks		5	5	5	5	10	5		
1	21Q61A0302		5	5		5	5		
2	21Q61A0303	4		3		5	5		
3	21Q61A0304	5			3	5	5		
4	21Q61A0307		5		5	5	5		
5	21Q61A0308		3		4	5	5		
6	21Q61A0309		4	4		4	5		
7	22Q65A0301		5	4		5	5		
8	22Q65A0302	3			4	4	5		
9	22Q65A0303		2	2		5	5		
10	22Q65A0304		5	4		5	5		
11	22Q65A0305	4	4			8	5		
12	22Q65A0306	5	5			10	5		
No. of students attempted		5	9	6	4	12	12		
Max Marks Question wise		5	5	5	5	10	5		
Target 50%		2.5	2.5	2.5	2.5	5	2.5		
No. of Students above 50%		5	8	5	4	10	12		
% of Students > 50%		100	88.89	83.34	100	83.34	100		
Attainment Level		3	3	3	3	3	3		

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:		MECHANICAL ENGINEERING						
Course Outcome Attainment - Internal Assessments								
						Academic Year:		2022-23
Branch & Section:		MECH		Exam:		MID - II		
Course/Sub:		Mechanics Of Solids		Year/Semester:		II-I		
Sl.No	Roll Number	CO3	C04	C04	C05	Objective	Assignment	
		Q1	Q2	Q3	Q4			
Maximum Marks		5	5	5	5	10	5	
1	21Q61A0302	4			4	3	5	
2	21Q61A0303		5	5		3	5	
3	21Q61A0304	4			5	3	5	
4	21Q61A0307		4	3	3	3	5	
5	21Q61A0308			4	4	3	5	
6	21Q61A0309	5		4		5	5	
7	22Q65A0301	3	4			3	5	
8	22Q65A0302			4	4	5	5	
9	22Q65A0303		3		3	3	5	
10	22Q65A0304	4		4		3	5	
11	22Q65A0305		4		5	8	5	
12	22Q65A0306	4			4	10	5	
No. of students attempted		6	5	6	8	12	12	
Max Marks Question wise		5	5	5	5	10	5	
Target 50%		2.5	2.5	2.5	2.5	5	2.5	
No. of Students above 50%		6	5	6	8	4	12	
% of Students > 50%		100	100	100	100	33.34	100	
Attainment Level		3	3	3	3	1	3	

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	Mechanics Of Solids	Year/Semister:	II-I

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	21Q61A0302	28
2	21Q61A0303	28
3	21Q61A0304	28
4	21Q61A0307	26
5	21Q61A0308	6
6	21Q61A0309	6
7	22Q65A0301	26
8	22Q65A0302	30
9	22Q65A0303	26
10	22Q65A0304	26
11	22Q65A0305	40
12	22Q65A0306	34
No. of students who attempted the subject		12
Max. Marks		75
No. of students secured > 26 marks		10
Percentage of students secured > 26 marks		83.3
Overall External Attainment level		3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	Mechanics Of Solids	Semester:	II-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25*INT + 0.75*EXT

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COURSE OUTCOMES														
CO1	Analyze the behavior of the solid bodies subjected to various types of loading													
CO2	Apply knowledge of materials and structural elements to the analysis of simple structures													
CO3	Undertake problem identification, formulation and solution using a range of analytical methods;													
CO4	Analyze and interpret laboratory data relating to behavior of structures and the materials they													
CO-PO Mapping														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	2	2								2	2
CO2	3	3	2	2	2								2	2
CO3	3	3	2	2	2								1	2
CO4	3	3	2	2	2								2	2
CO avg(M)	3	3	2	2	2								2	2

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - I	
Course/Sub:		Material Science and Metallurgy		Year/Semister:		II-I	
Sl.No	Roll Number	CO1	C02	C02	C03	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	21Q61A0302	4		4		5	5
2	21Q61A0303		5	5		5	5
3	21Q61A0304	5		5		5	5
4	21Q61A0307		4		3	5	5
5	21Q61A0308	4		5		5	5
6	21Q61A0309		5		4	4	5
7	22Q65A0301	4			4	5	5
8	22Q65A0302		4	3		4	5
9	22Q65A0303		3		2	5	5
10	22Q65A0304	5			4	5	5
11	22Q65A0305		5	4		8	5
12	22Q65A0306	4	4			10	5
No. of students attempted		6	7	6	5	12	12
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		6	7	6	4	10	12
% of Students > 50%		100	100	100	80	83.34	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:						Academic Year:	
Branch & Section:		MECH		Exam:		2022-23	
Course/Sub:		Material Science and Metallurgy		Year/Semister:		II-I	
Sl.No	Roll Number	CO2 Q1	CO3 Q2	CO3 Q3	CO4 Q4	Objective	Assignment
Maximum Marks		5	5	5	5	10	5
1	21Q61A0302	5			5	3	5
2	21Q61A0303		4	5		3	5
3	21Q61A0304	4			5	3	5
4	21Q61A0307		5	5	3	3	5
5	21Q61A0308			4	3	3	5
6	21Q61A0309	5	5			5	5
7	22Q65A0301	5			5	3	5
8	22Q65A0302	4			4	5	5
9	22Q65A0303		5	4		3	5
10	22Q65A0304	5			5	3	5
11	22Q65A0305		4		4	8	5
12	22Q65A0306	5			5	10	5
No. of students attempted		7	5	4	9	12	12
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	4	9	4	12
% of Students > 50%		100	100	100	100	33.34	100
Attainment Level		3	3	3	3	1	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3


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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	Material Science and Metallurgy	Year/Semester:	II-I

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)	
1	21Q61A0302	28	
2	21Q61A0303	28	
3	21Q61A0304	30	
4	21Q61A0307	26	
5	21Q61A0308	26	
6	21Q61A0309	13	
7	22Q65A0301	33	
8	22Q65A0302	26	
9	22Q65A0303	15	
10	22Q65A0304	30	
11	22Q65A0305	36	
12	22Q65A0306	28	
Total No. of students who attempted the subject			12
Max. Marks			75
No. of students secured > 26 marks			10
Percentage of students secured > 26 marks			83.3
Overall External Attainment level			3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	Material Science and Metallurgy	Semester:	II-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25*INT + 0.75*EXT

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Faculty: Assistant Professor, SUB: MSM SEM: II-I Dept. of MECH														
Course Outcomes														
CO1	Materials Science and Engineering post graduates are attaining knowledge of materials and their science & Engineering													
CO2	Materials Science and Engineering post graduates are talented to formulate and analyse the engineering data													
CO3	Materials Science and Engineering post graduates can recognize classify and solve engineering problem.													
CO-PO Mapping														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	3	2	2			2				2	1	1
CO2	2	2	3	2	2			2				2	2	2
CO3	3	3	3	2	2			2				2	2	2
CO avg(M)	2.3	2.7	3	2	2			2				2	2	1

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - I	
Course/Sub:		Thermodynamics		Year/Semister:		II-I	
Sl.No	Roll Number	CO1	C02	C02	C03	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	21Q61A0302		4	3		5	5
2	21Q61A0303			5	3	5	5
3	21Q61A0304	5	5			5	5
4	21Q61A0307		3		4	5	5
5	21Q61A0308		4	4		5	5
6	21Q61A0309	4		4		4	5
7	22Q65A0301		5		4	5	5
8	22Q65A0302	3	4			4	5
9	22Q65A0303		3	3		5	5
10	22Q65A0304	4			4	5	5
11	22Q65A0305	5	5			8	5
12	22Q65A0306			4	4	10	5
No. of students attempted		5	8	6	5	12	12
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		5	8	6	5	10	12
% of Students > 50%		100	100	100	100	83.34	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:

MECHANICAL ENGINEERING**Course Outcome Attainment - Internal Assessments**

Name of the Faculty:		Academic Year:				2022-23	
Branch & Section:		Exam:				MID - II	
Course/Sub:		Year/Semester:				II-I	
Sl.No	Roll Number	CO3	C04	C04	C05	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	21Q61A0302	4			2	6	5
2	21Q61A0303		5	4		3	5
3	21Q61A0304			4		6	5
4	21Q61A0307	5			4	3	5
5	21Q61A0308		3		3	3	5
6	21Q61A0309				4	10	5
7	22Q65A0301	4	3			3	5
8	22Q65A0302	4			5	6	5
9	22Q65A0303		2	2		3	5
10	22Q65A0304			3	4	3	5
11	22Q65A0305	2	4			10	5
12	22Q65A0306			5	2	10	5
No. of students attempted		5	5	5	7	12	12
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		4	4	4	5	6	12
% of Students > 50%		80	80	80	71.43	50	100
Attainment Level		3	3	3	3	2	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:

MECHANICAL ENGINEERING**Course Outcome Attainment External Examination**

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	Thermodynamics	Year/Semister:	II-I

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	21Q61A0302	28
2	21Q61A0303	30
3	21Q61A0304	30
4	21Q61A0307	28
5	21Q61A0308	29
6	21Q61A0309	12
7	22Q65A0301	9
8	22Q65A0302	26
9	22Q65A0303	15
10	22Q65A0304	28
11	22Q65A0305	26
12	22Q65A0306	26
Total No. of students who attempted the subject		12
Max. Marks		75
No. of students secured > 26 marks		9
Percentage of students secured > 26 marks		75.0
Overall External Attainment level		3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	Thermodynamics	Semester:	II-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25*INT + 0.75*EXT

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Course Outcomes														
CO1	At the end of the course, the student should be able to Understand and differentiate between different thermodynamic systems and processes.													
CO2	Understand and apply the laws of Thermodynamics to different types of systems undergoing various processes and to perform													
CO3	Understand and analyze the Thermodynamic cycles and evaluate Performance parameters.													
CO-PO Mapping														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	3	2								2	2
CO2	3	3	2	3									2	2
CO3	3	2	2	2	2								2	2
CO avg(M)	3	2.6	2	2.66	2								2	2

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		Production Technology		Exam:		MID - I	
Course/Sub:		Year/Semister:		II-I			
Sl.No	Roll Number	CO1	CO2	C02	C03	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	21Q61A0302		4	4		5	5
2	21Q61A0303	5		5		5	5
3	21Q61A0304	4			5	5	5
4	21Q61A0307		4		3	5	5
5	21Q61A0308			4	4	5	5
6	21Q61A0309	4		5		4	5
7	22Q65A0301		4	4		5	5
8	22Q65A0302	5			5	4	5
9	22Q65A0303	2	5			5	5
10	22Q65A0304		5	3		5	5
11	22Q65A0305	5	4			8	5
12	22Q65A0306		5		2	10	5
No. of students attempted		6	7	6	5	12	12
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		5	7	6	4	10	12
% of Students > 50%		83.34	100	100	80	83.34	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:

MECHANICAL ENGINEERING**Course Outcome Attainment - Internal Assessments**

Name of the Faculty:		Academic Year:		2022-23			
Branch & Section:		MECH		Exam:		MID - II	
Course/Sub:		Production Technology		Year/Semester:		II-I	
SLNo	Roll Number	CO3	CO4	CO4	CO5	Objective	Assignment
Maximum Marks		Q1	Q2	Q3	Q4		
		5	5	5	5	10	5
1	21Q61A0302		1		4	7	5
2	21Q61A0303			4	2	6	5
3	21Q61A0304	4		4		3	5
4	21Q61A0307			5	5	3	5
5	21Q61A0308	3			3	3	5
6	21Q61A0309		5		5	5	5
7	22Q65A0301			5		7	5
8	22Q65A0302	3			2	5	5
9	22Q65A0303	3		2		6	5
10	22Q65A0304	5	5			3	5
11	22Q65A0305			5	5	8	5
12	22Q65A0306	5			5	10	5
No. of students attempted		6	3	6	8	12	12
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		6	2	5	6	8	12
% of Students > 50%		100	66.67	83.34	75	66.67	100
Attainment Level		3	2	3	3	2	3

Attainment table

50-60%	1
60-70%	2
70-80%	3

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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	Production Technology	Year/Semister:	II-I

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)	
1	21Q61A0302	11	
2	21Q61A0303	33	
3	21Q61A0304	49	
4	21Q61A0307	35	
5	21Q61A0308	26	
6	21Q61A0309	40	
7	22Q65A0301	46	
8	22Q65A0302	34	
9	22Q65A0303	10	
10	22Q65A0304	26	
11	22Q65A0305	45	
12	22Q65A0306	26	
Total No. of students who attempted the subject			12
Max. Marks			75
No. of students secured > 26 marks			10
Percentage of students secured > 26 marks			83.3
Overall External Attainment level			3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	Production Technology	Semester:	II-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25*INT + 0.75*EXT

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Course Outcomes

CO1	Understand the idea for selecting materials for patterns.
CO2	Know Types and allowances of patterns used in casting and analyze the components of
CO3	Design core, core print and gating system in metal casting processes.
CO4	Understand the arc, gas, solid state and resistance welding processes
CO5	Develop process-maps for metal forming processes using plasticity principles.

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	3	2								2	2	2
CO2	3	2	3	2								3	2	2
CO3	3	3	3	2								2	2	2
CO4	3	3	3	2								3	2	2
CO5	3	2	3	2								2	2	2
CO avg(M)	3	2.4	3	2								2.66	2	2

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Department:		MECHANICAL ENGINEERING							
Course Outcome Attainment - Internal Assessments									
Name of the Faculty:						Academic Year:		2022-23	
Branch & Section:		MECH				Exam:		MID - I	
Course/Sub:		Probability and Statistics & Complex Variables				Year/Semister:		II-I	
Sl.No	Roll Number	CO1	C02	C02	C03	Objective	Assignment		
		Q1	Q2	Q3	Q4				
Maximum Marks		5	5	5	5	10	5		
1	21Q61A0302		5	5		5	5		
2	21Q61A0303		2	5		5	5		
3	21Q61A0304	3	5			5	5		
4	21Q61A0307	5		4		5	5		
5	21Q61A0308		4	4		5	5		
6	21Q61A0309	4		5		4	5		
7	22Q65A0301	4		4		5	5		
8	22Q65A0302		4	3		4	5		
9	22Q65A0303	2		3		5	5		
10	22Q65A0304	3		5		5	5		
11	22Q65A0305	5	5			8	5		
12	22Q65A0306	4	4			10	5		
No. of students attempted		8	7	9	0	12	12		
Max Marks Question wise		5	5	5	5	10	5		
Target 50%		2.5	2.5	2.5	2.5	5	2.5		
No. of Students above 50%		7	6	9	0	10	12		
% of Students > 50%		87.5	85.72	100	0	83.34	100		
Attainment Level		3	3	3	0	3	3		

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - II	
Course/Sub:		Probability and Statistics & Complex Variables		Year/Semester:		II-I	
Sl.No	Roll Number	CO3 Q1	CO4 Q2	CO4 Q3	CO5 Q4	Objective	Assignment
Maximum Marks		5	5	5	5	10	5
1	21Q61A0302	4		4		3	5
2	21Q61A0303			5	4	3	5
3	21Q61A0304	5		4		3	5
4	21Q61A0307	2			5	3	5
5	21Q61A0308	4			3	3	5
6	21Q61A0309	5		5		5	5
7	22Q65A0301	2			5	3	5
8	22Q65A0302	4			4	5	5
9	22Q65A0303	2			5	3	5
10	22Q65A0304	5		2		3	5
11	22Q65A0305			5	3	8	5
12	22Q65A0306	5			4	10	5
No. of students attempted		10	0	6	8	12	12
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	0	5	8	4	12
% of Students > 50%		70	0	83.34	100	33.34	100
Attainment Level		3	0	3	3	1	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	Probability and Statistics & Complex	Year/Semister:	II-I

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	21Q61A0302	10
2	21Q61A0303	6
3	21Q61A0304	28
4	21Q61A0307	26
5	21Q61A0308	28
6	21Q61A0309	26
7	22Q65A0301	30
8	22Q65A0302	28
9	22Q65A0303	12
10	22Q65A0304	26
11	22Q65A0305	30
12	22Q65A0306	6
Total No. of students who attempted the subject		12
Max. Marks		75
No. of students secured > 26 marks		8
Percentage of students secured > 26 marks		66.7
Overall External Attainment level		2

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	Probability and Statistics & Complex Variables	Semester:	II-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	2	2.25
Course outcome - 2	3	-	3	2	2.25
Course outcome - 3	3	3	3	2	2.25
Course outcome - 4	-	3	3	2	2.25
Course outcome - 5	-	3	3	2	2.25
Average			3	2	2.25

OVERALL ATTAINMENT OF THE SUBJECT = $0.25*INT + 0.75*EXT$

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Course Outcomes

CO1	To learn probabilistic models, random variables of one dimension and two dimension.
CO2	To understand the theory of estimation
CO3	To learn differentiation for complex functions

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	3	2	2							2	2
CO2	2	3	2	3	2	2							2	2
CO3	3	2	2	3	1	2							2	2
CO avg(M)	2.66	2.33	2	3	1.66	2							2	2


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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:				Academic Year:		2021-22	
Branch & Section:		MECH		Exam:		MID - I	
Course/Sub:		Basic Electrical and Electronics Engineering		Year/Semister:		II-II	
SLNo	Roll Number	CO1	CO2	CO2	CO3	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	21Q61A0302	4		4		5	5
2	21Q61A0303		4	5		5	5
3	21Q61A0304			4	5	5	5
4	21Q61A0307	3	3			5	5
5	21Q61A0308	5		2		5	5
6	21Q61A0309			3	3	4	5
7	22Q65A0301	5			4	5	5
8	22Q65A0302		4	3		4	5
9	22Q65A0304	4			3	5	5
10	22Q65A0305		5		4	5	5
11	22Q65A0306	4	4			8	5
No. of students attempted		6	5	6	5	11	11
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		6	5	5	5	9	11
% of Students > 50%		100	100	83.34	100	81.82	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:				Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - II	
Course/Sub:		Basic Electrical and Electronics Engineering		Year/Semister:		II-II	
SlNo	Roll Number	CO3	CO4	CO4	CO5	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	21Q61A0302		3		3	3	5
2	21Q61A0303	4		4		5	5
3	21Q61A0304		4		4	5	5
4	21Q61A0307			5	3	5	5
5	21Q61A0308	3			3	3	5
6	21Q61A0309			3	4	5	5
7	22Q65A0301		4		4	3	5
8	22Q65A0302	3		3		5	5
9	22Q65A0304	5	3			5	5
10	22Q65A0305		4	4		5	5
11	22Q65A0306	5			5	8	5
No. of students attempted		5	5	5	7	11	11
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		5	5	5	7	8	11
% of Students > 50%		100	100	100	100	72.73	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3


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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	Basic Electrical and Electronics Engineering	Year/Semister:	II-II

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)	
1	21Q61A0302	5	
2	21Q61A0303	30	
3	21Q61A0304	29	
4	21Q61A0307	4	
5	21Q61A0308	7	
6	21Q61A0309	8	
7	22Q65A0301	35	
8	22Q65A0302	30	
9	22Q65A0304	26	
10	22Q65A0305	36	
11	22Q65A0306	30	
Total No. of students who attempted the subject			11
Max. Marks			75
No. of students secured > 26 marks			8
Percentage of students secured > 26 marks			72.7
Overall External Attainment level			3

Attainment table	
50-60%	1
60-70%	2
70-80%	3


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Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	Basic Electrical and Electronics Engineering	Semister:	III-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25*INT + 0.75*EXT

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Course Outcomes

CO1	To analyze and solve electrical circuits using network laws and theorems.
CO2	To understand and analyze basic Electric and Magnetic circuits
CO3	To study the working principles of Electrical Machines transformer & electrostatics
CO4	To introduce components of Low Voltage Electrical Installations
CO5	To identify and characterize diodes and various types of transistors

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	2								2	2	2
CO2	3	3	2	2								2	2	2
CO3	2	3	2	2								2	2	2
CO4	2	3	2	2								2		2
CO5	2	2	2	2								2		2
CO	2.4	2.8	2	2								2	2	2

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Department:		MECHANICAL ENGINEERING							
Course Outcome Attainment - Internal Assessments									
Name of the Faculty:		MECH				Academic Year:		2022-23	
Branch & Section:		MECH				Exam:		MID - I	
Course/Sub:		Fluid Mechanics and Hydraulic Machines				Year/Semister:		II-II	
Sl.No	Roll Number	CO1	C02	CO2	C03	Objective	Assignment		
		Q1	Q2	Q3	Q4				
Maximum Marks		5	5	5	5	10	5		
1	21Q61A0302	4		4		5	5		
2	21Q61A0303	4			3	5	5		
3	21Q61A0304			5	4	5	5		
4	21Q61A0307	3	3	3		5	5		
5	21Q61A0308	5		2		5	5		
6	21Q61A0309	4			4	4	5		
7	22Q65A0301		3	3	3	5	5		
8	22Q65A0302	3			5	4	5		
9	22Q65A0304	3	3			5	5		
10	22Q65A0305	4				5	5		
11	22Q65A0306	4			5	8	5		
No. of students attempted		9	3	5	6	11	11		
Max Marks Question wise		5	5	5	5	10	5		
Target 50%		2.5	2.5	2.5	2.5	5	2.5		
No. of Students above 50%		9	3	4	6	11	11		
% of Students > 50%		100	100	80	100	100	100		
Attainment Level		3	3	3	3	3	3		

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:				Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - II	
Course/Sub:		Fluid Mechanics and Hydraulic Machines		Year/Semister:		II-II	
SLNo	Roll Number	CO3	C04	C04	C05	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	21Q61A0302	3			3	5	5
2	21Q61A0303		4		4	5	5
3	21Q61A0304	5	3			5	5
4	21Q61A0307	4		3	3	3	5
5	21Q61A0308	3			3	3	5
6	21Q61A0309		5		2	5	5
7	22Q65A0301	5			4	3	5
8	22Q65A0302	3	3			5	5
9	22Q65A0304	5		3		5	5
10	22Q65A0305		4		4	5	5
11	22Q65A0306	4			4	10	5
No. of students attempted		8	5	2	8	11	11
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	5	2	7	8	11
% of Students > 50%		100	100	100	87.5	72.73	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	Fluid Mechanics and Hydraulic Machines	Year/Semister:	II-II

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	21Q61A0302	29
2	21Q61A0303	35
3	21Q61A0304	39
4	21Q61A0307	27
5	21Q61A0308	14
6	21Q61A0309	26
7	22Q65A0301	48
8	22Q65A0302	29
9	22Q65A0304	41
10	22Q65A0305	44
11	22Q65A0306	38
Total No. of students who attempted the subject		11
Max. Marks		75
No. of students secured > 26 marks		10
Percentage of students secured > 26 marks		90.9
Overall External Attainment level		3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	Fluid Mechanics and Hydraulic Machines	Semester:	II-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25*INT + 0.75*EXT

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Course Outcomes														
CO1	Able to explain the effect of fluid properties on a flow system													
CO2	Able to identify type of fluid flow patterns and describe continuity equation.													
CO3	To analyze a variety of practical fluid flow and measuring devices and utilize Fluid Mechanics principles in design.													
CO4	To select and analyze an appropriate turbine with reference to given situation in power plants													
CO5	To estimate performance parameters of a given Centrifugal and Reciprocating pump.													
CO-PO Mapping														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	3								2	2	2
CO2	3	3	3	3								2	2	2
CO3	3	2	2	3								2	2	2
CO4	3	2	2	2								2	2	2
CO5	3	3	2	2								2	2	2
CO avg(M)	3	2.4	2.4	2.6								2	2	2


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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - I	
Course/Sub:		Instrumentation and Control Systems		Year/Semester:		II-II	
Sl.No	Roll Number	CO1	C02	C02	C03	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	21Q61A0302	4		4		5	5
2	21Q61A0303		5		4	5	5
3	21Q61A0304	5		4		5	5
4	21Q61A0307		5	5		5	5
5	21Q61A0308	4		5		5	5
6	21Q61A0309		4		5	4	5
7	22Q65A0301	5		4		5	5
8	22Q65A0302	4			5	4	5
9	22Q65A0304	5	5			5	5
10	22Q65A0305		4	5		5	5
11	22Q65A0306	5	4			8	5
No. of students attempted		7	6	6	3	11	11
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	6	6	3	9	11
% of Students > 50%		100	100	100	100	81.82	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:

MECHANICAL ENGINEERING

Course Outcome Attainment - Internal Assessments

Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - II	
Course/Sub:		Instrumentation and Control Systems		Year/Semister:		II-II	
SLNo	Roll Number	CO3 Q1	C04 Q2	C04 Q3	C05 Q4	Objective	Assignment
Maximum Marks		5	5	5	5	10	5
1	21Q61A0302	5		2		3	5
2	21Q61A0303		4		5	3	5
3	21Q61A0304			5	5	5	5
4	21Q61A0307	5	4			5	5
5	21Q61A0308			4	4	3	5
6	21Q61A0309		5		5	5	5
7	22Q65A0301	5		4		3	5
8	22Q65A0302	4			4	5	5
9	22Q65A0304		5	4		5	5
10	22Q65A0305	5			4	5	5
11	22Q65A0306	5			5	8	5
No. of students attempted		6	4	5	7	11	11
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		6	4	4	7	7	11
% of Students > 50%		100	100	80	100	63.64	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	Instrumentation and Control Systems	Year/Semester:	II-II

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)	
1	21Q61A0302	7	
2	21Q61A0303	13	
3	21Q61A0304	30	
4	21Q61A0307	28	
5	21Q61A0308	4	
6	21Q61A0309	31	
7	22Q65A0301	42	
8	22Q65A0302	28	
9	22Q65A0304	29	
10	22Q65A0305	36	
11	22Q65A0306	28	
Total No. of students who attempted the subject			11
Max. Marks			75
No. of students secured > 26 marks			8
Percentage of students secured > 26 marks			72.7
Overall External Attainment level			3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	Instrumentation and Control Systems	Semester:	II-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25*INT + 0.75*EXT


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Faculty: ,Assistant Professor, SUB:I&CS SEM: II-II Dept. of MECH														
Course Outcomes														
CO1	To identify various elements and their purpose in typical instruments, to identify various errors that would occur in instruments.													
CO2	Analysis of errors so as to determine correction factors for each instrument.													
CO3	To understand static and dynamic characteristics of instrument and should be able to determine loading response time.													
CO4	For given range of displacement should be able to specify transducer, its accurate and loading time of that transducer.													
CO-PO Mapping														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	2								2	2	2
CO2	3	2	2	2								2	2	2
CO3	3	2	2	2								2	2	2
CO4	3	2	2	2								2	2	2
CO(Avg)	3	2	2	2								2	2	2

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Department:		MECHANICAL ENGINEERING							
Course Outcome Attainment - Internal Assessments									
Name of the Faculty:						Academic Year:		2022-23	
Branch & Section:		MECH				Exam:		MID - I	
Course/Sub:		Kinematics of Machinery				Year/Semister:		II-II	
SLNo	Roll Number	CO1	C02	C02	C03	Objective	Assignment		
		Q1	Q2	Q3	Q4				
Maximum Marks		5	5	5	5	10	5		
1	21Q61A0302		4	4		5	5		
2	21Q61A0303		2		5	5	5		
3	21Q61A0304	4		3		5	5		
4	21Q61A0307	3		3		5	5		
5	21Q61A0308		2		2	5	5		
6	21Q61A0309	5			2	4	5		
7	22Q65A0301		3	4		5	5		
8	22Q65A0302	4			3	4	5		
9	22Q65A0304			3	3	5	5		
10	22Q65A0305	5	4			5	5		
11	22Q65A0306			4	4	8	5		
No. of students attempted		5	5	6	6	11	11		
Max Marks Question wise		5	5	5	5	10	5		
Target 50%		2.5	2.5	2.5	2.5	5	2.5		
No. of Students above 50%		5	3	6	4	9	11		
% of Students > 50%		100	60	100	66.67	81.82	100		
Attainment Level		3	3	3	3	3	3		

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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www.aietg.ac.in email: principal.avanthi@gmail.com**Department:****MECHANICAL ENGINEERING****Course Outcome Attainment - Internal Assessments**

Name of the Faculty:		Academic Year:		2022-23			
Branch & Section:		MECH		Exam:		MID - II	
Course/Sub:		Kinematics of Machinery		Year/Semister:		II-II	
SLNo	Roll Number	C03	C04	C04	C05	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	21Q61A0302		3	3		3	5
2	21Q61A0303	3		3		5	5
3	21Q61A0304		4	4		3	5
4	21Q61A0307		2		3	5	5
5	21Q61A0308	5				5	5
6	21Q61A0309			3	3	5	5
7	22Q65A0301	4	2		3	3	5
8	22Q65A0302	3		5		5	5
9	22Q65A0304		5			3	5
10	22Q65A0305	3			5	5	5
11	22Q65A0306		4		5	10	5
No. of students attempted		5	6	5	5	11	11
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		5	4	5	5	7	11
% of Students > 50%		100	66.67	100	100	63.64	100
Attainment Level		3	3	3	3	3	3

Attainment table

50-60%	1
60-70%	2
70-80%	3

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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	Kinematics of Machinery	Year/Semester:	II-II

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	21Q61A0302	8
2	21Q61A0303	26
3	21Q61A0304	33
4	21Q61A0307	26
5	21Q61A0308	26
6	21Q61A0309	26
7	22Q65A0301	55
8	22Q65A0302	26
9	22Q65A0304	32
10	22Q65A0305	46
11	22Q65A0306	35
Total No. of students who attempted the subject		11
Max. Marks		75
No. of students secured > 26 marks		10
Percentage of students secured > 26 marks		90.9
Overall External Attainment level		3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	Kinematics of Machinery	Semester:	II-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25*INT + 0.75*EXT

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Course Outcomes

CO1	Build up critical thinking and problem solving capacity of various mechanical engineering problems related to kinematics of machines.
CO2	Asses various concepts of mechanisms like straight line motion mechanisms, Steering gear mechanisms and working principles of power elements (Gears, gear trains, Cams, Belt and Chain drives) and design related problems effectively.
CO3	Utilize analytical, mathematical and graphical aspects of kinematics of Machines for effective design.

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	2	2							2	3	2
CO2	3	3	2	2	2							2	3	3
CO3	3	3	2	2	2							2	3	2
CO	3	3	2	2	2							2	3	2.33

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - I	
Course/Sub:		Thermal Engineering - I		Year/Semester:		II-II	
Sl.No	Roll Number	CO1 Q1	CO2 Q2	CO3 Q3	CO4 Q4	Objective	Assignment
Maximum Marks		5	5	5	5	10	5
1	21Q61A0302	3		4		5	5
2	21Q61A0303		4		4	5	5
3	21Q61A0304	5		4		5	5
4	21Q61A0307		3	3		5	5
5	21Q61A0308			2	5	5	5
6	21Q61A0309		4	2		4	5
7	22Q65A0301	5			4	5	5
8	22Q65A0302	4			4	4	5
9	22Q65A0304		2	3		5	5
10	22Q65A0305	4		5		5	5
11	22Q65A0306	4			4	8	5
No. of students attempted		6	4	7	5	11	11
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		6	3	5	5	9	11
% of Students > 50%		100	75	71.43	100	81.82	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3


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Department:

MECHANICAL ENGINEERING

Course Outcome Attainment - Internal Assessments

Name of the Faculty:		Academic Year:		2022-23			
Branch & Section:		MECH		Exam:		MID - II	
Course/Sub:		Thermal Engineering - I		Year/Semister:		II-II	
Sl.No	Roll Number	CO3 Q1	C04 Q2	C04 Q3	C05 Q4	Objective	Assignment
Maximum Marks		5	5	5	5	10	5
1	21Q61A0302		3	3		3	5
2	21Q61A0303	5	3		2	5	5
3	21Q61A0304	5		3		5	5
4	21Q61A0307	2		3		3	5
5	21Q61A0308			2	2	3	5
6	21Q61A0309	3	3			5	5
7	22Q65A0301	4			4	5	5
8	22Q65A0302	4	3		3	5	5
9	22Q65A0304	2		3		5	5
10	22Q65A0305			4	4	5	5
11	22Q65A0306			5	4	8	5
No. of students attempted		7	4	7	6	11	11
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		5	4	6	4	8	11
% of Students > 50%		71.43	100	85.72	66.67	72.73	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3


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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	Thermal Engineering - I	Year/Semester:	II-II

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	21Q61A0302	5
2	21Q61A0303	30
3	21Q61A0304	29
4	21Q61A0307	4
5	21Q61A0308	28
6	21Q61A0309	28
7	22Q65A0301	35
8	22Q65A0302	30
9	22Q65A0304	26
10	22Q65A0305	36
11	22Q65A0306	30

Total No. of students who attempted the subject	11
Max. Marks	75
No. of students secured > 26 marks	9
Percentage of students secured > 26 marks	81.8
Overall External Attainment level	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	Thermal Engineering - I	Semester:	II-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam (Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = $0.25 \times \text{INT} + 0.75 \times \text{EXT}$

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Course Outcomes

CO1	At the end of the course, the student should be able to evaluate the performance of IC engines and compressors under the given operating conditions.
CO2	Apply the laws of Thermodynamics to evaluate the performance of Refrigeration and air-conditioning cycles
CO3	Understand the functionality of the major components of the IC Engines and effects of operating conditions on their performance.

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	2	2							2	2	
CO2	2	2	2	3	2							2	2	
CO3	2	2	2	3	2							2	2	
CO	2	2	2	3	2							2	2	

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - I	
Course/Sub:		Business Economics & Financial Analysis		Year/Semister:		III-I	
Sl.No	Roll Number	CO1 Q1	CO2 Q2	CO2 Q3	CO3 Q4	Objective	Assignment
Maximum Marks		5	5	5	5	10	5
1	17Q61A0301					5	5
2	20Q61A0301	4		4		5	5
3	20Q61A0302					5	5
4	20Q61A0303		4		3	5	5
5	20Q61A0304	3		3		5	5
6	21Q65A0302		5		5	4	5
7	21Q65A0303	5		5		5	5
8	21Q65A0304		4	4		4	5
9	21Q65A0306	3			3	5	5
10	21Q65A0307		4	4		5	5
11	21Q65A0308	3			5	8	5
12	21Q65A0309	2	5			10	5
13	21Q65A0310					7	5
14	21Q65A0311		5		2	9	5
15	21Q65A0312		3	3		5	5
16	21Q65A0314	4			3	8	5
17	21Q65A0315		5	2		9	5
18	21Q65A0316			4	3	9	5
19	21Q65A0317	5	2			8	5
20	21Q65A0318	4		4		8	5
21	21Q65A0319			4	3	9	5
22	21Q65A0321		5	4		6	5
23	21Q65A0322				5	8	5
24	21Q65A0323		3		3	7	5
25	21Q65A0324	5			5	7	5
26	21Q65A0325		4		3	10	5
27	21Q65A0326		4	3		5	5
No. of students attempted		10	13	12	12	27	27
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		9	12	11	11	25	27
% of Students > 50%		90	92.31	91.67	91.67	92.6	100
Attainment Level		3	3	3	3	3	3

[Handwritten Signature]

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Attainment table	
50-60%	1

60-70%	2
70-80%	3



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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		B.TECH-BEFA		Exam:		MID - II	
Course/Sub:		Year/Semester:		III-I			
SLNo	Roll Number	CO3	C04	C04	C05	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	21Q61A0201					3	5
2	21Q61A0202		3		3	3	5
3	21Q61A0203		3		3	3	5
4	21Q61A0204	3		5		3	5
5	21Q61A0205		5			3	5
6	21Q61A0206			5	4	5	5
7	21Q61A0207	4				5	5
8	21Q61A0208	4	5			5	5
9	21Q61A0209			4	4	3	5
10	21Q61A0210	5			5	3	5
11	21Q61A0211		4	5		8	5
12	21Q61A0212			3	3	10	5
13	21Q61A0213					5	5
14	21Q61A0214	3	3			8	5
15	22Q65A0201	4			4	5	5
16	22Q65A0202	4		4		8	5
17	22Q65A0203			3	3	7	5
18	22Q65A0204		4	4		8	5
19	22Q65A0205	3		3		7	5
20	22Q65A0206		3	4		8	5
21	22Q65A0207	3		3		8	5
22	22Q65A0208		5		2	7	5
23	22Q65A0209	4				9	5
24	22Q65A0210		4	4		7	5
25	22Q65A0211			4	5	5	5
26	22Q65A0212	4				6	5
27	22Q65A0213	3		3		5	5
No. of students attempted		12	10	14	10	27	27
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		12	10	14	9	20	27
% of Students > 50%		100	100	100	90	74.08	100
Attainment Level		3	3	3	3	3	3

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Attainment table	
50-60%	1
60-70%	2



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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	B.TECH-BEFA	Year/Semester:	III-I

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	17Q61A0301	10
2	20Q61A0301	28
3	20Q61A0302	26
4	20Q61A0303	32
5	20Q61A0304	26
6	21Q65A0302	32
7	21Q65A0303	26
8	21Q65A0304	31
9	21Q65A0306	14
10	21Q65A0307	26
11	21Q65A0308	35
12	21Q65A0309	28
13	21Q65A0310	28
14	21Q65A0311	14
15	21Q65A0312	28
16	21Q65A0314	26
17	21Q65A0315	31
18	21Q65A0316	28
19	21Q65A0317	12
20	21Q65A0318	28
21	21Q65A0319	30
22	21Q65A0321	28
23	21Q65A0322	17
24	21Q65A0323	16
25	21Q65A0324	30
26	21Q65A0325	26
27	21Q65A0326	18
Total No. of students who attempted the subject		27
Max. Marks		75
No. of students secured > 26 marks		20
Percentage of students secured > 26 marks		74.1
Overall External Attainment level		3

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Ranga Reddy (Dist.)

Attainment table	
50-60%	1
60-70%	2
70-80%	3



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	BEFA	Semester:	III-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25*INT + 0.75*EXT

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Course Outcomes

CO1	The students will understand the various Forms of Business and the impact of economic variables on the Business.
CO2	The Demand, Supply, Production, Cost, Market Structure, Pricing aspects are learnt.
CO3	The students can study the firm's financial position by analyzing the Financial Statements of a Company.

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	2	2							2	2	2
CO2	2	2	2	2	2							2	2	2
CO3	2	2	2	2	2							2	2	2
CO avg(M)	2	2	2	2	2							2	2	2

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Department:		MECHANICAL ENGINEERING						
Course Outcome Attainment - Internal Assessments								
Name of the Faculty:						Academic Year:		2020-21
Branch & Section:		MECH				Exam:		MID - I
Course/Sub:		B.TECH-DMM-I		Year/Semester:		III-I		
Sl.No	Roll Number	CO1	C02	C02	C03	Objective	Assignment	
		Q1	Q2	Q3	Q4			
Maximum Marks		5	5	5	5	10	5	
1	17Q61A0301					5	5	
2	20Q61A0301	5		5		5	5	
3	20Q61A0302		3	3		5	5	
4	20Q61A0303		5		4	5	5	
5	20Q61A0304	4	2			5	5	
6	21Q65A0302			5	5	4	5	
7	21Q65A0303	5			5	5	5	
8	21Q65A0304	5	5			4	5	
9	21Q65A0306			3	4	5	5	
10	21Q65A0307	5			5	5	5	
11	21Q65A0308	5	5			8	5	
12	21Q65A0309	5		5		10	5	
13	21Q65A0310		3	3		7	5	
14	21Q65A0311		5		5	9	5	
15	21Q65A0312		4	4		5	5	
16	21Q65A0314	5		5		8	5	
17	21Q65A0315			5	5	9	5	
18	21Q65A0316		5	4		9	5	
19	21Q65A0317	4			3	8	5	
20	21Q65A0318			4	4	8	5	
21	21Q65A0319		5	3		9	5	
22	21Q65A0321	4			5	6	5	
23	21Q65A0322		5			8	5	
24	21Q65A0323	4		5		7	5	
25	21Q65A0324		5		5	7	5	
26	21Q65A0325	4	4			10	5	
27	21Q65A0326	3			3	5	5	
No. of students attempted		13	13	13	12	27	27	
Max Marks Question wise		5	5	5	5	10	5	
Target 50%		2.5	2.5	2.5	2.5	PRINCIPAL	2.5	
No. of Students above 50%		13	12	13	12	25	27	
% of Students > 50%		100	92.31	100	100	92.6	100	
Attainment Level		3	3	3	3	3	3	

Attainment table	
50-60%	1
60-70%	2



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Department:

MECHANICAL ENGINEERING

Course Outcome Attainment - Internal Assessments

Name of the Faculty:		Academic Year:				2022-23	
Branch & Section:		MECH		Exam:		MID - II	
Course/Sub:		B.TECH-DMM-I		Year/Semester:		III-I	
SLNo	Roll Number	CO3	C04	C04	C05	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	17Q61A0301					3	5
2	20Q61A0301		5		4	3	5
3	20Q61A0302	3		2		3	5
4	20Q61A0303		5		5	3	5
5	20Q61A0304			2	3	3	5
6	21Q65A0302	4		5		5	5
7	21Q65A0303	5	5			3	5
8	21Q65A0304	5			5	5	5
9	21Q65A0306		2	4		3	5
10	21Q65A0307	5			4	3	5
11	21Q65A0308			5	5	8	5
12	21Q65A0309		5	4		10	5
13	21Q65A0310	5				5	5
14	21Q65A0311		4		5	8	5
15	21Q65A0312			5	4	5	5
16	21Q65A0314	5		5		8	5
17	21Q65A0315	5			4	7	5
18	21Q65A0316		5	5		8	5
19	21Q65A0317		3	3		7	5
20	21Q65A0318			4	5	8	5
21	21Q65A0319		3	4		8	5
22	21Q65A0321	5		5		7	5
23	21Q65A0322		3		3	9	5
24	21Q65A0323			5	5	7	5
25	21Q65A0324	5		5		5	5
26	21Q65A0325	5			5	6	5
27	21Q65A0326	4		4		5	5
No. of students attempted		12	10	16	13	27	27
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		12	9	14	13	19	27
% of Students > 50%		100	90	87.5	100	70.38	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	B.TECH-DMM-I	Year/Semester:	III-I

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	17Q61A0301	28
2	20Q61A0301	29
3	20Q61A0302	28
4	20Q61A0303	26
5	20Q61A0304	4
6	21Q65A0302	31
7	21Q65A0303	37
8	21Q65A0304	29
9	21Q65A0306	7
10	21Q65A0307	31
11	21Q65A0308	38
12	21Q65A0309	32
13	21Q65A0310	11
14	21Q65A0311	6
15	21Q65A0312	32
16	21Q65A0314	30
17	21Q65A0315	29
18	21Q65A0316	31
19	21Q65A0317	29
20	21Q65A0318	30
21	21Q65A0319	10
22	21Q65A0321	10
23	21Q65A0322	9
24	21Q65A0323	15
25	21Q65A0324	32
26	21Q65A0325	32
27	21Q65A0326	29

PRINCIPAL
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Total No. of students who attempted the subject	27
Max. Marks	75
No. of students secured > 26 marks	19
Percentage of students secured > 26 marks	70.4
Overall External Attainment level	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2020-21
Branch & Section:	MECH	Exam:	
Course:	DMM-I	Semister:	III-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = $0.25*INT + 0.75*EXT$

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Course Outcomes

CO1	The student acquires the knowledge about the principles of design, material selection, Component behavior subjected to loads, and criteria of failure.
CO2	Understands the concepts of principal stresses, stress concentration in machine members and fatigue loading
CO3	Design on the basis of strength and rigidity and analyze the stresses and strains induced in a machine element

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2		2							2	2	
CO2	3	3	3	2	2	2						2	2	
CO3	3	3	3	2	2	2						2		
CO avg(M)	3	3	3	2	2	2						2	2	


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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		B.TECH-DM		Exam:		MID - I	
Course/Sub:		Year/Semester:		III-I			
Sl.No	Roll Number	CO1	C02	C02	C03	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	17Q61A0301					5	5
2	20Q61A0301		5	5		5	5
3	20Q61A0302	2			3	5	5
4	20Q61A0303		4	4		5	5
5	20Q61A0304	4		4		5	5
6	21Q65A0302		5		5	4	5
7	21Q65A0303	4		5		5	5
8	21Q65A0304			5	5	4	5
9	21Q65A0306	3	4			5	5
10	21Q65A0307			5	5	5	5
11	21Q65A0308	5	5			8	5
12	21Q65A0309			3	5	10	5
13	21Q65A0310		5	4		7	5
14	21Q65A0311		5		4	9	5
15	21Q65A0312	4		4		5	5
16	21Q65A0314		5	5		8	5
17	21Q65A0315	5			5	9	5
18	21Q65A0316		5	5		9	5
19	21Q65A0317		4		4	8	5
20	21Q65A0318	4			5	8	5
21	21Q65A0319		5	5		9	5
22	21Q65A0321	5	4			6	5
23	21Q65A0322	3				8	5
24	21Q65A0323			5	4	7	5
25	21Q65A0324		5	5		7	5
26	21Q65A0325	5	4			10	5
27	21Q65A0326			4	3	5	5
No. of students attempted		11	14	15	11	27	27
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		10	14	15	11	25	27
% of Students > 50%		90.91	100	100	100	92.6	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2



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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:				Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - II	
Course/Sub:		B.TECH-DM		Year/Semester:		III-I	
Sl.No	Roll Number	CO3	C04	C04	C05	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	17Q61A0301					3	5
2	20Q61A0301		4		5	3	5
3	20Q61A0302	3			3	3	5
4	20Q61A0303		5	4		3	5
5	20Q61A0304	3		3		3	5
6	21Q65A0302	4			5	5	5
7	21Q65A0303		5	5		3	5
8	21Q65A0304	5	5			5	5
9	21Q65A0306	3	3			3	5
10	21Q65A0307			5	4	3	5
11	21Q65A0308	5	5			8	5
12	21Q65A0309		4		5	10	5
13	21Q65A0310	4		3		5	5
14	21Q65A0311	5			4	8	5
15	21Q65A0312		5	5		5	5
16	21Q65A0314	5		5		8	5
17	21Q65A0315		5		5	7	5
18	21Q65A0316	4			5	8	5
19	21Q65A0317			5	5	7	5
20	21Q65A0318	5		5		8	5
21	21Q65A0319	4		4		8	5
22	21Q65A0321			5	5	7	5
23	21Q65A0322		2			9	5
24	21Q65A0323	5		5		5	5
25	21Q65A0324			5	5	5	5
26	21Q65A0325		5		5	6	5
27	21Q65A0326	4		4		5	5
No. of students attempted		14	11	14	12	27	27
Max Marks Question wise		5	5	5	5	5	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		14	10	14	12	19	27
% of Students >50%		100	90.91	100	100	70.38	100
Attainment Level		3	3	3	3	3	3


PRINCIPAL
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 Ranga Reddy (Dist.)

Attainment table	
50-60%	1

60-70%	2
70-80%	3



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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	B.TECH-DM	Year/Semister:	III-I

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	17Q61A0301	8
2	20Q61A0301	26
3	20Q61A0302	12
4	20Q61A0303	28
5	20Q61A0304	28
6	21Q65A0302	29
7	21Q65A0303	31
8	21Q65A0304	30
9	21Q65A0306	11
10	21Q65A0307	28
11	21Q65A0308	39
12	21Q65A0309	26
13	21Q65A0310	4
14	21Q65A0311	26
15	21Q65A0312	32
16	21Q65A0314	41
17	21Q65A0315	30
18	21Q65A0316	28
19	21Q65A0317	30
20	21Q65A0318	29
21	21Q65A0319	29
22	21Q65A0321	15
23	21Q65A0322	35
24	21Q65A0323	26
25	21Q65A0324	30
26	21Q65A0325	32
27	21Q65A0326	33

Total No. of students who attempted the subject	27
Max. Marks	75
No. of students secured > 26 marks	23
Percentage of students secured > 26 marks	85.2
Overall External Attainment level	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

[Signature]
Principal
Avanthi Institute of Engineering & Technology
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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	DM	Semester:	III-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25*INT + 0.75*EXT

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CO1	Study of KOM & DOM are necessary to have an idea while designing the various Machine members like shafts, bearings, gears, belts & chains													
CO2	Study of various I.C. Engine Components.													
CO3	Study of Machine tool parts													
CO-PO Mapping														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	2	2	2							2	2	2
CO2	2	2	2			2							2	
CO3	2	2	2		2	2								2
CO avg(M)	2	2	2	2	2	2						2	2	2

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Department:		MECHANICAL ENGINEERING						
Course Outcome Attainment - Internal Assessments								
Name of the Faculty:		MECH				Academic Year:		2022-23
Branch & Section:		B.TECH-M&MT				Exam:		MID - I
Course/Sub:		CO1		CO2		Year/Semester:		III-I
Sl.No	Roll Number	CO1	CO2	CO2	CO4	Objective	Assignment	
		Q1	Q2	Q3	Q4			
Maximum Marks		5	5	5	5	10	5	
1	17Q61A0301		2	2		5	5	
2	20Q61A0301	5	2			5	5	
3	20Q61A0302					5	5	
4	20Q61A0303			4	4	5	5	
5	20Q61A0304		2		3	5	5	
6	21Q65A0302	5			5	4	5	
7	21Q65A0303		4		4	5	5	
8	21Q65A0304	5		5		4	5	
9	21Q65A0306		3	3		5	5	
10	21Q65A0307	3			4	5	5	
11	21Q65A0308		4	4		8	5	
12	21Q65A0309	5			2	10	5	
13	21Q65A0310					7	5	
14	21Q65A0311		3		4	9	5	
15	21Q65A0312	4			4	5	5	
16	21Q65A0314		5	5		8	5	
17	21Q65A0315		5		2	9	5	
18	21Q65A0316	4		4		9	5	
19	21Q65A0317				5	8	5	
20	21Q65A0318		4		3	8	5	
21	21Q65A0319	3		4		9	5	
22	21Q65A0321		2	4		6	5	
23	21Q65A0322	2			3	8	5	
24	21Q65A0323		4	3		7	5	
25	21Q65A0324	5			5	7	5	
26	21Q65A0325		5			10	5	
27	21Q65A0326		4		3	5	5	
No. of students attempted		10	14	10	14	27	27	
Max Marks Question wise		5	5	5	5	10	5	
Target 50%		2.5	2.5	2.5	2.5	5	2.5	
No. of Students above 50%		9	10	9	12	25	27	
% of Students > 50%		90	71.43	90	85.72	92.6	100	
Attainment Level		3	3	3	3	3	3	

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Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		B.TECH-M&MT		Exam:		MID - II	
Course/Sub:		Year/Semester:		III-I			
Sl.No	Roll Number	CO3	C04	C04	C05	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	17Q61A0301					3	5
2	20Q61A0301	4			4	3	5
3	20Q61A0302					3	5
4	20Q61A0303		3		3	3	5
5	20Q61A0304		3	2		3	5
6	21Q65A0302	4		4		5	5
7	21Q65A0303		2		4	3	5
8	21Q65A0304	4		4		5	5
9	21Q65A0306	3		2		3	5
10	21Q65A0307		5		3	3	5
11	21Q65A0308	4			3	8	5
12	21Q65A0309			3	3	10	5
13	21Q65A0310					5	5
14	21Q65A0311		4		4	8	5
15	21Q65A0312	3		3		5	5
16	21Q65A0314		5	2		8	5
17	21Q65A0315	5			5	7	5
18	21Q65A0316		3		3	8	5
19	21Q65A0317	3		3		7	5
20	21Q65A0318		3	3		8	5
21	21Q65A0319	4		4		8	5
22	21Q65A0321			4		7	5
23	21Q65A0322		2		4	9	5
24	21Q65A0323			3	3	7	5
25	21Q65A0324	5		4		5	5
26	21Q65A0325	2			2	6	5
27	21Q65A0326			4	2	5	5
No. of students attempted		11	9	14	13	27	27
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		10	7	11	11	19	27
% of Students > 50%		90.91	77.78	78.58	84.62	70.38	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	B.TECH-M&MT	Year/Semester:	III-I

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	17Q61A0301	12
2	20Q61A0301	11
3	20Q61A0302	22
4	20Q61A0303	31
5	20Q61A0304	5
6	21Q65A0302	30
7	21Q65A0303	44
8	21Q65A0304	39
9	21Q65A0306	26
10	21Q65A0307	31
11	21Q65A0308	37
12	21Q65A0309	26
13	21Q65A0310	0
14	21Q65A0311	29
15	21Q65A0312	26
16	21Q65A0314	75
17	21Q65A0315	64
18	21Q65A0316	41
19	21Q65A0317	29
20	21Q65A0318	31
21	21Q65A0319	10
22	21Q65A0321	15
23	21Q65A0322	26
24	21Q65A0323	26
25	21Q65A0324	29
26	21Q65A0325	26
27	21Q65A0326	34

Total No. of students who attempted the subject	26
Max. Marks	75
No. of students secured > 26 marks	20
Percentage of students secured > 26 marks	76.9
Overall External Attainment level	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	B.TECH-M&MT	Semister:	III-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25*INT + 0.75*EXT

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Course Outcomes														
CO1	Identify techniques to minimize the errors in measurement.													
CO2	Identify methods and devices for measurement of length, angle, gear & thread parameters, surface roughness and geometric features of parts.													
CO3	Understand working of lathe, shaper, planer, drilling, milling and grinding machines.													
CO4	Comprehend speed and feed mechanisms of machine tools.													
CO5	Estimate machining times for machining operations on machine tools													
CO-PO Mapping														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3			2		2				2	2	
CO2	3	2	3			2		2				2	2	
CO3	3	3	3			2		2				2		2
CO avg(M)	3	3	3			2		2				2	2	2

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - I	
Course/Sub:		B.TECH-OR		Year/Semister:		III-I	
Sl.No	Roll Number	CO1	C02	C02	C03	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	17Q61A0301					5	5
2	20Q61A0301	5		5		5	5
3	20Q61A0302					5	5
4	20Q61A0303		5		4	5	5
5	20Q61A0304	3		3		5	5
6	21Q65A0302			5	5	4	5
7	21Q65A0303	5		5		5	5
8	21Q65A0304		5	5		4	5
9	21Q65A0306				3	5	5
10	21Q65A0307		5	5		5	5
11	21Q65A0308	5	5			8	5
12	21Q65A0309			4	4	10	5
13	21Q65A0310	2				7	5
14	21Q65A0311		3		4	9	5
15	21Q65A0312	3		4		5	5
16	21Q65A0314		5		5	8	5
17	21Q65A0315	5				9	5
18	21Q65A0316		5	5		9	5
19	21Q65A0317	5			5	8	5
20	21Q65A0318			4		8	5
21	21Q65A0319	3	4			9	5
22	21Q65A0321			2	5	6	5
23	21Q65A0322	3				8	5
24	21Q65A0323		4		3	7	5
25	21Q65A0324		5	5		7	5
26	21Q65A0325	2	2			10	5
27	21Q65A0326		3	3		5	5
No. of students attempted		11	12	13	9	27	27
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		9	11	12	9	25	27
% of Students >50%		81.82	91.67	92.31	100	92.6	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2

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70-80%	3
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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		B.TECH-OR		Exam:		MID - II	
Course/Sub:		C03		Year/Semester:		III-I	
Sl.No	Roll Number	CO3	C04	C04	C05	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	17Q61A0301					3	5
2	20Q61A0301	5			4	3	5
3	20Q61A0302					3	5
4	20Q61A0303		5	5		3	5
5	20Q61A0304		5			3	5
6	21Q65A0302	5			4	5	5
7	21Q65A0303			5	5	3	5
8	21Q65A0304	5			5	5	5
9	21Q65A0306				2	3	5
10	21Q65A0307		4		4	3	5
11	21Q65A0308		5		5	8	5
12	21Q65A0309	2			4	10	5
13	21Q65A0310		3			5	5
14	21Q65A0311	4		4		8	5
15	21Q65A0312		5		4	5	5
16	21Q65A0314	5		4		8	5
17	21Q65A0315	4			4	7	5
18	21Q65A0316		4		5	8	5
19	21Q65A0317	4		4		7	5
20	21Q65A0318			2		8	5
21	21Q65A0319	5		4		8	5
22	21Q65A0321	4		4		7	5
23	21Q65A0322	5				9	5
24	21Q65A0323	3		3		7	5
25	21Q65A0324		5		5	5	5
26	21Q65A0325				3	6	5
27	21Q65A0326			5		5	5
No. of students attempted		12	8	10	13	27	27
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		11	8	9	12	19	27
% of Students > 50%		91.67	100	90	92.31	70.38	100
Attainment Level		3	3	3	3	3	3


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Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	B.TECH-OR	Year/Semister:	III-I

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	17Q61A0301	4
2	20Q61A0301	33
3	20Q61A0302	5
4	20Q61A0303	33
5	20Q61A0304	12
6	21Q65A0302	61
7	21Q65A0303	49
8	21Q65A0304	60
9	21Q65A0306	31
10	21Q65A0307	47
11	21Q65A0308	61
12	21Q65A0309	41
13	21Q65A0310	30
14	21Q65A0311	26
15	21Q65A0312	40
16	21Q65A0314	44
17	21Q65A0315	49
18	21Q65A0316	31
19	21Q65A0317	19
20	21Q65A0318	40
21	21Q65A0319	9
22	21Q65A0321	26
23	21Q65A0322	29
24	21Q65A0323	13
25	21Q65A0324	31
26	21Q65A0325	37
27	21Q65A0326	29

Total No. of students who attempted the subject	26
Max. Marks	75
No. of students secured > 26 marks	21
Percentage of students secured > 26 marks	80.8
Overall External Attainment level	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	OR	Semister:	III-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam (Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = $0.25*INT + 0.75*EXT$

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Course Outcomes

CO1	Solve linear programming problems using appropriate techniques and optimization solvers, interpret the results obtained.
CO2	Optimize the allocation of resources to Demand points in the best possible way using various techniques and minimize the cost or time of completion of number of jobs by number of persons.
CO3	Model competitive real-world phenomena using concepts from game theory. Analyse pure and mixed strategy games

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2									2	2	
CO2	2	2										2	2	
CO3	2	2	2									2		2
CO avg(M)	2	2	2									2	2	2

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		B.TECH-TE-II		Exam:		MID - I	
Course/Sub:		Year/Semester:		III-I			
Sl.No	Roll Number	CO1	C02	C02	C03	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	17Q61A0301					5	5
2	20Q61A0301	5		5		5	5
3	20Q61A0302		2			5	5
4	20Q61A0303			4	4	5	5
5	20Q61A0304	3	2			5	5
6	21Q65A0302	5	5			4	5
7	21Q65A0303		5		4	5	5
8	21Q65A0304		5	5		4	5
9	21Q65A0306	3			2	5	5
10	21Q65A0307		5		5	5	5
11	21Q65A0308	5	4			8	5
12	21Q65A0309			4	3	10	5
13	21Q65A0310			2		7	5
14	21Q65A0311		5		2	9	5
15	21Q65A0312	5		4		5	5
16	21Q65A0314	5		5		8	5
17	21Q65A0315			4	3	9	5
18	21Q65A0316		5	5		9	5
19	21Q65A0317	4	3			8	5
20	21Q65A0318				4	8	5
21	21Q65A0319	3		4		9	5
22	21Q65A0321			3	3	6	5
23	21Q65A0322		3			8	5
24	21Q65A0323	2		5		7	5
25	21Q65A0324		4		5	7	5
26	21Q65A0325	2		2		10	5
27	21Q65A0326		4		3	5	5
No. of students attempted		11	13	13	11	27	27
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		9	11	11	9	25	27
% of Students > 50%		81.82	84.62	84.62	81.82	92.6	100
Attainment Level		3	3	3	3	3	3

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Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Department:

MECHANICAL ENGINEERING

Course Outcome Attainment - Internal Assessments

Name of the Faculty:		Academic Year:				2022-23	
Branch & Section:		MECH		Exam:		MID - II	
Course/Sub:		B.TECH-TE-II		Year/Semister:		III-I	
Sl.No	Roll Number	CO3 Q1	CO4 Q2	CO4 Q3	CO5 Q4	Objective	Assignment
Maximum Marks		5	5	5	5	10	5
1	17Q61A0301					3	5
2	20Q61A0301		5		4	3	5
3	20Q61A0302			3		3	5
4	20Q61A0303		4		4	3	5
5	20Q61A0304	2		2		3	5
6	21Q65A0302		4		4	5	5
7	21Q65A0303	5			5	3	5
8	21Q65A0304		5		5	5	5
9	21Q65A0306			4		3	5
10	21Q65A0307	4	5			3	5
11	21Q65A0308			5	5	8	5
12	21Q65A0309	3	3			10	5
13	21Q65A0310			3		5	5
14	21Q65A0311	4	2			8	5
15	21Q65A0312			5	2	5	5
16	21Q65A0314	5		5		8	5
17	21Q65A0315	4			5	7	5
18	21Q65A0316			4	5	8	5
19	21Q65A0317	3		3		7	5
20	21Q65A0318				3	8	5
21	21Q65A0319	5		4		8	5
22	21Q65A0321		4	4		7	5
23	21Q65A0322			3	2	9	5
24	21Q65A0323	3		3		7	5
25	21Q65A0324			5	5	5	5
26	21Q65A0325	3				6	5
27	21Q65A0326	3		3		5	5
No. of students attempted		12	8	15	12	27	27
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		11	7	14	10	19	27
% of Students > 50%		91.67	87.5	93.34	83.34	70.38	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	B.TECH-TE-II	Year/Semester:	III-I

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	17Q61A0301	3
2	20Q61A0301	26
3	20Q61A0302	31
4	20Q61A0303	34
5	20Q61A0304	3
6	21Q65A0302	27
7	21Q65A0303	30
8	21Q65A0304	40
9	21Q65A0306	28
10	21Q65A0307	31
11	21Q65A0308	38
12	21Q65A0309	26
13	21Q65A0310	13
14	21Q65A0311	32
15	21Q65A0312	15
16	21Q65A0314	39
17	21Q65A0315	33
18	21Q65A0316	26
19	21Q65A0317	26
20	21Q65A0318	30
21	21Q65A0319	9
22	21Q65A0321	26
23	21Q65A0322	18
24	21Q65A0323	18
25	21Q65A0324	26
26	21Q65A0325	34
27	21Q65A0326	28

Total No. of students who attempted the subject	26
Max. Marks	75
No. of students secured > 26 marks	18
Percentage of students secured > 26 marks	69.2
Overall External Attainment level	2

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50-60%	1
60-70%	2
70-80%	3



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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	TE-II	Semester:	III-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	2	2.25
Course outcome - 2	3	-	3	2	2.25
Course outcome - 3	3	3	3	2	2.25
Course outcome - 4	-	3	3	2	2.25
Course outcome - 5	-	3	3	2	2.25
Average			3	2	2.25

OVERALL ATTAINMENT OF THE SUBJECT = $0.25 \times \text{INT} + 0.75 \times \text{EXT}$

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Course Outcomes

CO1	Develop state – space diagrams based on the schematic diagrams of process flow of steam
CO2	Gas turbine plants Apply the laws of Thermodynamics to analyze thermodynamic cycles
CO3	Differentiate between vapour power cycles and gas power cycles
CO4	Infer from property charts and tables and to apply the data for the evaluation of performance

CO-PO Mapping

CO	PO1	PO2	PO	PO4	PO	PO6	PO7	PO8	PO9	PO1	PO11	PO12	PSO1	PSO2
CO1	2	2											2	
CO2	2	2											2	2
CO3	3	2		2		2							2	
CO4	2	2				2							2	2
CO avg(M)	2.25	2		2		2							2	2


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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:						Academic Year:	
Branch & Section:		MECH				Exam:	
Course/Sub:		CAD&CAM				Year/Semester:	
Sl.No	Roll Number	CO1	C02	C02	C03	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	20Q61A0301	3	3			5	5
2	20Q61A0302			5	2	5	5
3	20Q61A0303		4	3		5	5
4	21Q65A0302	3	3			5	5
5	21Q65A0303		5		4	5	5
6	21Q65A0304		5	5		4	5
7	21Q65A0307	4		4		5	5
8	21Q65A0308		4	5		4	5
9	21Q65A0309		3		3	5	5
10	21Q65A0310			4	2	5	5
11	21Q65A0311	3	3			8	5
12	21Q65A0312		2	3		10	5
13	21Q65A0314		5	2		7	5
14	21Q65A0315	5			2	9	5
15	21Q65A0316			3	5	5	5
16	21Q65A0317		3	3		8	5
17	21Q65A0318	2			3	9	5
18	21Q65A0319			2	5	9	5
19	21Q65A0321	4	3			8	5
20	21Q65A0322		2	3		8	5
21	21Q65A0323		3	3		9	5
22	21Q65A0324		5	4		6	5
23	21Q65A0325	5	2			8	5
24	21Q65A0326		3	2		7	5
No. of students attempted		8	17	15	8	24	24
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	14	12	5	22	24
% of Students > 50%		87.5	82.36	80	62.5	91.67	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3


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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:						Academic Year:	
Branch & Section:		MECH		Exam:		2022-23	
Course/Sub:		CAD&CAM		Year/Semester:		III-II	
Sl.No	Roll Number	CO3	C04	C04	C05	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	20Q61A0301		5			3	5
2	20Q61A0302	3			3	3	5
3	20Q61A0303			5	3	3	5
4	21Q65A0302	5		2		5	5
5	21Q65A0303		5	5		3	5
6	21Q65A0304	5			5	5	5
7	21Q65A0307		5	4		5	5
8	21Q65A0308			5	5	5	5
9	21Q65A0309	5	3			3	5
10	21Q65A0310		3		2	3	5
11	21Q65A0311	5		2		8	5
12	21Q65A0312		5			10	5
13	21Q65A0314	4			4	5	5
14	21Q65A0315			4	4	8	5
15	21Q65A0316	5		3		5	5
16	21Q65A0317		3		4	8	5
17	21Q65A0318		5		2	7	5
18	21Q65A0319			3	3	8	5
19	21Q65A0321		3	3		7	5
20	21Q65A0322	2		3		8	5
21	21Q65A0323		3		3	8	5
22	21Q65A0324	5		5		7	5
23	21Q65A0325	5			2	9	5
24	21Q65A0326	3		2		7	5
No. of students attempted		11	10	13	12	24	24
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		10	10	10	9	18	24
% of Students > 50%		90.91	100	76.93	75	75	100
Attainment Level		3	3	3	2	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	CAD&CAM	Year/Semister:	III-II

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	20Q61A0301	29
2	20Q61A0302	32
3	20Q61A0303	40
4	21Q65A0302	26
5	21Q65A0303	32
6	21Q65A0304	44
7	21Q65A0307	49
8	21Q65A0308	28
9	21Q65A0309	32
10	21Q65A0310	32
11	21Q65A0311	28
12	21Q65A0312	39
13	21Q65A0314	53
14	21Q65A0315	47
15	21Q65A0316	45
16	21Q65A0317	48
17	21Q65A0318	31
18	21Q65A0319	43
19	21Q65A0321	35
20	21Q65A0322	39
21	21Q65A0323	31
22	21Q65A0324	34
23	21Q65A0325	9
24	21Q65A0326	8

Total No. of students who attempted the subject	24
Max. Marks	75
No. of students secured > 26 marks	18
Percentage of students secured > 26 marks	75.0
Overall External Attainment level	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3


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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	CAD&CAM	Semester:	III-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25*INT + 0.75*EXT

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Faculty: Assistant Professor,		SUB: CAD&CAM				SEM: III-II		Dept. of MECH						
Course Outcomes														
CO1	Understand geometric transformation techniques in CAD.													
CO2	Develop mathematical models to represent curves and surfaces.													
CO3	Model engineering components using solid modeling techniques.													
CO4	Develop programs for CNC to manufacture industrial components.													
CO5	To understand the application of computers in various aspects of Manufacturing viz., Design, Proper planning, Manufacturing cost, Layout & Material Handling system.													
CO-PO Mapping														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	2		3					3	3	2	2	
CO2	2	3	2		3					3	3	2	2	
CO3	2	3	2		3					3	3	2	2	
CO4	2	3	2		3					3	3	2	2	
CO5	2	3	2		3					3	3	2	2	
CO avg(M)	2	3	2		3					3	3	2	2	

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - I	
Course/Sub:		UNCONVENTIONAL MACHINING PROCESSES		Year/Semister:		III-II	
Sl.No	Roll Number	CO1	C02	C02	C03	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	20Q61A0301	5		4		5	5
2	20Q61A0302		3	3		5	5
3	20Q61A0303		5		4	5	5
4	21Q65A0302		4	4		5	5
5	21Q65A0303	5		4		5	5
6	21Q65A0304		5	4		4	5
7	21Q65A0307		4		5	5	5
8	21Q65A0308		4	5		4	5
9	21Q65A0309	2		4		5	5
10	21Q65A0310		4	3		5	5
11	21Q65A0311	5	2			8	5
12	21Q65A0312	4	5			10	5
13	21Q65A0314		5	4		7	5
14	21Q65A0315		5		4	9	5
15	21Q65A0316			5	4	5	5
16	21Q65A0317	5		4		8	5
17	21Q65A0318	2			5	9	5
18	21Q65A0319		4		3	9	5
19	21Q65A0321	4		3		8	5
20	21Q65A0322		5	2		8	5
21	21Q65A0323			4	3	9	5
22	21Q65A0324		4	4		6	5
23	21Q65A0325	5			2	8	5
24	21Q65A0326		3	3		7	5
No. of students attempted		9	15	16	8	24	24
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	14	15	7	22	24
% of Students > 50%		77.78	93.34	93.75	87.5	91.67	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		UNCONVENTIONAL MACHINING PROCESSES		Exam:		MID - II	
Course/Sub:		Year/Semester:		III-II			
Sl.No	Roll Number	CO2 Q1	C03 Q2	C03 Q3	C05 Q4	Objective	Assignment
Maximum Marks		5	5	5	5	10	5
1	20Q61A0301		4		4	3	5
2	20Q61A0302			5	2	3	5
3	20Q61A0303	5	4			3	5
4	21Q65A0302			4	5	3	5
5	21Q65A0303	5			4	3	5
6	21Q65A0304	4			4	5	5
7	21Q65A0307		4	4		5	5
8	21Q65A0308	3		5		5	5
9	21Q65A0309		4		4	5	5
10	21Q65A0310			5	3	5	5
11	21Q65A0311	4		4		8	5
12	21Q65A0312		4	4		10	5
13	21Q65A0314		3		5	5	5
14	21Q65A0315	4			4	8	5
15	21Q65A0316		4		4	5	5
16	21Q65A0317	4		4		8	5
17	21Q65A0318	4			4	7	5
18	21Q65A0319			4	4	8	5
19	21Q65A0321	4		4		7	5
20	21Q65A0322	4		4		8	5
21	21Q65A0323		5		2	8	5
22	21Q65A0324	5		4		7	5
23	21Q65A0325		5			9	5
24	21Q65A0326	3		4		7	5
No. of students attempted		12	9	13	13	24	24
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		12	9	13	11	19	24
% of Students > 50%		100	100	100	84.62	79.17	100
Attainment Level		3	3	3	3	3	3

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Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	UNCONVENTIONAL MACHINING PROCESSES	Year/Semister:	III-II

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	20Q61A0301	44
2	20Q61A0302	32
3	20Q61A0303	39
4	21Q65A0302	35
5	21Q65A0303	46
6	21Q65A0304	44
7	21Q65A0307	35
8	21Q65A0308	40
9	21Q65A0309	37
10	21Q65A0310	38
11	21Q65A0311	27
12	21Q65A0312	32
13	21Q65A0314	43
14	21Q65A0315	41
15	21Q65A0316	34
16	21Q65A0317	33
17	21Q65A0318	32
18	21Q65A0319	34
19	21Q65A0321	33
20	21Q65A0322	33
21	21Q65A0323	33
22	21Q65A0324	36
23	21Q65A0325	35
24	21Q65A0326	29

Total No. of students who attempted the subject	24
Max. Marks	75
No. of students secured > 26 marks	24
Percentage of students secured > 26 marks	100.0
Overall External Attainment level	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3


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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	UNCONVENTIONAL MACHINING PROCESSES	Semester:	III-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam (Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = $0.25*INT + 0.75*EXT$


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Course Outcomes														
CO1	Understand the basic techniques of Unconventional Machining processes modeling													
CO2	Estimate the material removal rate and cutting force, in an industrially useful manner, for Unconventional Machining processes													
CO3	Explain the basic types of machines.													
CO4	Discuss various non-conventional machines and their applications													
CO-PO Mapping														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	2					2			2	2	2
CO2	2	2	2	2					2			2	2	2
CO3	2	2	2	2					2			2	2	2
CO avg(M)	2	2	2	2					2			2	2	2

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Department:		MECHANICAL ENGINEERING						
Course Outcome Attainment - Internal Assessments								
Name of the Faculty:						Academic Year:		2022-23
Branch & Section:		MECH				Exam:		MID - I
Course/Sub:		HEAT TRANSFER		Year/Semister:		III-II		
Sl.No	Roll Number	CO1	CO2	CO2	CO3	Objective	Assignment	
		Q1	Q2	Q3	Q4			
Maximum Marks		5	5	5	5	10	5	
1	20Q61A0301	5		4		5	5	
2	20Q61A0302		2	5		5	5	
3	20Q61A0303		4		5	5	5	
4	21Q65A0302	4	4			5	5	
5	21Q65A0303	5			4	5	5	
6	21Q65A0304	5			5	4	5	
7	21Q65A0307		5	4		5	5	
8	21Q65A0308		4	5		4	5	
9	21Q65A0309	5			5	5	5	
10	21Q65A0310		5	5		5	5	
11	21Q65A0311			3	3	8	5	
12	21Q65A0312	5		4		10	5	
13	21Q65A0314	4		4		7	5	
14	21Q65A0315		5		4	9	5	
15	21Q65A0316		4	5		5	5	
16	21Q65A0317	2		5		8	5	
17	21Q65A0318			3	3	9	5	
18	21Q65A0319		5		2	9	5	
19	21Q65A0321		4	4		8	5	
20	21Q65A0322	2			5	8	5	
21	21Q65A0323		5	2		9	5	
22	21Q65A0324		5	5		6	5	
23	21Q65A0325	5	2			8	5	
24	21Q65A0326		3	3		7	5	
No. of students attempted		10	14	15	9	24	24	
Max Marks Question wise		5	5	5	5	10	5	
Target 50%		2.5	2.5	2.5	2.5	5	2.5	
No. of Students above 50%		8	12	14	8	22	24	
% of Students > 50%		80	85.72	93.34	88.89	91.67	100	
Attainment Level		3	3	3	3	3	3	

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:				Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - II	
Course/Sub:		HEAT TRANSFER		Year/Semester:		III-II	
Sl.No	Roll Number	CO3	CO4	CO4	CO5	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	20Q61A0301			5	3	5	5
2	20Q61A0302	4	4			5	5
3	20Q61A0303	5			4	3	5
4	21Q65A0302			4	5	3	5
5	21Q65A0303		5		4	3	5
6	21Q65A0304	5		5		5	5
7	21Q65A0307	5			4	5	5
8	21Q65A0308		4	4		5	5
9	21Q65A0309	5	5			3	5
10	21Q65A0310			5	5	3	5
11	21Q65A0311		4	2		8	5
12	21Q65A0312			4	4	10	5
13	21Q65A0314	5			4	5	5
14	21Q65A0315		4		4	8	5
15	21Q65A0316			5	5	5	5
16	21Q65A0317		3	3		8	5
17	21Q65A0318	5	2			7	5
18	21Q65A0319			3	3	8	5
19	21Q65A0321	5		4		7	5
20	21Q65A0322			4	4	8	5
21	21Q65A0323	2	5			8	5
22	21Q65A0324			5	5	7	5
23	21Q65A0325	3	3			9	5
24	21Q65A0326			5	2	7	5
No. of students attempted		10	10	14	14	24	24
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		9	9	13	13	19	24
% of Students > 50%		90	90	92.86	92.86	79.17	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2020-21
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	HEAT TRANSFER	Year/Semester:	III-II

S.NO.	HALL TICKET NO	TOTAL(Max. Score Marks)
1	20Q61A0301	26
2	20Q61A0302	26
3	20Q61A0303	30
4	21Q65A0302	26
5	21Q65A0303	26
6	21Q65A0304	26
7	21Q65A0307	29
8	21Q65A0308	31
9	21Q65A0309	26
10	21Q65A0310	26
11	21Q65A0311	16
12	21Q65A0312	11
13	21Q65A0314	30
14	21Q65A0315	32
15	21Q65A0316	29
16	21Q65A0317	26
17	21Q65A0318	26
18	21Q65A0319	17
19	21Q65A0321	26
20	21Q65A0322	26
21	21Q65A0323	26
22	21Q65A0324	26
23	21Q65A0325	26
24	21Q65A0326	26

Total No. of students who attempted the subject	24
Max. Marks	75
No. of students secured > 26 marks	17
Percentage of students secured > 26 marks	70.8
Overall External Attainment level	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3


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Overall Course Outcome Attainment			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	HEAT TRANSFER	Semester:	III-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = $0.25*INT + 0.75*EXT$

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Faculty: Assistant Professor, SUB: HEAT TRANSFER SEM: III-II Dept. of MECH

Course Outcomes

CO1	Understand and analyze heat transfer through extended surfaces
CO2	Understand one dimensional transient conduction heat transfer
CO3	Understand concepts of continuity, momentum and energy equations
CO4	Interpret and analyze forced and free convective heat transfer
CO5	Understand the principles of boiling, condensation and radiation heat transfer

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	2								2	2	3
CO2	2	2	2	2								2	2	2
CO3	2	2	2	2								2	2	2
CO4	2	2	2	2								2	2	2
CO5	2	2	2	2								2	2	3
CO avg(M)	2	2	2	2								2	2	2.33


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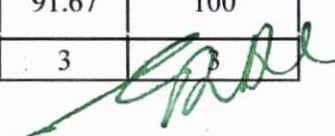
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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		EXTERNAL	
Course/Sub:		FINITE ELEMENT METHODS		Year/Semester:		III-II	
Sl.No	Roll Number	CO1	CO2	CO2	CO3	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	20Q61A0301	4	5			5	5
2	20Q61A0302		4	4		5	5
3	20Q61A0303			5	4	5	5
4	21Q65A0302	5			4	5	5
5	21Q65A0303		5	4		5	5
6	21Q65A0304	5	5			4	5
7	21Q65A0307		4		5	5	5
8	21Q65A0308		5	5		4	5
9	21Q65A0309	4			5	5	5
10	21Q65A0310		3		5	5	5
11	21Q65A0311	4		4		8	5
12	21Q65A0312	4	5			10	5
13	21Q65A0314		5	5		7	5
14	21Q65A0315		5		5	9	5
15	21Q65A0316		5	5		5	5
16	21Q65A0317	4			4	8	5
17	21Q65A0318	3		4		9	5
18	21Q65A0319			4	4	9	5
19	21Q65A0321		5	4		8	5
20	21Q65A0322		5	4		8	5
21	21Q65A0323			4	5	9	5
22	21Q65A0324		5	5		6	5
23	21Q65A0325	4	4			8	5
24	21Q65A0326		4	4		7	5
No. of students attempted		9	16	14	9	24	24
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		9	16	14	9	22	24
% of Students > 50%		100	100	100	100	91.67	100
Attainment Level		3	3	3	3	3	

Attainment table	
50-60%	1
60-70%	2
70-80%	3


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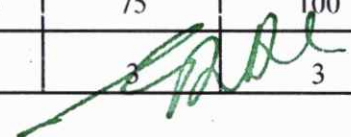
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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		FINITE ELEMENT METHODS		Exam:		EXTERNAL	
Course/Sub:		C03		C04		III-II	
Sl.No	Roll Number	Q1	Q2	Q3	Q4	Objective	Assignment
Maximum Marks		5	5	5	5	10	5
1	20Q61A0301	4			5	3	5
2	20Q61A0302		5		3	3	5
3	20Q61A0303			5	4	3	5
4	21Q65A0302	5	4			3	5
5	21Q65A0303			4	5	3	5
6	21Q65A0304	5	5			5	5
7	21Q65A0307	4			5	3	5
8	21Q65A0308	5			5	5	5
9	21Q65A0309		5	4		5	5
10	21Q65A0310	4			4	5	5
11	21Q65A0311			4	4	8	5
12	21Q65A0312	5	4			10	5
13	21Q65A0314		5	5		5	5
14	21Q65A0315	5			5	8	5
15	21Q65A0316	5	5			5	5
16	21Q65A0317	4		4		8	5
17	21Q65A0318		5		3	7	5
18	21Q65A0319			4	4	8	5
19	21Q65A0321	5		4		7	5
20	21Q65A0322	4		5		8	5
21	21Q65A0323			4	5	8	5
22	21Q65A0324	5		5		7	5
23	21Q65A0325		4		4	9	5
24	21Q65A0326	4		4		7	5
No. of students attempted		14	9	12	13	24	24
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		14	9	12	13	18	24
% of Students > 50%		100	100	100	100	75	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3


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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	B.TECH- FINITE ELEMENT	Year/Semester:	III-II

S.NO.	ALLTICKET N	TOTAL(Max. Score Marks)
1	20Q61A0301	31
2	20Q61A0302	26
3	20Q61A0303	16
4	21Q65A0302	29
5	21Q65A0303	34
6	21Q65A0304	29
7	21Q65A0307	29
8	21Q65A0308	26
9	21Q65A0309	29
10	21Q65A0310	26
11	21Q65A0311	28
12	21Q65A0312	26
13	21Q65A0314	28
14	21Q65A0315	32
15	21Q65A0316	26
16	21Q65A0317	32
17	21Q65A0318	26
18	21Q65A0319	15
19	21Q65A0321	12
20	21Q65A0322	8
21	21Q65A0323	30
22	21Q65A0324	28
23	21Q65A0325	28
24	21Q65A0326	17
Total No. of students who attempted the subject		24
Max. Marks		75
No. of students secured > 26 marks		19
Percentage of students secured > 26 marks		79.2
Overall External Attainment level		3

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Overall Course Outcome Attainment			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	FINITE ELEMENT METHODS	Semester:	III-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25*INT + 0.75*EXT


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Course Outcomes

CO1	Understand the concepts behind formulation methods in FEM.
CO2	Identify the application and characteristics of FEA elements such as bars, beams, plane and iso-parametric elements.
CO3	Develop element characteristic equation and generation of global equation.
CO4	Able to apply suitable boundary conditions to a global equation for bars, trusses, beams, circular shafts, heat transfer, fluid flow, axi symmetric and dynamic problems
CO5	solve them displacements, stress and strains induced.

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	2					2			3	3	
CO2	3	2	2	2					2			2	3	
CO3	3	2	3	2	2				2			2	3	
CO4	3	2	2	2	3				2			2	3	
CO5	3	2	3	3	3				3			3	3	
CO avg(M)	3	2	2.4	2.33	2.66				2			2.33	3	

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		DESIGN OF MACHINE MEMBERS - II		Exam:		MID - I	
Course/Sub:		Year/Semester:		III-II			
Sl.No	Roll Number	CO1 Q1	CO2 Q2	CO2 Q3	CO3 Q4	Objective	Assignment
Maximum Marks		5	5	5	5	10	5
1	20Q61A0301	5		4		5	5
2	20Q61A0302		3	5		5	5
3	20Q61A0303	4			5	5	5
4	21Q65A0302		4	5		5	5
5	21Q65A0303		5	5		5	5
6	21Q65A0304		5		5	4	5
7	21Q65A0307	5			4	5	5
8	21Q65A0308		5	5		4	5
9	21Q65A0309		5	5		5	5
10	21Q65A0310		2	2		5	5
11	21Q65A0311	3		5		8	5
12	21Q65A0312	5	4			10	5
13	21Q65A0314		5	5		7	5
14	21Q65A0315		5		5	9	5
15	21Q65A0316	5			5	5	5
16	21Q65A0317		4		4	8	5
17	21Q65A0318	3			3	9	5
18	21Q65A0319		4	4		9	5
19	21Q65A0321			5	5	8	5
20	21Q65A0322	4			4	8	5
21	21Q65A0323		5	4		9	5
22	21Q65A0324			5	5	6	5
23	21Q65A0325	4	5			8	5
24	21Q65A0326		4	4		7	5
No. of students attempted		9	15	14	10	24	24
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		9	14	13	10	22	24
% of Students > 50%		100	93.34	92.86	100	91.67	100
Attainment Level		3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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NAAC "B++" Accredited Institute

Gunthapally (V), Abdullapurmet (M), RR Dist, Near Ramoji Film City, Hyderabad -501512.

www.aietg.ac.in email: principal.avanthi@gmail.com

Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		B.TECH-DESIGN OF MACHINE MEMBERS - II		Exam:		MID - II	
Course/Sub:		MEMBERS - II		Year/Semister:		III-II	
Sl.No	Roll Number	CO2 Q1	C03 Q2	C03 Q3	C04 Q4	Objective	Assignment
Maximum Marks		5	5	5	5	10	5
1	20Q61A0301	5			4	3	5
2	20Q61A0302		4		4	3	5
3	20Q61A0303	5	5			3	5
4	21Q65A0302	5		5		3	5
5	21Q65A0303	5	5			3	5
6	21Q65A0304			5	5	5	5
7	21Q65A0307			4	5	3	5
8	21Q65A0308	5		5		5	5
9	21Q65A0309		5		5	5	5
10	21Q65A0310	3		4		5	5
11	21Q65A0311			4	4	8	5
12	21Q65A0312		4		4	10	5
13	21Q65A0314		5		5	5	5
14	21Q65A0315	5			4	8	5
15	21Q65A0316			5	5	5	5
16	21Q65A0317			3	3	8	5
17	21Q65A0318		3		4	7	5
18	21Q65A0319	3	3			8	5
19	21Q65A0321		4	5		7	5
20	21Q65A0322	3		3		8	5
21	21Q65A0323	4		4		8	5
22	21Q65A0324		5		5	7	5
23	21Q65A0325			5	2	9	5
24	21Q65A0326	3			3	7	5
No. of students attempted		11	10	12	15	24	24
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		11	10	12	14	18	24
% of Students > 50%		100	100	100	93.34	75	100
Attainment Level		3	3	3	3	3	3

Attainment table

50-60%	1
60-70%	2
70-80%	3

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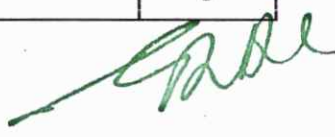
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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	DESIGN OF MACHINE MEMBERS - II	Year/Semister:	III-II

S.NO.	HALL TICKET NO	TOTAL (Max. Score Marks)
1	20Q61A0301	28
2	20Q61A0302	32
3	20Q61A0303	30
4	21Q65A0302	32
5	21Q65A0303	32
6	21Q65A0304	29
7	21Q65A0307	39
8	21Q65A0308	26
9	21Q65A0309	32
10	21Q65A0310	28
11	21Q65A0311	34
12	21Q65A0312	27
13	21Q65A0314	50
14	21Q65A0315	43
15	21Q65A0316	42
16	21Q65A0317	26
17	21Q65A0318	26
18	21Q65A0319	26
19	21Q65A0321	23
20	21Q65A0322	28
21	21Q65A0323	32
22	21Q65A0324	26
23	21Q65A0325	32
24	21Q65A0326	28
Total No. of students who attempted the subject		24
Max. Marks		75
No. of students secured > 26 marks		18
Percentage of students secured > 26 marks		75.0
Overall External Attainment level		3

50-60%	1
60-70%	2
70-80%	3


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Overall Course Outcome Attainment			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	DESIGN OF MACHINE MEMBERS - II	Semister:	III-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25*INT + 0.75*EXT

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Course Outcomes														
CO1	To understand and apply principles of gear design to spur gears and industrial spur gear boxes.													
CO2	To become proficient in Design of Helical and Bevel Gear													
CO3	To develop capability to analyze Rolling contact bearing and its selection from manufacturer's Catalogue.													
CO4	To learn a skill to design worm gear box for various industrial applications.													
CO5	To inculcate an ability to design belt drives and selection of belt, rope and chain drives.													
CO-PO Mapping														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	3			3						2	2	3
CO2	3	2	2			3						2	2	3
CO3	2	2	2			2						2	2	3
CO4	2	2	2			2						2	2	3
CO5	2	2	2			2						2	2	3
CO avg(M)	2.33	2.33	2.33			2.33						2	2	3

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		Academic Year:			2022-23		
Branch & Section:		MECH			Exam: MID - I		
Course/Sub:		Industrial Robotics			Year/Semister: IV-II		
Sl.No	Roll Number	CO1	C02	C02	C03	Objective	Assignment
		Question No.					
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	19Q61A0302	4	4			7	5
2	19Q61A0303	4	5			8	5
3	19Q61A0304	5	3			10	5
4	19Q61A0305	2	3			7	5
5	19Q61A0306	2	2			8	5
6	19Q61A0307	5	5			7	5
7	19Q61A0308	4	4			8	5
8	19Q61A0309	5	4			7	5
9	20Q65A0301	5		5		9	5
10	20Q65A0302	5	4			10	5
11	20Q65A0303	5	5			10	5
12	20Q65A0304	5	4			8	5
13	20Q65A0305	5	3			9	5
14	20Q65A0306	5			4	10	5
15	20Q65A0307	4			4	9	5
16	20Q65A0308			5	5	10	5
17	20Q65A0310	4		5		6	5
18	20Q65A0311	4		4		8	5
19	20Q65A0312	4		4		10	5
20	20Q65A0313	5		5		9	5
21	20Q65A0314	3		3		9	5
22	20Q65A0315	5		4		9	5
23	20Q65A0316	5		3		10	5
24	20Q65A0317	5		5		10	5
25	20Q65A0318	5		4		9	5
26	20Q65A0319	3		2		7	5
27	20Q65A0320	5		4		8	5
28	20Q65A0321		5	5		9	5
29	20Q65A0323		4			4	5
No. of students attempted		26	14	14	4	29	29
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		24	13	13	4	29	29
% of Students > 50%		92.31	92.86	92.86	100	100	100

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Attainment Level	3	3	3	3	3	3
Attainment table						
50-60%	1					
60-70%	2					
70-80%	3					



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Department:

MECHANICAL ENGINEERING

Course Outcome Attainment - Internal Assessments

Name of the Faculty:		Academic Year:				2022-23	
Branch & Section:		MECH		Exam:		MID - II	
Course/Sub:		Industrial Robotics		Year/Semester:		IV-II	
		CO3	C04	C04	C05		
Sl.No	Roll Number	Question No				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	19Q61A0302	2	4			9	5
2	19Q61A0303	4	3			10	5
3	19Q61A0304	5	4			9	5
4	19Q61A0305	2	2			8	5
5	19Q61A0306	4	1			7	5
6	19Q61A0307	5	3			9	5
7	19Q61A0308	3	4			9	5
8	19Q61A0309	4	4			8	5
9	20Q65A0301	5	4			10	5
10	20Q65A0302	5		5		9	5
11	20Q65A0303	5	5			10	5
12	20Q65A0304	4	4			9	5
13	20Q65A0305	5	5			7	5
14	20Q65A0306	5	5			9	5
15	20Q65A0307	5			4	8	5
16	20Q65A0308	5			5	10	5
17	20Q65A0310			4	4	7	5
18	20Q65A0311	4		5		7	5
19	20Q65A0312	4		5		9	5
20	20Q65A0313	4		5		10	5
21	20Q65A0314	5		3		7	5
22	20Q65A0315	4		4		10	5
23	20Q65A0316	1		3		9	5
24	20Q65A0317	5		5		10	5
25	20Q65A0318	5		3		10	5
26	20Q65A0319	4		2		6	5
27	20Q65A0320	4		4		9	5
28	20Q65A0321	4		5		10	5
29	20Q65A0323		3	3		5	5
No. of students attempted		27	14	14	3	29	29
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		24	12	13	3	29	29
% of Students > 50%		88.89	85.72	92.86	100	100	100

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Ranga Reddy (Dist.)

Attainment Level	3	3	3	3	3	3
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Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	Industrial Robotics	Year/Semester:	IV-II

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	19Q61A0302	48
2	19Q61A0303	49
3	19Q61A0304	47
4	19Q61A0305	44
5	19Q61A0306	32
6	19Q61A0307	51
7	19Q61A0308	48
8	19Q61A0309	55
9	20Q65A0301	56
10	20Q65A0302	50
11	20Q65A0303	56
12	20Q65A0304	48
13	20Q65A0305	53
14	20Q65A0306	36
15	20Q65A0307	59
16	20Q65A0308	56
17	20Q65A0310	34
18	20Q65A0311	47
19	20Q65A0312	59
20	20Q65A0313	58
21	20Q65A0314	50
22	20Q65A0315	51
23	20Q65A0316	43
24	20Q65A0317	62
25	20Q65A0318	55
26	20Q65A0319	-1
27	20Q65A0320	55
28	20Q65A0321	62
29	20Q65A0323	53
No. of students who attempted the subject		28
Max. Marks		75
No. of students secured > 26 marks		23
Percentage of students secured > 26 marks		82.1
Overall External Attainment level		3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Overall Course Outcome Attainment			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	Industrial Robotics	Semister:	IV-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3


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COURSE OUTCOMES

CO1	Discuss quality and various contributors Quality
CO2	Apply in-depth various QC tools
CO3	Explain frameworks of Global Quality Awards.
CO4	Discuss Strategic Quality management and its components.
CO5	Apply Statistical Quality Control like process capability, Six Sigma quality, Process control, p charts

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	2	2	2					2	2	2	2	2
CO2	2	2	3	2	2					2	2	2	2	2
CO3	2	2	2	2	2					2	2	2	2	2
CO4	2	2	2	2	2						2	2	2	2
CO5	2	2	2	3	2						2	2	2	2
CO avg(M)	2	2.33	2.33	2.23	2					2	2	2	2	2


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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:				Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - I	
Course/Sub:		Industrial Management		Year/Semester:		IV-II	
		CO1	CO2	CO2	CO3		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	19Q61A0302	2	4			7	5
2	19Q61A0303	2	5			6	5
3	19Q61A0304	5	3			7	5
4	19Q61A0305	3	3			7	5
5	19Q61A0306	2	3			7	5
6	19Q61A0307	4	3			6	5
7	19Q61A0308	4	3			6	5
8	19Q61A0309	3	3			8	5
9	20Q65A0301	3		4		7	5
10	20Q65A0302	2	4			9	5
11	20Q65A0303	4	4			8	5
12	20Q65A0304	5	2			9	5
13	20Q65A0305	5	3			7	5
14	20Q65A0306	3			4	10	5
15	20Q65A0307	4			2	7	5
16	20Q65A0308			3	3	10	5
17	20Q65A0310	4		5		6	5
18	20Q65A0311	4		3		8	5
19	20Q65A0312	4		2		6	5
20	20Q65A0313	5		3		9	5
21	20Q65A0314	5		3		7	5
22	20Q65A0315	3		3		9	5
23	20Q65A0316	5		3		5	5
24	20Q65A0317	4		3		7	5
25	20Q65A0318	3		4		7	5
26	20Q65A0319	3		3		9	5
27	20Q65A0320	2		4		8	5
28	20Q65A0321		2	3		5	5
29	20Q65A0323		4		2	9	5
No. of students attempted		26	14	14	4	29	29
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5

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No. of Students above 50%	21	12	13	2	29	29
% of Students > 50%	80.77	85.72	92.86	50	100	100
Attainment Level	3	3	3	2	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		Industrial Management		Exam:		MID - II	
Course/Sub:		C03		C04		C05	
		C03		C04		C05	
SLNo	Roll Number	Question No				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	19Q61A0302	2	5			6	5
2	19Q61A0303	2	3			8	5
3	19Q61A0304	5	4			6	5
4	19Q61A0305	3	2			6	5
5	19Q61A0306	4	1			7	5
6	19Q61A0307	5	3			5	5
7	19Q61A0308	4	4			5	5
8	19Q61A0309	4	3			6	5
9	20Q65A0301	5	4			5	5
10	20Q65A0302	3		5		7	5
11	20Q65A0303	4	2			10	5
12	20Q65A0304	4	4			8	5
13	20Q65A0305	2	4			9	5
14	20Q65A0306	5	3			7	5
15	20Q65A0307	5			3	5	5
16	20Q65A0308	3			4	9	5
17	20Q65A0310			4	4	7	5
18	20Q65A0311	4		2		7	5
19	20Q65A0312	4		3		5	5
20	20Q65A0313	2		5		8	5
21	20Q65A0314	5		2		6	5
22	20Q65A0315	3		3		7	5
23	20Q65A0316	1		3		9	5
24	20Q65A0317	4		4		6	5
25	20Q65A0318	1		3		10	5
26	20Q65A0319	5		2		6	5
27	20Q65A0320	1		4		9	5
28	20Q65A0321	2		5		7	5
29	20Q65A0323		5	3		7	5
No. of students attempted		27	14	14	3	29	29
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		19	11	11	3	29	29

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Ranga Reddy (Dist. 7

Attainment Level	3	3	3	3	3	3
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Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH		Exam: EXTERNAL
Course:	Industrial Management		Year/Semister: IV-II

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	19Q61A0302	27
2	19Q61A0303	37
3	19Q61A0304	21
4	19Q61A0305	11
5	19Q61A0306	28
6	19Q61A0307	36
7	19Q61A0308	30
8	19Q61A0309	26
9	20Q65A0301	26
10	20Q65A0302	30
11	20Q65A0303	35
12	20Q65A0304	26
13	20Q65A0305	29
14	20Q65A0306	30
15	20Q65A0307	13
16	20Q65A0308	26
17	20Q65A0310	31
18	20Q65A0311	41
19	20Q65A0312	26
20	20Q65A0313	13
21	20Q65A0314	31
22	20Q65A0315	32
23	20Q65A0316	19
24	20Q65A0317	42
25	20Q65A0318	13
26	20Q65A0319	-1
27	20Q65A0320	30
28	20Q65A0321	50
29	20Q65A0323	28

No. of students who attempted the subject	29
Max. Marks	75
No. of students secured > 26 marks	24
Percentage of students secured > 26 marks	82.8
Overall External Attainment level	3

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Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Overall Course Outcome Attainment			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	IM	Semister:	IV-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

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COURSE OUTCOMES

CO1	Explain the concepts of management and explore the management practices their domain area within society.													
CO2	Evaluate different types of organizational structures and design them.													
CO3	Explain about product design process and design product layout.													
CO4	Explain about method study and use various work measurement method													
CO5	draw various statistical quality control charts and interpret method.													
CO-PO Mapping														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2			2		3							2	
CO2	2	1			2							2	2	2
CO3	2	2	2	2	3	3							2	2
CO4	2	2	2	2	3							2	2	2
CO5	2	2	2	2	2	3						2	2	2
CO avg(M)	2	1.75	2	2	2.3	3						2	2	2
PO / PSO Attainment Level*	2	1.75	2	2	2.3	3						2	2	2

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:				Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - I	
Course/Sub:		Total Quality Management		Year/Semester:		IV-II	
		CO1	CO2	CO2	CO3		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	19Q61A0302	2	4			10	5
2	19Q61A0303	4	5			9	5
3	19Q61A0304	4	3			10	5
4	19Q61A0305	5	3			7	5
5	19Q61A0306	5	2			8	5
6	19Q61A0307	5	5			7	5
7	19Q61A0308	5	4			10	5
8	19Q61A0309	5	4			7	5
9	20Q65A0301	5		5		9	5
10	20Q65A0302	5	4			8	5
11	20Q65A0303	5	5			9	5
12	20Q65A0304	5	5			9	5
13	20Q65A0305	5	4			10	5
14	20Q65A0306	4			4	10	5
15	20Q65A0307	4			4	9	5
16	20Q65A0308			5	5	9	5
17	20Q65A0310	3		5		10	5
18	20Q65A0311	4		4		8	5
19	20Q65A0312	2		4		10	5
20	20Q65A0313	3		5		10	5
21	20Q65A0314	3		5		7	5
22	20Q65A0315	5		4		9	5
23	20Q65A0316	5		3		10	5
24	20Q65A0317	5		5		9	5
25	20Q65A0318	5		4		9	5
26	20Q65A0319	3		5		8	5
27	20Q65A0320	5		2		9	5
28	20Q65A0321		5	5		9	5
29	20Q65A0323		4		4	10	5
No. of students attempted		26	14	14	4	29	29
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5

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No. of Students above 50%	24	13	13	4	29	29
% of Students > 50%	92.31	92.86	92.86	100	100	100
Attainment Level	3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Department:

MECHANICAL ENGINEERING

Course Outcome Attainment - Internal Assessments

Name of the Faculty:		Academic Year:				2022-23	
Branch & Section:		MECH				Exam:	
Course/Sub:		Total Quality Management				Year/Semister:	
		CO3		C04		C05	
Sl.No	Roll Number	Question No				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	19Q61A0302	3	4			9	5
2	19Q61A0303	4	5			10	5
3	19Q61A0304	5	4			8	5
4	19Q61A0305	2	4			9	5
5	19Q61A0306	4	4			8	5
6	19Q61A0307	5	3			9	5
7	19Q61A0308	5	5			9	5
8	19Q61A0309	4	4			8	5
9	20Q65A0301	5	4			10	5
10	20Q65A0302	5		5		7	5
11	20Q65A0303	5	4			10	5
12	20Q65A0304	5	5			9	5
13	20Q65A0305	5	4			10	5
14	20Q65A0306	5	4			9	5
15	20Q65A0307	5			2	10	5
16	20Q65A0308	5			4	10	5
17	20Q65A0310			4	5	9	5
18	20Q65A0311	4		5		7	5
19	20Q65A0312	4		4		8	5
20	20Q65A0313	4		5		9	5
21	20Q65A0314	5		4		8	5
22	20Q65A0315	4		4		10	5
23	20Q65A0316	4		5		9	5
24	20Q65A0317	5		4		10	5
25	20Q65A0318	5		3		10	5
26	20Q65A0319	4		2		10	5
27	20Q65A0320	4		4		8	5
28	20Q65A0321	4		5		10	5
29	20Q65A0323		5	4		9	5
No. of students attempted		27	14	14	3	29	29
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		26	14	13	2	29	29

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% of Students > 50%	96.3	100	92.86	66.67	100	100
Attainment Level	3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	Total Quality Management	Year/Semester:	IV-II

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	19Q61A0302	31
2	19Q61A0303	33
3	19Q61A0304	27
4	19Q61A0305	26
5	19Q61A0306	29
6	19Q61A0307	29
7	19Q61A0308	34
8	19Q61A0309	33
9	20Q65A0301	27
10	20Q65A0302	35
11	20Q65A0303	39
12	20Q65A0304	33
13	20Q65A0305	36
14	20Q65A0306	29
15	20Q65A0307	27
16	20Q65A0308	29
17	20Q65A0310	10
18	20Q65A0311	35
19	20Q65A0312	27
20	20Q65A0313	46
21	20Q65A0314	48
22	20Q65A0315	45
23	20Q65A0316	43
24	20Q65A0317	56
25	20Q65A0318	40
26	20Q65A0319	14
27	20Q65A0320	45
28	20Q65A0321	40
29	20Q65A0323	28

No. of students who attempted the subject	29
Max. Marks	75
No. of students secured > 26 marks	25
Percentage of students secured > 26 marks	86.2
Overall External Attainment level	3

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Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Overall Course Outcome Attainment			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	Total Quality Management	Semester:	IV-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

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COURSE OUTCOMES

CO1	Discuss quality and various contributors Quality
CO2	Apply in-depth various QC tools
CO3	Explain frameworks of Global Quality Awards.
CO4	Discuss Strategic Quality management and its components.
CO5	Apply Statistical Quality Control like process capability, Six Sigma quality, Process control.

CO-PO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	3	2	3	1	2	-		-		2	3	
CO2	3	3	3	3	2	-	2	-		2			3	3
CO3	3	3	3	3	3	3	3	-		2		2	3	3
CO4	3	2	3	2	3	1	1	-		-		2	3	3
CO5	3	3	2	2	3	3	3			2		2	3	3
COs Average	3	2.6	2.8	2.4	2.8	2	2.2	-		2		2	3	3

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:				Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - I	
Course/Sub:		Additive Manufacturing		Year/Semister:		IV-I	
		CO1	CO2	CO2	CO3		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	17Q61A0301	1	4			5	5
2	18N81A0306	2	1			2	5
3	19Q61A0302	5	1			7	5
4	19Q61A0303	5	3			7	5
5	19Q61A0304	2	4			6	5
6	19Q61A0306	3	3			6	5
7	19Q61A0307	3	3			7	5
8	19Q61A0308	3	5			9	5
9	19Q61A0309	3		4		5	5
10	20Q65A0301	3	3			7	5
11	20Q65A0302	3	4			7	5
12	20Q65A0303	5	2			10	5
13	20Q65A0304	5	3			9	5
14	20Q65A0305	5			4	8	5
15	20Q65A0306	5			3	8	5
16	20Q65A0307			3	3	7	5
17	20Q65A0308	4		4		8	5
18	20Q65A0310	4		3		7	5
19	20Q65A0311	4		3		7	5
20	20Q65A0312	5		3		5	5
21	20Q65A0313	5		3		9	5
22	20Q65A0314	4		3		5	5
23	20Q65A0315	3		3		7	5
24	20Q65A0316	5		3		6	5
25	20Q65A0317	5		4		8	5
26	20Q65A0318	5		1		8	5
27	20Q65A0319	3		4		6	5
28	20Q65A0320		3	5		5	5
29	20Q65A0321		5	3		9	5
30	20Q65A0323		1	4		8	5
No. of students attempted		26	15	14	5	30	30
Max Marks Question wise		5	5	5	5	10	5


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Target 50%	2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%	23	11	13	5	29	30
% of Students > 50%	88.47	73.34	92.86	100	96.67	100
Attainment Level	2	2	3	2	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:				Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - II	
Course/Sub:		Additive Manufacturing		Year/Semester:		IV-I	
		CO3	CO4	CO4	CO5		
Sl.No	Roll Number	Question No:				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	17Q61A0301	2	2			10	5
2	18N81A0306	1	1			10	5
3	19Q61A0302	3	2			10	5
4	19Q61A0303	5	2			9	5
5	19Q61A0304	4	1			10	5
6	19Q61A0306	2	3			9	5
7	19Q61A0307	4	1			9	5
8	19Q61A0308	4	4			8	5
9	19Q61A0309	5	1			9	5
10	20Q65A0301	3		2		9	5
11	20Q65A0302	4	4			4	5
12	20Q65A0303	4	4			8	5
13	20Q65A0304	5	4			10	5
14	20Q65A0305	5	3			10	5
15	20Q65A0306	3			3	10	5
16	20Q65A0307	3			3	10	5
17	20Q65A0308			4	3	4	5
18	20Q65A0310	4		3		9	5
19	20Q65A0311	4		3		10	5
20	20Q65A0312	2		3		10	5
21	20Q65A0313	5		4		10	5
22	20Q65A0314	3		3		9	5
23	20Q65A0315	2		3		10	5
24	20Q65A0316	4		2		10	5
25	20Q65A0317	5		3		10	5
26	20Q65A0318	5		3		10	5
27	20Q65A0319	2		4		10	5
28	20Q65A0320	2		5		10	5
29	20Q65A0321		5	3		10	5
30	20Q65A0323		5		1	9	5
No. of students attempted		27	15	14	4	30	30
Max Marks Question wise		5	5	5	5	10	5


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Target 50%	2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%	20	8	12	3	30	30
% of Students > 50%	74.08	53.34	85.72	75	100	100
Attainment Level	3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3



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www.aietg.ac.in email: principal_avanthi@gmail.com

Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2020-21
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	Additive Manufacturing	Year/Semester:	IV-I

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	17Q61A0301	32
2	18N81A0306	-1
3	19Q61A0302	42
4	19Q61A0303	44
5	19Q61A0304	29
6	19Q61A0306	39
7	19Q61A0307	39
8	19Q61A0308	37
9	19Q61A0309	34
10	20Q65A0301	35
11	20Q65A0302	36
12	20Q65A0303	53
13	20Q65A0304	32
14	20Q65A0305	48
15	20Q65A0306	33
16	20Q65A0307	38
17	20Q65A0308	35
18	20Q65A0310	38
19	20Q65A0311	35
20	20Q65A0312	40
21	20Q65A0313	49
22	20Q65A0314	43
23	20Q65A0315	49
24	20Q65A0316	32
25	20Q65A0317	53
26	20Q65A0318	28
27	20Q65A0319	26
28	20Q65A0320	29
29	20Q65A0321	50
30	20Q65A0323	-1

No. of students who attempted the subject	30
Max. Marks	75
No. of students secured > 26 marks	24
Percentage of students secured > 26 marks	80.0
Overall External Attainment level	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

[Signature]
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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2020-21
Branch & Section:	MECH	Exam:	
Course:	Additive Manufacturing	Semester:	IV-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

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COURSE OUTCOMES

CO1	Understand the concept of Rankine cycle and Demonstrate appropriate level of understanding on principles of additive manufacturing processes
CO2	Understand working of boilers including water tube, fire tube and high-pressure boilers and determine efficiencies.
CO3	Apply suitable CAD tools and CAD interface for additive manufacturing process
CO4	Analyze the flow of steam through nozzles

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	2	2								2	2	
CO2	2	2	2	2			3					2	2	
CO3	2	3	2	2	3							2	2	
CO4	2	3	3	2		2	2					2	2	
CO avg(M)	2	2.25	2.25	2	3	2	2.5					2	2	

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - I	
Course/Sub:		Refrigeration & Air Conditioning		Year/Semester:		IV-I	
Sl.No	Roll Number	Question No.				Objective	Assignment
		CO1	C02	C02	C03		
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	17Q61A0301	2	3			4	5
2	18N81A0306	2	1			2	5
3	19Q61A0302	3	3			5	5
4	19Q61A0303	5	4			8	5
5	19Q61A0304	5	4			9	5
6	19Q61A0306	3	3			6	5
7	19Q61A0307	4	2			9	5
8	19Q61A0308	5	5			10	5
9	19Q61A0309	5		2		8	5
10	20Q65A0301	5	2			9	5
11	20Q65A0302	5	3			10	5
12	20Q65A0303	5	5			10	5
13	20Q65A0304	5	4			10	5
14	20Q65A0305	5			5	10	5
15	20Q65A0306	5			5	10	5
16	20Q65A0307			2	4	7	5
17	20Q65A0308	5		5		10	5
18	20Q65A0310	2		4		7	5
19	20Q65A0311	3		4		7	5
20	20Q65A0312	2		3		4	5
21	20Q65A0313	5		5		9	5
22	20Q65A0314	1		3		8	7
23	20Q65A0315	5		2		7	5
24	20Q65A0316	5		2		9	5
25	20Q65A0317	5		5		10	5
26	20Q65A0318	3		5		10	5
27	20Q65A0319	3		4		8	5
28	20Q65A0320		2	3		9	5
29	20Q65A0321		4	5		10	5
30	20Q65A0323			3		8	5
No. of students attempted		26	14	15	5	30	30
Max Marks Question wise		5	5	5	5	10	5

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Target 50%	2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%	21	10	11	5	29	30
% of Students > 50%	80.77	71.43	73.34	100	96.67	100
Attainment Level	3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:				Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - II	
Course/Sub:		Refrigeration & Air Conditioning		Year/Semester:		IV-I	
Sl.No	Roll Number	CO3	C04	C04	C05	Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	17Q61A0301	2	2			5	5
2	18N81A0306	1	1			3	5
3	19Q61A0302	1	4			6	5
4	19Q61A0303	3	5			9	5
5	19Q61A0304	4	4			10	5
6	19Q61A0306	2	3			7	5
7	19Q61A0307	4	4			8	5
8	19Q61A0308	5	5			10	5
9	19Q61A0309	5	4			6	5
10	20Q65A0301	5		3		8	5
11	20Q65A0302	5	4			9	5
12	20Q65A0303	5	5			10	5
13	20Q65A0304	5	5			9	5
14	20Q65A0305	5	5			10	5
15	20Q65A0306	5			5	10	5
16	20Q65A0307	5			1	7	5
17	20Q65A0308			5	5	10	5
18	20Q65A0310	4		2		7	5
19	20Q65A0311	4		1		9	5
20	20Q65A0312	2		2		5	5
21	20Q65A0313	5		4		10	5
22	20Q65A0314	4		2		5	5
23	20Q65A0315	5		4		5	5
24	20Q65A0316	5		3		8	5
25	20Q65A0317	5		5		10	5
26	20Q65A0318	4		5		9	5
27	20Q65A0319	4		4		7	5
28	20Q65A0320	4		4		6	5
29	20Q65A0321	5		5		8	5
30	20Q65A0323		3		3	9	5
No. of students attempted		28	14	14	4	30	30
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5

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No. of Students above 50%	23	12	10	3	30	30
% of Students > 50%	82.15	85.72	71.43	75	100	100
Attainment Level	3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2020-21
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	Refrigeration & Air Conditioning	Year/Semester:	IV-II

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	19Q61A0302	-1
2	19Q61A0303	-1
3	19Q61A0304	26
4	19Q61A0305	29
5	19Q61A0306	26
6	19Q61A0307	29
7	19Q61A0308	32
8	19Q61A0309	30
9	20Q65A0301	27
10	20Q65A0302	28
11	20Q65A0303	27
12	20Q65A0304	29
13	20Q65A0305	29
14	20Q65A0306	32
15	20Q65A0307	16
16	20Q65A0308	32
17	20Q65A0310	31
18	20Q65A0311	29
19	20Q65A0312	32
20	20Q65A0313	28
21	20Q65A0314	33
22	20Q65A0315	32
23	20Q65A0316	49
24	20Q65A0317	44
25	20Q65A0318	63
26	20Q65A0319	47
27	20Q65A0320	26
28	20Q65A0321	36
29	20Q65A0323	57

No. of students who attempted the subject	27
Max. Marks	75
No. of students secured > 26 marks	18
Percentage of students secured > 26 marks	66.7
Overall External Attainment level	2

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Overall Course Outcome Attainment			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	Refrigeration & Air Conditioning	Semester:	IV-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam (Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	2	2.25
Course outcome - 2	3	-	3	2	2.25
Course outcome - 3	3	3	3	2	2.25
Course outcome - 4	-	3	3	2	2.25
Course outcome - 5	-	3	3	2	2.25
Average			3	2	2.25

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COURSE OUTCOMES

CO1	Be able to Differentiate between different types of refrigeration systems with respect to application as well as conventional and unconventional refrigeration systems.
CO2	Thermodynamically analyze refrigeration and air conditioning systems and evaluate performance parameters.
CO3	Apply the principles of Psychometrics to design the air conditioning loads for the industrial applications.

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3			2	3						2	
CO2	3	3	3			2	3							
CO3	3	3	3			2	3							2
CO avg(M)	3	3	3			2	3						2	2

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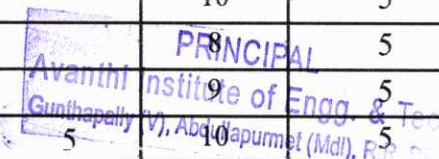
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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:				Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - I	
Course/Sub:		Power Plant Engineering		Year/Semister:		IV-II	
		CO1	CO2	CO2	CO3		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	17Q61A0301	4	3			4	5
2	18N81A0306	2	1			2	5
3	19Q61A0302	3	3			5	5
4	19Q61A0303	5	4			8	5
5	19Q61A0304	5	4			9	5
6	19Q61A0306	3	3			6	5
7	19Q61A0307	4	2			9	5
8	19Q61A0308	5	5			10	5
9	19Q61A0309	5		2		8	5
10	20Q65A0301	5	2			9	5
11	20Q65A0302	5	3			10	5
12	20Q65A0303	5	5			10	5
13	20Q65A0304	5	4			10	5
14	20Q65A0305	5			5	10	5
15	20Q65A0306	5			5	10	5
16	20Q65A0307			2	4	7	5
17	20Q65A0308	5		5		10	5
18	20Q65A0310	2		4		7	5
19	20Q65A0311	3		4		7	5
20	20Q65A0312	2		3		4	5
21	20Q65A0313	5		5		9	5
22	20Q65A0314	1		3		8	7
23	20Q65A0315	5		2		7	5
24	20Q65A0316	5		2		9	5
25	20Q65A0317	5		5		10	5
26	20Q65A0318	3		5		10	5
27	20Q65A0319	3		4		8	5
28	20Q65A0320		2	3		9	5
29	20Q65A0321		4			10	5
30	20Q65A0323			3	4	8	5
No. of students attempted		26	14	14	4	29	29
Max Marks Question wise		5	5	5	5	10	5



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Target 50%	2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%	22	10	10	4	28	29
% of Students > 50%	84.62	71.43	71.43	100	96.56	100
Attainment Level	3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:				Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - II	
Course/Sub:		Power Plant Engineering		Year/Semister:		IV-II	
		CO3	CO4	CO4	CO5		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	17Q61A0301	3	3			5	5
2	18N81A0306	3	3			3	5
3	19Q61A0302	3	4			6	5
4	19Q61A0303	3	5			9	5
5	19Q61A0304	4	4			10	5
6	19Q61A0306	5	3			7	5
7	19Q61A0307	4	4			8	5
8	19Q61A0308	5	4			10	5
9	19Q61A0309	5	4			6	5
10	20Q65A0301	5		3		8	5
11	20Q65A0302	5	4			9	5
12	20Q65A0303	5	5			10	5
13	20Q65A0304	5	5			9	5
14	20Q65A0305	5	5			10	5
15	20Q65A0306	5			5	10	5
16	20Q65A0307	5			1	7	5
17	20Q65A0308			5	5	10	5
18	20Q65A0310	4		2		7	5
19	20Q65A0311	4		3		9	5
20	20Q65A0312	2		2		5	5
21	20Q65A0313	5		4		10	5
22	20Q65A0314	4		2		5	5
23	20Q65A0315	5		4		5	5
24	20Q65A0316	5		3		8	5
25	20Q65A0317	5		5		10	5
26	20Q65A0318	4		5		9	5
27	20Q65A0319	4		4		7	5
28	20Q65A0320	4		4		7	5
29	20Q65A0321	5		5		9	5
30	20Q65A0323		3		3	9	5
No. of students attempted		28	14	14	4	30	30
Max Marks Question wise		5	5	5	5	10	5

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Target 50%	2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%	27	14	11	3	30	30
% of Students > 50%	96.43	100	78.58	75	100	100
Attainment Level	3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	Power Plant Engineering	Year/Semester:	IV-II

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	19Q61A0302	26
2	19Q61A0303	29
3	19Q61A0304	32
4	19Q61A0305	31
5	19Q61A0306	32
6	19Q61A0307	33
7	19Q61A0308	10
8	19Q61A0309	30
9	20Q65A0301	39
10	20Q65A0302	32
11	20Q65A0303	32
12	20Q65A0304	29
13	20Q65A0305	33
14	20Q65A0306	17
15	20Q65A0307	16
16	20Q65A0308	33
17	20Q65A0310	19
18	20Q65A0311	32
19	20Q65A0312	32
20	20Q65A0313	33
21	20Q65A0314	33
22	20Q65A0315	40
23	20Q65A0316	49
24	20Q65A0317	44
25	20Q65A0318	63
26	20Q65A0319	47
27	20Q65A0320	33
28	20Q65A0321	36
29	20Q65A0323	57

No. of students who attempted the subject	29
Max. Marks	75
No. of students secured > 26 marks	24
Percentage of students secured > 26 marks	82.8
Overall External Attainment level	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3

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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	Power Plant Engineering	Semister:	IV-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Course outcome - 5	-	3	3	3	3
Average			3	3	3

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COURSE OUTCOMES

CO1	Able to Differentiate between different types of refrigeration systems & their application as well as conventional and unconventional refrigeration systems.
CO2	Thermodynamically analyze refrigeration and air conditioning systems and evaluate performance parameters.
CO3	Apply the principles of Psychometrics to design the air conditioning loads for the industrial applications.

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	2	3		2						2	2	2
CO2	2	1	3	2		2						2	2	2
CO3	2	2	2	2		2						2	2	2
CO avg(M)	2	2	2.3	2.3		2						2	2	2

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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:				Academic Year:		2022-23	
Branch & Section:		MECH		Exam:		MID - I	
Course/Sub:		Turbo Machinery		Year/Semester:		IV-I	
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		1	2	3	4		
Maximum Marks		5	5	5	5	10	5
1	17Q61A0301	2	3			5	5
2	18N81A0306	2	1			2	5
3	19Q61A0302	1	3			5	5
4	19Q61A0303	4	4			7	5
5	19Q61A0304	4	4			7	5
6	19Q61A0306	3	3			6	5
7	19Q61A0307	5	2			6	5
8	19Q61A0308	5	5			9	5
9	19Q61A0309	5		2		8	5
10	20Q65A0301	5	3			7	5
11	20Q65A0302	4	3			7	5
12	20Q65A0303	2	5			10	5
13	20Q65A0304	3	4			8	5
14	20Q65A0305	3			3	9	5
15	20Q65A0306	5			2	9	5
16	20Q65A0307			3	4	7	5
17	20Q65A0308	3		4		8	5
18	20Q65A0310	3		3		6	5
19	20Q65A0311	3		3		7	5
20	20Q65A0312	3		3		5	5
21	20Q65A0313	5		2		9	5
22	20Q65A0314	2		3		5	5
23	20Q65A0315	5		2		8	5
24	20Q65A0316	3		2		5	5
25	20Q65A0317	3		5		9	5
26	20Q65A0318	3		2		9	5
27	20Q65A0319	3		3		7	5
28	20Q65A0320		3	3		9	5
29	20Q65A0321		4		4	7	5
30	20Q65A0323			5	5	4	5
No. of students attempted		26	14	15	5	30	30
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5


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No. of Students above 50%	21	12	10	4	29	30
% of Students > 50%	80.77	85.72	66.67	80	96.67	100
Attainment Level	3	3	3	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Department:		MECHANICAL ENGINEERING					
Course Outcome Attainment - Internal Assessments							
Name of the Faculty:		MECH		Academic Year:		2022-23	
Branch & Section:		Turbo Machinery		Exam:		MID - II	
Course/Sub:		CO3		CO4		IV-I	
		C03		C04		C05	
Sl.No	Roll Number	QUESTION NO				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	17Q61A0301	2	2			6	5
2	18N81A0306	3	3			3	5
3	19Q61A0302	3	4			4	5
4	19Q61A0303	3	5			8	5
5	19Q61A0304	4	4			7	5
6	19Q61A0306	2	3			7	5
7	19Q61A0307	2	4			7	5
8	19Q61A0308	4	4			8	5
9	19Q61A0309	5	4			6	5
10	20Q65A0301	3		3		9	5
11	20Q65A0302	4	4			6	5
12	20Q65A0303	4	4			9	5
13	20Q65A0304	5	4			7	5
14	20Q65A0305	5	3			7	5
15	20Q65A0306	5			3	8	5
16	20Q65A0307	5			3	8	5
17	20Q65A0308			5	3	7	5
18	20Q65A0310	4		2		8	5
19	20Q65A0311	4		2		7	5
20	20Q65A0312	2		3		5	5
21	20Q65A0313	5		3		8	5
22	20Q65A0314	1		1		5	5
23	20Q65A0315	5		2		8	5
24	20Q65A0316	2		3		7	5
25	20Q65A0317	3		5		9	5
26	20Q65A0318	2		5		7	5
27	20Q65A0319	4		2		7	5
28	20Q65A0320	4		3		8	5
29	20Q65A0321	5		2		8	5
30	20Q65A0323		2			5	5
No. of students attempted		28	14			30	30
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		21	12	8	3	30	30

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% of Students > 50%	75	85.72	57.15	75	100	100
Attainment Level	3	3	2	3	3	3

Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Department:	MECHANICAL ENGINEERING		
Course Outcome Attainment External Examination			
Name of the Faculty:		Academic Year:	2020-21
Branch & Section:	MECH	Exam:	EXTERNAL
Course:	Turbo Machinery	Year/Semester:	IV-I

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	17Q61A0301	32
2	18N81A0306	-1
3	19Q61A0302	26
4	19Q61A0303	29
5	19Q61A0304	29
6	19Q61A0306	26
7	19Q61A0307	29
8	19Q61A0308	38
9	19Q61A0309	32
10	20Q65A0301	26
11	20Q65A0302	29
12	20Q65A0303	36
13	20Q65A0304	37
14	20Q65A0305	35
15	20Q65A0306	29
16	20Q65A0307	30
17	20Q65A0308	26
18	20Q65A0310	-1
19	20Q65A0311	30
20	20Q65A0312	31
21	20Q65A0313	26
22	20Q65A0314	31
23	20Q65A0315	26
24	20Q65A0316	26
25	20Q65A0317	41
26	20Q65A0318	32
27	20Q65A0319	29
28	20Q65A0320	28
29	20Q65A0321	26
30	20Q65A0323	-1
No. of students who attempted the subject		27
Max. Marks		75
No. of students secured > 26 marks		17
Percentage of students secured > 26 marks		63.0
Overall External Attainment level		2

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Attainment table	
50-60%	1
60-70%	2
70-80%	3



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Overall Course Outcome Attainment

Name of the Faculty:		Academic Year:	2022-23
Branch & Section:	MECH	Exam:	
Course:	Turbo Machinery	Semester:	IV-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	2	2.25
Course outcome - 2	3	-	3	2	2.25
Course outcome - 3	3	3	3	2	2.25
Course outcome - 4	-	3	3	2	2.25
Course outcome - 5	-	3	3	2	2.25
Average			3	2	2.25

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COURSE OUTCOMES

Faculty: ,Assistant Professor,		SUB: TM			SEM: IV-I			Dept. of MECH						
Course Outcomes														
CO1	Compare the features and working of various turbomachines													
CO2	Apply the concepts of energy transformation in turbo machines													
CO3	Analyse the performance of Hydraulic pumps and turbines													
CO4	Perform the preliminary design of hydraulic turbines													
CO5	Analyze the stage performance of compressors													
CO-PO Mapping														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2										2	
CO2	3	3	3										2	
CO3	3	3	2										2	
CO4	3	3	2										2	
CO5	3	3	3										2	
CO avg(M)	3	3	2.3										2	

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