

Course Name Project
Course Code RME-852
Batch 2017-2021
Semester 8
Session 2020-2021
L:T:P 0.0.12

Number of Students 61

Sheet S1: Define Course Outcomes (COs) using Revised Bloom's Taxonomy
Set Targets for CO Attainment
Mention Program Outcomes (given by NBA)
Mention Program Specific Outcomes(PSO's) of Computer Science and Engineering

Sheet S2: Mapping of COs with POs (CO-PO Correlation Matrix)
Mapping of COs with PSOs (CO-PSO Correlation Matrix)
Assessment Plan And Assessment Instruments/Tools

Sheet S3: CO Attainment using Continuous Internal Evaluation (CIE)

Sheet S4: CO Attainment using Semester End Examination (SEE)

Sheet S5: CO Attainment and Analysis

Sheet S6: PO Attainment and PSO Attainment

Sheet S7: CO Attainment Gap and Closure of Quality Loop


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Course Outcomes(CO's)

At the end of course, Students will be able to :

Course Code	CO	Course Outcomes(COs)	Cognitive Levels
RME-852	CO1	RME-852.1 Select/Identify suitable project work for which industry/community is waiting for solution. This will help the students in securing employment or starting their own enterprises.	Understand
	CO2	RME-852.2 Divide entire project into sub tasks, to be carried out for completing the project and allocating the responsibilities towards its completion. The group may also select a team leader and everybody in the group should work under the direction of the team leader.	Analyze
	CO3	RME-852.3 Prepare the software requirement specification (SRS) of the project that describes the analysis and design of the project based on the requirements.	Understand
	CO4	RME-852.4 Measure/test the performance of the undergoing project in different conditions with the help of different parameters.	Analyze
	CO5	RME-852.5 Prepare a report/poster/presentation/research paper about the project work undertaken by the student groups.	Evaluate

Targets for CO Attainments

Level	Marks
3	≥ 80%
2	≥ 60% and < 80%
1	< 60%

Aim is to attain level 3

Course Code	CO	% of students getting marks ≥ 60%
RME-852	CO1 RME-852.1	80
	CO2 RME-852.2	80
	CO3 RME-852.3	80
	CO4 RME-852.4	80
	CO5 RME-852.5	80


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Program Outcomes (PO's)

Engineering Graduates will be able to :

PO1	Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSO's)

After completing their graduation, students of Mechanical Engineering will be able to do :

PSO1	Identify and solve problems of thermal engineering, strength of materials, fluid mechanics, refrigeration & air conditioning, Design, dynamics of machines, mathematics and engineering science.
PSO2	Get fundamental knowledge and hand-on experience of different manufacturing processes, material testing techniques and CAD/CAM tooling to apply in various industries
PSO3	Learn quality and industrial management concepts, communication and soft skills along with other interdisciplinary subjects such as programming language, electrical engineering and basic electronics to enhance their employability

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CO-PO Mapping

Course Code	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
RME-852	CO1	RME-852.1	3	3			2	2	2	3		2	3
	CO2	RME-852.2	2	2			1			3	2	2	2
	CO3	RME-852.3	2	2	3	2	1	2	2	3	2	3	2
	CO4	RME-852.4	3	3	3	3	3	3	3	3	3	3	3
	CO5	RME-852.5	3	3	3	3	3	3	3	3	3	3	3
Mapping Strength		RME-852	2.6	2.6	3.0	2.7	2.3	2.2	2.5	2.5	3.0	2.5	2.6

CO-PSO Mapping

Course Code	CO	PSO1	PSO2	PSO3
RME-852	CO1	RME-852.1	3	3
	CO2	RME-852.2	3	3
	CO3	RME-852.3	3	3
	CO4	RME-852.4	3	3
	CO5	RME-852.5	3	3
Mapping Strength		RME-852	3	3

Direct Assessment using Continuous Internal Evaluation (CIE)

	Phase 1			
	CO3	CO4	CO5	CO5
Rubrics	Refine the Requirements to Incorporate Suggestions (05)	Objectives Meet/ Results as per the Expected time plan	Present-ation as team and as an Individual	Questions and Answer
Max Marks	15	15	15	15

Phase 2				
CO5	CO4	CO5	CO5	CO5
Final Report	Final Demonstration	Present-ation as team and as an Individual	Questions and Answer	Research Paper Writing Based on Project
15	15	25	20	15

Project Supervisor				
CO4	CO5	CO2	CO2	CO5
Assessed Project Progress	Develop-ment of Prototype/ Model upto satisfaction level	Individual Contri-bution	Sincerity towards Work as Team	Project Report/Demo Preparation as per guidelines
20	20	20	20	20

Direct Assessment using Semester End Examination (SEE)

	SEE
Marks	200
CO1	Y
CO2	Y
CO3	Y
CO4	Y
CO5	Y


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CO Attainment using Continuous Internal Evaluation (CIE)

					Phase 1				Phase 2					Project Supervisor					TOTAL
					CO3	CO4	CO5	CO5	CO5	CO4	CO5	CO5	CO5	CO4	CO5	CO2	CO2	CO5	
Rubrics					Refine the Requirements to Incorporate Suggestions (05)	Objectives Meet/ Results as per the Expected time plan	Presentation as team and as an Individual	Questions and Answer	Final Report	Final Demonstration	Presentation as team and as an Individual	Questions and Answer	Research Paper Writing Based on Project	Assessed Project Progress	Development of Prototype/ Model upto satisfaction level	Individual Contribution	Sincerity towards Work as Team	Project Report/ Demo Preparation as per guidelines	
S.No.	Project Group	Univ. Roll No.	Name	Max Marks	15	15	15	15	15	15	25	20	15	20	20	20	20	20	250
1	G1	1708240003	Abhinav Gupta		15	15	15	15	15	15	24	19	14	19	19	20	20	20	245
2		1708240022	Ayush Kumar		15	15	15	15	15	15	25	20	12	14	17	18	14	15	225
3		1708240026	Lalit Kumar		12	12	12	12	13	12	18	18	14	19	20	19	20	19	220
4		1708240046	Sambhav Sharma		15	14	14	13	13	13	25	18	12	20	19	18	20	19	233
5	G2	1708240005	Abhishek Chandra		15	15	15	15	15	15	20	19	14	20	20	19	19	19	240
6		1708240050	Shivam Kumar		15	15	15	15	15	15	19	18	13	15	12	14	12	15	208
7		1708240001	Atif Khan		15	15	15	15	15	15	25	18	12	14	15	10	12	14	210
8		1708240044	Ritik Chandra		14	14	14	14	14	14	20	18	8	18	18	18	18	18	220
9	G3	1708240042	Rashi		15	15	15	15	15	15	25	20	12	20	20	19	20	19	245
10		1708240045	Rohan Sharma		15	15	15	15	15	15	20	20	15	20	20	20	20	20	245
11		1708240047	Sandeep Sharma		15	15	15	15	15	15	25	20	12	16	16	15	12	14	220
12		1708240048	Sarthak Dixit		15	15	15	15	15	15	23	18	9	15	16	13	15	16	215
13	G4	1708240043	Rishabh Goel		15	15	15	15	15	14	25	20	14	20	20	19	19	19	245
14		1708240033	Mohd. Amaan Khan		15	15	15	15	15	15	24	19	14	19	20	19	19	20	245
15		1708240058	Tushar Gupta		15	15	15	15	15	14	15	23	18	12	19	19	16	18	230
16		1708240012	Anas beig		12	12	10	12	12	12	16	18	9	12	15	14	15	16	185
17	G5	1708240051	Siddhant Sharma		15	15	15	15	15	15	25	19	14	19	19	18	18	18	240
18		1708240007	Aishvarya Krishn		15	15	15	15	15	15	25	20	12	15	16	16	15	16	225
19		1708240004	Abhinav Kumar		15	15	15	15	15	15	20	18	10	17	17	15	16	17	220
20		1808240901	Gaurav Rathore		15	15	15	15	15	15	22	19	9	18	18	18	15	16	225
21	G6	1608240004	Aakash Gautam		11	10	15	10	10	12	16	12	9	14	15	16	14	14	180
22		1708240039	Prashant Chaudhary		15	15	15	15	15	15	24	19	15	20	20	19	19	19	245
23		1708240036	Nitin Tomar		15	15	15	15	15	15	25	20	12	20	15	15	15	16	228
24		1708240059	Vivek Gupta		15	15	15	15	15	15	23	19	11	19	19	19	19	19	238
25	G7	1708240060	Vivek Kumar		15	15	15	15	15	15	25	20	14	20	19	16	16	20	240
26		1708240025	Kshitiz Shivam		15	15	15	15	15	15	24	20	13	20	20	19	19	20	245
27		1708240008	Akshat Dabas		14	15	15	14	15	15	20	20	14	20	20	19	19	20	240
28		1708240006	Aditya Sharma		15	15	15	15	15	15	25	20	12	19	18	19	18	19	240
29		1708240040	Prateek Kumar		15	14	15	15	15	15	23	18	10	18	18	19	16	20	230
30		1708240041	Rajveer Saini		14	14	14	14	14	14	18	18	10	17	16	17	17	15	210

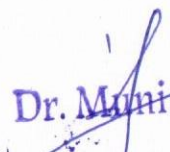
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31		1708240014	Anuj	14	13	13	13
32	G8	1708240031	Mohd. Salman	15	15	15	15
33		1708240035	Mohd. Samad Khan	14	14	14	15
34		1708240028	Manjeet Singh	15	14	15	15
35		1708240062	Zaeemul Sajjad	15	15	15	15
36	G9	1708240032	Mohd. Zaki	15	15	15	15
37		1708240054	Sourabh Kumar	15	15	14	14
38		1708240019	Ashutosh Bhardwaj	15	15	15	15
39		1708240021	Ayush Kumar	15	15	15	15
40	G10	1708240052	Siddhartha Raja	15	14	14	15
41		1708240015	Anurag Joshi	15	15	15	15
42		1708240049	Shashi Prakash	14	14	14	14
43		1808240902	Shubham Shukla	15	15	15	15
44	G11	1708240053	Siraj Ahmad	12	10	10	12
45		1708240016	Anurag Vashishth	15	15	14	15
46		1708240002	Abdul Kabir	15	15	15	15
47		1708240055	Subhash Chandra Pandey	15	15	15	15
48	G12	1708240017	Aryan Kumar	15	15	15	15
49		1708240013	Ankit Kumar Gangwar	15	15	14	15
50		1708240027	Lucky Kumar	15	15	15	15
51		1608240066	Rajat Saini	15	15	14	12
52	G13	1708240018	Asheesh Kumar	15	15	15	15
53		1608240067	Rajnish Chauhan	15	15	15	12
54		1708240030	Mohd. Aqib	15	15	15	15
55		1708240037	Nitish Pandey	15	15	15	15
56	G14	1708240038	Oskar Pourya	15	15	15	15
57		1708240023	Himanshu Yadav	15	14	15	15
58		1708240011	Ambesh Kumar Pal	14	14	15	14
59		1708240061	Yogendra Pal Singh	15	15	15	15
60		1708240010	Aman Agarwal	15	15	15	15
61		1708240020	Ashutosh Kumar	15	15	15	15

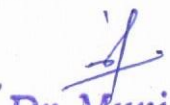
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14	15	24	20	14
15	15	25	20	12
15	15	25	20	12
15	15	25	19	9

14	15	15	12	14	180
20	18	20	19	19	245
18	19	19	19	19	228
14	16	15	16	16	205
14	15	14	14	18	205
18	18	19	19	19	240
18	20	20	20	19	240
15	19	19	19	15	230
19	18	16	14	16	230
20	20	18	20	20	245
17	16	17	16	18	230
20	19	19	20	19	240
17	16	16	15	16	220
15	14	16	12	15	185
20	20	20	20	19	245
20	20	19	20	20	247
19	19	18	19	19	235
15	13	14	14	15	210
20	20	20	18	20	245
19	20	19	20	19	243
12	13	12	12	12	185
12	12	10	12	14	190
10	12	10	15	14	185
20	20	20	18	19	243
18	18	19	19	19	240
20	20	20	20	19	243
20	19	20	19	19	240
19	20	19	20	18	240
18	19	14	15	12	225
18	14	14	15	12	220
18	18	17	16	18	230

Course Code	CO	CO Attained (% of students getting $\geq 80\%$ marks)	CO Attained (On Scale of 3)
RME-852	CO1		
	CO2	65.57	1.97
	CO3	98.36	2.95
	CO4	88.52	2.66
	CO5	88.52	2.66


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C02					C03					C04					C05				
Total Marks Obtained	Total Marks	>=80 %	Level (3,2,1)	Y/N	Total Marks Obtained	Total Marks	>=80 %	Level (3,2,1)	Y/N	Total Marks Obtained	Total Marks	>=80 %	Level (3,2,1)	Y/N	Total Marks Obtained	Total Marks	>=80 %	Level (3,2,1)	Y/N
40	40	100	3	Y	15	15	100	3	Y	49	50	98	3	Y	141	145	97.24	3	Y
32	40	80	3	Y	15	15	100	3	Y	44	50	88	3	Y	134	145	92.41	3	Y
39	40	97.5	3	Y	12	15	80	3	Y	43	50	86	3	Y	126	145	86.9	3	Y
38	40	95	3	Y	15	15	100	3	Y	47	50	94	3	Y	133	145	91.72	3	Y
38	40	95	3	Y	15	15	100	3	Y	50	50	100	3	Y	137	145	94.48	3	Y
26	40	65	2	N	15	15	100	3	Y	45	50	90	3	Y	122	145	84.14	3	Y
22	40	55	1	N	15	15	100	3	Y	44	50	88	3	Y	129	145	88.97	3	Y
36	40	90	3	Y	14	15	93.33	3	Y	46	50	92	3	Y	124	145	85.52	3	Y
39	40	97.5	3	Y	15	15	100	3	Y	50	50	100	3	Y	141	145	97.24	3	Y
40	40	100	3	Y	15	15	100	3	Y	50	50	100	3	Y	140	145	96.55	3	Y
27	40	67.5	2	N	15	15	100	3	Y	46	50	92	3	Y	132	145	91.03	3	Y
28	40	70	2	N	15	15	100	3	Y	45	50	90	3	Y	127	145	87.59	3	Y
38	40	95	3	Y	15	15	100	3	Y	50	50	100	3	Y	142	145	97.93	3	Y
38	40	95	3	Y	15	15	100	3	Y	50	50	100	3	Y	142	145	97.93	3	Y
34	40	85	3	Y	15	15	100	3	Y	49	50	98	3	Y	132	145	91.03	3	Y
29	40	72.5	2	N	12	15	80	3	Y	36	50	72	2	N	108	145	74.48	2	N
36	40	90	3	Y	15	15	100	3	Y	49	50	98	3	Y	140	145	96.55	3	Y
31	40	77.5	2	N	15	15	100	3	Y	45	50	90	3	Y	134	145	92.41	3	Y
31	40	77.5	2	N	15	15	100	3	Y	47	50	94	3	Y	127	145	87.59	3	Y
33	40	82.5	3	Y	15	15	100	3	Y	48	50	96	3	Y	129	145	88.97	3	Y
30	40	75	2	N	11	15	73.33	2	N	36	50	72	2	N	103	145	71.03	2	N
38	40	95	3	Y	15	15	100	3	Y	50	50	100	3	Y	142	145	97.93	3	Y
30	40	75	2	N	15	15	100	3	Y	50	50	100	3	Y	133	145	91.72	3	Y
38	40	95	3	Y	15	15	100	3	Y	49	50	98	3	Y	136	145	93.79	3	Y
32	40	80	3	Y	15	15	100	3	Y	50	50	100	3	Y	143	145	98.62	3	Y
38	40	95	3	Y	15	15	100	3	Y	50	50	100	3	Y	142	145	97.93	3	Y
38	40	95	3	Y	14	15	93.33	3	Y	50	50	100	3	Y	138	145	95.17	3	Y
37	40	92.5	3	Y	15	15	100	3	Y	49	50	98	3	Y	139	145	95.86	3	Y
37	40	92.5	3	Y	15	15	100	3	Y	47	50	94	3	Y	131	145	90.34	3	Y
34	40	85	3	Y	14	15	93.33	3	Y	45	50	90	3	Y	117	145	80.69	3	Y


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27	40	67.5	2	N	14	15	93.33	3	Y	37	50	74	2	N	102	145	70.34	2	N
39	40	97.5	3	Y	15	15	100	3	Y	50	50	100	3	Y	141	145	97.24	3	Y
38	40	95	3	Y	14	15	93.33	3	Y	47	50	94	3	Y	129	145	88.97	3	Y
31	40	77.5	2	N	15	15	100	3	Y	43	50	86	3	Y	116	145	80	3	Y
28	40	70	2	N	15	15	100	3	Y	44	50	88	3	Y	118	145	81.38	3	Y
38	40	95	3	Y	15	15	100	3	Y	48	50	96	3	Y	139	145	95.86	3	Y
40	40	100	3	Y	15	15	100	3	Y	48	50	96	3	Y	137	145	94.48	3	Y
38	40	95	3	Y	15	15	100	3	Y	45	50	90	3	Y	132	145	91.03	3	Y
30	40	75	2	N	15	15	100	3	Y	49	50	98	3	Y	136	145	93.79	3	Y
38	40	95	3	Y	15	15	100	3	Y	49	50	98	3	Y	143	145	98.62	3	Y
33	40	82.5	3	Y	15	15	100	3	Y	47	50	94	3	Y	135	145	93.1	3	Y
39	40	97.5	3	Y	14	15	93.33	3	Y	48	50	96	3	Y	139	145	95.86	3	Y
31	40	77.5	2	N	15	15	100	3	Y	47	50	94	3	Y	127	145	87.59	3	Y
28	40	70	2	N	12	15	80	3	Y	37	50	74	2	N	108	145	74.48	2	N
40	40	100	3	Y	15	15	100	3	Y	50	50	100	3	Y	140	145	96.55	3	Y
39	40	97.5	3	Y	15	15	100	3	Y	50	50	100	3	Y	143	145	98.62	3	Y
37	40	92.5	3	Y	15	15	100	3	Y	49	50	98	3	Y	134	145	92.41	3	Y
28	40	70	2	N	15	15	100	3	Y	44	50	88	3	Y	123	145	84.83	3	Y
38	40	95	3	Y	15	15	100	3	Y	49	50	98	3	Y	143	145	98.62	3	Y
39	40	97.5	3	Y	15	15	100	3	Y	47	50	94	3	Y	142	145	97.93	3	Y
24	40	60	2	N	15	15	100	3	Y	39	50	78	2	N	107	145	73.79	2	N
22	40	55	1	N	15	15	100	3	Y	39	50	78	2	N	114	145	78.62	2	N
25	40	62.5	2	N	15	15	100	3	Y	37	50	74	2	N	108	145	74.48	2	N
38	40	95	3	Y	15	15	100	3	Y	50	50	100	3	Y	140	145	96.55	3	Y
38	40	95	3	Y	15	15	100	3	Y	48	50	96	3	Y	139	145	95.86	3	Y
40	40	100	3	Y	15	15	100	3	Y	49	50	98	3	Y	139	145	95.86	3	Y
39	40	97.5	3	Y	15	15	100	3	Y	49	50	98	3	Y	137	145	94.48	3	Y
39	40	97.5	3	Y	14	15	93.33	3	Y	48	50	96	3	Y	139	145	95.86	3	Y
29	40	72.5	2	N	15	15	100	3	Y	48	50	96	3	Y	133	145	91.72	3	Y
29	40	72.5	2	N	15	15	100	3	Y	48	50	96	3	Y	128	145	88.28	3	Y
33	40	82.5	3	Y	15	15	100	3	Y	48	50	96	3	Y	134	145	92.41	3	Y

No. of students scoring	3	40
	2	19
	1	2
Average		2.62

No. of students scoring	3	60
	2	1
	1	0
Average		2.98

No. of students scoring	3	54
	2	7
	1	0
Average		2.89

No. of students scoring	3	54
	2	7
	1	0
Average		2.89


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Course Name
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Project
RME-852
2017-2021
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0.0.12

CO Attainment using Semester End Examination (SEE)

S.No.	Univ. Roll No.	Name	Max Marks	SEE		
				350	>=80%	Level (3,2,1) Y/N
1	1708240001	AATIF KHAN	295	84.29	3	Y
2	1708240002	ABDUL KABIR	345	98.57	3	Y
3	1708240003	Abhinav Gupta	344	98.29	3	Y
4	1708240004	ABHINAV KUMAR	305	87.14	3	Y
5	1708240005	Abhishek Chandra	330	94.29	3	Y
6	1708240006	ADITYA SHARMA	328	93.71	3	Y
7	1708240007	AISHVARYA KRISHN	310	88.57	3	Y
8	1708240008	AKSHAT DABAS	338	96.57	3	Y
9	1708240010	AMAN AGRAWAL	300	85.71	3	Y
10	1708240011	AMBESH KUMAR PAL	280	80	3	Y
11	1708240012	ANAS BEIG		0	1	N
12	1708240013	ANKIT KUMAR GANGWAR	340	97.14	3	Y
13	1708240014	Anuj	250	71.43	2	N
14	1708240015	anurag joshi	325	92.86	3	Y
15	1708240016	ANURAG VASHISHTH	345	98.57	3	Y
16	1708240017	ARYAN KUMAR	280	80	3	Y
17	1708240018	ASHEESH KUMAR	260	74.29	2	N
18	1708240019	ASHUTOSH BHARDWAJ	315	90	3	Y
19	1708240020	ASHUTOSH KUMAR	325	92.86	3	Y
20	1708240021	AYUSH KUMAR	320	91.43	3	Y


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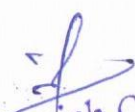
21	1708240022	Ayush Kumar	310	88.57	3 Y
22	1708240023	HIMANSHU YADAV	340	97.14	3 Y
23	1708240025	KSHITIZ SHIVAM	342	97.71	3 Y
24	1708240026	LALIT KUMAR	305	87.14	3 Y
25	1708240027	LUCKY KUNAR	335	95.71	3 Y
26	1708240028	MANJEET SINGH	285	81.43	3 Y
27	1708240030	MOHAMMAD AQIB	338	96.57	3 Y
28	1708240031	MOHAMMAD SALMAN	340	97.14	3 Y
29	1708240032	MOHAMMAD ZAKI	335	95.71	3 Y
30	1708240033	MOHD AMAAN KHAN	343	98	3 Y
31	1708240035	MOHD. SAMAD KHAN		0	1 N
32	1708240036	NITIN TOMAR	305	87.14	3 Y
33	1708240037	Nitish Pandey	340	97.14	3 Y
34	1708240038	OSKAR POURYA	340	97.14	3 Y
35	1708240039	PRASHANT CHAUDHARY	343	98	3 Y
36	1708240040	PRATEEK KUMAR	310	88.57	3 Y
37	1708240041	RAJVEER SAINI	290	82.86	3 Y
38	1708240042	RASHI	343	98	3 Y
39	1708240043	RISHABH GOEL	343	98	3 Y
40	1708240044	RITIK CHANDRA	300	85.71	3 Y
41	1708240045	ROHAN SHARMA	336	96	3 Y
42	1708240046	SAMBHAV SHARMA	330	94.29	3 Y
43	1708240047	SANDEEP SHARMA	310	88.57	3 Y
44	1708240048	SARTHAK DIXIT	305	87.14	3 Y
45	1708240049	SHASHI PRAKASH	335	95.71	3 Y
46	1708240050	SHIVAM KUMAR	280	80	3 Y
47	1708240051	SIDDHANT SHARMA	340	97.14	3 Y
48	1708240052	SIDDHARTHA RAJA	343	98	3 Y
49	1708240053	SIRAJ AHMAD	250	71.43	2 N
50	1708240054	SOURABH KUMAR	335	95.71	3 Y
51	1708240055	SUBHASH CHANDRA PANDEY	330	94.29	3 Y
52	1708240058	TUSHAR GUPTA	320	91.43	3 Y
53	1708240059	VIVEK GUPTA	330	94.29	3 Y


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54	1708240060	VIVEK KUMAR	335	95.71	3	Y
55	1708240061	YOGENDRA PAL SINGH	330	94.29	3	Y
56	1708240062	ZAEEM UL SAJJAD	290	82.86	3	Y
57	1808240901	GAURAV RATHOR	320	91.43	3	Y
58	1808240902	SHUBHAM SHUKLA	315	90	3	Y
59	1608240066	Rajat Saini		0	1	N
60	1608240067	Rajnish Chauhan	260	74.29	2	N
61	1608240004	Akash Gautam	280	80	3	Y

No. of students scoring	3	54
	2	4
	1	3
Average		2.84

Course Code	CO	CO Attained getting $\geq 80\%$ marks)	(% of students)	CO Attained (On Scale of 3)
RME-852	CO1	88.52		2.66
	CO2	88.52		2.66
	CO3	88.52		2.66
	CO4	88.52		2.66
	CO5	88.52		2.66


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CO Attainment and Analysis

CO Attainment using Continuous Internal Evaluation (CIE)

Course Code	CO	CO Attained (% of students getting $\geq 80\%$ marks)	CO Attained (On Scale of 3)
RME-852	C01		
	C02	65.57	1.97
	C03	98.36	2.95
	C04	88.52	2.66
	C05	88.52	2.66

CO Attainment using Semester End Examination (SEE)

Course Code	CO	CO Attained (% of students getting $\geq 80\%$ marks)	CO Attained (On Scale of 3)
RME-852	C01	88.52	2.66
	C02	88.52	2.66
	C03	88.52	2.66
	C04	88.52	2.66
	C05	88.52	2.66

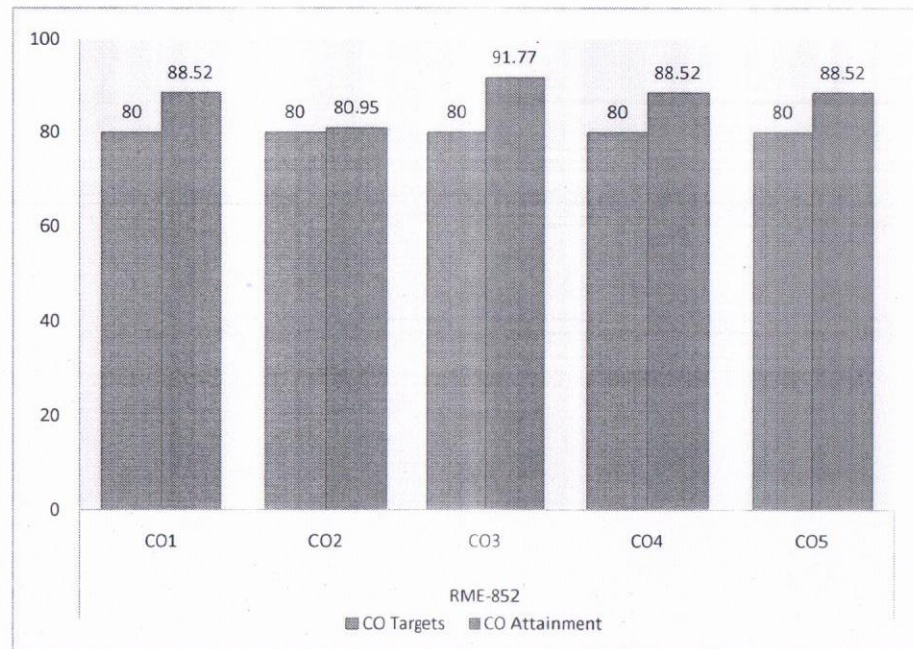
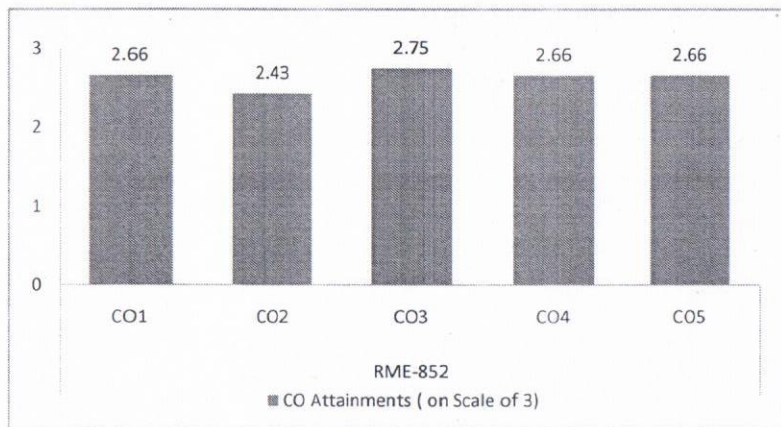
CO Attainment (CO)

Course Code	CO	CO Attained Using CIE (CO_CIE)	CO Attained using SEE (CO_SEE)	Direct CO Attainment $= 0.33 * CO_CIE + 0.67 * CO_SEE$	Direct CO Attainment (On Scale of 3)
RME-852	C01		88.52	88.52	2.66
	C02	65.57	88.52	80.95	2.43
	C03	98.36	88.52	91.77	2.75
	C04	88.52	88.52	88.52	2.66
	C05	88.52	88.52	88.52	2.66

Course Code	CO	CO Targets	CO Attainment	Y/N
RME-852	C01	80	88.52	Y
	C02	80	80.95	Y
	C03	80	91.77	Y
	C04	80	88.52	Y
	C05	80	88.52	Y


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Course Code	CO	CO Attainment (On Scale of 3)
RME-852	CO1	2.66
	CO2	2.43
	CO3	2.75
	CO4	2.66
	CO5	2.66




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CO Attainment

Course Code	CO	CO Attainment
RME-852	CO1	88.52
	CO2	80.95
	CO3	91.77
	CO4	88.52
	CO5	88.52

CO-PO Mapping

Course Code	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
RME-852	CO1 RME-852.1	3	3				2	2	2	3		2	3
	CO2 RME-852.2	2	2				1			3	2	2	2
	CO3 RME-852.3	2	2	3	2	1	2	2	2	3	2	3	2
	CO4 RME-852.4	3	3	3	3	3	3	3	3	3	3	3	3
	CO5 RME-852.5	3	3	3	3	3	3	3	3	3	3	3	3
Mapping Strength RME-852		2.6	2.6	3	2.666667	2.333333	2.2	2.5	2.5	3	2.5	2.6	2.6

PO Attainment

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Relevant COs	CO1 CO2 CO3 CO4 CO5	CO1 CO2 CO3 CO4 CO5	CO3 CO4 CO5	CO3 CO4 CO5	CO3 CO4 CO5	CO1 CO2 CO3 CO4 CO5	CO1 CO3 CO4 CO5	CO1 CO3 CO4 CO5	CO1 CO2 CO3 CO4 CO5	CO2 CO3 CO4 CO5	CO1 CO2 CO3 CO4 CO5	CO1 CO2 CO3 CO4 CO5
Average of attainments of Relevant COs	87.66	87.66	89.6	89.6	89.6	87.66	89.33	89.33	87.66	87.44	87.66	87.66
PO Attainment of PO = (Actual Mapping strength/Maximum Mapping Strength)* Average of attainments of relevant COs	75.97	75.97	89.6	79.64	69.69	64.28	74.44	74.44	87.66	72.87	75.97	75.97
PO Attainment (normalized to 3)	2.28	2.28	2.69	2.39	2.09	1.93	2.23	2.23	2.63	2.19	2.19	2.28

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Course Code	CO		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
RME-852	CO1	RME-852.1	2.28	2.28				1.29	1.49	1.49	2.63		1.52	2.28
	CO2	RME-852.2	1.52	1.52				0.64			2.63	1.46	1.52	1.52
	CO3	RME-852.3	1.52	1.52	2.69	1.59	0.7	1.29	1.49	1.49	2.63	1.46	2.28	1.52
	CO4	RME-852.4	2.28	2.28	2.69	2.39	2.09	1.93	2.23	2.23	2.63	2.19	2.28	2.28
	CO5	RME-852.5	2.28	2.28	2.69	2.39	2.09	1.93	2.23	2.23	2.63	2.19	2.28	2.28
PO Attainments		RME-852	1.98	1.98	2.69	2.12	1.63	1.41	1.86	1.86	2.63	1.82	1.98	1.98

CO-PSO Mapping

Course Code	CO		PSO1	PSO2	PSO3
RME-852	CO1	RME-852.1	3	3	3
	CO2	RME-852.2	3	3	3
	CO3	RME-852.3	3	3	3
	CO4	RME-852.4	3	3	3
	CO5	RME-852.5	3	3	3
Mapping Strength		RME-852	3	3	3

PSO Attainment

PSO	PSO1	PSO2	PSO3
Relevant COs	CO1 CO2 CO3 CO4 CO5	CO1 CO2 CO3 CO4 CO5	CO1 CO2 CO3 CO4 CO5
Average of attainments of Relevant COs	87.66	87.66	87.66
PSO Attainment Attainment of PSO = (Actual Mapping strength/Maximum Mapping Strength)* Average of attainments of relevant COs	87.66	87.66	87.66
PSO Attainment (normalized to 3)	2.63	2.63	2.63

Course Code	CO		PSO1	PSO2	PSO3
RME-852	CO1	RME-852.1	2.63	2.63	2.63
	CO2	RME-852.2	2.63	2.63	2.63
	CO3	RME-852.3	2.63	2.63	2.63
	CO4	RME-852.4	2.63	2.63	2.63
	CO5	RME-852.5	2.63	2.63	2.63
PSO Attainments		RME-852	2.63	2.63	2.63


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CO Attainment Gap

Course Code	CO	CO Targets	CO Attainment	CO Attainment Gap (Target - Attainment)
RME-852	CO1	80	88.52	-8.52
	CO2	80	80.95	-0.95
	CO3	80	91.77	-11.77
	CO4	80	88.52	-8.52
	CO5	80	88.52	-8.52

If Gap > 0 : Target not attained
If Gap ≤ 0 : Target attained

Closure of Quality Loop

Course Code	CO	CO Targets	CO Attainment Gap	Action proposed to bridge the gap where targets are not achieved	Modification of targets where Achieved
RME-852	CO1	80	-8.52		Target remain same
	CO2	80	-0.95		Target remain same
	CO3	80	-11.77		Target remain same
	CO4	80	-8.52		Target remain same
	CO5	80	-8.52		Target remain same

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