

Course Name Project
Course Code RME-852
Batch 2016 2020
Semester 8
Session 2019 2020
L:T:P 0.0.12

Number of Students 91

- 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	C01 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
	C02 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
	C03 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
	C04 RME-852.4	Measure/test the performance of the undergoing project in different conditions with the help of different parameters.	Analyze
	C05 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	C01 RME-852.1	80
	C02 RME-852.2	80
	C03 RME-852.3	80
	C04 RME-852.4	80
	C05 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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Course Name
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Project
RME-852
2015-2016
8
2014-2015
0.0.12

CO-PO Mapping

Course Code	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
RME-852	C01	RME-852.1	3	3			2	2	2	3		2	3
	C02	RME-852.2	2	2			1			3	2	2	2
	C03	RME-852.3	2	2	3	2	1	2	2	3	2	3	2
	C04	RME-852.4	3	3	3	3	3	3	3	3	3	3	3
	C05	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	C01	RME-852.1	3	3
	C02	RME-852.2	3	3
	C03	RME-852.3	3	3
	C04	RME-852.4	3	3
	C05	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	Presentation 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	Presenta-tion 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 Contribution	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	350
CO1	Y
CO2	Y
CO3	Y
CO4	Y
CO5	Y


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Project
RME-852
2018-2019
8
2019-2020
0.0.12

CO Attainment using Continuous Internal Evaluation (CIE)

				Phase 1			
				CO3	CO4	CO5	CO5
				Refine the Requirements to Incorporate Suggestions (05)	Objectives Meet/ Results as per the Expected time plan	Presen- tation as team and as an Individual	Questions and Answer
S No	Univ. Roll No.	Name	Max Marks	Rubrics			
1	1608240001	AARYAN	15	15	15	15	15
2	1608240002	ABHISHEK KUMAR SINGH	15	15	15	15	15
3	1608240003	AJEET MORYA	12	12	12	12	13
4	1608240005	AKASH KUMAR	15	14	14	14	13
5	1608240006	AKASH YADAV	12	12	12	12	13
6	1608240007	AKASH MATHUR	15	15	15	15	15
7	1608240008	AMAN MATHUR	15	15	15	15	15
8	1608240009	AMAN SISODIA	15	15	15	15	15
9	1608240010	AMIT KUMAR	14	14	14	14	14
10	1608240011	AMITESH KUSHWAHA	15	15	15	15	15
11	1608240012	ANANT TIWARI	15	15	15	15	15
12	1608240013	ANKIT KUMAR	5	13	13	13	13
13	1608240014	ANKUR SINGH	15	15	15	15	15
14	1608240015	ANUJ PANWAR	15	15	15	15	15
15	1608240016	ARJUN SINGH	15	15	15	15	15
16	1608240017	ARPIT KUMAR	14	14	14	14	14
17	1608240019	AYUSH RAJPUT	15	15	15	15	15
18	1608240020	DEEPAK PANDEY	15	15	15	15	15
19	1608240022	DHANESHVAR CHAUHAN	15	15	15	15	15
20	1608240023	DHAVESH SAINI	15	15	15	15	15
21	1608240024	DINESH KUMAR	15	15	15	15	15
22	1608240025	DISHANT PRATAP	15	15	15	15	15
23	1608240026	GAJENDRA SINGH	15	15	15	15	15
24	1608240027	GAURAV VERMA	15	15	15	15	15
25	1608240028	GURDEEP KUMAR	15	15	15	15	15
26	1608240029	HARSH KAUSHIK	15	15	15	15	15
27	1608240030	HARSH THAKUR	15	15	15	15	15
28	1608240031	HIMANSHU CHOUDHARY	15	15	15	15	15
29	1608240032	HIMANSHU SHARMA	15	15	15	15	15
30	1608240034	JITENDRA KUMAR	15	15	15	15	15
31	1608240035	JITENDRA SINGH SAINI	14	14	14	14	14
32	1608240036	KARUN KUMAR CHAUHAN	15	15	15	15	15
33	1608240037	KOVIT KUMAR	15	14	14	14	15
34	1608240038	KRISHNA KUMAR	14	14	14	14	14
35	1608240039	LAKSHA KUMAR	14	13	13	13	13
36	1608240040	MANEESH CHAUHAN	15	15	15	15	15
37	1608240041	MOHAMMAD FAIZI	14	14	14	14	15
38	1608240042	MOHAMMAD AREEB SAIFI	15	14	14	14	15
39	1608240043	MOHD AHTESHAM	15	15	15	15	15
40	1608240045	MOHD ANAS	15	15	15	15	15
41	1608240046	MOHD ATHAR	15	15	15	15	15
42	1608240047	MOHD DANIAL	15	15	14	14	14
43	1608240048	MOHD FAIZ	15	15	15	15	15
44	1608240049	MOHD FAIZAN	15	15	15	15	15
45	1608240051	MOHD SHAZEB	14	14	14	14	14
46	1608240052	MOHD ASIM	14	14	14	14	14
47	1608240053	MOHD FARAZ	15	15	15	15	15

Phase 2				
CO5	CO4	CO5	CO5	CO5
Final Report	Final Demonstration	Presen- tation as team and as an Individual	Questions and Answer	Research Paper Writing Based on Project
15	15	25	20	15
15	15	24	19	10
15	15	25	20	12
12	12	18	18	8
13	13	23	18	8
12	12	18	18	8
15	15	20	18	9
15	15	21	20	12
15	15	25	20	12
14	14	20	18	8
15	15	23	19	10
15	15	25	20	12
13	13	20	18	8
15	15	25	20	12
15	15	23	18	9
15	15	22	19	9
14	14	20	18	8
15	15	20	19	9
15	15	25	20	12
15	15	20	18	9
15	15	25	20	12
15	15	23	19	10
15	15	25	20	12
15	15	20	18	9
15	15	22	19	9
15	15	23	19	9
15	15	23	19	12
15	15	25	20	12
15	15	23	19	9
15	15	25	20	12
15	15	23	19	9
14	14	20	18	8
15	15	25	20	12
15	15	24	19	10
14	14	18	18	8
13	13	20	18	8
15	15	25	20	12
15	15	20	18	9
15	15	24	19	10
15	15	20	18	9
15	15	20	18	9
15	15	25	20	12
15	14	21	17	9
15	15	25	20	12
15	15	25	20	12
14	14	18	18	9
14	14	18	18	9
15	15	25	20	12

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	TOTAL
20	20	20	20	20	250
19	19	19	19	20	238
20	20	20	19	19	245
17	16	17	16	17	200
17	17	17	16	17	215
17	16	17	16	17	200
18	18	19	19	19	230
20	19	19	19	20	240
20	20	20	19	19	245
18	18	18	18	18	220
19	19	19	19	19	237
20	19	19	19	19	243
17	17	17	16	17	200
20	20	20	19	19	245
17	17	18	18	18	228
18	19	19	19	19	234
18	18	18	18	18	220
18	18	18	19	19	230
20	19	19	19	18	242
17	17	18	18	18	225
20	20	20	19	19	245
19	19	19	19	19	237
20	19	19	18	18	241
17	17	18	18	18	225
18	18	18	18	18	230
19	19	19	19	20	237
19	19	19	19	19	239
20	19	18	18	18	240
19	19	19	19	19	236
20	19	19	19	20	244
19	19	19	19	20	237
18	18	18	18	18	220
20	20	19	19	19	244
19	19	19	19	20	238
17	17	17	18	18	215
17	17	17	17	17	210
18	18	18	19	19	239
18	18	19	19	19	227
19	19	19	19	20	238
18	18	19	19	19	230
18	18	19	19	19	230
20	19	19	19	19	243
18	18	18	18	19	225
20	19	19	19	19	243
20	20	20	19	19	247
17	17	17	17	17	215
17	18	18	18	18	215
20	19	19	19	19	240

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48	1608240054	MOHD SADDAM HUSAIN	14	14	14	14
49	1608240055	MUDIT YADAV	15	15	15	15
50	1608240056	MUMTAZ KHAN	15	15	15	15
51	1608240057	NAWAZ ALI	14	14	14	14
52	1608240058	NEERAJ SAINI	15	15	14	14
53	1608240059	NITESH KUMAR SAROJ	15	15	15	15
54	1608240060	NUZAIF KHAN	15	15	15	15
55	1608240061	OVAIS KHAN	15	15	14	14
56	1608240062	PRINCE TYAGI	14	14	14	14
57	1608240063	PULKIT DHARIWAL	15	15	15	15
58	1608240065	RAJA KANCHAN	15	15	15	15
59	1608240069	RAMAN KAUSHIK	15	15	15	15
60	1608240070	RITESH SINGH	15	15	15	15
61	1608240071	SACHIN KUMAR	15	15	15	15
62	1608240072	SACHIN BHANDARI	15	15	15	15
63	1608240073	SAGAR KUMAR	15	15	15	15
64	1608240074	SALMAN	15	14	15	15
65	1608240075	SANTOSH VERMA	15	15	15	15
66	1608240076	SARABHJEET SINGH	14	14	14	14
67	1608240077	SARTHAK VYAS	15	15	15	15
68	1608240078	SATYAM KUMAR THAKUR	15	15	15	15
69	1608240080	SHASHWAT YADAV	15	15	15	15
70	1608240082	SHUBHAM KUMAR	15	14	15	15
71	1608240084	SUMIT KUMAR	15	15	15	15
72	1608240085	UBAID UR REHMAN	15	15	15	15
73	1608240086	UTKARSH TYAGI	15	14	15	15
74	1608240087	VAIBHAV SINGH	14	14	14	14
75	1608240088	VARUN RASTOGI	15	15	15	15
76	1608240089	VIKAS KUMAR	15	15	15	15
77	1608240091	VISHAL CHAUDHARY	15	15	15	15
78	1608240092	VISHESH KUMAR	15	14	15	15
79	1608240093	VISHNU KUMAR GAUTAM	15	15	15	15
80	1608240094	YASH RASTOGI	15	14	15	15
81	1608240095	YASHARTH GAUTAM	14	14	14	14
82	1608240096	ZIAUL MUSTAFA	15	15	15	15
83	1708240901	Ankur Saini	15	14	15	15
84	1708240902	Anuj Pal S/o Rajkumar	15	14	15	15
85	1708240903	Devraj Singh	14	14	14	14
86	1708240904	Mohammad Junaaid	14	14	14	14
87	1708240905	Mohammad Shariq	14	14	14	14
88	1708240906	Ravi Arya	14	14	14	14
89	1708240907	Rishabh Dhvani	15	14	15	15
90	1708240908	Shubham Raj	15	14	15	15
91	1708240909	Varun Chhatrawal	15	14	15	15

14	14	18	18	9
15	15	23	19	9
15	15	25	20	12
14	14	18	18	9
15	14	22	17	9
15	15	23	19	9
15	15	25	20	12
15	14	23	17	9
14	14	18	18	9
15	15	23	19	11
15	14	23	17	9
15	15	25	20	12
15	15	23	19	9
15	15	23	19	9
15	15	25	20	12
15	14	22	19	9
14	15	18	18	9
15	15	23	19	9
14	14	18	18	9
15	15	25	20	12
15	15	25	20	12
15	15	25	19	9
14	15	20	18	9
15	15	23	19	9
15	15	25	20	12
14	15	18	18	9
14	14	20	18	8
15	15	25	20	12
15	15	25	20	12
15	15	25	20	12
15	15	24	19	10
15	15	25	20	12
14	14	20	18	8
15	15	25	20	12
14	15	22	18	11
14	15	20	18	9
14	14	20	18	8
14	14	20	18	8
14	15	22	18	10
15	15	24	19	10
15	15	24	19	10

17	17	17	17	18	215
18	18	18	18	19	232
20	20	20	19	19	245
17	17	17	17	17	214
18	18	18	18	19	226
18	18	18	18	19	232
20	19	19	19	19	243
18	18	18	18	19	227
17	18	18	18	18	218
19	19	19	19	19	238
18	18	18	18	19	229
20	20	20	19	19	245
19	19	19	19	19	236
18	18	18	18	19	232
18	18	19	19	20	241
18	18	18	18	19	230
18	19	18	19	19	226
18	18	18	18	19	232
17	17	17	17	18	215
20	20	20	19	19	245
20	20	20	19	19	245
18	18	18	19	19	235
18	19	18	19	19	228
18	18	18	19	19	233
20	20	20	19	19	245
18	19	18	19	19	226
18	18	18	18	18	220
20	20	20	19	19	245
20	19	18	19	19	242
20	19	18	19	19	242
19	19	19	19	20	238
20	19	19	19	19	243
19	19	19	19	20	238
18	18	18	18	18	220
20	19	18	19	19	242
19	19	18	19	19	233
18	19	18	19	19	228
18	18	18	18	18	220
18	19	19	18	18	222
18	18	18	18	18	220
18	18	18	18	18	220
18	18	18	19	19	230
19	19	19	20	20	239
18	18	18	19	19	234

Course Code	CO	CO Attained (% of students getting $\geq 80\%$ marks)	CO Attained (On Scale of 3)
RME-852	CO1		
	CO2	100	3
	CO3	98.9	2.97
	CO4	100	3
	CO5	97.8	2.93


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CO2					CO3					CO4					CO5				
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
38	40	95	3	Y	15	15	100	3	Y	48	50	96	3	Y	137	145	94.48	3	Y
39	40	97.5	3	Y	15	15	100	3	Y	50	50	100	3	Y	141	145	97.24	3	Y
33	40	82.5	3	Y	12	15	80	3	Y	41	50	82	3	Y	114	145	78.62	2	N
33	40	82.5	3	Y	15	15	100	3	Y	44	50	88	3	Y	123	145	84.83	3	Y
33	40	82.5	3	Y	12	15	80	3	Y	41	50	82	3	Y	114	145	78.62	2	N
38	40	95	3	Y	15	15	100	3	Y	48	50	96	3	Y	129	145	88.97	3	Y
38	40	95	3	Y	15	15	100	3	Y	50	50	100	3	Y	137	145	94.48	3	Y
39	40	97.5	3	Y	15	15	100	3	Y	50	50	100	3	Y	141	145	97.24	3	Y
36	40	90	3	Y	14	15	93.33	3	Y	46	50	92	3	Y	124	145	85.52	3	Y
38	40	95	3	Y	15	15	100	3	Y	49	50	98	3	Y	135	145	93.1	3	Y
38	40	95	3	Y	15	15	100	3	Y	50	50	100	3	Y	140	145	96.55	3	Y
33	40	82.5	3	Y	5	15	33.33	1	N	43	50	86	3	Y	119	145	82.07	3	Y
39	40	97.5	3	Y	15	15	100	3	Y	50	50	100	3	Y	141	145	97.24	3	Y
36	40	90	3	Y	15	15	100	3	Y	47	50	94	3	Y	130	145	89.66	3	Y
38	40	95	3	Y	15	15	100	3	Y	48	50	96	3	Y	133	145	91.72	3	Y
36	40	90	3	Y	14	15	93.33	3	Y	46	50	92	3	Y	124	145	85.52	3	Y
37	40	92.5	3	Y	15	15	100	3	Y	48	50	96	3	Y	130	145	89.66	3	Y
38	40	95	3	Y	15	15	100	3	Y	50	50	100	3	Y	139	145	95.86	3	Y
36	40	90	3	Y	15	15	100	3	Y	47	50	94	3	Y	127	145	87.59	3	Y
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	15	15	100	3	Y	49	50	98	3	Y	135	145	93.1	3	Y
37	40	92.5	3	Y	15	15	100	3	Y	50	50	100	3	Y	139	145	95.86	3	Y
36	40	90	3	Y	15	15	100	3	Y	47	50	94	3	Y	127	145	87.59	3	Y
36	40	90	3	Y	15	15	100	3	Y	48	50	96	3	Y	131	145	90.34	3	Y
38	40	95	3	Y	15	15	100	3	Y	49	50	98	3	Y	135	145	93.1	3	Y
38	40	95	3	Y	15	15	100	3	Y	49	50	98	3	Y	137	145	94.48	3	Y
36	40	90	3	Y	15	15	100	3	Y	50	50	100	3	Y	139	145	95.86	3	Y
38	40	95	3	Y	15	15	100	3	Y	49	50	98	3	Y	134	145	92.41	3	Y
38	40	95	3	Y	15	15	100	3	Y	50	50	100	3	Y	141	145	97.24	3	Y
38	40	95	3	Y	15	15	100	3	Y	49	50	98	3	Y	135	145	93.1	3	Y
36	40	90	3	Y	14	15	93.33	3	Y	46	50	92	3	Y	124	145	85.52	3	Y
38	40	95	3	Y	15	15	100	3	Y	50	50	100	3	Y	141	145	97.24	3	Y
38	40	95	3	Y	15	15	100	3	Y	48	50	96	3	Y	137	145	94.48	3	Y
35	40	87.5	3	Y	14	15	93.33	3	Y	45	50	90	3	Y	121	145	83.45	3	Y
34	40	85	3	Y	14	15	93.33	3	Y	43	50	86	3	Y	119	145	82.07	3	Y
37	40	92.5	3	Y	15	15	100	3	Y	48	50	96	3	Y	139	145	95.86	3	Y
38	40	95	3	Y	14	15	93.33	3	Y	47	50	94	3	Y	128	145	88.28	3	Y
38	40	95	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	48	50	96	3	Y	129	145	88.97	3	Y
38	40	95	3	Y	15	15	100	3	Y	48	50	96	3	Y	129	145	88.97	3	Y
38	40	95	3	Y	15	15	100	3	Y	50	50	100	3	Y	140	145	96.55	3	Y
36	40	90	3	Y	15	15	100	3	Y	47	50	94	3	Y	127	145	87.59	3	Y
38	40	95	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	141	145	97.24	3	Y
34	40	85	3	Y	14	15	93.33	3	Y	45	50	90	3	Y	122	145	84.14	3	Y
36	40	90	3	Y	14	15	93.33	3	Y	45	50	90	3	Y	123	145	84.83	3	Y


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38	40	95	3	Y	15	15	100	3	Y	50	50	100	3	Y	140	145	96.55	3	Y
34	40	85	3	Y	14	15	93.33	3	Y	45	50	90	3	Y	122	145	84.14	3	Y
36	40	90	3	Y	15	15	100	3	Y	48	50	96	3	Y	133	145	91.72	3	Y
39	40	97.5	3	Y	15	15	100	3	Y	50	50	100	3	Y	141	145	97.24	3	Y
34	40	85	3	Y	14	15	93.33	3	Y	45	50	90	3	Y	121	145	83.45	3	Y
36	40	90	3	Y	15	15	100	3	Y	47	50	94	3	Y	128	145	88.28	3	Y
36	40	90	3	Y	15	15	100	3	Y	48	50	96	3	Y	133	145	91.72	3	Y
38	40	95	3	Y	15	15	100	3	Y	50	50	100	3	Y	140	145	96.55	3	Y
36	40	90	3	Y	15	15	100	3	Y	47	50	94	3	Y	129	145	88.97	3	Y
36	40	90	3	Y	14	15	93.33	3	Y	45	50	90	3	Y	123	145	84.83	3	Y
38	40	95	3	Y	15	15	100	3	Y	49	50	98	3	Y	136	145	93.79	3	Y
36	40	90	3	Y	15	15	100	3	Y	47	50	94	3	Y	131	145	90.34	3	Y
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	15	15	100	3	Y	49	50	98	3	Y	134	145	92.41	3	Y
36	40	90	3	Y	15	15	100	3	Y	48	50	96	3	Y	133	145	91.72	3	Y
38	40	95	3	Y	15	15	100	3	Y	48	50	96	3	Y	140	145	96.55	3	Y
36	40	90	3	Y	15	15	100	3	Y	47	50	94	3	Y	132	145	91.03	3	Y
37	40	92.5	3	Y	15	15	100	3	Y	47	50	94	3	Y	127	145	87.59	3	Y
36	40	90	3	Y	15	15	100	3	Y	48	50	96	3	Y	133	145	91.72	3	Y
34	40	85	3	Y	14	15	93.33	3	Y	45	50	90	3	Y	122	145	84.14	3	Y
39	40	97.5	3	Y	15	15	100	3	Y	50	50	100	3	Y	141	145	97.24	3	Y
39	40	97.5	3	Y	15	15	100	3	Y	50	50	100	3	Y	141	145	97.24	3	Y
37	40	92.5	3	Y	15	15	100	3	Y	48	50	96	3	Y	135	145	93.1	3	Y
37	40	92.5	3	Y	15	15	100	3	Y	47	50	94	3	Y	129	145	88.97	3	Y
37	40	92.5	3	Y	15	15	100	3	Y	48	50	96	3	Y	133	145	91.72	3	Y
39	40	97.5	3	Y	15	15	100	3	Y	50	50	100	3	Y	141	145	97.24	3	Y
37	40	92.5	3	Y	15	15	100	3	Y	47	50	94	3	Y	127	145	87.59	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
37	40	92.5	3	Y	15	15	100	3	Y	50	50	100	3	Y	140	145	96.55	3	Y
37	40	92.5	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	137	145	94.48	3	Y
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	137	145	94.48	3	Y
36	40	90	3	Y	14	15	93.33	3	Y	46	50	92	3	Y	124	145	85.52	3	Y
37	40	92.5	3	Y	15	15	100	3	Y	50	50	100	3	Y	140	145	96.55	3	Y
37	40	92.5	3	Y	15	15	100	3	Y	48	50	96	3	Y	133	145	91.72	3	Y
37	40	92.5	3	Y	15	15	100	3	Y	47	50	94	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
37	40	92.5	3	Y	14	15	93.33	3	Y	46	50	92	3	Y	125	145	86.21	3	Y
36	40	90	3	Y	14	15	93.33	3	Y	46	50	92	3	Y	124	145	85.52	3	Y
36	40	90	3	Y	14	15	93.33	3	Y	46	50	92	3	Y	124	145	85.52	3	Y
37	40	92.5	3	Y	15	15	100	3	Y	47	50	94	3	Y	131	145	90.34	3	Y
39	40	97.5	3	Y	15	15	100	3	Y	48	50	96	3	Y	137	145	94.48	3	Y
37	40	92.5	3	Y	15	15	100	3	Y	47	50	94	3	Y	135	145	93.1	3	Y

No. of students scoring	3	91
	2	0
	1	0
Average	3	

No. of students scoring	3	90
	2	0
	1	1
Average	2.98	

No. of students scoring	3	91
	2	0
	1	0
Average	3	

No. of students scoring	3	89
	2	2
	1	0
Average	2.98	


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Course Name
Course Code
Batch
Semester
Session
L:T:P

Project
RMF-852
2015 2019
8
2018 2019
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	1608240001	AARYAN		310	88.57	3 Y
2	1608240002	ABHISHEK KUMAR SINGH		320	91.43	3 Y
3	1608240003	AJEET MORYA		305	87.14	3 Y
4	1608240005	AKASH KUMAR		305	87.14	3 Y
5	1608240006	AKASH YADAV		295	84.29	3 Y
6	1608240007	AKASH MATHUR		295	84.29	3 Y
7	1608240008	AMAN MATHUR		305	87.14	3 Y
8	1608240009	AMAN SISODIA		320	91.43	3 Y
9	1608240010	AMIT KUMAR		295	84.29	3 Y
10	1608240011	AMITESH KUSHWAHA		325	92.86	3 Y
11	1608240012	ANANT TIWARI		320	91.43	3 Y
12	1608240013	ANKIT KUMAR		275	78.57	2 N
13	1608240014	ANKUR SINGH		330	94.29	3 Y
14	1608240015	ANUJ PANWAR		300	85.71	3 Y
15	1608240016	ARJUN SINGH		330	94.29	3 Y
16	1608240017	ARPIT KUMAR		295	84.29	3 Y
17	1608240019	AYUSH RAJPUT		285	81.43	3 Y
18	1608240020	DEEPAK PANDEY		330	94.29	3 Y
19	1608240022	DHANESHVAR CHAUHAN		275	78.57	2 N
20	1608240023	DHAVESH SAINI		300	85.71	3 Y
21	1608240024	DINESH KUMAR		300	85.71	3 Y
22	1608240025	DISHANT PRATAP		330	94.29	3 Y
23	1608240026	GAJENDRA SINGH		300	85.71	3 Y
24	1608240027	GAURAV VERMA		305	87.14	3 Y
25	1608240028	GURDEEP KUMAR		315	90	3 Y
26	1608240029	HARSH KAUSHIK		310	88.57	3 Y
27	1608240030	HARSH THAKUR		325	92.86	3 Y
28	1608240031	HIMANSHU CHOUDHARY		330	94.29	3 Y


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29	1608240032	HIMANSHU SHARMA	320	91.43	3	Y
30	1608240034	JITENDRA KUMAR	310	88.57	3	Y
31	1608240035	JITENDRA SINGH SAINI	300	85.71	3	Y
32	1608240036	KARUN KUMAR CHAUHAN	305	87.14	3	Y
33	1608240037	KOVIT KUMAR	310	88.57	3	Y
34	1608240038	KRISHNA KUMAR	295	84.29	3	Y
35	1608240039	LAKSHA KUMAR	290	82.86	3	Y
36	1608240040	MANEESH CHAUHAN	290	82.86	3	Y
37	1608240041	MOHAMMAD FAIZI	290	82.86	3	Y
38	1608240042	MOHAMMAD AREEB SAIFI	310	88.57	3	Y
39	1608240043	MOHD AHTESHAM	300	85.71	3	Y
40	1608240045	MOHD ANAS	285	81.43	3	Y
41	1608240046	MOHD ATHAR	310	88.57	3	Y
42	1608240047	MOHD DANIYAL	315	90	3	Y
43	1608240048	MOHD FAIZ	310	88.57	3	Y
44	1608240049	MOHD FAIZAN	330	94.29	3	Y
45	1608240051	MOHD SHAZEB	275	78.57	2	N
46	1608240052	MOHD ASIM	280	80	3	Y
47	1608240053	MOHD FARAZ	330	94.29	3	Y
48	1608240054	MOHD SADDAM HUSAIN	300	85.71	3	Y
49	1608240055	MUDIT YADAV	315	90	3	Y
50	1608240056	MUMTAZ KHAN	330	94.29	3	Y
51	1608240057	NAWAZ ALI	280	80	3	Y
52	1608240058	NEERAJ SAINI	310	88.57	3	Y
53	1608240059	NITESH KUMAR SAROJ	300	85.71	3	Y
54	1608240060	NUZAIF KHAN	330	94.29	3	Y
55	1608240061	OVAIS KHAN	290	82.86	3	Y
56	1608240062	PRINCE TYAGI	290	82.86	3	Y
57	1608240063	PULKIT DHARIWAL	327	93.43	3	Y
58	1608240065	RAJA KANCHAN	290	82.86	3	Y
59	1608240069	RAMAN KAUSHIK	315	90	3	Y
60	1608240070	RITESH SINGH	300	85.71	3	Y
61	1608240071	SACHIN KUMAR	310	88.57	3	Y
62	1608240072	SACHIN BHANDARI	325	92.86	3	Y
63	1608240073	SAGAR KUMAR	300	85.71	3	Y
64	1608240074	SALMAN	295	84.29	3	Y
65	1608240075	SANTOSH VERMA	305	87.14	3	Y
66	1608240076	SARABHJEET SINGH	290	82.86	3	Y
67	1608240077	SARTHAK VYAS	330	94.29	3	Y
68	1608240078	SATYAM KUMAR THAKUR	315	90	3	Y
69	1608240080	SHASHWAT YADAV	315	90	3	Y
70	1608240082	SHUBHAM KUMAR	295	84.29	3	Y
71	1608240084	SUMIT KUMAR	290	82.86	3	Y
72	1608240085	UBAID UR REHMAN	330	94.29	3	Y
73	1608240086	UTKARSH TYAGI	300	85.71	3	Y


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74	1608240087	VAIBHAV SINGH	305	87.14	3	Y
75	1608240088	VARUN RASTOGI	330	94.29	3	Y
76	1608240089	VIKAS KUMAR	310	88.57	3	Y
77	1608240091	VISHAL CHAUDHARY	305	87.14	3	Y
78	1608240092	VISHESH KUMAR	330	94.29	3	Y
79	1608240093	VISHNU KUMAR GAUTAM	310	88.57	3	Y
80	1608240094	YASH RASTOGI	320	91.43	3	Y
81	1608240095	YASHARTH GAUTAM	300	85.71	3	Y
82	1608240096	ZIAUL MUSTAFA	320	91.43	3	Y
83	1708240901	Ankur Saini	320	91.43	3	Y
84	1708240902	Anuj Pal S/o Rajkumar	295	84.29	3	Y
85	1708240903	Devraj Singh	295	84.29	3	Y
86	1708240904	Mohammad Junaid	290	82.86	3	Y
87	1708240905	Mohammad Shariq	290	82.86	3	Y
88	1708240906	Ravi Arya	290	82.86	3	Y
89	1708240907	Rishabh Dhyan	310	88.57	3	Y
90	1708240908	Shubham Raj	295	84.29	3	Y
91	1708240909	Varun Chhatrawal	300	85.71	3	Y

No. of students scoring	3	88
	2	3
	1	0
Average		2.97

Course Code	CO	CO Attained getting $\geq 60\%$ marks)	(% of students)	CO Attained (On Scale of 3)
RME-852	CO1	96.7		2.9
	CO2	96.7		2.9
	CO3	96.7		2.9
	CO4	96.7		2.9
	CO5	96.7		2.9


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Course Name Project
 Course Code RME-852
 Batch 2015 2019
 Semester 8
 Session 2018 2019
 L:T:P 0.0.12

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	CO1		
	CO2	100	3
	CO3	98.9	2.97
	CO4	100	3
	CO5	97.8	2.93

CO Attainment using Semester End Examination (SEE)

Course Code	CO	CO Attained (% of students getting $\geq 60\%$ marks)	CO Attained (On Scale of 3)
RME-852	CO1	96.7	2.9
	CO2	96.7	2.9
	CO3	96.7	2.9
	CO4	96.7	2.9
	CO5	96.7	2.9

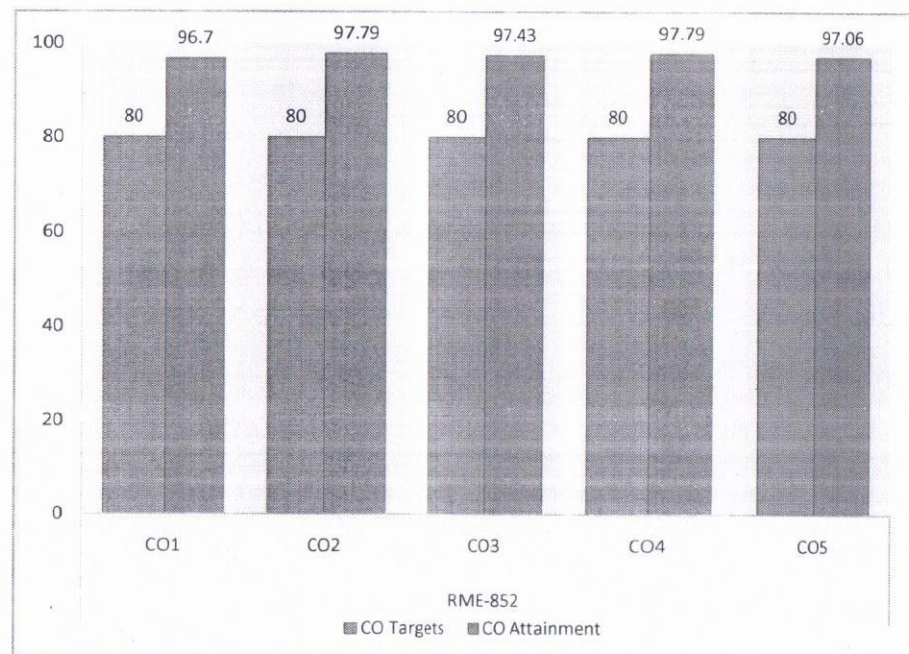
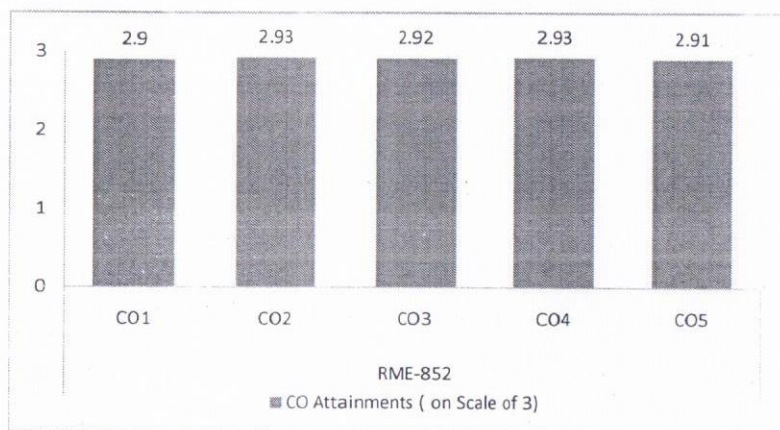
CO Attainment (CO)

Course Code	CO	CO Attained Using CIE (CO_CIE)	CO Attained using SEE (CO_SEE)	Direct CO Attainment $= 0.33 \times \text{CO_CIE} + 0.67 \times \text{CO_SEE}$ (CO)	Direct CO Attainment (On Scale of 3)
RME-852	CO1		96.7	96.7	2.9
	CO2	100	96.7	97.79	2.93
	CO3	98.9	96.7	97.43	2.92
	CO4	100	96.7	97.79	2.93
	CO5	97.8	96.7	97.06	2.91

Course Code	CO	CO Targets	CO Attainment	Y/N
RME-852	CO1	80	96.7	Y
	CO2	80	97.79	Y
	CO3	80	97.43	Y
	CO4	80	97.79	Y
	CO5	80	97.06	Y


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Course Code	CO	CO Attainment (On Scale of 3)
RME-852	CO1	2.9
	CO2	2.93
	CO3	2.92
	CO4	2.93
	CO5	2.91




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Course Name
Course Code
Batch
Semester
Session
L:T:P

Project
RME-852
2015 2019
8
2018 2019
0.0.12

CO Attainment

Course Code	CO	CO Attainment
RME-852	CO1	96.7
	CO2	97.79
	CO3	97.43
	CO4	97.79
	CO5	97.06

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	3.0	2.7	2.3	2.2	2.5	2.5	3.0	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	97.35	97.35	97.43	97.43	97.43	97.35	97.25	97.25	97.35	97.52	97.35	97.35
PO Attainment of PO = (Actual Mapping strength/Maximum Mapping Strength)* Average of attainments of relevant COs	84.37	84.37	97.43	86.6	75.78	71.39	81.04	81.04	97.35	81.27	84.37	84.37
PO Attainment (normalized to 3)	2.53	2.53	2.92	2.6	2.27	2.14	2.43	2.43	2.92	2.44	2.53	2.53

Course Code	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
RME-852	CO1	RME-852.1	2.53	2.53			1.43	1.62	1.62	2.92		1.69	2.53
	CO2	RME-852.2	1.69	1.69			0.71			2.92	1.63	1.69	1.69
	CO3	RME-852.3	1.69	1.69	2.92	1.73	0.76	1.43	1.62	1.62	2.92	1.63	2.53
	CO4	RME-852.4	2.53	2.53	2.92	2.6	2.27	2.14	2.43	2.43	2.92	2.44	2.53
	CO5	RME-852.5	2.53	2.53	2.92	2.6	2.27	2.14	2.43	2.43	2.92	2.44	2.53
PO Attainments		RME-852	2.19	2.19	2.92	2.31	1.77	1.57	2.03	2.03	2.92	2.03	2.19

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


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 Moradabad - 244001

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	97.35	97.35	97.35
PSO Attainment Attainment of PSO = (Actual Mapping strength/Maximum Mapping Strength)* Average of attainments of relevant COs	97.35	97.35	97.35
PSO Attainment (normalized to 3)	2.92	2.92	2.92

Course Code	CO	PSO1	PSO2	PSO3
RME-852	CO1	RME-852.1	2.92	2.92
	CO2	RME-852.2	2.92	2.92
	CO3	RME-852.3	2.92	2.92
	CO4	RME-852.4	2.92	2.92
	CO5	RME-852.5	2.92	2.92
PSO Attainments		RME-852	2.92	2.92

Course Name
Course Code
Batch
Semester
Session
L:T:P

Project
RME-852
2015 2019
8
2018 2019
0.0.12

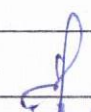
CO Attainment Gap

Course Code	CO	CO Targets	CO Attainment	CO Attainment Gap (Target - Attainment)
RME-852	CO1	80	96.7	-16.70
	CO2	80	97.79	-17.79
	CO3	80	97.43	-17.43
	CO4	80	97.79	-17.79
	CO5	80	97.06	-17.06

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	-16.70		Target is retained as same
	CO2	80	-17.79		Target is retained as same
	CO3	80	-17.43		Target is retained as same
	CO4	80	-17.79		Target is retained as same
	CO5	80	-17.06		Target is retained as same


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