

ADITYA ENGINEERING COLLEGE(A)

PROGRAM OUTCOME ATTAINMENT STATEMENT

BRANCH	MECHANICAL ENGINEERING											REGULATION		AR17				
YEAR OF ADMISSION	2017																	
COURSE CODE	COURSE NAME	SEM	CO ATTAINMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
17_ME_101	English - I	1	1.2										1.2					
17_ME_102	Mathematics - I	1	1.48	1.48	0.98													
103	Environmental Studies	1	1.59			1.23			0.85	1.59								
104	Engineering Chemistry	1	1.38	1.10														
105	Engineering Mechanics	1	1.6	1.33	0.89	0.52										0.98		
106	Computer Programming	1	1.6	0.62	1.36	1.25	1.56									1.24		
107	English Communication Skills Lab-I	1	2.94					0.98					2.94		1.37			
108	Engineering Chemistry Lab	1	2.4	1.60						0.80		0.80	0.80		0.80			
109	Computer Programming Lab	1	2.95		2.16	1.97	2.46	1.97								1.97		
17_ME_201	English - II	2	0.88					0.50		0.47			1.48					
202	Mathematics - II	2	0.97	0.97	0.34													
203	Mathematics - III	2	0.93	0.93	0.62													
204	Engineering Physics	2	1.41	1.04	0.75													
205	Engineering Drawing	2	1.32	1.32	0.88	0.44		1.32								0.88		

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COURSE CODE	COURSE NAME	SEM	CO ATTAINMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
206	Basic Electrical and Electronics Engineering	2	0.64	0.21	0.34	0.38	0.47										
207	English Communication Skills Lab-II	2	2.93										2.93		1.96		
208	Engineering Physics Lab	2	2.06	1.92				1.92									
209	Engineering Workshop and IT Workshop	2	2.94	1.96	0.98							0.98			0.98		
301	Metallurgy And Material Science	3	1.01	0.34					0.34	0.34						0.34	
302	Mechanics Of Solids	3	0.9	0.90	0.60	0.42				0.30						0.30	
303	Thermodynamics	3	0.83	0.72	0.49	0.28	0.28										0.28
304	Managerial Economics and Financial Analysis	3	1.19	0.38	0.38							0.51	0.82	0.58			
305	Fluid Mechanics and Hydraulic Machinery	3	1.10	0.37	0.37												0.37
306	Computer Aided Engineering Drawing Practice	3	1.33	0.44				1.33					0.89		1.33	0.89	
307	Basic Electrical and Electronics Lab	3	1.32	1.10	0.66	0.44											
308	Mechanics Of Solids and Metallurgy Lab	3	2.95	1.97	1.57						1.97					0.98	
401	Kinematics Of Machinery	4	1.08	0.58	0.57	0.34									0.36	0.36	
402	Thermal Engineering - I	4	0.96	0.76	0.57	0.51	0.31		0.34							0.58	
403	Production Technology	4	0.8	0.66				0.46							0.27	0.56	
404	Design Of Machine Members-I	4	1.66	1.34	1.21	0.97	0.97									0.55	
405	Industrial Engineering and Management	4	0.84						0.28		0.61	0.67	0.73	0.58	0.59	0.26	
406	Machine Drawing	4	1.7	1.60		0.57							1.70			1.13	

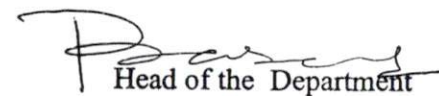
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COURSE CODE	COURSE NAME	SEM	CO ATTAINMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
407	Intellectual Property Rights and Patents	4	0.97								0.97				0.65		
408	Production Technology Lab	4	2.96	2.56	1.58								2.63	1.97		1.97	
409	Fluid Mechanics and Hydraulic Machinery Lab	4	2.95	2.75	1.97					0.98					1.97		1.97
501	Dynamics Of Machinery	5	1.46	0.60	0.89										0.49	0.97	
502	Metal Cutting And Machine Tools	5	0.66	0.28	0.28				0.22						0.22	0.22	
503	Thermal Engineering – II	5	0.71	0.69	0.47	0.40	0.47										0.59
504	Design Of Machine Members-II	5	1.05	0.98	0.63	0.59		0.70	0.65							0.40	
505	Operations Research	5	0.49	0.33	0.16				0.16						0.16	0.49	
506	Automobile Engineering (P.E– I)	5	1.02	0.72	0.38	0.42	0.51			0.71		0.99					0.79
507	Employability Skills – III	5	2.41	2.25	1.61			2.43	2.15	2.42	2.15	2.41	2.41		2.42	2.41	1.61
508	Theory Of Machines Lab	5	2.06	2.06	1.88				2.06	2.06		2.05	2.06	2.05		2.05	1.83
509	Thermal Engineering Lab	5	1.51	1.37	0.94		0.67			1.51			1.51		1.51	1.51	1.18
601	Heat Transfer	6	1.54	1.54	0.51												0.51
602	Refrigeration And Air –Conditioning	6	0.79	0.69	0.49	0.72	0.48	0.56	0.30	0.20							0.62
603	Metrology And Instrumentation	6	2.25	1.51	1.34											0.84	
604	ROBOTICS (P.E– II)	6	1.6	0.97	1.04			0.91						0.97		1.55	
604	Design For Manufacturing (P.E– II)	6	1.16	0.93	0.69	0.45										0.39	
604	Non-Destructive Evaluation (P.E– II)	6	2.45	1.64	1.14	1.21	1.07	1.67	2.40			2.51	1.61	1.69		1.38	

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COURSE CODE	COURSE NAME	SEM	CO ATTAINMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
605	Unconventional Machining Processes (P.E- III)	6	1.38	1.09				0.92								1.09	
605	Industrial Hydraulics and Pneumatics (P.E- III)		0.90			0.34		0.65		0.86							0.85
607	Machine Tools Lab	6	2.96	1.58	1.38								1.97		1.97	1.77	
608	Heat Transfer Lab	6	2.95	2.95	1.97							1.97	1.97				1.97
609	Metrology / Instrumentation Lab	6	2.95	1.97	2.95		0.98							2.95		0.98	
610	Employability Skills - IV	6	0.25	0.09									0.16		0.08		
701	CAD / CAM	7	1.51	1.01	0.92				1.27		1.27				0.53	0.50	
702	Mechatronics	7	1.45	0.39	0.75	0.77		0.73	0.39					0.59		0.39	
703	Finite Element Methods	7	1.35	1.19	0.83	1.10		1.00				1.04				1.15	
704	Power Plant Engineering	7	1.25	0.93	0.46					0.41					0.41		0.42
705	Green Engineering Systems (P.E- IV)	7	1.69	0.56	0.52		0.52		0.56	1.19							0.56
706	Flexible Manufacturing Systems (P.E- V)	7	1.49					0.89		1.34						0.85	
707	CAD / CFD Lab	7	1.33		1.18								1.33		1.34	1.34	
708	CAM / Mechatronics Lab	7	2.41	2.41	1.77		0.97							2.41		2.41	
709	Industry Oriented (Internship) Minor Project	7	2.95	1.48	0.99	0.98	0.98	1.96	0.98	0.98	1.96	0.98	0.98	0.99	0.99	1.48	0.98
801	Production Planning and Control (P.E- VI)	8	2.36	1.90	1.51	0.76		1.16	0.79						0.74	1.30	
802	Entrepreneurship and Resource Planning (Open Elective)	8	1.11	0.37					0.37	0.37				0.37			
803	Major Project	8	2.96	1.32	1.98	2.96	1.97	2.96	1.98	1.98	1.98	0.99	1.97	0.99	0.99	0.99	0.99
	DIRECT PO ATTAINMENT (Assessment Reports)			1.17	1.00	0.80	0.92	1.25	0.89	1.03	1.56	1.33	1.60	1.35	0.96	1.04	0.97
	ALUMNI SURVEY			2.48	2.36	2.32	2.48	0.00	2.32	2.48	2.48	2.32	2.36	2.48	2.32	2.36	2.36

COURSE CODE	COURSE NAME	SEM	CO ATTAINMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
	EMPLOYER SURVEY			2.85	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.70	2.85	2.70	2.70	2.70	2.55
	PARENTS' SURVEY			2.39	2.17	2.46	2.43	2.43	2.32	2.38	2.23	2.31	2.34	2.39	2.34	2.36	2.36
	PROGRAM EXIT SURVEY			2.70	2.41	2.58	2.52	2.50	2.46	2.51	2.49	2.50	2.56	2.48	2.53	2.93	2.90
	INDIRECT PO ATTAINMENT (Survey Reports)			2.61	2.37	2.48	2.50	1.87	2.41	2.48	2.44	2.46	2.53	2.51	2.47	2.59	2.54
	Equivalent Indirect PO Attainment			1.95	1.38	1.19	1.87	1.08	1.05	1.57	2.03	1.15	2.21	1.49	1.30	1.41	1.70
	FINAL PROGRAM OUTCOME ATTAINMENT (90% of Direct Attainment + 10% of Indirect Attainment)			1.25	1.04	0.84	1.01	1.23	0.91	1.08	1.61	1.31	1.66	1.36	1.00	1.08	1.04
	PO MAPPING STRENGTH			2.24	1.75	1.44	2.25	1.73	1.30	1.90	2.50	1.40	2.62	1.78	1.58	1.64	2.00
	PROGRAMME OUTCOME GAP			0.99	0.71	0.60	1.24	0.50	0.39	0.82	0.89	0.09	0.96	0.42	0.58	0.56	0.96


 Head of the Department
 Head of the Department
 Department of Mechanical Engineering
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ADITYA ENGINEERING COLLEGE(A)

COURSE INPUT DATA

ACADEMIC YEAR	2020-2021	SEMESTER	VII
BRANCH	MECHANICAL ENGINEERING	REGULATION	AR17
COURSE	GREEN ENGINEERING SYSTEMS	COURSE CODE	171ME7E11
COURSE INSTRUCTOR	Mr.Rajesh Kumar		

COURSE OUTCOMES

CO1	Describe the principles and working of solar radiation and solar radio Collection													
CO2	Explain the principles and working of solar, wind, biomass, geothermal, ocean energies.													
CO3	Illustrate energy efficient electrical and mechanical systems													
CO4	Analyse energy efficient processes.													
CO5	Select proper site/materials, for green buildings.													
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	1		1		1	-							1
CO2	1	1		1		1	-							1
CO3	1					1	2							1
CO4	1					1								1
CO5	1					1	2							1
MAPPING STRENGTH	1.00	1.00		1.00		1.00	2.00							1.00

ACHIEVEMENT TARGETS FOR COURSE OUTCOMES %

CO1	60.00%
CO2	60.00%
CO3	60.00%
CO4	60.00%
CO5	60.00%

Signature of the Course Instructor

Rajesh Kumar

Name & Signature of Course Coordinator

Rajesh Kumar

Name & Signature of HOD

Dr. B. Varaprasad
Head of the Department

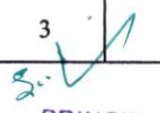
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SESSIONAL -1 DATA

ACADEMIC . YEAR	2020-2021				SEMESTER		VII	
BRANCH	MECHANICAL ENGINEERING				REGULATION		AR17	
COURSE NAME	GREEN ENGINEERING SYSTEMS				COURSE CODE		171ME7E11	
DATE OF THE EXAMINATION	29-01-2021				SESSIONAL		I	
COURSE INSTRUCTOR	Mr.Rajesh Kumar							
	Descriptive-I						Assignment-I	Objective-I
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO1	CO1	CO2	CO2	CO2	CO3	ALL	ALL
17A91A0301	2	3	3	3	2	2	6	8
17A91A0302	3	3	3	3	3	2	6	8
17A91A0303	4	4	4	4	3	3	6	8
17A91A0304	4	4	3	3	2		6	8
17A91A0305	4	4	4	3	3	4	6	8
17A91A0306	2	2	2	3	2	2	6	8
17A91A0307	4	4	4	4	4	3	6	8
17A91A0308	4	4	4	4	3	4	6	8
17A91A0309	2	3	3	3	3	4	6	8
17A91A0310	2	3	2	2	2	2	6	8
17A91A0311	4	4	4	4	4	4	6	8
17A91A0313	2	2	3	1	0	1	6	9
17A91A0314	4	4	4	4	4	4	6	8
17A91A0315	4	4	3	2	4	3	5	8
17A91A0316	2	2	3	3	3	3	6	8
17A91A0317	2	3	3	1	3	3	6	9
17A91A0318	2	3	3	1	4	3	6	9


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	Descriptive-I						Assignment-I	Objective-I
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO1	CO1	CO2	CO2	CO2	CO3	ALL	ALL
17A91A0319	3	3	0	2	1	3	6	8
17A91A0320	2	3	2	2	3	1	6	8
17A91A0321	2	3	2	2	3	1	6	8
17A91A0322	1	3	3	3	2	1	6	8
17A91A0323	3	3	3	2	2	3	6	8
17A91A0324		0					5	7
17A91A0325	4	3	4	4	3	2	5	7
17A91A0326	2	1	2	2	1	1	5	7
17A91A0327	2	3	2	3	3	3	6	8
17A91A0328	4	3	3	4	3	2	5	7
17A91A0329	0	1	2		0		5	7
17A91A0330	3	4	4	4	3	3	6	8
17A91A0331	4	3	3	4	4	3	6	8
17A91A0332	3	2	2	2	2	2	6	9
17A91A0333	3	3	3	3	3	2	6	8
17A91A0335	1	1	3	3	2		6	9
17A91A0336	4	4	4	4	3	3	6	9
17A91A0337	3	3	4	3	2	3	6	9
17A91A0338	4	3	2	2	2	2	5	6
17A91A0339	2	3	3	3	3	2	5	7
17A91A0340	3	3	2	3	3	2	6	8
17A91A0341	4	4	4	4	4	3	6	7
17A91A0342	4	3		3	3	3	5	7
17A91A0343	3	4	2	3	4	4	6	8

	Descriptive-I						Assignment-I	Objective-I
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO1	CO1	CO2	CO2	CO2	CO3	ALL	ALL
17A91A0344	4	4	4	4	4	4	6	8
17A91A0345	3	3	3	2	2	3	5	7
17A91A0346	3	3	3	3	2	2	6	8
17A91A0347	3	4	3	3	3	1	6	8
17A91A0349	A	A	A	A	A	A	5	A
17A91A0350	2	4	4	4	4	4	5	7
17A91A0351	2	3	3	2	3	2	6	8
17A91A0352	2	2	2	3	3	3	6	8
17A91A0353	2	3	3	3	1	2	6	8
17A91A0354	2	4	4	4	2	2	5	6
17A91A0355	4	4	4	3	4	3	6	8
17A91A0357	4	3	3	3	2	3	6	9
17A91A0358	4	4	4	3	4	4	6	9
17A91A0359	4	4	4	4	4	4	6	10
17A91A0360	3	3	3	4	4		6	9
17A91A0361	3	4	3	4	4	3	6	9
17A91A0362	3	4	3	4	4	4	6	8
17A91A0363	3	3	4	3	2	0	4	8
17A91A0364	4	4	4	4	4	4	6	8
17A91A0366	3	4	1	3	1	2	4	8
17A91A0367	4	4	4	3	4	4	6	8
17A91A0368	4	3	3	4	3	2	6	9
17A91A0369	4	4	4	3	4	4	6	10
17A91A0370	3	4	4	4	4	4	6	8

	Descriptive-I						Assignment-I	Objective-I
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO1	CO1	CO2	CO2	CO2	CO3	ALL	ALL
17A91A0371	4	3	3	4	3	2	6	8
17A91A0372	4	4	3	3	3	2	6	8
17A91A0373	3	3	3	3	3	2	6	8
17A91A0374	4	4	4	4	4	4	6	8
17A91A0375	3	4	4	4	4	4	6	9
17A91A0376	3	3	4	4	3	3	6	9
17A91A0377	3	4	4	4	4	4	6	9
17A91A0378	4	4	4	3	0	3	6	9
17A91A0379	3	4	4	3	2	2	6	9
17A91A0380	4	4	4	4	4	2	6	9
17A91A0381	2	4	3	4	4	2	6	8
17A91A0383	4	4	4	4	4	4	6	8
17A91A0384	4	4	4	4	4	4	6	8
17A91A0385	3	3	3	4	3	2	6	8
17A91A0386	3	3	4	3	2	0	5	8
17A91A0387	3	3	4	4	3	2	6	8
17A91A0388	4	4	4	4	4	4	6	9
17A91A0389	3	4	4	4	3	4	6	9
17A91A0391	4	4	4	4	4	4	6	9
17A91A0392							3	
17A91A0394	2	0	0	0	0	1	3	9
17A91A0396	1	0	0	0	0	0	3	9
17A91A0397	4	1	0	4	4	1	4	7
17A91A0398	4	4	0	4	4	2	6	9

	Descriptive-I						Assignment-I	Objective-I
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO1	CO1	CO2	CO2	CO2	CO3	ALL	ALL
17A91A0399	4	4	4	4	4	3	6	8
17A91A03A1	4	4	4	4	3	0	6	9
17A91A03A2	3	4	3	4	4	2	6	9
17A91A03A3	3	4	0	4	4	0	5	6
17A91A03A4	3	4	4	4	4	3	6	7
17A91A03A5	4	4	4	4	4	4	6	8
17A91A03A6	4	4	4	4	4	4	6	7
17A91A03A7	4	4	4	4	4	2	6	8
17A91A03A9	4	4	4	4	3	2	6	8
17A91A03B0	4	4	4	3	3	4	6	8
17A91A03B2	4	4	4	4	4	2	6	7
17A91A03B4	4	4	4	4	4	3	6	7
17A91A03B5	2	4	3	3	3	2	6	7
17A91A03B6	4	4	4	4	4	4	6	7
17A91A03B7	4	4	4	4	4	4	6	6
17A91A03B9	4	4	3	4	4	3	6	5
17A91A03C0	4	4		4	4	2	6	8
17A91A03C1	4	4		4	4	2	4	8
17A91A03C2	A	A	A	A	A	A	4	A
17A91A03C3	4	4	4	4			4	8
17A91A03C4	4	4	4	4	2		6	8
17A91A03C5	4	4	4	4	2		6	8
17A91A03C6	3	4	4	4	4	2	6	8
17A91A03C7	4	4	4	4	4		4	8

	Descriptive-I						Assignment-I	Objective-I
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO1	CO1	CO2	CO2	CO2	CO3	ALL	ALL
17A91A03C8	3	3	3	3	3	3	6	8
17A91A03C9	4	4	4	4	4	4	6	8
17A91A03D0	4	4	4	4	4	4	6	8
17A91A03D1	4	4	4	4	4	4	6	8
17A91A03D2	4	4	4	4	2		6	8
17A91A03D3	4	3	4	3	4	3	6	8
17A91A03D4	4	4	4	4	4	4	6	8
17A91A03D5	4	3	4	3	4	3	4	8
17A91A03D6	4	4	4	4	4	4	6	8
17A91A03D7	4	4	4	4	4	2	4	8
17A91A03D8	4		4	4	4	4	6	4
17A91A03D9	4	4	4	4		4	6	7
17A91A03E0	4	4	4	2	4	3	6	7
17A91A03E1	4	4	4	4	4	4	6	7
17A91A03E2	4	4	4	4	4	4	6	8
17A91A03E3	4	4	4	4	4	4	6	8
17A91A03E4	4	4	4	4	4	4	6	7
17A91A03E5	4	4	4	4	2	2	6	6
17A91A03E6	4	4	4	4			4	6
17A91A03E7	3	1	3	3	0		6	7
17A91A03E9	4	3	4	3	4	3	4	6
17A91A03F0	4	4	4	4	4	4	6	8
17A91A03F1	1	2	1	1	2	2	4	8
17A91A03F2	4	4	4	4	4	4	6	8

	Descriptive-I						Assignment-I	Objective-I
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO1	CO1	CO2	CO2	CO2	CO3	ALL	ALL
17A91A03F3	4	4	4	4		4	6	8
17A91A03P5	4	4	4	4		4	6	8
17A91A03F6	4	4	4			4	6	7
17A91A03F7	2	0	1	2			6	3
17A91A03F8	3	3	3	3		2	6	6
17A91A03F9	3	3	3	3	3	3	6	7
17A91A03G0	4	4	4	4	4	4	6	8
17A91A03G1	4	3	4	3	4	3	4	7
17A91A03G2	4	4	4	4	4	4	4	7
17A91A03G3	4	4	4	4	4		4	2
17A91A03G4	4	4	4	4	4	4	4	8
17A91A03G5	A	A	A	A	A	A		
17A91A03G6	2	2		1			6	7
17A91A03G8	2	2	2	2	2	2	4	5
17A91A03G9	4	4	4	4	4	2	6	7
17A91A03H0	2	2	2	2	3	1	4	7
17A91A03H1	4	4	2	2			4	7
17A91A03H3	4	4	4	4	4	2	6	7
17A91A03H5	4	4	4	0	4	0	4	3
17A91A03H6	1	1	1	1	1	1	4	4
17A91A03H7	1	0					6	8
17A91A03H9	4	4	4	4	2	2	4	8
17A91A03I0	1						4	6
18A95A0301	4	4	4	4	4	4	6	9

	Descriptive-I						Assignment-I	Objective-I
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO1	CO1	CO2	CO2	CO2	CO3	ALL	ALL
18A95A0302	4	4	4	4	4	4	6	9
18A95A0303	2	3	3	3	2	2	6	9
18A95A0304	2	3	4	4	2	2	6	10
18A95A0305	2	4	4	3	4	3	6	10
18A95A0306	2	4	4	4	4	3	6	9
18A95A0307	2	4	4	4	1	3	6	9
18A95A0308	2	4	3	3	3	3	6	9
18A95A0309	3	4	4	4	3	3	6	9
18A95A0310	2	3	3	3	2	1	6	9
18A95A0311	2	4	4	3	4	4	6	8
18A95A0312	3	4	4	4	4	4	6	9
18A95A0313	2	4	3	3	3	4	6	8
18A95A0314	3	4	4	4	4	4	6	9
18A95A0315	2	4	4	4	4	4	6	9
18A95A0316	3	4	4	4	3	3	6	9
18A95A0317	4	4	4	4	3	4	6	9
18A95A0318	2	4	4	4	4	3	6	9
18A95A0319	2	4	4	4	3	2	6	9
18A95A0320	3	4	4	4	4	2	6	9
18A95A0321	3	4	4	4	4	3	6	9
18A95A0322	3	4	4	4	4	3	6	9
18A95A0323	4	3	0	4	2	2	5	9
18A95A0324	4	4	4	4	4	4	6	9
18A95A0325	3	4	4	3	4	3	6	9

	Descriptive-I						Assignment-I	Objective-I
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO1	CO1	CO2	CO2	CO2	CO3	ALL	ALL
18A95A0326	2	4	4	4	4	4	6	9
18A95A0327	4	4	4	4	4	4	6	9
18A95A0328	4	3	4	3	4	3	6	9
18A95A0329	4	4	4	4	4	4	6	9
18A95A0330	4	4	4	4	4	4	6	9
18A95A0331	4	4	4	4	4	4	6	9
18A95A0332	4	4	4	4	4	2	6	9
18A95A0333	4	4	4	4	4	4	6	9
18A95A0334	1	0	1	0	0	0	4	9
18A95A0335	4	4	4	4	4	4	6	9
18A95A0336	4	4	4	4	4	4	6	9
18A95A0337							4	
18A95A0338	2	2	1	1	1	2	6	10
18A95A0339	4	4	4	4	4	2	6	9
18A95A0340	4	4	4	4	4	4	6	9
TARGET PERCENTAGE in CO (Instructor fixed)	60.00%	60.00%	60.00%	60.00%	60.00%	60.00%	60.00%	60.00%
MARKS SATISFYING TARGET PERCENTAGE	2.4	2.4	2.4	2.4	2.4	2.4	3.6	6.0
NO. OF STUDENTS >= TARGET PERCENTAGE	146	171	160	163	140	109	196	188
COURSE OUTCOME	CO1	CO1	CO2	CO2	CO2	CO3	ALL	ALL
CO ATTAINMENT %	74%	87%	84%	84%	76%	61%	98%	95%

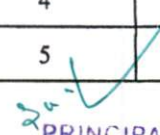
	Descriptive-I						Assignment-I	Objective-I
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO1	CO1	CO2	CO2	CO2	CO3	ALL	ALL
Attainment levels results	CO1	CO1	CO2	CO2	CO2	CO3	ALL	ALL
CO ATTAINMENT LEVEL	2	3	3	3	2	1	3	3
ANALYSIS OF ATTAINMENTS	CO1	CO1	CO2	CO2	CO2	CO3	FINAL ATTAINMENT VALUE (average of all individual CO's and combined Assignment &Objective)	
CO1	2	3					2.83	
CO2			3	3	2		2.89	
CO3						1	2.33	
CO4							0.00	
CO5							0.00	
	LEVELS ALLOCATED BASED ON TARGETS ATTAINED							
	First level		1	means 60% students attained more than target %				
	Second level		2	means 70% students attained more than target %				
	Third level		3	means 80% students attained more than target %				


 PRINCIPAL
 Aditya Engineering College
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ADITYA ENGINEERING COLLEGE(A)

SESSIONAL -2 DATA

BRANCH	MECHANICAL ENGINEERING				REGULATION		AR17	
COURSE NAME	GREEN ENGINEERING SYSTEMS				COURSE CODE		171ME7E11	
DATE OF THE EXAMINATION	04-03-2021				SESSIONAL		II	
COURSE INSTRUCTOR	Mr.Rajesh Kumar							
	Descriptive-II						Assignment-II	Objective-II
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO2	CO3	CO4	CO4	CO5	CO5	ALL	ALL
17A91A0301	3	2	2	3	3	3	6	8
17A91A0302	3	3	3	3	3	3	6	8
17A91A0303	4	4	4	4	4	4	6	8
17A91A0304	3	4	4	2	4	3	6	8
17A91A0305	4	4	4	4	4	3	6	9
17A91A0306	3	3	4	3	3	2	5	10
17A91A0307	3	4		3	2	2	5	9
17A91A0308	3	4	3	4	3	3	6	10
17A91A0309	3	4	4	3	4	4	6	9
17A91A0310	3	3	3	3	3	3	5	9
17A91A0311	4	4	4	4	3	3	6	9
17A91A0313	1	2	3	3	2	3	5	9
17A91A0314	3	4	4	3	4	4	6	10
17A91A0315	3	4	4	3	4	3	6	10
17A91A0316	3	3	3	3	3	2	5	10
17A91A0317		4	3	2	3	1	4	10
17A91A0318		4	2	3	2	1	4	10
17A91A0319		2	2	3	1		4	9
17A91A0320	3	3	4	3	3	3	6	10
17A91A0321	3	3	3	3	3	1	6	10
17A91A0322	3	3	3	3	3	3	5	10
17A91A0323	1	4	4	3	3	1	5	10
17A91A0324	2	3	2		1	3	4	10
17A91A0325	3	4	4	3	3	2	5	10


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	Descriptive-II						Assignment-II	Objective-II
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO2	CO3	CO4	CO4	CO5	CO5	ALL	ALL
17A91A0326	2	4	4	1	4	2	5	10
17A91A0327	3	4	4	3	4	3	6	10
17A91A0328	4		3	3	3	3	5	9
17A91A0329		3	4		0		4	10
17A91A0330	3	3	3	3	3	3	5	10
17A91A0331	3	3	4	3	4	2	5	10
17A91A0332	2	3	2	3	2	2	5	9
17A91A0333	3	4	4	3	3	1	5	10
17A91A0335	3	2	2	2	2	2	5	9
17A91A0336	2	4	3	3	3	3	5	10
17A91A0337	2	3	2		2	2	5	10
17A91A0338	3	3	3	3	3	3	6	9
17A91A0339	3	4		3	1	2	4	10
17A91A0340	4	4	4	3	4	3	6	10
17A91A0341	4	4	4	4	4	4	6	10
17A91A0342	3	4	3	2	4		5	10
17A91A0343	4	4	4	4	3	3	6	10
17A91A0344	4	3	4	4	4	4	6	10
17A91A0345	3	4	3	3	3	3	5	10
17A91A0346	3	4	4	3	4	3	6	10
17A91A0347	3	4	4	3	4	3	6	10
17A91A0349	A	A	A	A	A	A	6	A
17A91A0350	4	4	4	4	4	4	6	10
17A91A0351	3	4	4	3	3	2	5	10
17A91A0352	3	2	3	3	4		5	7
17A91A0353	3	3	2	2	4	2	5	10
17A91A0354	4	4	4	4	4	4	6	10
17A91A0355	3	4	4	4	4	4	6	10
17A91A0357	2	3	2	2	2	2	5	10
17A91A0358	2	4	3	3	3	3	5	10
17A91A0359	4	4	4	4	3	4	6	10
17A91A0360	3	4	3	3	3	3	6	9

	Descriptive-II						Assignment-II	Objective-II
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO2	CO3	CO4	CO4	CO5	CO5	ALL	ALL
17A91A0361	3	4	4	4	4	3	6	10
17A91A0362	4	4	4	4	3	4	6	10
17A91A0363		4	3			3	3	10
17A91A0364	3	4	4	4	4	4	6	10
17A91A0366	3	4	1	2			3	10
17A91A0367	3	3	4	4	3	3	6	9
17A91A0368	2	4	3	3	3	3	5	10
17A91A0369	4	4	4	4	3	2	6	10
17A91A0370	3	4	4	4	4	4	6	10
17A91A0371	4	4	3	3	3	3	6	10
17A91A0372	3	4	3	3	3	3	5	10
17A91A0373	2	4	2				3	10
17A91A0374	4	4	4	4	4	4	6	9
17A91A0375	4	4			4	2	4	9
17A91A0376	4	4	4	4	3	4	6	9
17A91A0377	4	4	4	3	3	4	6	10
17A91A0378	4	4	3	3	4		5	10
17A91A0379	2	4	3	3	2		4	9
17A91A0380	3	2	3		3		4	8
17A91A0381	3	4	2	3	2	2	4	8
17A91A0383	4	4	4	4	3	4	6	9
17A91A0384	4	4	4	4	3	3	6	10
17A91A0385	3	4	3	2	3	2	5	8
17A91A0386	2						3	10
17A91A0387	3	4	2	2	3	3	5	8
17A91A0388	4	4	4	4	4	4	6	10
17A91A0389	2	4	4	3	3	1	5	10
17A91A0391	4	4	4	3	4	3	6	9
17A91A0392	3	4	2	3	4	4	6	9
17A91A0394	4	2	4	2			4	10
17A91A0396	3	3	3	0	3	1	4	10
17A91A0397	4	4	2	3	4	2	5	10

	Descriptive-II						Assignment-II	Objective-II
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO2	CO3	CO4	CO4	CO5	CO5	ALL	ALL
17A91A0398	2	3	3	3			4	10
17A91A0399	3	4	4	3	3	4	6	10
17A91A03A1	3	4	4	4	2	2	5	9
17A91A03A2	3	4	1	3	3	2	5	10
17A91A03A3		3	2	3	2	2	4	10
17A91A03A4	2	4	3	2	3	2	5	10
17A91A03A5	3	4	4	4	4	3	6	10
17A91A03A6	3	4	3	3	4	3	6	9
17A91A03A7	3	4	4	4	4	4	6	10
17A91A03A9	4	4	4	4	4	3	6	10
17A91A03B0	3	4		4	4	4	5	10
17A91A03B2	3	3	4	3	2		5	10
17A91A03B4	3	3	4	3	3	4	6	10
17A91A03B5		2	2				4	9
17A91A03B6	4	4	3	3	4	3	6	9
17A91A03B7	4	4	4	4	4	3	6	10
17A91A03B9	4	3	4	3	4	3	6	10
17A91A03C0		4	4				6	9
17A91A03C1	4		4				6	9
17A91A03C2	3	3	3	3	4	4	6	10
17A91A03C3		3	3	3			6	10
17A91A03C4		4	4				6	10
17A91A03C5		4	4				6	10
17A91A03C6	3	3					6	9
17A91A03C7	3	3		2			6	9
17A91A03C8	4	3	4	3	4	3	6	10
17A91A03C9	4	4	4	4	4	3	6	10
17A91A03D0	2	2	2	2	2	2	6	10
17A91A03D1	4	3	4	3	4	4	6	10
17A91A03D2					3	3	6	10
17A91A03D3	4	3	4	4	4	3	6	10
17A91A03D4			2				6	10

	Descriptive-II						Assignment-II	Objective-II
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO2	CO3	CO4	CO4	CO5	CO5	ALL	ALL
17A91A03D5	4	2	2				6	10
17A91A03D6	4	4	3	3	4	4	6	10
17A91A03D7	2	2	2				6	10
17A91A03D8	4	4	4	4	4	4	6	10
17A91A03D9	3	3	3	3	3	3	6	10
17A91A03E0	3	3	3	3	3	3	6	10
17A91A03E1	4	4	4	4	3	3	6	10
17A91A03E2	2		2	2	2	2	6	10
17A91A03E3	4	3	4	4	3	3	6	10
17A91A03E4	4	4	4	4	4	3	6	10
17A91A03E5	2	2	2	2	2	2	6	10
17A91A03E6	3	3	3	3	4	4	6	10
17A91A03E7	4	4	4	4	4	4	6	10
17A91A03E9	4	4	4	4	3	3	6	10
17A91A03F0	4	4	4	4	4	4	6	10
17A91A03F1	1						6	7
17A91A03F2	4	4	4	4	3	3	6	9
17A91A03F3	4	3	3	4	3	2	6	10
17A91A03F5	2	2	2	2	2		6	10
17A91A03F6	3	3	3				6	9
17A91A03F7	2	2			2	2	6	10
17A91A03F8		2	2	2	2	2	6	10
17A91A03F9	3	3	2	2	2	2	6	10
17A91A03G0	3	3	3	3	3	3	6	10
17A91A03G1	A	A	A	A	A	A	6	A
17A91A03G2			2	2	1	1	6	2
17A91A03G3	3		4	4			6	3
17A91A03G4	2	3	2	3	2		6	10
17A91A03G5	A	A	A	A	A	A		
17A91A03G6	3	3	4	4	3	3	6	10
17A91A03G8		2					6	10
17A91A03G9	3		3	1			6	10

	Descriptive-II						Assignment-II	Objective-II
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO2	CO3	CO4	CO4	CO5	CO5	ALL	ALL
17A91A03H0	4	4	4	4	4	4	6	10
17A91A03H1	3	3	3	3	4	4	6	10
17A91A03H3	2	2	2	2	3	3	6	10
17A91A03H5	1	1		2			6	10
17A91A03H6	4	4	4	4	4	4	6	10
17A91A03H7	2	2	2	2	2	2	6	10
17A91A03H9	4	4	4	4	4	4	6	10
17A91A03I0	4	4	4	4	4	4	6	10
18A95A0301	3	3	3	4	3	3	5	10
18A95A0302	4	4	4	4	4	3	6	10
18A95A0303	3	3	3	3	3	3	5	9
18A95A0304	3	4	3	3	3	3	5	9
18A95A0305	3	4	3	4	2		5	10
18A95A0306	3	4	3	3	3	2	5	10
18A95A0307	3	4	4	3	4	3	6	10
18A95A0308	3	4	3	3	3	3	6	10
18A95A0309	4	4	4	4	4	4	6	9
18A95A0310	3	4	3	3	4	3	6	10
18A95A0311	3	4	4	3	4	4	6	10
18A95A0312	3	4	4	4	4	4	6	10
18A95A0313	3	4	4	4	4	4	6	10
18A95A0314	3	4	4	4	4	3	6	10
18A95A0315	3	4	4	4	4	3	6	10
18A95A0316	3	4	4	4	4	3	6	10
18A95A0317	4	4	4	4	4	3	6	10
18A95A0318	4	4	3	4	3	4	6	10
18A95A0319	4		3	4	4	4	6	9
18A95A0320	4	4	4	2	4	4	6	9
18A95A0321	3	4	4	4	4	4	6	10
18A95A0322	3	4	3	4	3	3	6	10
18A95A0323	4	3	3	4	3	2	6	10
18A95A0324	3	4	4	4	4	4	6	10

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	Descriptive-II						Assignment-II	Objective-II
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO2	CO3	CO4	CO4	CO5	CO5	ALL	ALL
18A95A0325	3	4	4	3	3	3	5	9
18A95A0326	4	4	4	4	4	3	5	10
18A95A0327	3	4	4	4	4	4	6	10
18A95A0328							6	10
18A95A0329							6	10
18A95A0330	1						6	10
18A95A0331							6	10
18A95A0332							6	10
18A95A0333	3	3	4	4	3	3	6	10
18A95A0334	4	4	4	4	4	4	6	8
18A95A0335	4	4	4	4	4	4	6	10
18A95A0336	1						6	10
18A95A0337	4	4	4	4	4	4	6	10
18A95A0338	3	3	3	3	2	2	6	10
18A95A0339		3					6	10
18A95A0340							6	10
TARGET PERCENTAGE in CO (Instructor fixed)	60.00%	60.00%	60.00%	60.00%	60.00%	60.00%	60.00%	60.00%
MARKS SATISFYING TARGET PERCENTAGE	2.4	2.4	2.4	2.4	2.4	2.4	3.6	6.0
NO. OF STUDENTS >= TARGET PERCENTAGE	146	160	146	141	138	115	195	195
COURSE OUTCOME	CO2	CO3	CO4	CO4	CO5	CO5	ALL	ALL
CO ATTAINMENT	81%	82%	80%	79%	80%	79%	100%	97%
Attainment levels results	CO2	CO3	CO4	CO4	CO5	CO5	ALL	ALL
CO ATTAINMENT LEVEL	3	3	2	2	3	2	3	3


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	Descriptive-II						Assignment-II	Objective-II
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO2	CO3	CO4	CO4	CO5	CO5	ALL	ALL
ANALYSIS OF ATTAINMENTS	CO2	CO3	CO4	CO4	CO5	CO5	FINAL ATTAINMENT VALUE (average of all individual CO's and combined Assignment &Objective)	
CO1							0.00	
CO2	3						3.00	
CO3		3					3.00	
CO4			2	2			2.67	
CO5					3	2	2.83	
	LEVELS ALLOCATED BASED ON TARGETS ATTAINED							
	First level		1	ts attained more than target %				
	Second level		2	ts attained more than target %				
	Third level		3	ts attained more than target %				


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INDIRECT CO ATTAINMENT(SURVEY)

ACADEMIC YEAR	2020-2021	SEMESTER			VII			
BRANCH	MECHANICAL ENGINEERING	REGULATION			AR17			
COURSE	GREEN ENGINEERING SYSTEMS	COURSE CODE			171ME7E11			
COURSE INSTRUCTOR	Mr.Rajesh Kumar							
	COURSE OUTCOMES	Strongly Agree (5)	Agree (4)	Neither Agree nor Disagree (Neutral) (3)	Disagree (2)	Strongly Disagree (1)	Weighted Average(5)	CO ATTAINED THROUGH SURVEY
CO1	I have the ability to Describe the principles and working of solar radiation and solar radio Collection	77	70	5	2	2	4.40	2.64
CO2	I have the ability to Explain the principles and working of solar, wind, biomass, geothermal, ocean energies.	61	84	5	4	2	4.27	2.56
CO3	I have the ability to Illustrate energy efficient electrical and mechanical systems	66	76	8	4	2	4.28	2.57
CO4	I have the ability to Analyse energy efficient processes.	62	79	9	3	3	4.24	2.55
CO5	I have the ability to Select proper site/materials, for green buildings.	62	78	7	6	3	4.22	2.53

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TOTAL COURSE OUTCOME(CO) ATTAINMENT

ACADEMIC YEAR	2020-2021			SEMESTER	VII			
BRANCH	MECHANICAL ENGIENEERING			REGULATION	AR17			
COURSE	GREEN ENGINEERING SYSTEMS			COURSE CODE	171ME7E11			
COURSE INSTRUCTOR	Mr.Rajesh Kumar							
COURSE ARTICULATION MATRIX								
ANALYSIS OF ATTAINMENTS	S1	S2	CO ATTAINMENT Sessionals	CO ATTAINMENT External Exams (BET	DIRECT CO ATTAINMENT	INDIRECT CO ATTAINMENT	TOTAL CO ATTAINMENT	CO ATTAINEMENT %
CO1	2.83	0.00	2.83	0	1.13	2.64	1.28	42.79%
CO2	2.89	3.00	2.94	1	1.78	2.56	1.86	61.87%
CO3	2.33	3.00	2.67	0.5	1.37	2.57	1.49	49.56%
CO4	0.00	2.67	2.67	1	1.67	2.55	1.75	58.49%
CO5	0.00	2.83	2.83	1.5	2.03	2.53	2.08	69.44%
COURSE CO ATTAINMENT							1.69	56.43%

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ADITYA ENGINEERING COLLEGE(A)

CO ATTAINMENT GAPS

ACADEMIC YEAR	2020-2021	SEMESTER	VII
BRANCH	MECHANICAL ENGINEERING	REGULATION	AR17
COURSE	GREEN ENGINEERING SYSTEMS	COURSE CODE	171ME7E11
COURSE INSTRUCTOR	Mr.Rajesh Kumar		
	COURSE ARTICULATION MATRIX		
ANALYSIS OF ATTAINMENTS	CO TARGET %	CO ATTAINMENT %	CO ATTAINMENT GAP (Attainment-Target) %
CO1	60.00%	42.79%	-17.21%
CO2	60.00%	61.87%	1.87%
CO3	60.00%	49.56%	-10.44%
CO4	60.00%	58.49%	-1.51%
CO5	60.00%	69.44%	9.44%
Signature of the Course Instructor	<i>Rajesh Kumar</i>		
Name & Signature of Course Coordinator	<i>Rajesh Kumar Rajesh Kumar</i>		
Name & Signature of HOD	<i>Dr. Bh. Vasa Prasad Prasad</i>		

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BRIDGING THE ATTAINMENT GAP

ACADEMIC YEAR	2020-2021	SEMESTER	VII		
BRANCH	MECHANICAL ENGINEERING	REGULATION	AR17		
COURSE	GREEN ENGINEERING SYSTEMS	COURSE CODE	171ME7E11		
COURSE INSTRUCTOR	Mr.Rajesh Kumar				
COURSE ARTICULATION MATRIX					
ANALYSIS OF ATTAINMENTS	CO TARGET %	CO ATTAINMENT %	CO ATTAINMENT GAP (Attainment-Target) %	Action proposed to bridge the Gap	Modification of target where achieved
CO1	60.00%	42.79%	-17.21%	Need to Explain by Showing animated video.	
CO2	60.00%	61.87%	1.87%	—	Some target Continued
CO3	60.00%	49.56%	-10.44%	Need to include Electrical Instruments Video.	
CO4	60.00%	58.49%	-1.51%	Need to Utilize Engineering Videos.	
CO5	60.00%	69.44%	9.44%	—	Some target Continued
Signature of the Course Instructor		Rajesh Kumar			
Name & Signature of Course Coordinator		Rajesh Kumar (Rajesh Kumar)			
Name & Signature of HOD		Dr. B. V. V. Prasad Prasad			

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FINAL PROGRAM OUTCOME(PO) ATTAINMENT

ACADEMIC YEAR	2020-2021									SEMESTER	VII					
BRANCH	MECHANICAL ENGINEERING									REGULATION	AR17					
COURSE	GREEN ENGINEERING SYSTEMS									COURSE CODE	171ME7E11					
COURSE INSTRUCTOR	Mr.Rajesh Kumar															
COURSE OUTCOME	TOTAL CO ATTAINMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
COURSE ATTAINMENT	1.69															
MAPPING STRENGTH		1.00	1.00		1.00		1.00	2.00							1.00	
COURSE OUTCOME	TOTAL CO ATTAINMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
CO1	1.28	1	1	0	1	0	1	0	0	0	0	0	0	0	1	
CO2	1.86	1	1	0	1	0	1	0	0	0	0	0	0	0	1	
CO3	1.49	1	0	0	0	0	1	1	0	0	0	0	0	0	1	
CO4	1.75	1	0	0	0	0	1	0	0	0	0	0	0	0	1	
CO5	2.08	1	0	0	0	0	1	1	0	0	0	0	0	0	1	
DIRECT PO ATTAINMENT	(Mapping Strength/3)* AVERAGE OF MAPPED Course Outcomes	0.56	0.52		0.52		0.56	1.19							0.56	
Signature of the Course Instructor						Rajesh Kumar										
Name & Signature of Course Coordinator						Rajesh Kumar Rajesh Kumar										
Name & Signature of HOD						Dr. Bh. Varadachari Based										

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