

S.E. Elect (2019 Course)

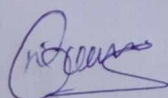
Sr. No.	Course/ Subject	Course Code Number
1	Engineering Mathematics-III	C201
2	Power Generation Technologies	C202
3	Material Science	C203
4	Analog and Digital Electronics	C204
5	Electrical Measurement & Instrumentation	C205
6	Applications of Mathematics in Electrical Engineering	C206
7	Soft Skill	C207

T.E. Elect (2019 Course)

Sr. No.	Course/ Subject	Course Code Number
1	Industrial and Technology Management	C301
2	Power Electronics	C302
3	Electrical Machines-II	C303
4	Electrical Installation Design and Condition Based Maintenance	C304
5	Elective-II (Advanced Microcontroller and Embedded System)	C305A
6	Seminar	C306

B.E. Elect (2019 Course)

Sr. No.	Course/ Subject	Course Code Number
1	Power System Operation and Control	C401
2	Advanced Control System	C402
3	Elective I (B) Power Quality	C403B
4	Elective II (B) Electric and Hybrid Vehicles	C404B
5	Project I	C405
6	MOOC's	C406



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Department of Electrical Engg.
CO/PO/PSO Overall Mapping
A.Y.2023-24, SEM-I

Table 1: Program level Course-PO matrix for all the courses

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C201	3	1.8	–	1	–	1						2
C202	3	2	1.6	1	1.6	1.2	1.6	1.4	2	1	2	2
C203	3	1.75	1.5	1.5	1.6	1.4	2.16	1.66	2	1	1.5	2
C204	3	1.66	2	1.66	1.33	2	2	2	2			1.5
C205	3	2	1.6	1.66	1.6	1.2	1.6	1.4	1	1	2	1.5
C206	3	2	1.75	1.5	1.5	1.66	1.25	1.66	1	2	1.5	1.5
C207	3	2	1.6	1.66667	1.6	1.5	1.8	1.8				2
C301	3	1.4	1.6	1.8	1.6	2	2	1.75	1.5	2	2	1.66
C302	3	1.66	2	1.66	1.33	2	2	2			2	1.5
C303	3	2	1.75	2	1.33	2	2	2	2	2	2	1.5
C304	3	1.75	1.6	2	1.6	1.8	1.8	1.6	2	2	2	1.66
C305A	3	1.6	1.8	2	2	2.2	2	1.6		1	2	1.33
C306	3	2	2	1.66	1.6	1.5	2	1.6			2	2
C401	3	1.75	2.33	2	1.4	2	2.25	2	1		2	1.5
C402	3	1.66	1.6	2	1.5	2	1.5		1	2	2	1.33
C403B	3	1.75	2.25	2.25	1.5	1.83333	2.16667	2	2	1.5	2	1.33333
C404B	3	1.75	1.6	2.33	1.4	2	2.25	2	2	1	1.5	2
C405	3	1.6	2.5	2.4	1.5	1.83	2.17	2	1.5	2	2	1.5
C406	3	1.75	2.33	1.6	1.5	1.75			1	1.5	2	1.66
Target level overall POs	3.00	1.78	1.8561	1.7730	1.5272	1.7302	1.9145	1.779375	1.5385	1.5	1.9	1.6565

Table 2: Program level Course-PSO matrix for all the courses

Course	PSO1	PSO2	
C201	1.56		
C202	2	1.33	
C203	2	1.5	
C204	2	1.75	
C205	2	1.33	
C206	2	2	
C207	1.75	1.33	
C301	2	1.8	
C302	2	2	
C303	2	1.75	
C304	2	2	
C305A	2	1.75	
C306	2.33	2	
C401	2.67	1.75	
C402	1.66	2	
C403B	2	1.75	
C404B	2.25	1.75	
C405	1.5	1.33	
C406	1.75	2	
Target level overall PSOs	1.97	1.73	



Course Outcome Attainment

Course	Theory (%)						Oral / Practical (%)						Term Work (%)					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
C201	80.00%	80.00%	80.00%	80.00%	80.00%		NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	
C202	80.00%	80.00%	80.00%	80.00%	80.00%		NA	NA	88.24%	88.24%	88.24%	88.24%	NA	NA	NA	NA	NA	NA
C203	51.43%	51.43%	51.43%	51.43%	51.43%	51.43%	88.24%	88.24%	64.71%	64.71%	64.71%		NA	NA	NA	NA	NA	
C204	57.14%	57.14%	57.14%	57.14%			85.71%	85.71%	85.71%	85.71%	85.71%		NA	NA	NA	NA	NA	
C205	37.14%	37.14%	37.14%	37.14%	37.14%		NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	
C206	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	
C207	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C301	59.09%	59.09%	59.09%	59.09%	59.09%	59.09%	42.11%	42.11%	42.11%				NA	NA	NA	NA		
C302	38.10%	38.10%	38.10%				70.00%	70.00%	70.00%	70.00%			NA	NA	NA	NA		
C303	42.86%	42.86%	42.86%	42.86%			94.74%	94.74%	94.74%	94.74%	94.74%		NA	NA	NA	NA	NA	
C304	72.73%	72.73%	72.73%	72.73%	72.73%		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C305A	45.00%	45.00%	45.00%	45.00%	45.00%	45.00%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
C306	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA		NA	NA	NA	NA		
C401	71.43%	71.43%	71.43%	71.43%	71.43%		100.00%	100.00%	100.00%	100.00%	100.00%		100.00%	100.00%	100.00%	100.00%	100.00%	
C402	92.86%	92.86%	92.86%	92.86%			92.86%	92.86%	92.86%	92.86%			NA	NA	NA	NA	NA	NA
C403B	14.29%	14.29%	14.29%	14.29%	14.29%	14.29%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	
C404B	42.86%	42.86%	42.86%	42.86%	42.86%		NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA
C405	NA	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	NA	NA	NA	NA	NA	NA
C406	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA		33.33%	33.33%	33.33%	33.33%	33.33%	

Internal Assessment:

Course	Unit Test (%)						Term work (%)					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
C201	91.67%	94.44%	88.89%	100.00%	94.44%		NA	NA	NA	NA	NA	
C202	91.18%	88.24%	97.06%	100.00%	100.00%		NA	NA	NA	NA	NA	
C203	85.71%	91.43%	100.00%	97.14%	100.00%	97.14%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
C204	93.55%	90.32%	93.55%	87.10%			NA	NA	NA	NA		
C205	88.89%	94.44%	86.11%	97.22%	94.44%		100.00%	100.00%	100.00%	100.00%	100.00%	
C206	NA	NA	NA	NA			100.00%	100.00%	100.00%	100.00%	100.00%	
C207	NA	NA	NA	NA	NA		100.00%	100.00%	100.00%	100.00%	100.00%	
C301	90.91%	95.45%	86.36%	100.00%	95.45%	90.91%	NA	NA	NA	NA	NA	NA
C302	95.45%	95.45%	100.00%				NA	NA	NA			
C303	90.91%	95.45%	90.91%	95.45%			100.00%	100.00%	100.00%	100.00%		
C304	95.45%	100.00%	86.36%	95.45%	100.00%		100.00%	100.00%	100.00%	100.00%	100.00%	
C305A	95.45%	86.36%	90.91%	95.45%	90.91%	100.00%	NA	NA	NA	NA	NA	NA
C306	NA	NA	NA	NA			100	100	100	100		
C401	83.33%	91.67%	83.33%	100.00%	83.33%		NA	NA	NA	NA	NA	
C402	87.50%	87.50%	93.75%	100.00%			NA	NA	NA	NA		
C403B	97.50%	93.75%	87.50%	100.00%	87.50%	93.75%	NA	NA	NA	NA	NA	NA
C404B	90.91%	93.94%	96.97%	100.00%	87.86%		NA	NA	NA	NA	NA	NA
C405	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA
C406	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	

Indirect Assessment:

Course	Course Exit Survey (%)					
	CO1	CO2	CO3	CO4	CO5	CO6
C201	89	92	86	97	86	
C202	97	91	89	100	100	
C203	91	89	91	94	97	97
C204	100.00%	94.00%	91.00%	100.00%		
C205	94	92	89	100	97	
C206	94	97	91	88		
C207	100.00%	94.00%	91.00%	97.00%	94.00%	
C301	95	91	86	91	95	95
C302	100	91	86			
C303	97	93	87	100		
C304	100	91	86	91	95	
C305A	95	91	82	82	95	91
C306	90	87	83	100		
C401	85.42%	87.50%	91.67%	75.00%	85.42%	
C402	100.00%	94.00%	88.00%	88.00%		
C403B	94.00%	88.00%	81.00%	100.00%	88.00%	81.00%
C404B	97.00%	94.00%	88.00%	91.00%	85.00%	
C405	100.00%	81.00%	88.00%	94.00%	94.00%	100.00%
C406	100.00%	100.00%	91.00%	97.00%	94.00%	



Overall CO Attainment A.Y 2023-24

Course	Direct CO Attainment		Indirect CO Attainment	Overall CO Attainment
	External	Internal		
C201	3	3	1.4	3
C202	3	3	3	3
C203	1.4	3	1.72	1.85
C204	1.3	3	1.8	1.87
C205	1	3	1.4	1.56
C206	3	3	3	3
C207	3	3	3	3
C301	2	3	2.2	2.8
C302	1	3	1.4	1.56
C303	1.66	3	1.93	1.84
C304	3	3	3	3
C305A	2	3	2.2	2.28
C306	3	3	3	3
C401	3	3	3	3
C402	3	3	3	3
C403B	1.5	3	3	2.04
C404B	1.5	3	1.8	2.04
C405	3	3	3	3
C406	3	3	2.4	0.6

Table: 3 PO attainment values

#NAME?

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C201	3	2	1.75	1.5	1.5	1.66	1.25	1.66	1	2	1.5	1.5
C202	3	2	1.6	1	1.6	1.2	1.6	1.4	2	1	0	2
C203	1.848	1.078	0.924	0.924	0.9856	0.8624	1.33056	1.02256	1.232	0.616	0.924	1.232
C204	1.87	1.04	1.25	1.04	0.83	1.25	1.25	1.25	0	0	0	0.94
C205	1.56	1.04	0.832	0.8632	0.832	0.624	0.832	0.728	0.52	0.52	1.04	0.78
C206	3	2	1.75	1.5	1.5	1.66	1.25	1.66	1	2	1.5	1.5
C207	3	2	1.6	1.66667	1.6	1.5	1.8	1.8				2
C301	2.28	1.064	1.216	1.368	1.216	1.52	1.33	1.14	1.52	1.52	1.2616	
C302	1.56	0.8632	1.3	1.2116	1.04	0.8632	0.8632	0.52	0	0	1.04	0.6916
C303	1.84	2	1.074733	1.2287	0.81	1.2	1.22	1.227	0	0.633	1.2867	0.922
C304	3	1.2	1.6	2.25	1.6	2	2	1.6	2	2	2	1.33
C305A	2.28	1.216	1.368	1.52	1.52	1.672	1.52	1.216		0.76	1.52	1.0108
C306	3	2	2	1.66	1.6	1.5	2	1.6			2	2
C401	3	1.75	2.33	2	1.2	2	2.25	2	1		2	1.5
C402	3	1.66	2.33	2.33	1.5	2	1.5		1	2	2	1.33
C403B	2.04	1.19	1.53	1.53	1.02	1.25	1.47	1.36	1.36	1.02	1.36	0.91
C404B	2.04	1.13	1.09	1.36	1.02	1.36	1.53	1.36	0	0	1.36	0.9
C405	3	1.6	2.5	2.4	1.5	1.83	2.17	2	1.5	2	2	1.5
C406	2.52	1.47	1.96	1.89	1.26	1.47	1.89	1.68	1.68	1.26	1.68	1.39
Direct PO Attainment	2.47	1.49	1.58	1.54	1.27	1.44	1.54	1.41	0.96	1.08	1.37	1.30
Indirect PO Attainment	2.14	2.57	2.27	2.44	2.66	2.36	2.31	2.44	2.4	2.79	2.61	2.53
Overall PO Attainment	2.40	1.71	1.72	1.72	1.55	1.63	1.69	1.62	1.25	1.42	1.62	1.55

Table: 4 PSO attainment values

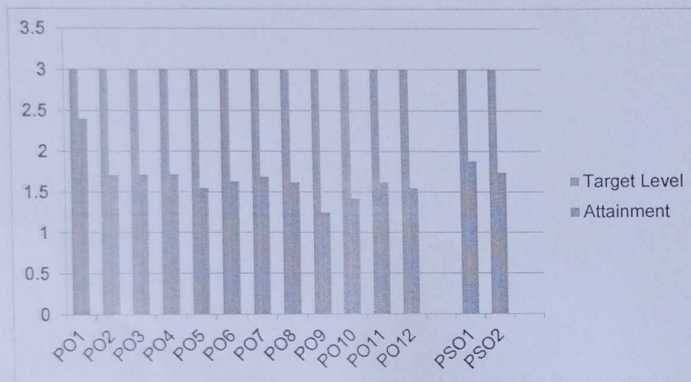
Course	PSO1	PSO2	PSO3
C201	2	2	
C202	2	1.33	
C203	1.232	0.924	
C204	2	1.75	
C205	1.04	0.6916	
C206	2	2	
C207	1.75	1.33	
C301	1.52	1.368	
C302	0.78	1.04	
C303	1.287	1.07473	
C304	2	1.75	
C305A	1.52	1.33	
C306	2.33	2	
C401	2.67	1.75	
C402	2	2	
C403B	1.36	1.19	
C404B	1.13	1.36	
C405	1.5	1.33	
C406	1.47	1.68	
Direct PSO Attainment	1.66	1.47	
Indirect PSO Attainment	2.74	2.83	
Overall PSO Attainment	1.88	1.74	

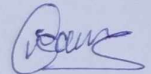
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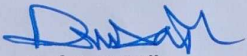
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A.Y.2023-24, SEM-I

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		PSO1	PSO2	
Target Level	3	3	3	3	3	3	3	3	3	3	3	3		3	3	
Attainment	2.4	1.71	1.72	1.72	1.55	1.63	1.69	1.62	1.25	1.42	1.62	1.55		1.88	1.74	




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