

GMR INSTITUTE OF TECHNOLOGY, RAJAM
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
PO and PSO ATTAINMENT FOR THE BATCH 2016-2020

S.NO	Sem	COURSE CODE	COURSE TITLE	Average PO and PSO attainment %													
				PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	I	C101	English Communication Skills I	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00	0.00
2		C102	Engineering Mathematics I	58.00	38.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3		C103	Engineering Physics	60.96	40.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4		C104	Engineering Mechanics	73.00	48.67	48.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5		C105	Problem solving using C	68.06	68.06	68.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6		C106	Engineering Physics Lab	0.00	0.00	0.00	63.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7		C107	Problem solving using C Lab	0.00	0.00	0.00	65.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8		C108	Engineering Drawing	0.00	0.00	0.00	56.35	0.00	0.00	0.00	0.00	56.35	56.35	0.00	0.00	0.00	0.00
9	II	C109	English Communication Skills II	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.00	0.00	0.00	0.00	0.00
10		C110	Engineering Mathematics II	61.00	40.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11		C111	Engineering Chemistry	63.65	42.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12		C112	Basic Electrical Engineering	66.00	66.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13		C113	Environmental Studies	21.27	0.00	21.27	0.00	0.00	42.54	63.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14		C114	English Communication Skills Lab	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00	0.00
15		C115	Engineering Chemistry Lab	0.00	0.00	0.00	65.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16		C116	Engineering Workshop	61.54	41.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.03	0.00	41.03	0.00	0.00
17	III	C201	Engineering Mathematics III	60.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18		C202	Circuit Theory	63.00	63.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.00	21.00
19		C203	DC Machines	43.33	43.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.67
20		C204	Electromagnetic Field Theory	41.33	41.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.67	20.67
21		C205	Digital Electronics	65.00	65.00	43.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.33
22		C206	Electronic Devices & Circuits	62.00	62.00	41.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.33
23		C207	Digital Electronics Lab	0.00	0.00	0.00	67.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24		C208	Electronic Devices & Circuits Lab	0.00	0.00	0.00	63.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25		C209	Electrical Engineering Lab	0.00	0.00	0.00	68.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	IV	C212	Linear IC Applications	62.00	62.00	41.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.33
27		C213	Control Systems	69.00	69.00	69.00	69.00	69.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.00	69.00
28		C214	Network Analysis & Synthesis	63.00	63.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.00	42.00
29		C215	Transformers & Induction Machines	44.67	44.67	44.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.67
30		C216	Power Plant Engineering & Economics	0.00	73.00	0.00	0.00	0.00	73.00	73.00	0.00	0.00	0.00	0.00	0.00	0.00	48.67
31		C217	Electrical Measurements & Instrumentation	65.00	65.00	65.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.33
32		C218	Linear IC Applications Lab	0.00	0.00	0.00	66.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33		C219	Electrical Measurements & Instrumentation Lab	0.00	0.00	0.00	59.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34		C220	DC Machines Lab	0.00	0.00	0.00	68.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35		C221	CC & EC Activities I	0.00	0.00	0.00	0.00	0.00	100.0	66.67	0.00	100.0	100.0	0.00	0.00	0.00	0.00
36	C222	Employability Skills II	66.20	0.00	0.00	0.00	0.00	99.30	0.00	66.20	0.00	99.30	0.00	66.20	0.00	0.00	

37	V	C301	Object Oriented Programming	0.00	65.00	65.00	65.00	43.33	0.00	0.00	0.00	0.00	0.00	21.67	43.33	0.00	0.00	
38		C302	Power Electronics	0.00	45.33	45.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.33	45.33	
39		C303	Power Transmission & Distribution	0.00	43.33	43.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.33	43.33	
40		C304	Signal and Systems Theory	0.00	64.00	64.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.00	42.67	
41		C305	Synchronous & Special Machines	43.33	43.33	43.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.33	
42		C306	Advanced Control Systems	0.00	57.00	57.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.00	38.00	
43		C307	AC Machines Lab	0.00	0.00	0.00	57.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
44		C308	Term Paper	56.33	0.00	0.00	56.33	0.00	0.00	0.00	0.00	0.00	84.50	0.00	84.50	84.50	84.50	
45		C309	Summer Internship	99.31	66.21	0.00	0.00	0.00	0.00	0.00	99.31	0.00	99.31	0.00	99.31	0.00	0.00	
46	VI	C311	Discrete Signal Processing	0.00	63.00	63.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.00	42.00	
47		C312	Electrical Drives	0.00	64.00	64.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.67	
48		C313	Power System Analysis	0.00	67.00	67.00	0.00	44.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.67	
49		C314	Microprocessors & Microcontrollers	63.00	42.00	42.00	42.00	42.00	0.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00	0.00	
50		C315	Database Management Systems	0.00	63.00	63.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
51		C316	Renewable Energy Sources (open Elective)	0.00	44.67	0.00	0.00	0.00	0.00	67.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
52		C317	Power Electronics Lab	0.00	0.00	0.00	60.68	20.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
53		C318	Mini Project	51.68	51.68	51.68	34.45	51.68	51.68	34.45	51.68	51.68	51.68	51.68	34.45	34.45	51.68	51.68
54		C319	Audit Course	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.22	0.00	0.00
55	C320	CC & EC Activities II	0.00	0.00	0.00	0.00	0.00	99.31	66.21	0.00	99.31	99.31	0.00	0.00	0.00	0.00		
56	C321	Employability Skills IV	65.74	0.00	0.00	0.00	0.00	98.61	0.00	65.74	0.00	98.61	0.00	65.74	0.00	0.00		
57	VII	C401	Engineering Economics & Project Management	43.33	43.33	43.33	0.00	0.00	0.00	0.00	0.00	21.67	0.00	43.33	0.00	0.00	0.00	
58		C402	Power System Operation and Control	0.00	65.00	65.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.00	43.33	
59		C403	Electric Locomotives, Traction and Vehicles	0.00	46.00	0.00	0.00	0.00	46.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.00	
60		C404	Electrical Systems and Simulation Lab	0.00	0.00	0.00	55.00	55.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
61		C405	Power Systems Lab	0.00	0.00	0.00	58.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
62	VIII	C407	Ethics for Electrical Engineers	0.00	0.00	0.00	0.00	0.00	73.00	73.00	73.00	0.00	0.00	0.00	73.00	0.00	0.00	
63		C408	Power System Protection	0.00	48.00	48.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.00	
64		C409	Electrical Installation, Design & Estimation	0.00	66.00	66.00	0.00	0.00	66.00	0.00	0.00	0.00	0.00	0.00	0.00	66.00	0.00	66.00
65		C410	Project	51.83	51.83	51.83	34.55	51.83	51.83	34.55	51.83	51.83	51.83	51.83	34.55	34.55	51.83	51.83
66		C406	Full Semester Internship	54.69	54.69	0.00	0.00	54.69	0.00	0.00	54.69	54.69	54.69	0.00	0.00	54.69	54.69	
PO and PSO DIRECT ATTAINMENT				58.91	54.92	53.29	58.65	48.05	72.84	59.84	66.06	62.22	72.77	33.50	64.12	55.36	44.52	

41	V	C305	Synchronous & Special Machines	2	2	2										2	
42		C306	Advanced Control Systems		2	2									2	2	
43		C307	AC Machines Lab				2										
44		C308	Term Paper	2			2					3		3	3	3	
45		C309	Summer Internship	3	2					3		3		3			
46	VI	C311	Discrete Signal Processing		2	2									2	2	
47		C312	Electrical Drives		2	2										2	
48		C313	Power System Analysis		3	3		2								2	
49		C314	Microprocessors & Microcontrollers	2	2	2	2	2				2					
50		C315	Database Management Systems		2	2											
51		C316	Renewable Energy Sources (open Elective)		2					3							
52		C317	Power Electronics Lab				2	1									
53		C318	Mini Project	2	2	2	2	2	2	2	2	2	2	2	2	2	
54		C319	Audit Course											3			
55		C320	CC & EC Activities II						3	2		3	3				
56		C321	Employability Skills IV	2					3		2		3		2		
57	VII	C401	Engineering Economics & Project Management	2	2	2					1		2				
58		C402	Power System Operation and Control		2	2									2	2	
59		C403	Electric Locomotives, Traction and Vehicles		2				2							1	
60		C404	Electrical Systems and Simulation Lab				2	2									
61		C405	Power Systems Lab				2										
62	VIII	C407	Ethics for Electrical Engineers					3	3	3				3			
63		C408	Power System Protection		2	2										2	
64		C409	Electrical Installation, Design & Estimation		2	2			2					2		2	
65		C410	Project	2	2	2	2	2	2	2	2	2	2	2	2	2	
66		C406	Full Semester Internship	2	2			2			2	2	2		2	2	
DIRECT PO and PSO ATTAINMENT				2.10	2.10	2.08	2.20	2.00	2.55	2.38	2.29	2.14	2.47	1.75	2.36	2.07	1.93

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Average Program Exit Survey Attainment	2.38	2.426	2.446	2.407	2.486	2.479	2.644	2.499	2.479	2.426	2.479	2.565	2.268	2.664
Average Alumni Survey Attainment	2.755	2.536	2.441	2.455	2.495	2.359	2.605	2.686	2.727	2.564	2.468	2.536	2.455	2.659
Average Employer Survey Attainment	2.786	2.529	2.743	2.7	2.571	2.657	2.571	2.657	2.571	2.614	2.614	2.571	2.614	2.743
In-DIRECT PO and PSO ATTAINMENT	2.64	2.497	2.543	2.52	2.518	2.498	2.607	2.614	2.593	2.535	2.521	2.558	2.446	2.689

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
85% of DIRECT PO and PSO ATTAINMENT	1.785	1.783	1.765	1.87	1.7	2.164	2.019	1.943	1.821	2.097	1.488	2.009	1.761	1.637
5% of Average Program Exit Survey Attainment	0.119	0.121	0.122	0.12	0.124	0.124	0.132	0.125	0.124	0.121	0.124	0.128	0.113	0.133
5% of Average Alumni Survey Attainment	0.138	0.127	0.122	0.123	0.125	0.118	0.13	0.134	0.136	0.128	0.123	0.127	0.123	0.133
5% of Average Employer Survey Attainment	0.139	0.126	0.137	0.135	0.129	0.133	0.129	0.133	0.129	0.131	0.131	0.129	0.131	0.137
Overall PO and PSO ATTAINMENT	2.181	2.157	2.147	2.248	2.078	2.538	2.41	2.335	2.21	2.477	1.866	2.393	2.128	2.04