

Sri Sai Ram Engineering College (Autonomous), Chennai – 44.

Department of Civil Engineering

CO Attainment – Batch 2017-21 (Regulation 2017)

SL.N O	CO CODE	SUB CODE	SUB NAME	Attainment Level						Target						Attained					
				CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
			I SEM																		
1	C101	HS6151	Communicative English	2.80	3.00	3.00	2.80	2.80	-	1.75	2.5	1.75	2.0	2.0	-	Y	Y	Y	Y	Y	-
2	C102	MA6151	Engg Mathematics - I	2.40	2.40	2.40	2.40	2.40	-	2.0	2.0	2.0	2.0	2.0	-	Y	Y	Y	Y	Y	-
3	C103	PH6151	ENGG PHY	2.40	2.40	2.40	2.40	2.40	-	2.2	2.2	2.2	2.2	2.4	-	Y	Y	Y	Y	Y	-
4	C104	CY6151	ENGG CHE	2.40	2.40	2.40	2.40	2.40	-	1.75	1.75	1.88	1.75	1.88	-	Y	Y	Y	Y	Y	-
5	C105	GE6151	Prob Solving and PYTHON Programming	2.40	2.40	2.40	2.40	2.40	-	2.4	2.4	2.4	2.4	2.4	-	Y	Y	Y	Y	Y	-
6	C106	GE6152	ENGG GRAP	3.00	3.00	3.00	3.00	3.00	-	2.5	2.5	2.5	2.5	2.67	-	Y	Y	Y	Y	Y	-
7	C108	GE8161	Prob Solving and PYTHON Programming Laboratory	3.00	3.00	3.00	3.00	3.00	-	2.8	2.8	2.8	2.8	2.8	-	Y	Y	Y	Y	Y	-
8	C109	BS8161	PHY/CHE Laboratory	3.00	3.00	3.00	3.00	3.00	-	1.83	1.83	1.83	1.67	1.67	-	Y	Y	Y	Y	Y	-
			II SEM																		
9	C110	HS6251	Technical English	2.80	2.80	2.80	2.80	2.80	-	2.33	3.0	2.67	2.67	2.0	-	Y	N	Y	Y	Y	-
10	C111	MA6251	Engg Mathematics-II	2.60	2.60	2.60	2.40	2.40	-	1.5	1.5	1.5	1.5	2.0	-	Y	Y	Y	Y	Y	-
11	C112	PH8201	Physics for Civil Engineering	2.40	2.40	2.40	2.40	2.40	-	1.88	1.64	1.5	1.3	1.44	-	Y	Y	Y	Y	Y	-
12	C113	BE8251	BASIC ELEC & ELEC ENGG	2.40	2.40	2.40	2.40	2.40	-	1.67	1.4	1.5	1.5	1.14	-	Y	Y	Y	Y	Y	-
13	C114	GE8291	Env. Science and Engg	2.40	2.40	2.40	2.40	2.40	-	1.52	2	1.5	1.5	1.4	-	Y	Y	Y	Y	Y	-
14	C115	GE8292	ENGG MECH	2.40	2.40	2.40	2.40	2.40	-	1.71	1.71	1.86	1.71	1.71	-	Y	Y	Y	Y	Y	-
15	C116	GE8261	Engg. Practices Laboratory	3.00	3.00	3.00	3.00	3.00	-	1.3	1.2	1.25	1.25	1.22	-	Y	Y	Y	Y	Y	-
16	C117	CE8211	CAD LAB	3.00	3.00	3.00	3.00	3.00	-	1.43	1.43	1.43	1.43	1.43	-	Y	Y	Y	Y	Y	-
			III SEM																		
17	C201	MA8353	TPDE	0.80	0.80	0.80	0.80	0.80	-	1.57	1.57	1.43	1.43	1.43	-	N	N	N	N	N	-
18	C202	CE8301	SOM - I	2.40	2.40	2.40	2.40	2.40	-	1.6	1.8	1.5	1.6	1.8	-	Y	Y	Y	Y	Y	-
19	C203	CE8302	Fluid Mechanics	2.40	2.40	2.40	2.40	2.40	-	1.6	1.3	1.4	1.4	1.9	-	Y	Y	Y	Y	Y	-

44	C310	CE8601	DSS	3.00	3.00	2.80	3.00	3.00	-	1.8	1.7	1.7	1.7	1.7	-	Y	Y	Y	Y	Y	-
45	C311	CE8602	SA-II	2.80	2.80	2.40	2.80	2.80	-	1.5	1.5	2.0	1.8	1.4	-	Y	Y	Y	Y	Y	-
46	C312	CE8603	IE	2.80	2.80	2.40	2.60	2.60	-	1.5	1.9	2.8	2.5	2.2	-	Y	Y	N	Y	Y	-
47	C334	CE8604	HE	2.60	2.60	2.40	2.60	2.60	-	1.2	1.5	1.3	1.3	1.8	-	Y	Y	Y	Y	Y	-
48	C314	EN8592	WWE	2.60	2.60	2.40	2.60	2.60	-	1.6	2.2	1.8	2.3	1.8	-	Y	Y	Y	Y	Y	-
49	C332	OCE551	APCE	2.60	2.60	2.40	2.60	2.40	-	1.8	1.7	1.7	1.7	1.7	-	Y	Y	Y	Y	Y	-
50	C316	CE8611	HE LAB	3.00	3.00	3.00	3.00	-	-	1.6	1.6	1.6	1.6	-	-	Y	Y	Y	Y	-	-
51	C317	CE8612	IRR. And Env. Engg Drawing	3.00	3.00	3.00	3.00	-	-	1.3	1.4	1.5	1.4	-	-	Y	Y	Y	Y	-	-
52	C318	HS8581	Professional Communication	3.00	3.00	3.00	3.00	-	-	1.0	1.8	3.0	1.3	-	-	Y	Y	Y	Y	-	-
			VII SEM																		
52	C401	CE8701	ECV	3.00	3.00	3.00	3.00	3.00	3.00	1.8	1.8	2.2	2.2	1.8	1.8	Y	Y	Y	Y	Y	Y
53	C402	CE8702	RADHE	3.00	3.00	3.00	3.00	3.00	3.00	1.5	1.5	1.6	1.4	1.1	1.1	Y	Y	Y	Y	Y	Y
54	C403	CE8703	WR	3.00	3.00	3.00	3.00	3.00	3.00	2.2	2.2	2.2	2.2	2	2.2	Y	Y	Y	Y	Y	Y
55	C416	OEN751	GBD	3.00	3.00	3.00	3.00	3.00	3.00	1.6	1.6	1.6	1.5	1.5	1.4	Y	Y	Y	Y	Y	Y
56	C411	EN8591	MSWM	3.00	3.00	3.00	3.00	3.00	3.00	1.8	2	1.6	1.9	1.5	1.8	Y	Y	Y	Y	Y	Y
57	C406	CE8711	CIP	3.00	3.00	3.00	3.00	-	-	2.3	2.6	2.3	2.3	-	-	Y	Y	Y	Y	-	-
58	C407	CE8712	Industrial training	3.00	3.00	3.00	3.00	-	-	1.6	1.6	1.6	1.6	-	-	Y	Y	Y	Y	-	-
			VIII SEM																		
59	C431	CE8091	HWRE	3.00	3.00	3.00	3.00	3.00	3.00	1.6	2.2	1.8	2.3	1.8	1.8	Y	Y	Y	Y	Y	Y
60	C434	CE8020	MRRS	3.00	3.00	3.00	3.00	3.00	3.00	1	1.5	2	2.3	1.9	1.8	Y	Y	Y	Y	Y	Y
61	C439	CE8811	PROJECT	3.00	3.00	3.00	3.00	-	-	2.3	2.3	2.6	2.3	-	-	Y	Y	Y	Y	-	-

Sri Sai Ram Engineering College (Autonomous), Chennai – 44.

Department of Civil Engineering

PO ATTAINMENT - 2017-2021 (R-2017)

SL.NO	CO CODE	SUB CODE	SUB NAME	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
			I SEM												
1	C101	HS6151	Communicative English	-	0.96	0.96	1.44	-	0.96	1.92	1.44	2.56	2.88	-	2.88
2	C102	MA6151	Engg Mathematics - I	2.40	1.60	0.80	-	0.80	-	-	-	-	0.80	-	-
3	C103	PH6151	ENGG PHY	2.40	1.60	1.60	-	1.60	-	-	-	-	0.80	-	-
4	C104	CY6151	ENGG CHE	2.40	2.40	2.08	2.40	1.92	1.28	1.28	0.80	0.80	0.80	0.80	0.80
5	C105	GE6151	Prob Solving and PYTHON Programming	1.92	1.44	2.08	1.76	1.76	0.96	0.80	1.33	2.40	0.80	2.40	1.60
6	C106	GE6152	ENGG GRAP	3.00	2.00	3.00	1.00	-	1.60	1.00	2.00	-	2.00	-	1.00
7	C108	GE8161	Prob Solving and PYTHON Programming Laboratory	3.00	1.67	2.00	2.33	2.00	2.00	1.00	1.00	1.67	1.00	2.33	2.67
8	C109	BS8161	PHY/CHE Laboratory	3.00	3.00	3.00	2.40	2.60	2.00	1.60	1.00	1.00	1.60	1.00	1.40
			II SEM												
9	C110	HS6251	Technical English	-	0.93	-	1.87	-	0.93	0.93	1.56	2.80	2.80	-	2.80
10	C111	MA6251	Engg Mathematics-II	1.51	0.84	0.84	0.84	1.34	1.68	2.02	1.51	0.84	1.34	2.52	0.84
11	C112	PH8201	Physics for Civil Engineering	2.40	1.92	1.92	1.60	1.76	0.80	0.80	0.80	0.80	0.80	1.60	1.28
12	C113	BE8251	BASIC ELEC & ELEC ENGG	2.40	2.40	2.40	2.40	1.92	0.80	1.28	0.80	0.80	0.80	0.80	0.80
13	C114	GE8291	Env. Science and Engg	1.44	1.12	0.96	0.80	1.60	0.80	1.00	-	-	-	-	0.80

14	C115	GE8292	ENGG MECH	2.40	1.76	0.80	2.40	2.40	1.60	0.96	1.12	0.80	0.80	0.80	0.80
15	C116	GE8261	Engg. Practices Laboratory	2.33	2.33	2.33	1.33	3.00	1.00	1.00	1.00	1.00	2.33	1.00	3.00
16	C117	CE8211	CAD LAB	3.00	3.00	3.00	2.40	2.60	2.00	1.60	1.00	1.00	1.60	1.00	1.40
			III SEM												
17	C201	MA8353	TPDE	0.80	0.53	0.27	-	0.32	-	-	-	-	0.27	-	0.27
18	C202	CE8301	SOM - I	0.80	1.33	1.40	1.60	-	0.96	2.24	2.40	1.60	-	-	0.80
19	C203	CE8302	Fluid Mechanics	1.76	1.20	1.33	0.80	1.44	0.80	1.60	0.80	-	-	1.60	1.40
20	C204	CE8351	Surveying	1.80	1.44	1.60	1.12	-	1.44	1.60	-	0.80	1.28	1.20	1.80
21	C205	CE8391	Construction materials	1.92	1.20	1.00	1.28	1.20	-	0.80	0.80	0.80	0.96	-	1.20
22	C206	CE8392	Engg. Geology	1.12	1.44	-	1.20	0.80	0.80	0.80	-	1.12	1.60	0.80	1.76
23	C207	CE8311	Construction materials Laboratory	1.00	1.50	-	1.00	-	-	-	2.00	3.00	-	-	1.33
24	C208	CE8361	Surveying Laboratory	1.00	1.00	2.00	-	-	2.00	1.00	-	1.00	-	-	2.00
25	C209	HS8381	Interpersonal Skills / Listening and Speaking	-	-	-	-	1.50	-	-	2.00	3.00	3.00	-	1.00
			IV SEM												
26	C210	MA8491	NM	2.40	1.60	0.80	-	0.96	-	0.00	0.00	0.00	0.80	0.00	0.80
27	C211	CE8401	CTEP	1.60	1.12	1.92	1.60	0.80	0.80	1.12	0.80	-	-	-	1.12
28	C212	CE8402	SOM-II	1.44	1.44	1.12	1.12	1.60	1.44	0.96	-	-	-	-	1.60
29	C213	CE8403	AHE	1.39	0.85	0.75	0.96	1.07	0.53	0.53	-	-	-	-	1.28
30	C214	CE8404	CT	1.76	1.28	0.80	1.34	0.80	-	0.80	1.60	0.80	0.80	-	0.80
31	C215	CE8491	SM	1.28	1.20	0.89	1.33	1.07	1.07	-	1.07	1.07	1.17	1.07	1.07
32	C216	CE8481	SOM LAB	2.50	1.50	2.33	2.75	2.25	1.00	1.00	2.00	2.00	2.00	1.25	2.00
33	C217	CE8461	HE LAB	2.75	1.75	1.00	1.25	1.00	1.00	1.00	-	1.75	1.00	1.00	1.00

34	C218	HS8461	Advance reading and writing	1.00	1.50	-	1.00	2.00	-	-	2.00	3.00	-	-	1.33
			V SEM												
35	C301	CE8501	DRC & Concrete Elements	1.15	2.60	1.73	1.30	1.73	0.87	-	-	-	-	-	-
36	C302	CE8502	SA-I	1.60	1.60	1.60	1.60	1.60	1.60	1.28	0.80	1.28	1.60	1.28	1.40
37	C303	EN8491	Water Supply Engg	1.60	2.40	2.08	0.80	2.08	0.80	1.60	-	-	2.40	0.80	0.80
38	C304	CE8591	FE	1.00	1.12	1.28	2.24	1.44	1.12	1.12	0.80	1.20	1.60	1.60	1.60
39	C305	GI8014	GIS	2.40	2.40	2.40	0.80	-	0.80	0.96	0.80	0.80	0.80	-	1.60
40	C306	ORO551	RES	0.96	1.12	1.60	1.12	1.12	1.00	0.96	0.80	1.40	1.60	1.60	1.60
41	C307	CE8511	SM Laboratory	-	-	-	-	1.50	-	-	2.00	3.00	3.00	-	1.00
42	C308	CE8512	Water and waste water laboratory	1.75	1.50	1.60	1.60	1.75	2.00	1.00	1.00	-	1.00	-	1.00
43	C309	CE8513	Survey Camp	1.50	1.50	1.75	1.50	1.67	2.00	1.75	1.00	2.33	1.67	-	1.00
			VI SEM												
44	C310	CE8601	DSS	1.38	2.96	1.58	1.38	-	1.58	1.38	-	1.38	1.18	0.99	1.58
45	C311	CE8602	SA-II	1.63	2.36	1.45	1.09	1.13	0.91	-	-	-	-	-	-
46	C312	CE8603	IE	2.64	2.64	2.64	0.88	-	0.88	1.06	0.88	0.88	0.88	-	1.76
47	C313	CE8604	HE	1.02	1.28	1.37	0.85	1.49	1.07	1.28	1.07	1.71	1.07	1.49	1.02
48	C314	EN8592	WWE	1.13	1.71	1.54	1.71	0.00	1.71	2.13	0.85	-	-	-	0.85
49	C315	OCE551	APCE	0.84	1.85	1.51	1.01	2.52	0.84	0.84	-	-	-	-	1.85
50	C316	CE8611	HE LAB	1.25	2.50	1.00	2.00	1.00	1.00	1.50	1.00	1.00	1.00	1.00	1.33
51	C317	CE8612	IRR. And Env. Engg Drawing	1.00	-	-	3.00	-	-	1.00	-	2.00	-	-	1.00
52	C318	HS8581	Professional Communication	1.00	1.50	-	1.00	2.00	-	-	2.00	3.00	-	-	1.33
			VII SEM												
52	C401	CE8701	ECV	3.00	3.00	3.00	3.00	-	1.00	1.00	2.00	2.00	1.00	-	1.20

53	C402	CE8702	RADHE	1.60	2.00	2.25	1.50	-	1.75	1.00	1.00	1.00	1.00	-	1.60
54	C403	CE8703	WR	1.80	2.00	2.67	1.67	1.50	1.40	3.00	1.50	1.67	1.00	1.00	2.00
55	C404	OEN751	GBD	2.50	2.50	-	1.00	-	1.50	1.00	2.00	2.00	3.00	2.40	2.40
56	C405	EN8591	MSWM	1.60	2.00	1.66	1.00	-	2.20	2.00	2.33	-	-	2.00	1.00
57	C406	CE8711	CIP	3.00	3.00	3.00	1.00	2.00	1.00	-	3.00	2.75	2.75	3.00	1.25
58	C407	CE8712	Industrial training	1.00	1.00	2.00	-	-	2.00	1.00	-	1.00	-	-	2.00
			VIII SEM												
59	C410	CE8091	HWRE	2.00	-	2.80	1.80	2.00	1.80	2.00	1.50	2.00	2.00	2.00	2.00
60	C411	CE8020	MRRS	1.50	1.75	2.00	2.00	3.00	2.70	2.00	1.40	2.00	2.00	2.00	2.00
61	C412	CE8811	PROJECT	3.00	3.00	3.00	3.00	1.00	1.00	3.00	2.50	3.00	3.00	2.00	1.00
DIRECT ATTAINMENT				1.81	1.76	1.75	1.54	1.58	1.30	1.29	1.36	1.60	1.50	1.43	1.41
INDIRECT ATTAINMENT				2.50	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
DIRECT ATTAINMENT (80%)				1.45	1.41	1.40	1.23	1.26	1.04	1.03	1.09	1.28	1.20	1.14	1.13
INDIRECT ATTAINMENT (20%)				0.50	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
TOTAL ATTAINMENT FOR 17-21				1.95	2.01	2.00	1.83	1.86	1.64	1.63	1.69	1.88	1.80	1.74	1.73

Sri Sai Ram Engineering College (Autonomous), Chennai – 44.**Department of Civil Engineering****PSO ATTAINMENT - 2017-2021 (R-2017)**

SL.NO	CO CODE	SUB CODE	SUB NAME	NOR PSO1	NOR PSO2
			I SEM		
1	C101	HS6151	Communicative English	-	0.96
2	C102	MA6151	Engg Mathematics - I	1.00	1.40
3	C103	PH6151	ENGG PHY	1.28	1.92
4	C104	CY6151	ENGG CHE	0.96	1.60
5	C105	GE6151	Prob Solving and PYTHON Programming	0.80	1.44
6	C106	GE6152	ENGG GRAP	2.80	2.80
7	C108	GE8161	Prob Solving and PYTHON Programming Laboratory	3.00	1.00
8	C109	BS8161	PHY/CHE Laboratory	2.40	2.80
			II SEM		
9	C110	HS6251	Technical English	-	0.93
10	C111	MA6251	Engg Mathematics-II	1.05	1.47
11	C112	PH8201	Physics for Civil Engineering	1.28	1.92
12	C113	BE8251	BASIC ELEC & ELEC ENGG	0.96	1.60
13	C114	GE8291	Env. Science and Engg	1.06	1.28
14	C115	GE8292	ENGG MECH	2.24	2.24
15	C116	GE8261	Engg. Practices Laboratory	3.00	1.00
16	C117	CE8211	CAD LAB	2.40	2.80
			III SEM		
17	C201	MA8353	TPDE	0.33	0.27
18	C202	CE8301	SOM - I	1.44	1.40
19	C203	CE8302	Fluid Mechanics	0.80	0.80
20	C204	CE8351	Surveying	1.12	1.12
21	C205	CE8391	Construction materials	1.20	1.44
22	C206	CE8392	Engg. Geology	1.06	1.86
23	C207	CE8311	Construction materials Laboratory	2.00	1.33
24	C208	CE8361	Surveying Laboratory	-	1.00

25	C209	HS8381	Interpersonal Skills / Listening and Speaking	1.00	-
			IV SEM		
26	C210	MA8491	NM	1.00	0.80
27	C211	CE8401	CTEP	0.80	0.96
28	C212	CE8402	SOM-II	1.12	1.60
29	C213	CE8403	AHE	0.64	0.85
30	C214	CE8404	CT	1.06	0.80
31	C215	CE8491	SM	1.28	1.07
32	C216	CE8481	SOM LAB	2.25	1.50
33	C217	CE8461	HE LAB	1.00	1.00
34	C218	HS8461	Advance reading and writing	2.00	1.33
			V SEM		
35	C301	CE8501	DRC & Concrete Elements	1.73	1.91
36	C302	CE8502	SA-I	1.60	1.76
37	C303	EN8491	Water Supply Engg	1.40	1.40
38	C304	CE8591	FE	1.60	1.60
39	C305	GI8014	GIS	1.60	0.80
40	C306	OR0551	RES	1.40	1.40
41	C307	CE8511	SM Laboratory	1.00	-
42	C308	CE8512	Water and waste water laboratory	1.30	1.50
43	C309	CE8513	Survey Camp	2.00	2.25
			VI SEM		
44	C310	CE8601	DSS	1.78	1.18
45	C311	CE8602	SA-II	1.59	1.21
46	C312	CE8603	IE	1.76	0.88
47	C313	CE8604	HE	1.19	1.49
48	C314	EN8592	WWE	2.56	1.71
49	C315	OCE551	APCE	1.68	1.85
50	C316	CE8611	HE LAB	1.00	2.00
51	C317	CE8612	IRR. And Env. Engg Drawing	2.00	1.00
52	C318	HS8581	Professional Communication	2.00	1.33
			VII SEM		
52	C401	CE8701	ECV	2.60	2.00
53	C402	CE8702	RADHE	1.60	1.60
54	C403	CE8703	WR	2.00	1.75

55	C404	OEN751	GBD	1.40	1.00
56	C405	EN8591	MSWM	1.00	1.00
57	C406	CE8711	CIP	1.66	3.00
58	C407	CE8712	Industrial training	-	1.00
			VIII SEM		
59	C410	CE8091	HWRE	2.80	2.00
60	C411	CE8020	MRRS	2.33	2.50
61	C412	CE8811	PROJECT	2.33	2.00
DIRECT ATTAINMENT				1.57	1.49
INDIRECT ATTAINMENT				3.00	3.00
DIRECT ATTAINMENT (80%)				1.26	1.19
INDIRECT ATTAINMENT (20%)				0.60	0.60
TOTAL ATTAINMENT FOR 17-21				1.86	1.79

23	CS8383	C223	Object Oriented Programming Laboratory	2.48		2.37		2.40							2.52
24	CS8382	C224	Digital Systems Laboratory	3.00	2.00	3.00		1.00						3.00	1.75
25	HS8381	C225	Interpersonal Skills/Listening &Speaking	3.00	3.00	2.60	2.60	3.00	2.20	2.00	2.00	2.00	2.00	1.60	2.20
26	MA8402	C226	Probability and Queueing Theory	2.40	2.80	2.00									
27	CS8491	C227	Computer Architecture	3.00	3.00	2.40	2.25	1.67	1.00	2.00	1.40	1.50	1.50		1.40
28	CS8492	C228	Database Management Systems	3.00	3.00	2.00	1.00	2.00	1.00	2.00	1.00	1.00	2.00	2.00	3.00
29	CS8451	C229	Design and Analysis of Algorithms Algorithms	2.20	2.80	1.00	1.33								
30	CS8493	C230	Operating Systems	2.40	2.66	3.00	2.00	2.00							
31	CS8494	C231	Software Engineering	3.00	3.00	2.00	1.00	2.00	1.00	2.00	1.00	1.00	2.00	2.00	3.00
32	CS8481	C232	Database Management Systems Laboratory	2.00	2.00	1.80	1.40	1.80	1.00			1.00		1.00	1.00
33	CS8461	C233	Operating Systems Laboratory	2.40	2.60	2.80	2.80	2.60	1.00	1.00	1.00	2.40	1.50	1.50	3.00
34	HS8461	C234	Advanced Reading and Writing	3.00	3.00	2.60	2.60	3.00	2.20	2.00	2.00	2.00	2.00	1.60	2.20
35	MA8551	C335	Algebra and Number Theory	1.40	2.00	1.50	1.00	1.00		1.00	1.00	1.00	1.25	2.00	1.00
36	CS8591	C336	Computer Networks	3.00	2.00	3.00	1.33				1.17	2.00		1.00	
37	EC8691	C337	Microprocessors and Microcontrollers	2.80	2.20	1.60	2.00	1.50	1.50	1.50	1.00	2.00	1.00	1.00	1.00
38	CS8501	C338	Theory of Computation	3.00	2.83	2.83	2.00	2.20	2.00					2.00	2.00
39	CS8592	C339	Object Oriented Analysis and Design	1.50	2.75	3.00	3.00	3.00	2.00	2.00	1.00	2.00	2.00	2.00	1.75
40	OEC552	C340	Soft Computing	2.17	2.50	2.00	2.83	1.67							1.50
	OEC551		Air Pollution and Control Engineering	2.31	2.38	2.32	2.03	1.87							
41	EC8681	C341	Microprocessors and Microcontrollers Lab	3.00	2.00	1.80	1.20	1.00	2.00		1.20	2.00	2.00	1.50	
42	CS8582	C342	Object Oriented Analysis and Design Laboratory	3.00	3.00	3.00	2.33	2.50	1.67	1.00	1.75		2.17	2.17	1.33
43	CS8581	C343	Networks Laboratory	2.83	3.00	3.00					1.00	2.00	2.00		2.00

44	CS8651	C344	Internet Programming	2.00	2.00	2.00	2.00	1.17	1.25			2.83	2.00	2.00	2.20
45	CS8691	C345	Artificial Intelligence	2.67	2.33		1.33		1.17			1.20	1.00	1.20	1.17
46	CS8601	C346	Mobile Computing	3.00	3.00	2.83	1.33	2.00	2.00		2.00	3.00	2.00		2.00
47	CS8602	C347	Compiler Design	2.67	2.75		2.00		1.00	1.00		1.50	1.00	2.00	1.40
48	CS8603	C348	Distributed Systems	2.00	2.00	2	2.00	2.17	2.15			2.83	2	2.00	2.20
49	CS8075	C349	Data Warehousing and Data Mining	2.47	2.42	2.28	1.73	1.78	1.51		1.60	2.25	1.40	1.00	2.00
50	CS8661	C350	Internet Programming Laboratory	3.00	3.00	3.00	2.17	3.00	2.67			2.00	1.67	2.00	1.83
51	CS8662	C351	Mobile Application Development Laboratory	3.00	2.50	2.50	2.25	2.67	1.50	1.50	2.00	3.00	2.00	2.33	2.20
52	CS8611	C352	Mini Project	2.83	2.20	2.33	3.00	3.00	2.50	3.00	3.00		2.67	3.00	3.00
53	HS8581	C353	Professional Communication	3.00	3.00	2.60	2.60	3.00	2.20	2.00	2.00	2.00	2.00	1.60	2.20
54	MG8591	C454	Principles of Management	3.00	3.00		2.50		2.70		2.00	3.00	2.00	3.00	3.00
55	CS8792	C455	Cryptography and Network Security	2.20	3.00		2.00								1.00
56	CS8791	C456	Cloud Computing	3.00	3.00	3.00	2.33	2.50	1.67	1.00	1.75	3.00	2.17	1.33	1.33
57	OCE751	C457	Open Elective II - ESIA	2.80	2.80	2.60	3.00	2.40	2.80	2.30	2.40	2.20	2.80	2.20	2.40
58	CS8082	C458	Professional Elective II - Machine Learning Techniques	2.50	2.00	2.00	1.00					2.00	2.00	1.00	2.00
	IT8075		Professional Elective II - Software Project Management	2.80	3.00	1.33	2.50	1.00		1.00	2.00	1.17	1.67	3.00	1.00
59	CS8073	C459	Professional Elective III - C# &.NET	2.00	1.67	1.67	2.00	2.00	2.00	1.00				1.33	1.00
	CS8079		Professional Elective III - HCI	2.33	1.75	3.00	2.00	2.25	2.00	2.00					2.50
60	CS8711	C460	Cloud Computing Laboratory	1.00	1.00		2.00	1.33		1.00	1.00	3.00	2.00	2.00	1.00
61	IT8761	C461	Security Laboratory	1.00	1.00		2.00	1.33							1.00
62	CS8074	C462	Professional Elective IV - Cyber Forensics	1.75	2.25	2.50	1.00								

	GE8076		Professional Elective IV - Professional Ethics in Engineering	2.17	1.67	1.67				1.00	3.00	2.00		2.00	2.00
63	CS8078	C463	Professional Elective V - Green Computing	2.20	2.17		2.00	2.50	2.00	2.00	2.00	2.33	1.50	1.50	1.50
64	CS8811	C464	Project Work	2.00	3.00	2.40	2.17	2.00	1.75	1.80	1.00	1.40	1.25	1.75	2.33
Attainment (Direct)				2.37	2.16	1.82	1.32	1.38	0.93	0.82	0.87	1.15	1.03	1.03	1.42
Attainment (Indirect)				2.74	2.62	2.12	1.80	1.89	1.91	1.73	2.19	2.67	2.71	2.09	2.68
80% of Attainment(Direct)				1.89	1.73	1.46	1.05	1.10	0.75	0.66	0.70	0.92	0.83	0.82	1.14
20% of Attainment (Indirect)				0.55	0.52	0.42	0.36	0.38	0.38	0.35	0.44	0.53	0.54	0.42	0.54
Total Attainment				2.44	2.25	1.88	1.41	1.48	1.13	1.00	1.13	1.45	1.37	1.24	1.67

SRI SAIRAM ENGINEERING COLLEGE
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
PSO Attainment for the batch 2017 - 21 (Regulation 2017)

S.NO	Subject Code	Course Code	Subject	PSO1	PSO2
1	HS8151	C101	Communicative English	2.40	2.40
2	MA8151	C102	Engineering Mathematics - I	2.40	2.40
3	PH8151	C103	Engineering Physics	2.40	2.40
4	CY8151	C104	Engineering Chemistry	2.60	2.60
5	GE8151	C105	Problem Solving and Python Programming	2.80	2.80
6	GE8152	C106	Engineering Graphics	2.40	2.60
7	GE8161	C107	Problem Solving and Python Programming Laboratory	2.80	2.80
8	BS8161	C108	Physics and Chemistry Laboratory	2.00	2.40
9	HS8251	C109	Technical English	2.20	2.40
10	MA8251	C110	Engineering Mathematics - II	2.20	2.40
11	PH8252	C111	Physics for Information Science	2.00	2.40
12	BE8255	C112	Basic Electrical, Electronics and Measurement Engineering	2.20	2.60
13	GE8291	C113	Environmental Science and Engineering	2.00	2.60
14	CS8251	C114	Programming in C	2.60	2.80
	GE8261	C115	Engineering Practices Laboratory	2.60	2.80
16	CS8261	C116	C Programming Laboratory	2.80	2.80
17	MA8351	C217	Discrete Mathematics	1.00	1.00

18	CS8351	C218	Digital Principles and System Design	2.00	2.60
19	CS8391	C219	Data Structures	2.10	2.30
20	CS8392	C220	Object Oriented Programming	2.20	2.20
21	EC8395	C221	Communication Engineering	1.00	1.00
22	CS8381	C222	Data Structures Laboratory	2.80	2.60
23	CS8383	C223	Object Oriented Programming Laboratory	2.62	2.53
24	CS8382	C224	Digital Systems Laboratory	2.00	2.60
25	HS8381	C225	Interpersonal Skills/Listening & Speaking	2.60	2.60
26	MA8402	C226	Probability and Queueing Theory	1.00	1.00
27	CS8491	C227	Computer Architecture	2.20	2.00
28	CS8492	C228	Database Management Systems	1.00	1.00
29	CS8451	C229	Design and Analysis of Algorithms Algorithms	3.00	2.00
30	CS8493	C230	Operating Systems	2.80	2.60
31	CS8494	C231	Software Engineering	1.00	1.00
32	CS8481	C232	Database Management Systems Laboratory	1.40	1.40
33	CS8461	C233	Operating Systems Laboratory	3.00	2.00
34	HS8461	C234	Advanced Reading and Writing	2.60	2.60
35	MA8551	C335	Algebra and Number Theory	1.00	1.00
36	CS8591	C336	Computer Networks	1.16	1.33
37	EC8691	C337	Microprocessors and Microcontrollers	2.00	1.60

38	CS8501	C338	Theory of Computation	1.00	1.00
39	CS8592	C339	Object Oriented Analysis and Design	2.50	2.00
40	OEC552	C340	Soft Computing	2.50	2.00
41	OEC551		Air Pollution and Control Engineering	2.00	2.00
42	EC8681	C341	Microprocessors and Microcontrollers Lab	1.00	1.20
43	CS8582	C342	Object Oriented Analysis and Design Labora	3.00	2.00
44	CS8581	C343	Networks Laboratory	1.16	1.33
45	CS8651	C344	Internet Programming	2.00	2.66
46	CS8691	C345	Artificial Intelligence	2.66	2.50
47	CS8601	C346	Mobile Computing	3.00	2.00
48	CS8602	C347	Compiler Design	2.83	2.00
49	CS8603	C348	Distributed Systems	2.00	2.66
50	CS8075	C349	Data Warehousing and Data Mining	2.00	1.60
51	CS8661	C350	Internet Programming Laboratory	2.33	2.00
52	CS8662	C351	Mobile Application	2.00	2.33
		Development Laboratory			
53	CS8611	C352	Mini Project	2.00	2.33
54	HS8581	C353	Professional Communication	2.60	2.60
55	MG8591	C454	Principles of Management	2.00	2.00
56	CS8792	C455	Cryptography and Network Security	2.66	2.66
57	CS8791	C456	Cloud Computing	3.00	2.00
58	OCE751	C457	Open Elective II - ESIA	1.00	1.00
59	CS8082	C458	Professional Elective II - Machine Learning Techniques	3.00	3.00

60	IT8075		Professional Elective II - Software Project Management	1.66	1.00
61	CS8073	C459	Professional Elective III - C# &.NET	2.00	2.00
62	CS8079		Professional Elective III - HCI	2.00	2.00
63	CS8711	C460	Cloud Computing Laboratory	1.00	1.00
64	IT8761	C461	Security Laboratory	2.00	3.00
65	CS8074	C462	Professional Elective IV - Cyber Forensics	2.00	2.00
66	GE8076		Professional Elective IV - Professional Ethic Engineering	2.66	2.00
67	CS8078	C463	Professional Elective V - Green Computing	2.00	2.60
68	CS8811	C464	Project Work	2.50	2.33
Attainment (Direct)				2.02	1.65
Attainment (Indirect)				2.05	2.76
80% of Attainment (Direct)				1.62	1.32
20% of Attainment (Indirect)				0.41	0.55
Total Attainment				2.03	1.87

**CO Attainment Level for the Batch 2017 -2021 (R2017)
(Including First Year)**

S.No	Course Code	Subject Name	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
									Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
1.	HS8151	Communicative English	3.00	3.00	3.00	3.00	3.00	-	Y	Y	Y	Y	Y	-
2.	MA8151	Engineering Mathematics – I	2.60	2.60	2.60	2.60	2.60	-	Y	Y	Y	Y	Y	-
3.	PH8151	Engineering Physics	2.80	2.80	2.80	2.80	2.80	-	Y	Y	Y	Y	Y	-
4.	CY8151	Engineering Chemistry	3.00	3.00	3.00	3.00	3.00	-	Y	Y	Y	Y	Y	-
5.	GE8151	Problem Solving and Python Programming	2.60	2.60	2.60	2.60	2.60	-	Y	Y	Y	Y	Y	-
6.	GE8152	Engineering Graphics	3.00	3.00	2.80	3.00	3.00	-	Y	Y	Y	Y	Y	-
7.	GE8161	Problem Solving and Python Programming Laboratory	3.00	3.00	3.00	3.00	3.00	-	Y	Y	Y	Y	Y	-
8.	BS8161	Physics and Chemistry Laboratory	3.00	3.00	3.00	3.00	3.00	-	Y	Y	Y	Y	Y	-
9.	HS8251	Technical English	3.00	3.00	3.00	3.00	3.00	-	Y	Y	Y	Y	Y	-
10.	MA8251	Engineering Mathematics – II	3.00	2.80	2.80	2.40	2.40	-	Y	Y	Y	Y	Y	-
11.	PH8253	Physics for Electronics Engineering	3.00	2.80	2.80	2.60	2.60	-	Y	Y	Y	Y	Y	-
12.	BE8254	Basic Electrical and Instrumentation Engineering	2.40	2.40	2.40	2.40	2.40	-	Y	Y	Y	Y	Y	-
13.	EC8251	Circuit Analysis	2.40	2.40	2.40	2.40	2.40	-	Y	Y	Y	Y	Y	-
14.	EC8252	Electronic Devices	2.40	2.40	2.40	2.40	2.40	-	Y	Y	Y	Y	Y	-
15.	EC8261	Circuits and Devices Laboratory	3.00	3.00	3.00	3.00	3.00	-	Y	Y	Y	Y	Y	-
16.	GE8261	Engineering Practices Laboratory	3.00	3.00	3.00	3.00	3.00	-	Y	Y	Y	Y	Y	-
17.	MA8352	Linear Algebra and Partial Differential Equations	2.40	2.40	2.60	2.40	2.40	-	N	N	Y	Y	Y	-
18.	EC8393	Fundamentals of Data Structures In C	2.40	2.40	2.40	-	-	-	Y	Y	Y	N	N	-
19.	EC8351	Electronic Circuits- I	2.40	2.40	2.40	2.40	2.40	-	Y	Y	Y		N	-
20.	EC8352	Signals and Systems	2.40	2.40	2.40	2.40	2.40	-	Y	Y	Y	Y	Y	-
21.	EC8392	Digital Electronics	2.40	2.40	2.40	2.40	2.40	-	Y	Y	Y	Y	Y	-
22.	EC8391	Control System Engineering	2.60	2.40	2.40	2.60	2.60	-	Y	N	N	Y	Y	-
23.	EC8381	Fundamentals of Data Structures in C Laboratory	2.40	2.40	2.40	-	-	-	Y	Y	Y	-	-	-

S.No	Course Code	Subject Name	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
									Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
24.	EC8361	Analog and Digital Circuits Laboratory	3.00	3.00	3.00	3.00	3.00	-	Y	Y	Y	Y	Y	-
25.	HS8381	Interpersonal Skills/Listening & Speaking	3.00	3.00	3.00	3.00	3.00	-	Y	Y	Y	Y	Y	-
26.	MA8451	Probability and Random Processes	2.40	2.40	2.40	2.40	2.40	-	N	N	N	Y	Y	-
27.	EC8452	Electronic Circuits II	2.40	2.60	2.40	2.60	2.60	-	Y	Y	Y	Y	Y	-
28.	EC8491	Communication Theory	2.40	2.40	2.40	2.40	2.40	-	Y	Y	Y	Y	Y	-
29.	EC8451	Electromagnetic Fields	2.40	2.40	2.40	2.40	2.40	-	Y	Y	Y	Y	Y	-
30.	EC8453	Linear Integrated Circuits	2.40	2.40	2.40	2.40	2.40	-	Y	Y	Y	Y	Y	-
31.	GE8291	Environmental Science and Engineering	2.40	2.60	2.60	2.60	2.60	-	Y	Y	Y	Y	Y	-
32.	EC8461	Circuits Design and Simulation Laboratory	3.00	3.00	3.00	3.00	3.00	-	Y	Y	Y	Y	Y	-
33.	EC8462	Linear Integrated Circuits Laboratory	3.00	3.00	3.00	3.00	3.00	-	Y	Y	Y	Y	Y	-
34.	EC8501	Digital Communication	2.40	2.40	2.40	2.40	2.60	2.60	Y	Y	Y	Y	Y	Y
35.	EC8553	Discrete-Time Signal Processing	2.40	2.40	2.40	2.40	2.40	2.40	Y	Y	N	Y	Y	N
36.	EC8552	Computer Architecture and Organization	2.40	2.40	2.40	2.40	2.40	2.40	Y	Y	Y	Y	Y	Y
37.	EC8551	Communication Networks	2.40	2.40	2.40	2.40	2.40	2.60	Y	Y	Y	Y	Y	Y
38.	EC8073	Medical Electronics (PE I)	2.40	2.40	2.40	2.40	2.40	2.40	Y	Y	Y	Y	Y	Y
39.	OIT552	Cloud Computing (OE I)	2.40	2.40	2.40	2.40	2.40	2.60	Y	Y	Y	Y	Y	Y
40.	ORO551	Renewable Energy Sources (OE I)	2.40	2.40	2.40	2.40	2.40	2.40	Y	Y	Y	Y	Y	Y
41.	OBT553	Fundamentals of Nutrition (OE I)	2.40	2.40	2.40	2.40	2.40	2.40	Y	Y	Y	Y	Y	Y
42.	EC8562	Digital Signal Processing Laboratory	3.00	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y	Y
43.	EC8561	Communication Systems Laboratory	3.00	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y	Y
44.	EC8563	Communication Networks Laboratory	3.00	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y	Y
45.	EC8691	Microprocessors and Microcontrollers	3.00	3.00	2.80	2.40	2.40	2.40	Y	Y	Y	Y	Y	Y
46.	EC8095	VLSI Design	2.40	2.40	2.60	2.40	2.40	2.40	Y	Y	Y	Y	Y	Y
47.	EC8652	Wireless Communication	2.40	2.40	2.40	2.40	2.40	2.40	Y	Y	Y	Y	Y	Y
48.	MG8591	Principles of Management	2.40	2.40	2.40	2.40	2.40	2.40	Y	N	Y	Y	N	Y

S.No	Course Code	Subject Name	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
									Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
49.	EC8651	Transmission Lines and RF Systems	2.60	2.60	2.60	2.40	2.40	2.40	Y	Y	Y	Y	N	N
50.	EC8004	Wireless Networks (PE II)	2.40	2.40	2.40	2.40	2.40	2.40	Y	Y	Y	Y	Y	Y
51.	EC8681	Microprocessors and Microcontrollers Laboratory	3.00	3.00	2.80	2.40	2.40	2.40	Y	Y	N	N	N	N
52.	EC8661	VLSI Design Laboratory	3.00	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y	Y
53.	EC8611	Technical Seminar	3.00	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y	Y
54.	EC8701	Antennas and Microwave Engineering	3.00	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y	Y
55.	EC8751	Optical Communication	3.00	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y	Y
56.	EC8791	Embedded and Real Time Systems	3.00	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y	Y
57.	EC8702	Ad hoc and Wireless Sensor Networks	3.00	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y	Y
58.	CS8082	Machine Learning Techniques (PE I)	2.40	2.40	2.40	2.40	2.40	2.40	Y	Y	Y	Y	Y	Y
59.	OME754	Industrial Safety (OE II)	2.40	2.40	2.40	2.40	2.40	2.40	Y	Y	Y	Y	Y	Y
60.	EC8711	Embedded Laboratory	3.00	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y	Y
61.	EC8761	Advanced Communication Laboratory	3.00	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y	Y
62.	GE8076	Professional Ethics in Engineering (PE - IV)	2.40	2.40	2.40	2.40	2.40	2.40	Y	Y	Y	Y	Y	Y
63.	EC8094	Satellite Communication (PE-V)	3.00	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y	Y
64.	CS8086	Soft Computing (PE - V)	3.00	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y	Y
65	EC8811	Project Work	3.00	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y	Y

PO-PSO Matrix of all courses including first year**FOR REGULATION 2017
PO Attainment Calculation for the Batch 2017-21**

S.No	Course Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	HS8151	Communicative English	0.00	0.00	0.00	0.00	0.00	2.00	1.00	0.00	2.00	3.00	0.00	1.00
2	MA8151	Engineering Mathematics – I	2.60	1.73	0.00	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	PH8151	Engineering Physics	2.61	2.05	1.87	0.00	0.00	1.87	1.87	0.00	0.00	0.00	0.00	0.00
4	CY8151	Engineering Chemistry	2.00	2.00	3.00	0.00	0.00	2.00	2.40	1.00	1.00	0.00	0.00	1.00
5	GE8151	Problem Solving and Python Programming	2.25	2.08	1.91	2.17	1.39	1.56	1.56	0.87	1.73	1.73	1.44	2.08
6	GE8152	Engineering Graphics	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97	0.00	0.00
7	GE8161	Problem Solving and Python Programming Laboratory	0.00	2.50	2.80	2.40	2.33	0.00	1.00	1.00	1.00	2.00	2.50	3.00
8	BS8161	Physics and Chemistry Laboratory	3.00	2.00	2.00	0.00	0.00	1.00	1.00	1.60	0.00	0.00	0.00	0.00
9	HS8251	Technical English	0.00	0.00	0.00	0.00	0.00	1.00	0.00	2.00	3.00	3.00	1.00	1.00
10	MA8251	Engineering Mathematics – II	2.68	1.07	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00
11	PH8253	Physics for Electronics Engineering	2.76	1.84	2.21	1.84	2.02	0.92	0.92	0.00	0.92	0.92	1.84	1.47
12	BE8254	Basic Electrical and Instrumentation Engineering	2.40	2.08	1.44	1.44	1.60	0.80	0.80	0.00	0.00	0.00	0.00	1.76
13	EC8251	Circuit Analysis	2.40	2.40	1.60	2.40	0.00	0.80	0.00	0.00	2.40	0.00	0.00	1.60
14	EC8252	Electronic Devices	1.92	1.87	2.08	1.92	1.60	1.76	0.00	0.00	1.80	1.60	1.07	0.80
15	EC8261	Circuits and Devices Laboratory	3.00	3.00	1.00	3.00	1.00	0.00	0.00	0.00	0.00	0.00	2.00	3.00
16	GE8261	Engineering Practices Laboratory	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	MA8352	Linear Algebra and Partial Differential Equations	2.44	2.44	1.95	1.63	2.28	0.00	0.00	0.00	0.00	0.00	0.00	0.81
18	EC8393	Fundamentals of Data Structures In C	1.28	1.44	1.92	1.92	1.20	1.07	1.07	0.80	0.80	1.28	1.12	0.80
19	EC8351	Electronic Circuits- I	2.40	2.40	2.40	2.08	1.92	0.80	1.33	2.40	1.60	1.60	1.12	1.44
20	EC8352	Signals and Systems	2.24	1.12	0.80	0.80	0.80	0.80	0.00	0.00	0.00	0.00	0.80	0.80
21	EC8392	Digital Electronics	2.08	1.60	1.92	1.60	0.00	0.00	0.00	1.00	1.40	1.20	0.00	1.12
22	EC8391	Control System Engineering	2.52	2.52	2.35	2.52	1.85	1.68	0.00	0.00	0.00	0.00	0.00	0.84
23	EC8381	Fundamentals of Data Structures in C Laboratory	2.40	2.40	2.40	2.40	2.40	0.00	0.00	0.00	2.40	0.00	0.00	1.60
24	EC8361	Analog and Digital Circuits Laboratory	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	HS8381	Interpersonal Skills/Listening & Speaking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.25	3.00	0.00	1.00
26	MA8451	Probability and Random Processes	2.40	2.40	1.92	1.60	2.24	0.00	0.00	0.00	0.00	0.00	0.00	0.80
27	EC8452	Electronic Circuits II	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

S.No	Course Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
28	EC8491	Communication Theory	2.40	1.12	2.40	1.12	0.00	0.96	0.00	0.00	0.00	0.00	1.20	1.12
29	EC8451	Electromagnetic Fields	2.08	2.08	0.80	1.28	0.80	0.80	0.00	0.00	0.00	0.00	0.00	0.80
30	EC8453	Linear Integrated Circuits	2.40	0.80	2.40	1.28	0.80	1.12	0.00	0.00	0.00	0.00	1.28	1.28
31	GE8291	Environmental Science and Engineering	2.56	1.88	1.54	1.54	1.88	1.71	0.00	0.00	0.85	0.00	0.00	2.39
32	EC8461	Circuits Design and Simulation Laboratory	2.60	1.50	2.00	2.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	EC8462	Linear Integrated Circuits Laboratory	3.00	1.00	3.00	1.60	1.00	1.40	0.00	0.00	0.00	0.00	1.60	1.60
34	EC8501	Digital Communication	2.47	2.14	1.64	1.37	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.82
35	EC8553	Discrete-Time Signal Processing	2.40	2.00	2.13	2.00	1.87	2.00	2.00	0.00	0.00	0.00	0.00	1.40
36	EC8552	Computer Architecture and Organization	2.40	1.60	1.07	0.80	0.00	0.80	0.00	0.80	0.80	0.00	0.80	1.60
37	EC8551	Communication Networks	2.03	1.89	1.83	1.46	1.83	1.08	1.62	0.00	0.00	1.62	0.00	0.00
38	EC8073	Medical Electronics (PE I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39	OIT552	Cloud Computing (OE I)	1.49	1.35	1.49	1.62	1.49	1.46	1.62	1.46	1.46	1.62	1.62	1.49
40	ORO551	Renewable Energy Sources (OE I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	OBT553	Fundamentals of Nutrition (OE I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	EC8562	Digital Signal Processing Laboratory	3.00	3.00	3.00	3.00	3.00	2.50	3.00	2.67	3.00	3.00	2.83	3.00
43	EC8561	Communication Systems Laboratory	3.00	2.67	2.50	1.50	1.75	0.00	0.00	0.00	1.00	0.00	0.00	1.50
44	EC8563	Communication Networks Laboratory	3.00	3.00	2.83	2.50	3.00	1.00	0.00	0.00	1.00	0.00	2.00	1.83
45	EC8691	Microprocessors and Microcontrollers	2.37	1.19	0.89	0.00	0.89	0.89	0.00	0.00	0.00	0.00	0.89	0.89
46	EC8095	VLSI Design	2.43	1.62	1.62	1.62	0.81	0.81	0.00	0.00	0.00	0.00	0.81	0.81
47	EC8652	Wireless Communication	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	MG8591	Principles of Management	0.00	0.00	0.00	1.60	0.00	1.73	1.44	2.40	2.40	2.00	2.40	2.00
49	EC8651	Transmission Lines and RF Systems	2.50	2.50	0.83	1.94	2.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	EC8004	Wireless Networks (PE II)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	EC8681	Microprocessors and Microcontrollers Laboratory	2.67	2.67	2.67	2.67	2.67	0.00	0.00	0.00	2.67	2.67	2.67	2.67
52	EC8661	VLSI Design Laboratory	3.00	3.00	3.00	3.00	3.00	3.00	2.00	2.00	3.00	2.00	3.00	3.00
53	EC8611	Technical Seminar	3.00	2.50	0.00	2.00	0.00	2.00	2.33	2.33	1.25	3.00	0.00	2.50
54	EC8701	Antennas and Microwave Engineering	3.00	3.00	2.25	1.00	1.33	0.00	0.00	0.00	0.00	0.00	0.00	1.00
55	EC8751	Optical Communication	2.67	1.67	1.80	1.60	2.00	1.00	1.00	1.00	1.00	1.00	1.33	2.00
56	EC8791	Embedded and Real Time Systems	2.00	2.00	2.33	2.00	2.83	0.00	0.00	0.00	2.00	2.50	2.00	2.00
57	EC8702	Ad hoc and Wireless Sensor Networks	3.00	2.00	2.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	1.00	1.00

S.No	Course Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
58	CS8082	Machine Learning Techniques (PE I)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	OME754	Industrial Safety (OE II)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	EC8711	Embedded Laboratory	3.00	2.67	2.33	2.00	2.00	2.00	2.00	0.00	0.00	0.00	0.00	2.00
61	EC8761	Advanced Communication Laboratory	3.00	2.00	3.00	2.00	0.00	0.00	0.00	1.00	3.00	1.00	0.00	1.00
62	GE8076	Professional Ethics in Engineering (PE - IV)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
63	EC8094	Satellite Communication (PE- V)	2.33	2.33	2.00	2.00	1.50	1.17	1.17	0.00	0.00	0.00	2.00	1.33
64	CS8086	Soft Computing (PE - V)	2.83	2.33	2.50	2.33	2.17	2.17	1.60	0.00	0.00	0.00	2.00	1.83
65	EC8811	Project Work	2.00	2.00	1.67	1.20	2.00	1.75	1.60	1.50	1.80	1.67	1.75	1.75
Attainment			2.51	2.07	2.00	1.85	1.81	1.41	1.56	1.52	1.73	1.93	1.63	1.53

CO-PSO calculation for the Batch 2017-21 - Regulation 2017

S.No	Course Code	Subject Name	Normalized PSO1	Normalized PSO2
1	HS8151	Communicative English	2.00	2.00
2	MA8151	Engineering Mathematics – I	1.73	1.73
3	PH8151	Engineering Physics	1.87	1.87
4	CY8151	Engineering Chemistry	2.00	2.00
5	GE8151	Problem Solving and Python Programming	1.73	2.17
6	GE8152	Engineering Graphics	2.96	1.97
7	GE8161	Problem Solving and Python Programming Laboratory	2.50	2.00
8	BS8161	Physics and Chemistry Laboratory	2.60	2.40
9	HS8251	Technical English	2.00	2.00
10	MA8251	Engineering Mathematics – II	0.00	0.89
11	PH8253	Physics for Electronics Engineering	1.84	1.84
12	BE8254	Basic Electrical and Instrumentation Engineering	0.00	0.00
13	EC8251	Circuit Analysis	0.00	0.00
14	EC8252	Electronic Devices	2.08	1.44
15	EC8261	Circuits and Devices Laboratory	3.00	3.00
16	GE8261	Engineering Practices Laboratory	0.00	0.00
17	MA8352	Linear Algebra and Partial Differential Equations	2.44	1.63
18	EC8393	Fundamentals of Data Structures In C	1.60	2.08
19	EC8351	Electronic Circuits- I	2.08	1.44
20	EC8352	Signals and Systems	0.80	0.80
21	EC8392	Digital Electronics	2.40	1.60
22	EC8391	Control System Engineering	2.52	1.68
23	EC8381	Fundamentals of Data Structures in C Laboratory	2.08	1.28
24	EC8361	Analog and Digital Circuits Laboratory	0.00	0.00
25	HS8381	Interpersonal Skills/Listening & Speaking	3.00	1.00
26	MA8451	Probability and Random Processes	2.40	1.60
27	EC8452	Electronic Circuits II	0.00	0.00
28	EC8491	Communication Theory	1.76	1.12
29	EC8451	Electromagnetic Fields	1.60	1.28
30	EC8453	Linear Integrated Circuits	2.08	1.28
31	GE8291	Environmental Science and Engineering	2.56	1.49
32	EC8461	Circuits Design and Simulation Laboratory	0.00	2.20
33	EC8462	Linear Integrated Circuits Laboratory	2.60	1.60
34	EC8501	Digital Communication	1.64	0.82
35	EC8553	Discrete-Time Signal Processing	1.92	0.80
36	EC8552	Computer Architecture and Organization	1.60	1.60
37	EC8551	Communication Networks	1.89	1.89

S.No	Course Code	Subject Name	Normalized PSO1	Normalized PSO2
38	EC8073	Medical Electronics (PE I)	0.00	0.00
39	OIT552	Cloud Computing (OE I)	2.43	1.46
40	ORO551	Renewable Energy Sources (OE I)	0.00	0.00
41	OBT553	Fundamentals of Nutrition (OE I)	0.00	0.00
42	EC8562	Digital Signal Processing Laboratory	3.00	3.00
43	EC8561	Communication Systems Laboratory	2.00	2.00
44	EC8563	Communication Networks Laboratory	2.67	1.00
45	EC8691	Microprocessors and Microcontrollers	0.89	0.89
46	EC8095	VLSI Design	0.81	0.81
47	EC8652	Wireless Communication	0.00	0.00
48	MG8591	Principles of Management	0.00	1.60
49	EC8651	Transmission Lines and RF Systems	0.83	0.83
50	EC8004	Wireless Networks (PE II)	0.00	0.00
51	EC8681	Microprocessors and Microcontrollers Laboratory	1.93	1.78
52	EC8661	VLSI Design Laboratory	3.00	3.00
53	EC8611	Technical Seminar	3.00	3.00
54	EC8701	Antennas and Microwave Engineering	1.80	1.00
55	EC8751	Optical Communication	1.33	1.00
56	EC8791	Embedded and Real Time Systems	2.00	2.83
57	EC8702	Ad hoc and Wireless Sensor Networks	1.00	1.00
58	CS8082	Machine Learning Techniques (PE I)	0.00	0.00
59	OME754	Industrial Safety (OE II)	0.00	0.00
60	EC8711	Embedded Laboratory	3.00	1.00
61	EC8761	Advanced Communication Laboratory	3.00	2.00
62	GE8076	Professional Ethics in Engineering (PE - IV)	0.00	0.00
63	EC8094	Satellite Communication (PE- V)	2.17	1.67
64	CS8086	Soft Computing (PE - V)	0.00	0.00
65	EC8811	Project Work	2.17	2.33
Attainment			2.09	1.66

SRISAIRAM ENGINEERING COLLEGE
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
CO ATTAINMENT

S. No	Course	Subject	CO Mapping average						CO attainment											
			CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6						
1.	C101	HS8151	1.75	2.5	1.75	2	2	-	2.3	3	3	2.8	2.8	-	Y	Y	Y	Y	Y	
2.	C102	MA8151	2	2	2	2	2	-	1	1	1	0.8	0.8	-	N	N	N	N	N	
3.	C103	PH8151	2.2	2.2	2	2.2	2.4	-	2.8	2.8	2.8	2.8	2.8	-	Y	Y	Y	Y	Y	
4.	C104	CY8151	1.75	1.75	1.88	1.75	1.88	-	3	3	2.8	2.6	2.6	-	Y	Y	Y	Y	Y	
5.	C105	GE8151	2.4	2.4	2.4	2.4	2.4	-	2.6	2.6	2.6	2.4	2.4	-	Y	Y	Y	Y	Y	
6.	C106	GE8152	2.5	2.5	2.5	2.5	2.67	-	2.8	2.8	2.8	2.8	2.8	-	Y	Y	Y	Y	Y	
7.	C107	GE8161	2.8	2.8	2.8	2.8	2.8	-	3	3	3	3	3	-	Y	Y	Y	Y	Y	
8.	C108	BS8161	1.83	1.83	1.83	1.67	1.67	-	3	3	3	3	3	---	Y	Y	Y	Y	Y	
9.	C109	HS8251	2.3	3	2.67	2.67	2	-	0.6	0.6	0.6	0.6	0.6		N	N	N	N	N	
10.	C110	MA8251	2	2	2	2	2	-	2.4	2.4	2.4	2.4	2.4	-	Y	Y	Y	Y	Y	
11.	C111	PH8253	1.73	1.1	1.64	1.73	1.73	-	2.8	2.8	2.8	3	2.4	-	Y	Y	Y	Y	Y	
12.	C112	BE8252	1	2.38	2.38	1.17	1.17	-	2.6	2.6	2.6	2.6	2.6	-	Y	Y	Y	Y	Y	

SRISAIRAM ENGINEERING COLLEGE
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
CO ATTAINMENT

13.	C113	EE8251	2.1 3	2.13	2	2	1.3 8	-	0	0	0	0	0	-	N	N	N	N	N	
14.	C114	GE8291*	1.7 7	2.11	2.55	2.33	2.4 4	-	3	3	3	3	3	-						
15.	C115	GE8261	1.3	1.2	1.25	1.2	1.2 2	-	3	3	3	3	3	-	Y	Y	Y	Y	Y	
16.	C116	EE8261	1.8	1.75	1.8	2	1.8 6	-	3	3	3	3	3	-	Y	Y	Y	Y	Y	
17.	C201	MA8353	2.2 5	2.25	-				3	3	3	3	3	-	Y	Y	Y	Y	Y	
18.	C202	EE8351	2	2	2	2	2.5	-	3	3	3	3	3	-	Y	Y	Y	Y	Y	
19.	C203	EE8391	1.6	1.66	1.6	2.25	1.5	-	3	3	3	3	3	-	Y	Y	Y	Y	Y	
20.	C204	EE8301	2.1 4	2.2	2.28	2.22	2.2 8	-	2.4	2.4	2.4	2.4	2.4	-	Y	Y	Y	Y	Y	
21.	C205	EC8353	1	1.14	1.88	1.88	1.7 2	-	2.4	2.4	2.4	2.4	2.4	-	Y	Y	Y	Y	Y	
22.	C206	ME8792	2.8	2.66	2.8	2.6	2.6 6	-	2.4	2.6	2.8	2.6	2.6	-	Y	Y	Y	Y	Y	
23.	C207	EE8311	1.7 7	1.85	1.71	1.66	1.7 1	-	3	3	3	3	3	-	Y	Y	Y	Y	Y	

SRISAIRAM ENGINEERING COLLEGE
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24.	C208	EC8311		2.11	2.55	2.33	2.4 4	-	3	3	3	3	3	-	Y	Y	Y	Y	Y	
25.	C209	MA8491	1.8 3	1.83	2	1.83	1.8 3	-	3	3	3	3	3	-	Y	Y	Y	Y	Y	
26.	C210	EE8401	1.8	2.14	2	2.2	2.6	-	3	3	3	2.4	2.4	-	Y	Y	Y	Y	N	
27.	C211	EE8402	1	1	2.66	2.5	2.5	-	3	3	3	3	3	-	Y	Y	Y	Y	Y	
28.	C212	EE8403	1.5	1.42	1.85	1.5	1.4 2	-	3	3	3	2.8	2.8	-	Y	Y	Y	Y	Y	
29.	C213	EE8451	2	1.85	1.9	2.1	2.0 9	-	3	3	3	3	2.4	-	Y	Y	Y	Y	Y	
30.	C214	IC8451	1.6	1.6	1.6	2.26	1.5	-	3	3	3	2.4	2.4	-	Y	Y	Y	Y	Y	
31.	C215	EE8411	1.6	1.6	1.6	1.6	1.6	-	3	3	3	3	3	-	Y	Y	Y	Y	Y	
32.	C216	EE8461	2.4	2.4	2.3	2.3	2.3	-	3	3	3	3	3	-	Y	Y	Y	Y	Y	
33.	C217	EE8412	2.6	2.6	2.3	2.3	2	-	3	3	3	3	3	-	Y	Y	Y	Y	Y	
34.	C301	EE8501	2	1.8	1.6	1.8	2.3	2.2	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
35.	C302	EE8551	1.7 5	1	2	1.6	1.7 8	1.5	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
36.	C303	EE8552	1.3	1.7	1.5	1.3	1.4	1.4	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
37.	C304	EE8591	2	2.2	2.3	1.8	1.8	2.5	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
38.	C305	CS8392	2.2	2	2	2	2.3	2.3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
39.	C306	OAT551	1.2	1.3	1.8	1.5	1.4	2	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
40.	C307	OAN551	1.6	1.6	1.6	1.6	1.6	1.6	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
41.	C308	OMD551	1.5	1	1	1.3	1	1	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
42.	C309	EE8511	1.7	2	1.8	1.7	1.8	1.8	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y

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43.	C310	HS8581	1.8	2	2.2	1.4	2.2	1.9	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
44.	C311	CS8383	1.6	1.5	1.3	1.6	2.3	2.1	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
45.	C312	EE8601	2.3	1.8	1.8	1.8	1.3	1.3	3	2.8	3	2.8	2.8	2.8	Y	Y	Y	Y	Y	Y
46.	C313	EE8602	2	1.8	2.2	2.4	2.2	2.2	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
47.	C314	EE8691	1.3	1.2	1.2	1	2	1.2	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
48.	C315	EE8002	1.4	1.6	1.6	1.3	1.6	1.9	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
49.	C316	EE8005	2	2.3	2.7	2.2	2	2.4	3	2.8	3	2.8	2.8	2.8	Y	Y	Y	Y	Y	Y
50.	C317	EE8661	1.8	1	1	1.8	2	2.3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
51.	C318	EE8681	2.2	2	1.4	2	1.3	1.7	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
52.	C319	EE8611	2.2	2.1	2.2	2.2	1.8	1.9	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
53.	C401	EE8701	1.3	1.8	2	1	1.4	1.8	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
54.	C402	EE8702	2.5	2.3	2.3	2.1	2.4	2.3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
55.	C403	EE8703	2	2	1.8	1.7	1.7	2	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
56.	C404	OCS752*	2.4	2.4	2.3	2.3	2.3		3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
57.	C405	GE8071	2.2	1.4	1.7	2.5	2.2	2.1	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
58.	C406	GE8074	1.7	1.8	1.8	1.8	2	1.8	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
59.	C407	MA8391*	1.4	1.6	1.6	1.3	1.6	1.9	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
60.	C408	EE8010	2	2.6	2.7	2.7	2	2.4	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
61.	C409	GE8077	1.6	1.6	2.1	1.8	1.6	1.4	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
62.	C410	EE8711	2	2.2	2.4	2	2.2	2	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
63.	C411	EE8712	2.4	2.4	2.6	2	3	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
64.	C412	GE8076*	2.5	2.3	2.3	2.1	2.4	2.3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
65.	C413	EE8016	1.7	1.4	1.5	1.3	1.7	1.7	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
66.	C414	EI8073	1.5	2.3	2.3	2.3	2.3	2.5	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y

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67	C415	EE8811	2.1	2	1.7	1.5	1	1.5	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
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CO -PO MAPPING AVERAGE

SUBJECT CODE	SUBJECT NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
HS8151	Communicative English	0	-	-	-	-	2	1	-	2	3	-	1	-	-
MA8151	Engineering Mathematics – I	3.00	2.00	-	-	1.00	-	-	-	-	-	-	-	-	-
PH8151	Engineering Physics	2.8	2.2 2	2	-	-	2-	2	-	-	-	-	-	-	-
CY8151	Engineering Chemistry	2	2	3	-	-	2	2.4	1	1	-	-	1	-	-
GE8151	Problem solving and Python Programing	3	2	2	-	3	-	-	-	-	-	-	2	-	-
GE8152	Engineering Graphics	3	2	3-	-	-	-	-	-	2-	2.2	-	3-		
GE8161	Problem solving and Python Programing Lab	3	3	3	-	3	-	-	-	-	-	-	2		
BS8161	Physics and Chemistry Laboratory	3	2	2	-	-	1	1	1.6	-	-	-	-	-	-

CO -PO MAPPING AVERAGE

HS8251	Technical English	0	-	-	-	-	1-	-	2	3	3	1	1	-	-
MA8251	Engineering Mathematics – II	3	1.2	1.2	-	-	-	-	-	-	1	-	-	-	-
PH8253	Physics for Electronics Engineering	3	2	2.4	2	2.2	1	1	-	1	1	2	1.6	-	-
BE8252	Basic Civil and Mechanical Engineering	1.8	1.6	2.3	-	2	2	2	1	-	1	-	1.5	-	-
EE8251	Circuit Theory	3	2.6	1.8	1.8	2	1	1-	-	-	-	-	2.2		
GE8291	Environmental Science and Engineering	0	-	-	-	-	-	-	-	-	-	-	-	-	-
GE8261	Engineering practices lab	1.8	1.4	1	1	1.5	1.2	1	1	1	1	1	1.6	-	-
EE8261	Electric Circuits Laboratory	3	3	2	1.4	1	-	1	-	2-	-	-1	1.7 5	-	-
MA8353	Transforms and Partial Differential Equations	3	3	2	-	-	-	-	-		-		1	-	-

CO -PO MAPPING AVERAGE

EE8351	Digital Logic Circuits	3	1.2	1.5	2	0.5	-	-	-	-	-	2	2	2	2.1
EE8391	Electromagnetic Theory	3	1.83	1.3	1.16	0.5	-	-	-	-	-	-	0.66	2	2.3
EE8301	Electrical Machines - I	2.3	2.5	2.33	2.67	2	1	1	-	-	1.67	2.17	2.17	2.83	2.82
EC8353	Electron Devices and Circuits	2.1	1.83	1.66	1.66	1.66	1.16	2	-	1.4	1.33	1	1	2.16	2.26
ME8792	Power Plant Engineering	3	3	1.4	3	3	2	-	-	-	-	-	3	3	2.78
EE8311	Electrical Machines Laboratory	2	2		1	1						2	2	1.67	1.69
EC8311	Electronics Laboratory	2	2	2.66	2.66	2.66	2.66	1.16			-	1.83	2.83	3	3

CO -PO MAPPING AVERAGE

MA8491	Numerical Methods	3	3	2	1.2	1							1		
EE8401	Electrical Machines - II	2.7	2.7	2.7	1.8	1.6	1	-	-	-	-	1	1.8	2.3	2.3
EE8402	Transmission and Distribution .	1.7	1.8	1.8	1.3	1.3	-	-	-	-	-	-	1.3	2.2	2.2
EE8403	Measurements and Instrumentation	2	0.67	1.2	1.3	0.3	1	-	-	-	-	2	2	2	2
EE8451	Linear Integrated Circuits and Applications	2.86	2.66	2.66	1.5	2.5	1.5	1	1.33	1	1.5	1.6	1.83	2.66	2.66
IC8451	Control Systems	3	1.83	1.33	1.16	0.5							0.66	2	2.2
EE8411	Electrical Machines Laboratory II	2.83	2	2	2	2	1	1	0	0	0	1	1	2	2.1
EE8461	Linear and Digital Integrated Circuits Laboratory	2.5	2	2.3	3	2	2	-	2	2	1.7			1.7	1.7
EE8412	Technical Seminar	3	2.5		0.33		1.3	2.3	2.3	0	3	-	1.67	3	3

CO -PO MAPPING AVERAGE

										3					
EE8501	Power System Analysis	2.8	2	1.83	1.6	2.6	2	1		1	1.33	1.5	1.5	3	3
EE8551	Microprocessors and Microcontrollers	1.3	2	2.3	1.5	1.5			-	-		1	2	3	3
EE8552	Power Electronics	1.83	1.67	1.33	1.5	1.5					1.11	1.11	0.67	2	2.1
EE8591	Digital Signal Processing	3	1.2	1.5	2	0.5	-	-	-	-	-	2	2	2	2.2
CS8392	Object Oriented Programming	3	1.5	2.3	1	2.2	2	0	0	-	0.6	1.5	1.2	2.26	2.26
OAT551	Automotive systems	2	0.3	0.8	-	0.1	0.3	-	-	-	1.3	-	1.8	2	2.1
OAN551	Sensors and Transducers	2	2	2	2	1	2	-	-	-	1	-	1	2	1.9
OMD551	Basics of Biomedical Instrumentation	1.17	1	1.17	1	-	1	-	-	-	-	-	-	1	1.9
EE8511	Control and Instrumentation Laboratory	2.8	2	1.8	1.5	1.3						1	1.8	2.3	2.3

CO -PO MAPPING AVERAGE

HS8581	Professional Communication	-	-	0.5	-	0.16	0.83	1.5	1.6	2.1	2.6	1.3	1	-	-
CS8383	Object Oriented Programming Laboratory	2	2.3	1.8	1.7	1.5	1	1	-	-	-	-	1	2	1.9
EE8601	Solid State Drives	2.16	2	2	1.83	1.33	1.166	-	-	-	-	-	-	2	2.1
EE8602	Protection and Switchgear	3	2	2	1	1	0.67	-	-	-	-	0.33	-	1.83	1.86
EE8691	Embedded system	1.67	1	1.25	1.33	1.33	-	-	-	-	-	-	1	1	1.2
DEM	Design of Electrical Apparatus	1.833	1.33	1.66	1.33	2	-	-	-	-	-	1.33	1.5	2	2.1
SEM	Special Electrical Machines	3	3	3	1	1	1	1	0	1	0	0	1	3	3
EE8661	Power Electronics	2	2	3	3	2.8	2	2	1	1	1.16	1.33	2.16	2.83	2.83

CO -PO MAPPING AVERAGE

GE8071	Disaster Management	1.3	2	2	2	2.3	2	3	2.3	1.6	2.2	3	1.8	2	2.2
GE8074	Human Rights	0	-	-	1.5	-	-	2	1.75	1.33	2	-	2.16	-	-
MA8391	Probability and Statistics	0													
EE8010	Power System Transients	3	2.33	2.33	2	1.6	3	3	-	2.3			2	3	3
GE8077	Total Quality Management	2	2	2	1	1	1	1	1	2	2	1	2	3	3
EE8711	Power System Simulation Laboratory	1.66	2.16	1.83	2.6	2.5								2.8	2.9
EE8712	Renewable Energy Systems Laboratory	3	3	2.67	2.67	2.5	-	3	3	2	-	-	2.5	3	3

CO -PO MAPPING AVERAGE

EE8016	Energy Management & Audit	2.3	1.3	-	0.33	1.17	-	1	-	0.5	-	0.33	0.33	1.5	1.6
EI8073	Biomedical Instrumentation	3	2.2	2.7	2	2.8	3	1	2.67	1.83	1.83	1.83	3	3	
GE8076	Professional Ethics	0													
EE8811	Project Work	1.67	3	1.83	3	1.33	1.5	1.67	0.5	1	-	2	1	1	1.2
AVERA GE		2.15	1.78	1.60	1.25	1.25	0.76	0.65	0.40	0.50	0.65	0.66	1.22	1.48	1.37

SRI SAIRAM ENGINEERING COLLEGE
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
CO PO ATTAINMENT LEVEL

S.No.	COURSE CODE	SUB. CODE	SUBJECT NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1.	C101	HS8151	Communicative English						1.89	0.95		1.89	2.84		0.95		
2.	C102	MA8151	Engineering Mathematics – I	0.88	0.59			0.29									
3.	C103	PH8151	Engineering Physics	2.61	2.07	1.87				0.93							
4.	C104	CY8151	Engineering Chemistry	1.87	1.87	2.80			1.87	2.24	0.93	0.93			1.00		
5.	C105	GE8151	Problem solving and Python Programing	2.52	1.68	1.68		2.52							1.68		
6.	C106	GE8152	Engineering Graphics	2.80	1.87	2.80						1.87	2.05				
7.	C107	GE8161	Problem solving and Python Programing Lab	3.00	3.00	3.00		3.00							2.00		
8.	C108	BS8161	Physics and Chemistry Laboratory	3.00	2.00	2.00	-	-	1.00	1.00	1.60	-	-	-	-		
9.	C109	HS8251	Technical English						0.20		0.40	0.60	0.60	0.20	0.20		

10.	C110	MA8251	Engineering Mathematics – II	2.40	0.96	0.96	0.80						1.00				
11.	C111	PH8253	Physics for Electronics Engineering	2.76	1.84	2.21	1.84	2.02	0.92	0.92	0.00	0.92	0.92	1.84	1.47		
12.	C112	BE8252	Basic Civil and Mechanical Engineering	1.56	1.39	1.99	-	1.73	1.73	1.73	0.87		0.87		1.30		
13.	C113	EE8251	Circuit Theory	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
14.	C114	GE8291	Environmental Science and Engineering	2.52	1.68	1.68		2.52							1.68		
15.	C115	GE8261	Engineering practices lab	1.80	1.40	1.00	1.00	1.50	1.20	1.00	1.00	1.00	1.00	1.00	1.60		
16.	C116	EE8261	Electric Circuits Laboratory	3.00	3.00	2.00	1.40	1.00	-	1.00	-	2-	-	-1.00	1.75		
17.	C201	MA8353	Transforms and Partial Differential Equations	3.00	3.00	2.00									1.00		
18.	C202	EE8351	Digital Logic Circuits	3.00	1.20	1.50	2.00	0.50	-	-	-	-	-	2.00	2.00	2	2
19.	C203	EE8391	Electromagnetic Theory	3.00	1.83	1.30	1.16	0.50							0.66	2	2
20.	C204	EE8301	Electrical Machines - I	1.86	2.00	1.86	2.14	1.60	0.80	0.80	-	-	1.34	1.74	1.74	2.26	1.86
21.	C205	EC8353	Electron Devices and Circuits	1.68	1.46	1.33	1.33	1.28	0.93	1.60	0.00	1.12	1.06	0.80	0.80	1.73	1.60

22.	C206	ME8792	ME8792 Power Plant Engineering	2.60	2.60	1.21	2.60	2.60	1.73	0.00	0.00	0.00	0.00	0.00	2.60	2.6	2.6
23.	C207	EE8311	Electrical Machines Laboratory	2.00	2.00	2.70	2.70	2.70	2.70	1.20				1.83	2.83	3	3
24.	C208	EC8311	EC8311 - Electronics Laboratory	2.00	2.00	2.66	2.66	2.66	2.66	1.16			-	1.83	2.83	3	
25.	C209	MA8491	MA8491 Numerical Methods	3.00	3.00	2.00	1.20	1.00							1.00	2	2
26.	C210	EE8401	Electrical Machines - II	2.39	2.39	1.11	2.39	2.39	1.59			0.00	0.00	0.92	1.65	2.12	2.02
27.	C211	EE8402	Transmission and Distribution .	1.7	1.80	1.80	1.30	1.30							1.30	2.2	2.5
28.	C212	EE8403	Measurements and Instrumentation	1.95	0.68	1.17	1.27	0.29	0.97					1.95	1.95	1.95	1.95
29.	C213	EE8451	Linear Integrated Circuits and Applications	2.75	2.55	2.55	1.44	2.40	1.44	0.96	1.28	0.96	1.44	1.54	1.76	2.55	2.07
30.	C214	IC8451	Control Systems	2.76	1.68	1.22	1.07								0.61	1.84	1.84
31.	C215	EE8411	Electrical Machines Laboratory II	2.83	2.00	2.00	2.00	2.00	1.00	1.00	0.00	0.00	0.00	1.00	1.00	2	2.17
32.	C216	EE8461	Linear and Digital Integrated Circuits Laboratory	2.50	2.00	2.30	3.00	2.00	2.00	-	2.00	2.40	1.70			1.7	1.7
33.	C217	EE8412	Technical Seminar	3.00	2.50		0.33		1.30	2.30	2.30	0.83	3.00	-	1.67	3	3

34.	C301	EE8501	Power System Analysis	3.00	3.00	2.60	2.20	2.60				1.00		2.00	2.00	3	2.4
35.	C302	EE8551	Microprocessors and Microcontrollers	2.08	2.25	2.25	1.39	1.21	1.16			0.87	1.21	1.16	1.08	2.25	1.39
36.	C303	EE8552	Power Electronics	1.92	1.76	2.00	1.60	0.80				0.80	1.00	1.20	1.07	1.33	1.8
37.	C304	EE8591	Digital Signal Processing	1.59	1.47	1.10	1.02	0.61	0.61	0.61		0.61	0.61	0.82	0.77	1.1	1.1
38.	C305	CS8392	Object Oriented Programming	0.64	0.74	0.58	0.26	-	-	-	-	0.26	0.26	0.26	0.33	0.48	0.37
39.	C306	OAT551	AUTOMOTIVE SYSTEMS- OE I	1.49	1.49	0.96	0.53	0.53		0.80			0.53	0.80	0.96	1.49	1.28
40.	C307	OAN551	SENSORS AND TRANSDUCERS - OE I	2.43	2.05	2.05	1.87	1.40				0.93	1.31	0.93	1.12	2.61	2.24
41.	C308	OMD551	Basics of Biomedical Instrumentation	3.00	3.00	2.60	3.00	1.40	1.00			1.00	1.00	2.00	2.00	3	2
42.	C309	EE8511	Control and Instrumentation Laboratory	1.00	-	-	-	-	1.20	2.40	2.20	-	-	1.20	1.40	1	2
43.	C310	HS8581	Professional Communication	3.00	3.00	2.60	2.80	1.00			1.00	1.00	1.00	2.00	2.00	3	2.4
44.	C311	CS8383	Object Oriented Programming Laboratory	1.91	1.73	1.82	1.56	0.87					1.04			1.04	0.87

45.	C312	EE8601	Solid State Drives	1.76	1.60	1.76	1.60	0.80				0.80	0.80	0.80	0.96	1.6	1
46.	C313	EE8602	Protection and Switchgear	0.67	1.01	1.01	0.56	0.56	0.56	0.70		0.78		0.56	0.70	0.98	0.56
47.	C314	EE8691	EMBEDDED SYSTEM	1.53	1.39	1.21	2.17	1.16	-	-	-	0.87	0.87	0.87	1.04	1.73	2.43
48.	C315	EE8002	Design of Electrical Apparatus-Elective I	2.24	2.24	2.08	1.60	0.80		0.80		0.80		0.80	1.00	1.92	1.44
49.	C316	EE8005	Special Electrical Machines	0.85	0.96	0.96	0.53	0.53	0.53	0.67				0.53	0.53	0	1.28
50.	C317	EE8661	Power Electronics and Drives Laboratory	3.00	3.00	3.00	2.00	1.40		1.20		1.40	1.00	2.00	2.00	3	2.4
51.	C318	EE8681	Microprocessor and Microcontroller Laboratory	3.00	3.00	3.00	2.00	1.80		1.00		1.00	1.00	2.00	2.00	3	2.4
52.	C319	EE8611	Mini Project	1.00	-	-	1.20	-	2.00	2.40	2.60	2.00	1.80	1.00	1.00	1	2.4
53.	C401	EE8701	High Voltage Engineering	1.60	2.24	1.76	1.44	1.20	1.60	1.20			0.80	0.80	1.28	2.08	2.08
54.	C402	EE8702	Power System Operation and Controller	1.07	1.17	0.64	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.53	1.28	0.53
55.	C403	EE8703	Renewable Energy Systems	1.92	1.92	1.12	1.44	0.87		0.80		0.80	0.80	0.80	0.80	2.08	0.8
56.	C404	OCS752	Introduction to C Programming-open elective II	0.80	-	-	-	-	0.80	1.28	2.24	1.92	1.76	0.96	0.80	0	0.08

57.	C405	GE8071	Disaster Management	2.27	2.08	1.75	1.06	0.87				0.87		0.87	0.87	2.27	0.87
58.	C406	GE8074	Human Rights	1.50	1.00	0.83	1.94	1.65					1.00	2.65	1.00	1.82	0
59.	C407	MA8391	Probability and Statistics	3.00	3.00	2.80	2.60	2.40	1.00	1.00			1.00	2.00	2.00	3.00	2.4
60.	C408	EE8010	Power System Transients	2.00	1.00	-	-	2.00	-	1.40	2.00	2.80	2.00	1.00	1.00	1.0	1.8
61.	C409	GE8077	Total Quality Management	2.24	2.08	1.76	1.28	0.80	0.80	0.80	-	-	-	0.80	1.60	2.4	0.8
62.	C410	EE8711	Power System Simulation Laboratory	2.11	2.11	2.11	0.98	0.81	2.44	-	-	0.81	0.81	0.81	0.81	2.11	0.81
63.	C411C412 C413	EE8712	Renewable Energy Systems Laboratory	-	-	-	-	0.88	1.58	2.11	2.46	1.58	1.06	0.88	0.88	-	2.11
64.		GE8076	Energy Management & Audit	3.00	3.00	3.00	3.00	3.00	3.00	2.00	1.00	3.00	3.00	3.00	3.00	3	3
65.		EE8016	Biomedical Instrumentation	2.92	2.53	1.95	1.75	1.95	1.95	1.70	0.97	0.97		0.97	1.95	2.14	1.95
66.	C414	EI8073	Professional Ethics*	1.92	1.92	1.12	1.44	0.87		0.80		0.80	0.80	0.80	0.80	2.08	0.8
67.	C415	EE8811	Project Work	2.57	2.76	2.57	1.38	0.99				0.99	0.99	1.23	0.99	2.37	0.99
Direct Attainment(average)				2.06	1.77	1.58	1.20	1.10	0.69	0.63	0.37	0.61	0.68	0.82	1.18	1.46	1.34
Indirect Attainment				2.65	3.45	4.20	3.50	3.30	4.55	4.80	5.05	3.10	3.10	2.60	2.00	3.7	2.9

SRI SAIRAM ENGINEERING COLLEGE
DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

CO ATTAINMENT LEVEL

S.No	SUB. CODE	SUBJECT NAME	CO1	CO2	CO3	CO4	CO5	CO6	CO. AV G	CO1	CO2	CO 3	CO 4	CO 5	CO6	CO ATTAINMENT AVG.	CO 1	CO2	CO 3	CO 4	CO 5	CO6
1	HS 8151	Communicative English	1.75	2.5	1.75	2	2		2.00	3	3	3	3	3		3	Y	Y	Y	Y	Y	
2	MA 8151	Engineering Mathematics - I	2	2	2	2	2		2.00	1	1	0.8	0.8	0.8		0.88	N	N	N	N	N	
3	PH 8151	Engineering Physics	2.2	2.2	2.2	2.2	2.1		2.18	2.6	2.6	2.6	2.4	2.4		2.52	Y	Y	Y	Y	Y	
4	CY 8151	Engineering Chemistry	1.75	1.75	1.88	1.75	1.88		1.80	3.0	3.0	2.8	2.6	2.6		2.8	Y	Y	Y	Y	Y	
5	GE 8151	Problem Solving and Python Programming	2.4	2.4	2.4	2.4	2.4		2.40	2.4	2.6	2.6	2.4	2.4		2.48	Y	Y	Y	Y	Y	
6	GE 8152	Engineering Graphics	2.5	2.5	2.5	2.5	2.67		2.53	2.8	2.8	2.8	2.8	2.8		2.8	Y	Y	Y	Y	Y	
7	GE 8161	Problem Solving and Python Programming Laboratory	2.8	2.8	2.8	2.8	2.8		2.80	3	3	3	3	3		3	Y	Y	Y	Y	Y	
8	BS 8161	Physics and Chemistry Laboratory	1.83	1.83	1.83	1.67	1.67		1.77	3	3	3	3	3		3	Y	Y	Y	Y	Y	
9	HS 8251	Technical English	2.33	3	2.67	2.67	2		2.53	3	3	3	3	3		3	Y	Y	Y	Y	Y	
10	MA 8251	Engineering Mathematics - II	1.5	1.5	1.5	1.5	2		1.60	2.8	2.8	2.8	2.6	2.6		2.72	Y	Y	Y	Y	Y	
11	PH 8253	Physics for Electronics Engineering	1.73	1.91	1.64	1.73	1.73		1.75	3	3	2.8	2.4	2.4		2.72	Y	Y	Y	Y	Y	
12	BE 8252	Basic Civil and Mechanical Engineering	1	2.38	2.38	1.17	1.17		1.62	2.6	2.6	2.6	2.4	2.4		2.52	Y	Y	Y	Y	Y	
13	EE 8251	Circuit Theory	2.13	2.13	2	2	1.38		1.93	2.8	2.8	2.6	2.6	2.6		2.68	Y	Y	Y	Y	Y	
14	GE 8291	Environmental Science and Engineering	1.2	1.9	1.1	1.4	1.3		1.38	2.4	2.4	2.6	2.6	2.6		2.52	Y	Y	Y	Y	Y	
15	GE 8261	Engineering Practices Laboratory	1.3	1.2	1.25	1.2	1.22		1.23	3	3	3	3	3		3	Y	Y	Y	Y	Y	
16	EE 8261	Electric Circuits Laboratory	1.88	1.75	1.89	2	1.86		1.88	3	3	3	3	3		3	Y	Y	Y	Y	Y	
17	MA 8353	Transforms and Partial Differential Equations	1.5	1.5	1.75	1.5	1.5		1.55	1.6	1.6	1.6	1.6	1.6		1.6	Y	Y	N	Y	Y	
18	EC 8353	Electron Devices and Circuits	1.86	2.14	2.29	2.14	2.14		2.11	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	Y	Y	Y	
19	EE 8351	Digital Logic Circuits	2	1.86	1.86	1.71	2.43		1.97	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	Y	Y	Y	
20	EI 8351	Electrical Measurements	2.5	2.5	2.5	2.5	2.5		2.50	2.4	2.4	2.4	2.4	2.4		2.4	N	N	N	N	N	
21	EI 8352	Transducers Engineering	2	2.17	1.33	1.5	1.5		1.70	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	Y	Y	Y	
22	CS 8392	Object Oriented Programming	2.22	2	2	2.13	2.3		2.13	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	Y	Y	Y	
23	EI 8361	Measurements and Transducers Laboratory	1.3	1.3	1.3	1.3	1.3		1.30	3	3	3	3	3		3	Y	Y	Y	Y	Y	

24	CS 8383	Object Oriented Programming Laboratory	2.22	2	2	2.13	2.3		2.13	3	3	3	3	3		3	Y	Y	Y	Y	Y	
25	MA 8491	Numerical Methods	1.83	1.83	1.83	1.83	1.83		1.83	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	Y	Y	Y	
26	EI 8451	Electrical Machines	1.83	1.5	1.5	1.33	2		1.63	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	Y	Y	Y	
27	EI 8452	Industrial Instrumentation - I	2.4	2.2	2.6	2.4	2		2.32	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	N	Y	Y	
28	EE 8451	Linear Integrated Circuits and Applications	2.14	2.14	2.14	2.29	2.14		2.17	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	Y	Y	Y	
29	IC 8451	Control Systems	2.25	2.75	3	2.75	2.75		2.70	2.4	2.4	2.4	2.4	2.4		2.4	Y	N	N	N	N	
30	EC 8395	Communication Engineering	2.33	2.67	2.33	2.33	2		2.33	2.4	2.4	2.4	2.4	2.4		2.4	Y	N	Y	Y	Y	
31	EI 8461	Devices and Machines Laboratory	1.8	1.4	1.6	1.4	1.2		1.48	3	3	3	3	3		3	Y	Y	Y	Y	Y	
32	EE 8461	Linear and Digital Integrated Circuits Laboratory	1.67	1.78	2.22	2.33	1.67		1.93	3	3	3	3	3		3	Y	Y	Y	Y	Y	
33	EI 8551	Analytical Instruments	2.4	2.2	2.2	2.2	2.2	2.2	2.23	2.4	2.4	2.4	2.4	2.4	2.4	2.4	Y	Y	Y	Y	Y	Y
34	EI 8552	Industrial Instrumentation - II	3	3	3	3	3	3	3.00	2.4	2.4	2.4	2.4	2.4	2.4	2.4	Y	Y	Y	Y	Y	Y
35	EI 8553	Process Control	3	2.71	2.57	2.83 3	2.71	2.4	2.70	2.4	2.4	2.4	2.4	2.4	2.4	2.4	N	N	N	N	N	Y
36	EE 8551	Microprocessors and Microcontrollers	1.71	2	1.5	1.5	1.5	1.28	1.58	2.4	2.4	2.4	2.4	2.4	2.4	2.4	Y	Y	Y	Y	Y	Y
37	EE 8591	Digital Signal Processing	3	3	3	3	3	3	3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	N	N	N	N	N	N
38	OCE 551	Air Pollution and Control Engineering	3	3	3	3	3	3	3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	N	N	N	N	N	N
39	EI 8561	Industrial Instrumentation Laboratory	3	3	3	3	3	3	3	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
40	EE 8681	Microprocessors and Microcontrollers Laboratory	3	3	3	3	3	3	3	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
41	EI 8651	Logic and Distributed Control System	1.86	2	2.14	1.71	1.86	1.71	1.88	2.6	2.6	2.6	2.4	2.4	2.4	2.5	Y	Y	Y	Y	Y	Y
42	EI 8691	Computer Control of Processes	2	2.6	2.5	2.8	2.8	2.17	2.48	2.6	2.6	2.6	2.4	2.4	2.4	2.5	Y	Y	Y	N	N	N
43	CS 8391	Data Structures	2	1.6	1.75	2	1.43	1.2	1.66	2.4	2.4	2.4	2.4	2.4	2.4	2.4	Y	Y	Y	Y	Y	Y
44	EI 8692	Electronic Instrumentation	1.29	1.86	1.71	1.86	2.57	1.86	1.86	2.4	2.4	2.4	2.4	2.4	2.4	2.4	Y	Y	Y	Y	Y	Y
45	EE 8072	Mems & Nano Science	1.86	1.86	1.71	2.14	1.43	1.86	1.81	3	3	3	2.4	2.4	2.4	2.7	Y	Y	Y	Y	Y	Y
46	EI 8074	Computer Networks	1.33	1.33	1.33	1.33	1.33	1.33	1.33	2.4	2.4	2.4	2.4	2.4	2.4	2.4	Y	Y	Y	Y	Y	Y
47	EI 8072	Advanced Instrumentation Systems	1.38	1.63	1.4	1.67	1.5	1.5	1.51	2.6	2.6	2.6	2.4	2.4	2.4	2.5	Y	Y	Y	Y	Y	Y
48	CS 8381	Data Structures Laboratory	3	3	3	3	3	3	3	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
49	EI 8661	Process Control Laboratory	2.29	2.57	2.57	2.57	2.29	1.86	2.36	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
50	HS 8581	Professional Communication	3	3	3	3	3	3	3	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
51	EI 8751	Industrial Data Networks	1.75	1.75	1.5	1.83	1.5	2	1.72	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y

52	EE 8691	Embedded Systems	1.6	1.2	1	1	1.2	1	1.17	3	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
53	EC 8093	Digital Image Processing	1.5	2.29	2.14	2	2	1.33	1.88	3	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
54	EI 8075	Fibre Optics and Laser Instrumentation	2	2.14	2.14	2	2.14	2.14	2.09	3	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
55	EI 8092	Thermal Power Plant Instrumentation	1.75	1.88	1.63	1.5	1.38	1.88	1.67	3	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
56	OME 754	Industrial Safety	3	2	2.33	2.5	2.5	2.6	2.49	3	3	3	3	2.4	2.4	2.4	2.8	Y	Y	Y	Y	Y	Y
57	EI 8761	Industrial Automation Laboratory	1.4	1.5	2	2.5	1.83	2.33	1.93	3	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
58	EI 8762	Instrumentation System Design Laboratory	1.77	2	1.88	2.25	2.67	1.78	2.06	3	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
59	GE 8076	Professional Ethics in Engineering	2.22	1.89	1.67	1.89	1.67	1.78	1.85	3	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
60	EI 8073	Biomedical Instrumentation	1.5	2.33	2.33	2.33	2.33	2.5	2.22	3	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
61	EI 8078	Project Management and Finance	2.75	2.25	2	2.67	1.25	1.25	2.03	3	3	3	3	2.4	2.4	2.4	2.8	Y	Y	Y	Y	Y	Y
62	EI 8079	Robotics and Automation	2.1	1.67	1.89	2.33	2.78	3	2.30	3	3	3	3	3	2.4	2.4	2.9	Y	Y	Y	Y	Y	Y
63	EI 8811	Project Work	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y

SRI SAIRAM ENGINEERING COLLEGE
DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

CO - PO ATTAINMENT LEVEL

S.No.	SUB. CODE	COURSE CODE	SUBJECT NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	C101	HS 8151	Communicative English	-	-	-	-	-	2	1	-	2	3	-	1
2	C102	MA 8151	Engineering Mathematics - I	3	3	2	1	-	-	-	-	-	-	1	-
3	C103	PH 8151	Engineering Physics	1.6	2	1	-	-	-	1	-	-	-	-	1
4	C104	CY 8151	Engineering Chemistry	3	2	2.67	1.75	1	1	1.83	1	-	-	1	1.83
5	C105	GE 8151	Problem Solving and Python Programming	-	2	-	2	3	-	-	-	-	-	-	3
6	C106	GE 8152	Engineering Graphics	3	3	-	-	-	-	-	-	-	2	-	-
7	C107	GE 8161	Problem Solving and Python Programming Laboratory	2.3	1.8	1.8	1.2	2.6	-	-	-	-	-	-	-
8	C108	BS 8161	Physics and Chemistry Laboratory	3	3	3	2.4	2.6	2	1.6	1	1	1.6	1	1.4
9	C109	HS 8251	Technical English	-	-	-	-	-	-	-	2	2.8	3	1	1
10	C110	MA 8251	Engineering Mathematics - II	3	3	2	1	-	-	-	-	-	-	-	1
11	C111	PH 8253	Physics for Electronics Engineering	1.6	2	1	2	-	-	1	-	-	-	-	1
12	C112	BE 8252	Basic Civil and Mechanical Engineering	3.00	3.00	3.00	3.00	2.40	1.00	1.60	1.00	1.00	1.00	1.00	1.00
13	C113	EE 8251	Circuit Theory	3	2.2	2.2	2	2	1.4	-	-	-	-	-	2
14	C114	GE 8291	Environmental Science and Engineering	3	3	2.6	3	2.4	2.8	2.4	2.4	2.6	2.8	2.6	2.6
15	C115	GE 8261	Engineering Practices Laboratory	1.8	1.3	1	1	1.5	1.17	1	1	1	1	1	1.7
16	C116	EE 8261	Electric Circuits Laboratory	1.7	1.8	1.7	2	2.5	-	-	-	-	-	-	-

17	C201	MA 8353	Transforms and Partial Differential Equations	2	2	1.3	1	0	0	0	0	0	0	0	0
18	C202	EC 8353	Electron Devices and Circuits	1.3	2.3	2.8	2.4	2.5	1.16	0	0	0	0	0	2.17
19	C203	EE 8351	Digital Logic Circuits	3	1.67	1.5	1.33	1.83	1.33	0	0	1.5	0	1.5	1.67
20	C204	EI 8351	Electrical Measurements	2.33	1.83	2	1.16	1	1	1	0	0	0	0	2
21	C205	EI 8352	Transducers Engineering	2.83	1.83	1.67	1.33	1.67	0	0	0	0	0	0	1
22	C206	CS 8392	Object Oriented Programming	3	2	2.5	1.33	1.25	3	2.17	0	0	2	1.1	1.8
23	C207	EI 8361	Measurements and Transducers Laboratory	2.5	2.17	2.5	2	2.5	1.33	0	0	0	0	0	2.5
24	C208	CS 8383	Object Oriented Programming Laboratory	3	2	2.5	1.33	3	2.17	2	0	0	2	1.33	1.75
25	C209	MA 8491	Numerical Methods	3	3	2	1	1	0	0	0	0	1	0	0
26	C210	EI 8451	Electrical Machines	1.83	2	1.83	1.3	1.5	1.5	0	0	1.5	0	0	1
27	C211	EI 8452	Industrial Instrumentation - I	0	0	0	2.8	1.4	2.2	2.17	3	0	0	0	0
28	C212	EE 8451	Linear Integrated Circuits and Applications	2.83	2.67	2.67	1.5	2.5	1.5	1	1.33	1	1.5	1.6	1.83
29	C213	IC 8451	Control Systems	3	1.83	1.33	1.17	1.17	1	0	0	0	0	0	1.33
30	C214	EC 8395	Communication Engineering	3	3	3	2.2	0	0	1	1.17	0	3	1.17	1.83
31	C215	EI 8461	Devices and Machines Laboratory	2	2	1	2	2.5	1	0	0	1	0	0	2.4
32	C216	EE 8461	Linear and Digital Integrated Circuits Laboratory	3	1.5	2.5	1.5	2.5	2.17	0	0	1.67	0	1.83	1.33
33	C301	EI 8551	Analytical Instruments	3	0	2	0	0	2	2.17	0	0	0	0	2
34	C302	EI 8552	Industrial Instrumentation - II	0	0	3	3	3	3	3	0	0	0	0	3
35	C303	EI 8553	Process Control	3	2.6	2.2	3	2.6	2.4	0	0	0	0	0	3
36	C304	EE 8551	Microprocessors and Microcontrollers	1.5	2	1.83	1.3	1.5	1.5	0	0	0	0	0	1
37	C305	EE 8591	Digital Signal Processing	1.4	2	3	2	1.6	1.4	0	0	0	0	0	2.4
38	C306	OCE 551	Air Pollution and Control Engineering	3	2	2	2	2.2	2.8	3	3	3	3	2.8	2.8

39	C307	EI 8561	Industrial Instrumentation Laboratory	2	2.2	2.2	2.4	2.4	1.2	0	0	0	0	0	2.2
40	C308	EE 8681	Microprocessors and Microcontrollers Laboratory	3	2.6	2.8	2.4	2.8	1.2	0	0	0	0	1.2	3
41	C309	EI 8651	Logic and Distributed Control System	2	2	1.83	1.33	1.67	1.83	0	0	0	0	0	2.5
42	C310	EI 8691	Computer Control of Processes	3	2.17	2.67	2	2.5	2	0	0	0	0	0	2.17
43	C311	CS 8391	Data Structures	1.2	2	2.4	1.2	1.2	0	0	0	0	0	1.2	1.2
44	C312	EI 8692	Electronic Instrumentation	3	1.67	1.67	1.5	3	1.33	0	0	1.67	0	1.33	1.5
45	C313	EE 8072	Mems & Nano Science	1.67	2	1.67	1.5	2.167	2.17	0	0	0	0	0	1.67
46	C314	EI 8074	Computer Networks	1.00	2.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	C315	EI 8072	Advanced Instrumentation Systems	2	1.67	1.33	1.33	1	1.67	1.17	0	0	0	0	1
48	C316	CS 8381	Data Structures Laboratory	1.4	2.4	2.2	1.4	1.4	0	0	0	0	0	1.4	1.4
49	C317	EI 8661	Process Control Laboratory	3	3	3	3	3	2.4	0	0	0	0	0	3
50	C318	HS 8581	Professional Communication	1.00	0.00	0.00	3.00	0.00	0.00	1.00	0.00	2.00	0.00	0.00	1.00
51	C401	EI 8751	Industrial Data Networks	1.83	1.83	1.67	2	0	0	0	0	0	1.5	2	1.5
52	C402	EE 8691	Embedded Systems	1.33	1.33	1	1.17	0	0	0	0	0	0	1	1
53	C403	EC 8093	Digital Image Processing	3	1.33	1.8	2.2	2	0	0	0	0	0	1.5	1.67
54	C404	EI 8075	Fibre Optics and Laser Instrumentation	3	2	2	2	2	1.16	0	0	0	0	2.2	1.6
55	C405	EI 8092	Thermal Power Plant Instrumentation	1.83	2	1.83	1.5	1.67	1.67	1.67	0	0	0	0	1.16
56	C406	OME 754	Industrial Safety	1.67	3.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00
57	C407	EI 8761	Industrial Automation Laboratory	1.67	1.83	1.50	2.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	3.00
58	C408	EI 8762	Instrumentation System Design Laboratory	1.67	3	3	0	3	0	0	0	0	0	0	2
59	C409	GE 8076	Professional Ethics in Engineering	2.17	1.67	1.67	0	0	1	1	3	2	3	0	2

60	C410	EI 8073	Biomedical Instrumentation	3	2.16	2.66	2	2.83	3	1	2.66	1.83	1.83	1.83	1.83	
61	C411	EI 8078	Project Management and Finance	0.00	0.00	0.00	1.50	2.33	0.00	0.00	0.00	1.50	0.00	3.00	2.00	
62	C412	EI 8079	Robotics and Automation	2.67	2.67	2.00	2.33	1.50	1.00	2.00	1.00	2.50	1.33	2.00	2.50	
63	C413	EI 8811	Project Work	3	3	3	3	3	3	2.2	1.4	2.2	2.2	2.2	3	
Attainment (Direct)				1.85	1.61	1.71	1.42	1.57	1.17	0.49	0.39	0.48	0.61	0.82	1.45	
Attainment (Indirect)				2.50	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
80 % Attainment (Direct)				1.48	1.29	1.37	1.14	1.26	0.94	0.39	0.31	0.39	0.48	0.65	1.16	
20 % Attainment (Indirect)				0.50	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	
Total Attainment				1.98	1.89	1.97	1.74	1.86	1.54	0.99	0.91	0.99	1.08	1.25	1.76	

Sri Sairam Engineering College, (Autonomous), Chennai – 44.

Department of Electronics and Instrumentation Engineering

PSO Attainment for the Batch 2017-2021 (Regulation 2017)

SL.N O	CO COD E	SUB CODE	SUB NAME	PSO1	PSO2
1	C101	HS 8151	Communicative English	1.97	1.97
2	C102	MA 8151	Engineering Mathematics - I	1.63	1.63
3	C103	PH 8151	Engineering Physics	1.73	1.73
4	C104	CY 8151	Engineering Chemistry	1.79	1.79
5	C105	GE 8151	Problem Solving and Python Programming	1.60	1.60
6	C106	GE 8152	Engineering Graphics	2.96	1.97
7	C107	GE 8161	Problem Solving and Python Programming Laboratory	1.5	1.17
8	C108	BS 8161	Physics and Chemistry Laboratory	2.6	2.4
9	C109	HS 8251	Technical English	2.0	2.0
10	C110	MA 8251	Engineering Mathematics - II	1.65	1.65
11	C111	PH 8253	Physics for Electronics Engineering	1.8	1.8
12	C112	BE 8252	Basic Civil and Mechanical Engineering	1.8	1.8
13	C113	EE 8251	Circuit Theory	2.8	1.8
14	C114	GE 8291	Environmental Science and Engineering	0.81	1.08
15	C115	GE 8261	Engineering Practices Laboratory	1.83	2.0
16	C116	EE 8261	Electric Circuits Laboratory	1.8	1.8
17	C201	MA 8353	Transforms and Partial Differential Equations	1.60	1.60
18	C202	EC 8353	Electron Devices and Circuits	1.17	2.3
19	C203	EE 8351	Digital Logic Circuits	1.7	1.5
20	C204	EI 8351	Electrical Measurements	1.67	2.5
21	C205	EI 8352	Transducers Engineering	1	2.83
22	C206	CS 8392	Object Oriented Programming	2.67	2.42
23	C207	EI 8361	Measurements and Transducers Laboratory	1.8	2.6

24	C208	CS 8383	Object Oriented Programming Laboratory	2.17	2.67
25	C209	MA 8491	Numerical Methods	2.0	2.0
26	C210	EI 8451	Electrical Machines	2.0	2.0
27	C211	EI 8452	Industrial Instrumentation - I	2	3
28	C212	EE 8451	Linear Integrated Circuits and Applications	2.6	2.1
29	C213	IC 8451	Control Systems	2	2
30	C214	EC 8395	Communication Engineering	2	2
31	C215	EI 8461	Devices and Machines Laboratory	2.8	2.4
32	C216	EE 8461	Linear and Digital Integrated Circuits Laboratory	2.2	2
33	C301	EI 8551	Analytical Instruments	3	2
34	C302	EI 8552	Industrial Instrumentation - II	3	3
35	C303	EI 8553	Process Control	2.8	2.4
36	C304	EE 8551	Microprocessors and Microcontrollers	2	2
37	C305	EE 8591	Digital Signal Processing	2.2	1.4
38	C306	OCE 551	Air Pollution and Control Engineering	1	1
39	C307	EI 8561	Industrial Instrumentation Laboratory	1.2	2.6
40	C308	EE 8681	Microprocessors and Microcontrollers Laboratory	1.8	2.6
41	C309	EI 8651	Logic and Distributed Control System	3	2
42	C310	EI 8691	Computer Control of Processes	2	3
43	C311	CS 8391	Data Structures	1.4	1.4
44	C312	EI 8692	Electronic Instrumentation	2	1.5
45	C313	EE 8072	Mems & Nano Science	1.67	2
46	C314	EI 8074	Computer Networks	2	2
47	C315	EI 8072	Advanced Instrumentation Systems	1	3
48	C316	CS 8381	Data Structures Laboratory	2.8	2
49	C317	EI 8661	Process Control Laboratory	1.4	2.6
50	C318	HS 8581	Professional Communication	2.6	2.2
51	C401	EI 8751	Industrial Data Networks	1.5	1.83
52	C402	EE 8691	Embedded Systems	1	2

53	C403	EC 8093	Digital Image Processing	2.3	2.8
54	C404	EI 8075	Fibre Optics and Laser Instrumentation	2.2	2.5
55	C405	EI 8092	Thermal Power Plant Instrumentation	2	2.6
56	C406	OME 754	Industrial Safety	0.8	1.2
57	C407	EI 8761	Industrial Automation Laboratory	2.2	3
58	C408	EI 8762	Instrumentation System Design Laboratory	1.6	2
59	C409	GE 8076	Professional Ethics in Engineering	2.5	2.6
60	C410	EI 8073	Biomedical Instrumentation	3	2.8
61	C411	EI 8078	Project Management and Finance	2	0.8
62	C412	EI 8079	Robotics and Automation	2.3	2.7
63	C413	EI 8811	Project Work	3.0	3.0
Attainment (Direct)				1.67	1.85
Attainment (Indirect)				3	3
80 % Attainment (Direct)				1.33	1.48
20 % Attainment (Indirect)				0.6	0.6
Total Attainment				1.93	2.08

SRI SAIRAM ENGINEERING COLLEGE
DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

CO ATTAINMENT LEVEL

S.No.	SUB. CODE	SUBJECT NAME	CO1	CO2	CO3	CO4	CO5	CO6	CO. AVG.	CO1	CO2	CO3	CO4	CO5	CO6	CO ATTAI AVG.	CO1	CO2	CO3	CO4	CO5	CO6
1	HS 8151	Communicative English	1.75	2.5	1.75	2	2		2.00	3	3	3	3	3		3	Y	Y	Y	Y	Y	
2	MA8151	Engineering Mathematics - I	2	2	2	2	2		2.00	1	1	0.8	0.8	0.8		0.88	N	N	N	N	N	
3	PH 8151	Engineering Physics	2.2	2.2	2.2	2.2	2.1		2.18	2.6	2.6	2.6	2.4	2.4		2.52	Y	Y	Y	Y	Y	
4	CY 8151	Engineering Chemistry	1.75	1.75	1.88	1.75	1.88		1.80	3.0	3.0	2.8	2.6	2.6		2.8	Y	Y	Y	Y	Y	
5	GE 8151	Problem Solving and Python Programming	2.4	2.4	2.4	2.4	2.4		2.40	2.4	2.6	2.6	2.4	2.4		2.48	Y	Y	Y	Y	Y	
6	GE 8152	Engineering Graphics	2.5	2.5	2.5	2.5	2.67		2.53	2.8	2.8	2.8	2.8	2.8		2.8	Y	Y	Y	Y	Y	
7	GE 8161	Problem Solving and Python Programming Laboratory	2.8	2.8	2.8	2.8	2.8		2.80	3	3	3	3	3		3	Y	Y	Y	Y	Y	
8	BS 8161	Physics and Chemistry Laboratory	1.83	1.83	1.83	1.67	1.67		1.77	3	3	3	3	3		3	Y	Y	Y	Y	Y	
9	HS 8251	Technical English	2.33	3	2.67	2.67	2		2.53	3	3	3	3	3		3	Y	Y	Y	Y	Y	
10	MA 8251	Engineering Mathematics - II	1.5	1.5	1.5	1.5	2		1.60	2.8	2.8	2.8	2.6	2.6		2.72	Y	Y	Y	Y	Y	
11	PH 8253	Physics for Electronics Engineering	1.73	1.91	1.64	1.73	1.73		1.75	3	3	2.8	2.4	2.4		2.72	Y	Y	Y	Y	Y	
12	BE 8252	Basic Civil and Mechanical Engineering	1	2.38	2.38	1.17	1.17		1.62	2.6	2.6	2.6	2.4	2.4		2.52	Y	Y	Y	Y	Y	
13	EE 8251	Circuit Theory	2.13	2.13	2	2	1.38		1.93	2.8	2.8	2.6	2.6	2.6		2.68	Y	Y	Y	Y	Y	
14	GE 8291	Environmental Science and Engineering	1.2	1.9	1.1	1.4	1.3		1.38	2.4	2.4	2.6	2.6	2.6		2.52	Y	Y	Y	Y	Y	
15	GE 8261	Engineering Practices Laboratory	1.3	1.2	1.25	1.2	1.22		1.23	3	3	3	3	3		3	Y	Y	Y	Y	Y	
16	EE 8261	Electric Circuits Laboratory	1.88	1.75	1.89	2	1.86		1.88	3	3	3	3	3		3	Y	Y	Y	Y	Y	
17	MA 8353	Transforms and Partial Differential Equations	1.5	1.5	1.75	1.5	1.5		2.03	2.4	2.4	2.4	2.4	2.4		1.6	Y	Y	Y	Y	Y	
18	EC 8353	Electron Devices and Circuits	1.71	2.07	2.14	2.14	2.07		1.15	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	Y	Y	Y	
19	EE 8351	Digital Logic Circuits	0.86	1.14	1.07	1.14	1.54		1.41	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	Y	Y	Y	
20	EI 8351	Electrical Measurements	1.43	1.21	1.50	1.43	1.50		1.40	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	Y	Y	Y	
21	EI 8352	Transducers Engineering	1.50	1.64	1.29	1.21	1.36		1.53	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	Y	Y	Y	
22	CS 8392	Object Oriented Programming	1.29	1.43	1.79	1.79	1.36		2.03	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	Y	Y	Y	

23	EI 8361	Measurements and Transducers Laboratory	1.71	2.07	2.14	2.14	2.07		1.20	3	3	3	3	3		3	Y	Y	Y	Y	Y	
24	CS 8383	Object Oriented Programming Laboratory	1.07	1.50	1.00	1.43	1.00		2.13	3	3	3	3	3		3	Y	Y	Y	Y	Y	
25	MA 8491	Numerical Methods	0.79	0.79	0.79	0.79	0.79		0.79	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	Y	Y	Y	
26	EI 8451	Electrical Machines	0.57	0.57	0.57	0.57	0.57		0.57	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	Y	Y	Y	
27	EI 8452	Industrial Instrumentation - I	1.14	1.14	1.14	1.14	1.14		1.14	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	Y	Y	Y	
28	EE 8451	Linear Integrated Circuits and Applications	0.93	1.00	0.93	1.00	0.93		0.96	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	Y	Y	Y	
29	IC 8451	Control Systems	0.86	1.00	0.86	1.00	0.93		0.93	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	Y	Y	Y	
30	EC 8395	Communication Engineering	1.57	1.57	1.57	1.57	1.79		1.61	2.4	2.4	2.4	2.4	2.4		2.4	Y	Y	Y	Y	Y	
31	EI 8461	Devices and Machines Laboratory	1.14	1.57	1.57	1.57	1.57		1.48	3	3	3	3	3		3	Y	Y	Y	Y	Y	
32	EE 8461	Linear and Digital Integrated Circuits Laboratory	1.29	1.57	1.21	1.50	1.50		1.41	3	3	3	3	3		3	Y	Y	Y	Y	Y	
33	EI 8551	Analytical Instruments	2.00	1.93	2.00	1.71	1.64	1.50	1.80	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
34	EI 8552	Industrial Instrumentation - II	1.21	1.21	1.14	1.21	1.21	1.21	1.20	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
35	EI 8553	Process Control	1.64	1.29	1.50	1.43	1.50	1.43	1.47	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
36	EE 8551	Microprocessors and Microcontrollers	0.50	0.14	0.57	0.36	0.71	0.71	0.50	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
37	EI8093	Unit Operation and Control	1.43	1.43	1.57	1.50	1.64	2.07	1.61	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
38	OCE 551	Air Pollution and Control Engineering	0.79	0.93	1.00	1.00	1.00	1.15	0.98	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
39	EI 8561	Industrial Instrumentation Laboratory	1.29	1.21	1.21	1.14	1.50	1.29	1.27	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
40	EE 8681	Microprocessors and Microcontrollers Laboratory	2.00	1.93	2.00	1.71	1.64	1.50	1.80	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
41	IC8651	Advanced control system	1.41	1.21	1.00	0.93	0.86	0.93	1.06	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
42	EI8651	Logic and Distributed Control System	1.36	1.43	1.43	1.36	1.43	1.36	1.40	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
43	CS8391	Data Structures	1.50	1.57	2.07	1.50	1.50	1.50	1.61	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
44	EI8092	Thermal power Instrumentation system	1.43	1.29	1.29	1.36	1.64	1.64	1.44	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
45	EI8074	Computer Networks	1.71	0.79	1.07	1.00	1.29	1.29	1.19	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
46	EI 8072	Advanced Instrumentation Systems	1.07	1.21	0.85	1.00	0.93	0.93	1.00	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
47	CS8381	Data Structures Laboratory	1.07	1.50	1.00	1.43	1.00	0.86	1.14	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
48	EI8661	Process Control Laboratory	1.07	1.43	1.50	1.43	1.57	1.07	1.35	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y

49	HS8581	Professional Communication	0.86	0.93	0.93	0.86	0.86	0.86	0.88	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
50	EI 8751	Industrial Data Networks	0.80	0.70	0.60	1.00	0.90	1.00	0.83	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
51	EI8091	Instrumentation in Petrochemical Industries	1.00	1.00	0.90	0.90	1.00	1.00	0.97	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
52	EC 8093	Digital Image Processing	0.30	0.90	1.10	1.00	1.10	1.10	0.92	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
53	EI 8075	Fibre Optics and Laser Instrumentation	1.36	1.43	1.43	1.36	1.36	1.36	1.38	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
54	EI 8691	Computer Control of Processes	1.45	1.50	1.50	1.43	1.43	1.43	1.46	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
55	OAN751	Low Cost Automation	1.86	1.79	1.86	1.79	1.86	1.79	1.83	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
56	EI 8761	Industrial Automation Laboratory	1.07	1.43	1.50	1.43	1.57	1.07	1.35	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
57	EI 8762	Instrumentation System Design Laboratory	3.00	2.00	3.00	3.00	2.00	1.08	2.35	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
58	MG8591	Principles of management	1.8	2.7	2.7	2.3	2.3	1.10	2.15	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
59	EI 8073	Biomedical Instrumentation	1.54	2.43	2.43	2.43	2.43	2.57	2.31	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
60	EI 8079	Robotics and Automation	2.3	1.8	2.1	2.3	2.7	2.6	2.3	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y
61	EI 8811	Project Work	3.00	3.00	2.50	2.79	2.67	2.71	2.86	3	3	3	3	3	3	3	Y	Y	Y	Y	Y	Y

SRI SAIRAM ENGINEERING COLLEGE
DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

CO - PO ATTAINMENT LEVEL

S.No.	SUB. CODE	COURSE CODE	SUBJECT NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	C101	HS 8151	Communicative English	0.00	0.00	0.00	0.00	0.00	2.00	1.00	0.00	2.00	3.00	0.00	1.00
2	C102	MA8151	Engineering Mathematics - I	3.00	3.00	2.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
3	C103	PH 8151	Engineering Physics	1.60	2.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
4	C104	CY 8151	Engineering Chemistry	3.00	2.00	2.67	1.75	1.00	1.00	1.83	1.00	0.00	0.00	1.00	1.83
5	C105	GE 8151	Problem Solving and Python Programming	0.00	2.00	0.00	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00
6	C106	GE 8152	Engineering Graphics	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00
7	C107	GE 8161	Problem Solving and Python Programming Laboratory	2.30	1.80	1.80	1.20	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	C108	BS 8161	Physics and Chemistry Laboratory	3.00	3.00	3.00	2.40	2.60	2.00	1.60	1.00	1.00	1.60	1.00	1.40
9	C109	HS 8251	Technical English	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.80	3.00	1.00	1.00
10	C110	MA 8251	Engineering Mathematics - II	3.00	3.00	2.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
11	C111	PH 8253	Physics for Electronics Engineering	1.60	2.00	1.00	2.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
12	C112	BE 8252	Basic Civil and Mechanical Engineering	3.00	3.00	3.00	3.00	2.40	1.00	1.60	1.00	1.00	1.00	1.00	1.00
13	C113	EE 8251	Circuit Theory	3.00	2.20	2.20	2.00	2.00	1.40	0.00	0.00	0.00	0.00	0.00	2.00
14	C114	GE 8291	Environmental Science and Engineering	3.00	3.00	2.60	3.00	2.40	2.80	2.40	2.40	2.60	2.80	2.60	2.60
15	C115	GE 8261	Engineering Practices Laboratory	1.80	1.30	1.00	1.00	1.50	1.17	1.00	1.00	1.00	1.00	1.00	1.70
16	C116	EE 8261	Electric Circuits Laboratory	1.70	1.80	1.70	2.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	C201	MA 8353	Transforms and Partial Differential Equations	3.00	2.00	1.00	0.00	1.20	0.00	0.00	0.00	0.00	1.00	0.00	1.00

18	C202	EC 8353	Electron Devices and Circuits	3.00	2.80	3.00	2.00	2.20	1.20	1.20	0.40	0.00	2.20	3.00	1.80
19	C203	EE 8351	Digital Logic Circuits	2.20	2.60	2.00	1.40	0.25	0.00	0.00	0.00	0.40	0.80	0.60	1.20
20	C204	EI 8351	Electrical Measurements	2.40	2.40	2.20	2.00	2.00	1.40	0.00	0.00	0.00	0.00	0.00	2.40
21	C205	EI 8352	Transducers Engineering	2.40	1.80	2.00	2.20	2.20	1.40	0.00	0.00	0.00	0.00	0.00	2.60
22	C206	CS 8392	Object Oriented Programming	3.00	2.20	2.40	2.20	2.80	0.00	0.00	0.00	0.00	0.00	2.00	1.80
23	C207	EI 8361	Measurements and Transducers Laboratory	3.00	2.80	3.00	2.00	2.20	1.20	1.20	0.40	0.00	2.20	3.00	1.80
24	C208	CS 8383	Object Oriented Programming Laboratory	1.40	2.40	2.20	1.40	1.40	0.00	0.00	0.00	0.00	0.00	1.10	1.40
25	C209	MA 8491	Numerical Methods	3.00	3.00	2.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
26	C210	EI 8451	Electrical Machines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00
27	C211	EI 8452	Industrial Instrumentation - I	2.00	3.00	2.00	2.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
28	C212	EE 8451	Linear Integrated Circuits and Applications	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	2.80	2.60	1.40
29	C213	IC 8451	Control Systems	3.00	2.00	1.40	1.20	0.40	0.00	0.00	0.00	0.00	0.00	0.00	1.00
30	C214	EC 8395	Communication Engineering	3.00	3.00	3.00	2.20	0.00	0.00	0.20	1.20	0.00	3.00	1.20	1.80
31	C215	EI 8461	Devices and Machines Laboratory	1.40	2.40	3.00	2.40	2.40	1.40	0.00	0.00	0.00	0.00	0.00	2.40
32	C216	EE 8461	Linear and Digital Integrated Circuits Laboratory	1.40	2.40	3.00	2.20	2.20	1.40	0.00	0.00	0.00	0.00	0.00	2.00
33	C301	EI 8551	Analytical Instruments	2.67	2.83	2.67	2.50	2.00	2.17	2.00	1.00	1.00	0.00	0.00	1.00
34	C302	EI 8552	Industrial Instrumentation - II	0.00	0.00	3.00	2.00	2.00	1.17	3.00	0.00	0.00	0.00	0.00	0.00
35	C303	EI 8553	Process Control	2.33	2.50	2.50	2.17	2.17	1.83	0.00	0.00	0.00	0.00	0.00	2.17
36	C304	EE 8551	Microprocessors and Microcontrollers	0.67	1.33	1.17	1.00	0.50	0.00	0.00	0.00	0.00	0.00	0.50	0.33
37	C305	EI8093	Unit Operation and Control	3.00	1.00	2.67	2.33	1.33	2.00	0.00	0.00	0.33	0.50	2.00	2.17
38	C306	OCE 551	Air Pollution and Control Engineering	2.67	1.83	1.67	1.83	1.67	1.00	1.20	0.50	0.00	0.00	0.33	1.00
39	C307	EI 8561	Industrial Instrumentation Laboratory	2.00	2.17	2.33	2.33	2.33	1.33	0.00	0.00	0.00	0.00	0.00	1.00

40	C308	EE 8681	Microprocessors and Microcontrollers Laboratory	2.83	2.50	2.67	2.33	2.67	1.17	0.00	0.00	0.00	0.00	1.00	2.50
41	C309	IC8651	ADVANCED CONTROL SYSTEM	1.67	2.00	1.67	1.33	1.50	1.50	0.00	0.00	1.50	0.00	0.00	0.33
42	C310	EI8651	Logic and Distributed Control System	3.00	2.00	2.20	2.00	2.00	1.20	0.00	0.00	0.00	0.00	0.00	2.20
43	C311	CS8391	Data Structures	2.17	2.17	1.17	2.17	2.33	0.67	0.67	0.50	1.83	1.50	2.50	2.33
44	C312	EI8092	THERMAL POWER PLANT INSTRUMENTATION	2.00	2.17	2.33	2.50	2.50	1.33	0.00	0.00	0.00	0.00	0.00	2.33
45	C313	EI8074	Computer Networks	3.00	3.00	2.17	0.17	1.00	0.33	1.50	1.17	0.33	0.83	0.00	0.67
46	C314	EI 8072	ADVANCED INSTRUMENTATION SYSTEMS	2.00	1.70	1.60	1.30	0.30	1.70	1.30	0.00	0.00	0.00	0.00	0.30
47	C315	CS8381	Data Structures Laboratory	1.33	2.33	2.00	1.33	1.33	0.00	0.00	0.00	0.00	0.00	0.00	1.33
48	C316	EI8661	Process Control Laboratory	1.33	2.33	2.83	2.33	2.33	1.33	0.00	0.00	0.00	0.00	0.00	1.17
49	C317	HS8581	Professional Communication	1.17	1.00	1.00	1.00	1.00	0.00	0.00	0.00	2.17	0.00	0.00	0.00
50	C401	EI 8751	Industrial Data Networks	1.8	1.80	1.70	0.70	0.00	0.00	0.00	0.00	0.00	0.50	0.30	1.50
51	C402	EI8091	Instrumentation in Petrochemical Industries	2.0	2.0	1.3	1.3	1.8	2.2	0.0	0.0	0.0	0.0	0.0	1.2
52	C403	EC 8093	Digital Image Processing	2.3	1.3	1.7	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	7.0
53	C404	EI 8075	Fibre Optics and Laser Instrumentation	3.00	2.00	2.00	2.00	2.00	1.17	0.00	0.00	0.00	0.00	0.00	2.10
54	C405	EI 8691	Computer Control of Processes	3.00	2.30	2.50	2.00	2.00	1.80	0.00	0.00	0.00	0.00	0.00	2.30
55	C406	OAN751	Low Cost Automation	3.00	2.00	1.00	1.00	2.50	2.00	1.00	1.00	2.00	2.50	1.50	3.00
56	C407	EI 8761	Industrial Automation Laboratory	1.33	2.33	2.83	2.33	2.33	1.33	0.00	0.00	0.00	0.00	0.00	1.17
57	C408	EI 8762	Instrumentation System Design Laboratory	2.50	2.00	2.83	2.17	2.83	2.00	0.00	0.00	0.00	0.00	0.00	1.00
58	C409	MG8591	Principles of management	3	2.2	2.7	2	2.8	3	1	2.7	1.8	1.8	1.8	1.8
59	C410	EI 8073	Biomedical Instrumentation	2	2	2.3	2.2	2.7	2.7	2.2	2.3	2.7	2.3	2.7	2
60	C411	EI 8079	Robotics and Automation	2.7	2.7	2	2.3	0	0	0	0	2.7	1.3	0	2

61	C412	EI 8811	Project Work	3.00	3.00	2.67	2.83	2.83	2.50	2.67	2.67	2.50	0.00	0.00	2.50	
Attainment (Direct)				1.85	1.61	1.71	1.42	1.57	1.17	0.49	0.39	0.48	0.61	0.82	1.45	
Attainment (Indirect)				2.50	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
80 % Attainment (Direct)				1.48	1.29	1.37	1.14	1.26	0.94	0.39	0.31	0.39	0.48	0.65	1.16	
20 % Attainment (Indirect)				0.50	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	
Total Attainment				1.98	1.89	1.97	1.74	1.86	1.54	0.99	0.91	0.99	1.08	1.25	1.76	

Sri Sairam Engineering College, (Autonomous), Chennai – 44.**Department of Instrumentation and Control Engineering****PSO Attainment for the Batch 2017-2021 (Regulation 2017)**

SL.NO	CO CODE	SUB CODE	SUB NAME	PSO1	PSO2
1	C101	HS 8151	Communicative English	1.97	1.97
2	C102	MA8151	Engineering Mathematics - I	1.63	1.63
3	C103	PH 8151	Engineering Physics	1.73	1.73
4	C104	CY 8151	Engineering Chemistry	1.79	1.79
5	C105	GE 8151	Problem Solving and Python Programming	1.60	1.60
6	C106	GE 8152	Engineering Graphics	2.96	1.97
7	C107	GE 8161	Problem Solving and Python Programming Laboratory	1.5	1.17
8	C108	BS 8161	Physics and Chemistry Laboratory	2.60	2.40
9	C109	HS 8251	Technical English	2.00	2.00
10	C110	MA 8251	Engineering Mathematics - II	1.65	1.65
11	C111	PH 8253	Physics for Electronics Engineering	1.80	1.80
12	C112	BE 8252	Basic Civil and Mechanical Engineering	1.80	1.80
13	C113	EE 8251	Circuit Theory	2.80	1.80
14	C114	GE 8291	Environmental Science and Engineering	0.81	1.08
15	C115	GE 8261	Engineering Practices Laboratory	1.83	2.00
16	C116	EE 8261	Electric Circuits Laboratory	1.80	1.80
17	C201	MA 8353	Transforms and Partial Differential Equations	1.25	1.00
18	C202	EC 8353	Electron Devices and Circuits	2.60	3.00
19	C203	EE 8351	Digital Logic Circuits	1.80	2.60
20	C204	EI 8351	Electrical Measurements	2.00	3.00
21	C205	EI 8352	Transducers Engineering	2.00	3.00
22	C206	CS 8392	Object Oriented Programming	3.00	2.00
23	C207	EI 8361	Measurements and Transducers Laboratory	2.60	3.00
24	C208	CS 8383	Object Oriented Programming Laboratory	3.00	2.20

25	C209	MA 8491	Numerical Methods	0.00	0.00
26	C210	EI 8451	Electrical Machines	2.00	2.00
27	C211	EI 8452	Industrial Instrumentation - I	1.00	3.00
28	C212	EE 8451	Linear Integrated Circuits and Applications	2.40	1.20
29	C213	IC 8451	Control Systems	2.00	2.00
30	C214	EC 8395	Communication Engineering	2.00	2.00
31	C215	EI 8461	Devices and Machines Laboratory	3.00	2.40
32	C216	EE 8461	Linear and Digital Integrated Circuits Laboratory	3.00	2.20
33	C301	EI 8551	Analytical Instruments	2.67	2.67
34	C302	EI 8552	Industrial Instrumentation - II	2.67	3.00
35	C303	EI 8553	Process Control	2.17	2.67
36	C304	EE 8551	Microprocessors and Microcontrollers	1.00	0.50
37	C305	EI8093	Unit Operation and Control	3.00	2.17
38	C306	OCE 551	Air Pollution and Control Engineering	0.00	0.00
39	C307	EI 8561	Industrial Instrumentation Laboratory	1.83	2.50
40	C308	EE 8681	Microprocessors and Microcontrollers Laboratory	1.83	1.39
41	C309	IC8651	Advanced Control System	0.50	2.17
42	C310	EI8651	Logic and Distributed Control System	3.00	2.00
43	C311	CS8391	Data Structures	1.00	1.50
44	C312	EI8092	Thermal Power plant Instrumentation	2.00	3.00
45	C313	EI8074	Computer Networks	1.00	1.50
46	C314	EI 8072	Advanced Instrumentation Systems	1.00	3.00
47	C315	CS8381	Data Structures Laboratory	2.83	2.17
48	C316	EI8661	Process Control Laboratory	2.83	2.33
49	C317	HS8581	Professional Communication	0.00	1.00
50	C401	EI 8751	Industrial Data Networks	1.50	1.80
51	C402	EI8091	Instrumentation in Petrochemical Industries	0.0	1.8
52	C403	EC 8093	Digital Image Processing	1.7	0.8
53	C404	EI 8075	Fibre Optics and Laser Instrumentation	3.00	2.00

54	C405	EI 8691	Computer Control of Processes	1.70	2.80
55	C406	OAN751	Low Cost Automation	1.00	2.00
56	C407	EI 8761	Industrial Automation Laboratory	2.83	2.33
57	C408	EI 8762	Instrumentation System Design Laboratory	2.00	1.80
58	C409	MG8591	Principles of management	2.8	2.8
59	C410	EI 8073	Biomedical Instrumentation	1	1
60	C411	EI 8079	Robotics and Automation	2.5	2.5
61	C412	EI 8811	Project Work	3.00	3.00
Attainment (Direct)				1.01	1.04
Attainment (Indirect)				3.00	3.00
80 % Attainment (Direct)				0.81	0.83
20 % Attainment (Indirect)				0.60	0.60
Total Attainment				1.41	1.43

Sri Sai Ram Engineering College(Autonomous), Chennai -44

Department of Information Technology

CO Attainment - Batch 2017 - 21 (Regulation 2017)

S.No	Subject Code	Course Code	SUBJECT NAME	Attainment Level						Target						Attained					
				CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
1	HS8151	C 101	Communicative English	3	3	3	3	3		1.75	2.5	1.75	2	2		Y	Y	Y	Y	Y	
2	MA8151	C 102	Engineering Mathematics - I	3	3	3	3	3		2	2	2	2	1.6		Y	Y	Y	Y	Y	
3	PH8151	C 103	Engineering Physics	3	3	3	3	3		2.2	2.2	2	2.2	2		Y	Y	Y	Y	Y	
4	CY8151	C 104	Engineering Chemistry	3	3	3	3	3		1.85	1.86	2	1.86	1.8		Y	Y	Y	Y	Y	
5	GE8151	C 105	Problem Solving and Python Programming	3	3	3	3	3		3	3	3	2.3	2.2		N	N	N	Y	Y	
6	GE8152	C 106	Engineering Graphics	3	3	3	3	3		2.5	2.5	2.5	2.5	2.25		Y	Y	Y	Y	Y	
7	GE8161	C 107	Problem Solving and Python Programming Laboratory	3	3	3	3	3		2.8	2.8	2.8	2.29	2.29		Y	Y	Y	Y	Y	
8	BS8161	C 108	Physics and Chemistry Laboratory	3	3	3	3	3		1.83	1.71	1.71	1.57	1.57		Y	Y	Y	Y	Y	
9	HS8251	C 109	Technical English II	3	3	3	3	3		3	3	2.67	2.67	-		N	Y	Y	Y	Y	
10	MA8251	C 110	Engineering Mathematics - II	3	3	3	3	3		1.5	1.5	1.5	1.5	2		Y	Y	Y	Y	Y	
11	PH8252	C 111	Physics for Information Science	3	3	3	3	3		1.8	1.9	1.7	1.7	1.8		Y	Y	Y	Y	Y	
12	BE8255	C 112	Basic Electrical, Electronics and Measurement Engineering	3	3	3	3	3		1.8	2	1.5	1.6	1.6		Y	Y	Y	Y	Y	

13	IT8201	C 113	Information Technology Essentials	3	3	3	3	3		2.3	2.4	2.4	2.4	2.4		Y	Y	Y	Y	Y	
14	CS8251	C 114	Programming in C	3	3	3	3	3		2.3	2.3	2.3	2.3	2.3		Y	Y	Y	Y	Y	
15	GE8261	C 115	Engineering Practices Laboratory	3	3	3	3	3		1.3	1.2	1.25	1.2	1.2		Y	Y	Y	Y	Y	
16	CS8261	C 116	C Programming Laboratory	3	3	3	3	3		2.4	2.43	2.43	2.43	2.43		Y	Y	Y	Y	Y	
17	IT8211	C117	Information Technology Essentials Laboratory	3	3	3	3	3		2.5	2.8	2.8	2.6	2.4		Y	Y	Y	Y	Y	
18	MA8351	C 201	Discrete Mathematics	3	3	3	3	3		2.5	2.25	2	2	2		Y	Y	Y	Y	Y	
19	CS8351	C 202	Digital Principles and System Design	3	3	3	3	3		1.6	2.2	1.8	1.8	1.8		Y	Y	Y	Y	Y	
20	CS8391	C 203	Data Structures	3	3	3	3	3		2	1.6	1.75	1.5	1.4		Y	Y	Y	Y	Y	
21	CS8392	C 204	Object Oriented Programming	3	3	3	3	3		1.42	1.42	1.25	1.08	1.17		Y	Y	Y	Y	Y	
22	EC8394	C 205	Analog and Digital Communication	3	3	3	3	3		1.9	2.1	2.1	2	2		Y	Y	Y	Y	Y	
23	CS8381	C 206	Data Structures Laboratory	3	3	3	3	3		2	1.6	1.75	1.6	1.4		Y	Y	Y	Y	Y	
24	CS8383	C 207	Object Oriented Programming Laboratory	3	3	3	3	3		0.6	0.8	0.8	0.8	0.8		Y	Y	Y	Y	Y	
25	CS8382	C 208	Digital Systems Laboratory	3	3	3	3	3		1.7	1.6	1.6	1.6	1.6		Y	Y	Y	Y	Y	
26	HS8381	C 209	Interpersonal Skills / Listening & Speaking	2.5	2	1.7	2	2.5		3	3	3	3	3		Y	Y	Y	Y	Y	
27	MA8391	C 210	Probability and Statistics	3	3	3	3	3		1.7	1.7	1.7	1.7	1.7		Y	Y	Y	Y	Y	
28	CS8491	C 211	Computer Architecture	3	3	3	3	3		1.42	1.42	1.25	1.08	1.17		Y	Y	Y	Y	Y	
29	CS8492	C 212	Database Management Systems	3	3	3	3	3		1.42	1.42	1.25	1.08	1.16		Y	Y	Y	Y	Y	
30	CS8451	C 213	Design and Analysis of Algorithms	3	3	3	3	3		1.8	1.8	1.6	1.8	1.2		Y	Y	Y	Y	Y	
31	CS8493	C 214	Operating Systems	3	3	3	3	3		1.6	2.2	1.8	1.75	1.8		Y	Y	Y	Y	Y	

32	GE8291	C 215	Environmental Science and Engineering	3	3	3	3	3		0.86	1.5	1.28	1.5	1.2		Y	Y	Y	Y	Y	
33	CS8481	C 216	Database Management Systems Laboratory	3	3	3	3	3		1.2	1.67	1.83	2	1.83		Y	Y	Y	Y	Y	
34	CS8461	C 217	Operating Systems Laboratory	3	3	3	3	3		1.2	1.67	1.83	2	1.83		Y	Y	Y	Y	Y	
35	HS8461	C 218	Advanced Reading and Writing	3	3	3	3	3		2.5	2	2.5	1.6	1.6		Y	Y	Y	Y	Y	
36	MA8551	C 301	Algebra and Number Theory	3	3	3	3	3	3	2.3	2.3	2.3	2.3	2.3	2.3	Y	Y	Y	Y	Y	Y
37	CS8591	C 302	Computer Networks	3	3	3	3	3	3	1.17	1.67	1.83	2	1.17	1.17	Y	Y	Y	Y	Y	Y
38	EC8691	C 303	Microprocessors and Microcontrollers	2	2	2	2	2	3	1.5	1.5	1.3	1.3	1.1	1.1	Y	Y	Y	Y	Y	Y
39	IT8501	C 304	Web Technology	3	3	3	3	3	3	2.0	2.3	2.3	2.0	2.4	2.0	Y	Y	Y	Y	Y	Y
40	CS8494	C 305	Software Engineering	3	3	3	3	3	3	2.2	1.6	1.8	2.0	2.3	1.5	Y	Y	Y	Y	Y	Y
41	OBT554	C306 (a)	Principles of Food Preservation (Open Elective I)	3	3	3	3	3	3	1.8	1.8	1.4	1.4	1.0	1.7	Y	Y	Y	Y	Y	Y
	OEC552	C306 (b)	Soft Computing (Open Elective I)	1	1	1	1	1	3	0.43	1.1	1.1	0.64	0.5	0.36	Y	N	N	Y	Y	Y
42	EC8681	C 307	Microprocessors and Microcontrollers Laboratory	3	3	3	3	3	3	1.3	1.4	1.4	1.4	1.1	1.3	Y	Y	Y	Y	Y	Y
43	CS8581	C 308	Networks Laboratory	3	3	3	3	3	3	2	2	1.25	1.25	2	1.25	Y	Y	Y	Y	Y	Y
44	IT8511	C 309	Web Technology Laboratory	3	3	3	3	3	3	2.2	2.3	1.8	1.3	2.3	1.8	Y	Y	Y	Y	Y	Y
45	IT8601	C 310	Computational Intelligence	3	3	3	3	3	3	1.5	1.3	1.2	1.4	2.5	1.8	Y	Y	Y	Y	Y	Y
46	CS8592	C 311	Object oriented Analysis & Design	3	3	3	3	3	3	1.5	2.4	2.0	2.4	2.3	1.8	Y	Y	Y	Y	Y	Y
47	IT8602	C 312	Mobile Communication	3	3	3	3	3	3	2.4	2.2	2.8	2.8	2.6	2.8	Y	Y	Y	Y	Y	Y
48	CS8091	C 313	Big Data Analytics	3	3	3	3	3	3	1.5	2.0	1.3	1.7	1.8	1.4	Y	Y	Y	Y	Y	Y

49	CS8092	C 314	Computer Graphics & Multimedia	3	3	3	3	3	3	2.5	2.5	1.8	2.2	2.2	2.1	Y	Y	Y	Y	Y	Y
50	IT8076	C 315 (a)	Software Testing (Professional Elective - I)	2	2	2	2	2	2	1.3	2.1	1.7	1.8	1.2	1.8	Y	N	Y	N	Y	Y
	IT8001	C 315 (b)	Information Storage and Management (Professional Elective - I)	3	3	3	3	3	3	2.0	2.3	2.3	2.0	2.4	2.0	Y	Y	Y	Y	Y	Y
51	CS8662	C 316	Mobile Application Laboratory	3	3	3	3	3	3	2.3	2.1	2.3	2.4	2.7	2.3	Y	Y	Y	Y	Y	Y
52	CS8582	C 317	Object Oriented Analysis & Design Laboratory	3	3	3	3	3	3	2.3	1.5	1.8	2.2	2.2	2.2	Y	Y	Y	Y	Y	Y
53	IT8661	C 318	Mini Project	3	3	3	3	3	3	1.8	1.7	1.8	2.2	1.9	2.1	Y	Y	Y	Y	Y	Y
54	HS8581	C 319	Professional Communication	3	3	3	3	3	3	0.43	0.43	0.57	0.36	0.5	0.43	Y	Y	Y	Y	Y	Y
55	MG8591	C 401	Principles of Management	3	3	3	3	3	3	2.2	1.9	1.7	1.9	1.7	1.7	Y	Y	Y	Y	Y	Y
56	CS8792	C 402	Cryptography and Network Security	3	3	3	3	3	3	1	2.25	1	2	2	2.25	Y	Y	Y	Y	Y	Y
57	CS8791	C 403	Cloud Computing	3	3	3	3	3	3	1.9	2.1	2.3	2.4	2.6	2.6	Y	Y	Y	Y	Y	Y
58	OCY751	C 404 (a)	WasteWater Treatment (Open Elective - II)	3	3	3	3	3	3	1.3	1.7	1.7	1.7	1.7	1.7	Y	Y	Y	Y	Y	Y
	OCH752	C 404 (b)	Energy Technology (Open Elective - II)	3	3	3	3	3	3	1.7	1.8	1.8	1.9	1.8	1.8	Y	Y	Y	Y	Y	Y
59	IT8075	C 405	Software Project Management (Professional Elective – II)	3	3	3	3	3	3	2.3	2	2.3	2.3	2.3	2.1	Y	Y	Y	Y	Y	Y
60	CS8079	C 406	Human Computer Interaction (Professional Elective – III)	3	3	3	3	3	3	2.5	2.5	1.8	2.2	2.2	2.1	Y	Y	Y	Y	Y	Y
61	IT8711	C 407	FOSS and Cloud Computing Laboratory	3	3	3	3	3	3	1.8	2.2	1.6	1.4	1.5	1.5	Y	Y	Y			
62	IT8761	C 408	Security Laboratory	3	3	3	3	3	3	1.3	1.3	1.3	1.3	1.3	1.6	Y	Y	Y	Y	Y	Y

63	GE8076	C 409	Professional Ethics in Engineering (Professional Elective-IV)	3	3	3	3	3	3	2.18	1.91	1.73	1.91	1.73	1.73	Y	Y	Y	Y	Y	Y
64	IT8005	C 410	Electronic Commerce (Professional Elective-V)	3	3	3	3	3	3	2.3	2.7	2.5	2.6	2.2	2.5	Y	Y	Y	Y	Y	Y
65	IT8811	C 411	Project Work	3	3	3	3	3	3	1.8	1.7	1.8	2.2	1.9	2.1	Y	Y	Y	Y	Y	Y

SRI SAIRAM ENGINEERING COLLEGE
DEPARTMENT OF INFORMATION TECHNOLOGY
PO Attainment for the batch 2017 - 21 (Regulation 2017)

S.N O	Subject Code	Course Code	Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	HS8151	C101	Communicative English	-	-	-	-	-	2.0	1.0	-	2.0	3.0	-	2.0
2	MA8151	C102	Engineering Mathematics – I	3.0	2.0	-	-	1.0	-	-	-	-	-	-	-
3	PH8151	C103	Engineering Physics	2.8	2.2	2.0	-	-	2.0	2.0	-	-	-	-	-
4	CY8151	C104	Engineering Chemistry	2.0	2.0	3.0	-	-	2.0	2.4	-	1.0	-	-	-
5	GE8151	C105	Problem Solving and Python Programming	-	2.0	-	2.0	3.0	-	-	-	-	-	-	3.0
6	GE8152	C106	Engineering Graphics	3.0	2.0	3.0	-	-	-	-	-	2.0	2.2	-	3.0
7	GE8161	C107	Problem Solving and Python Programming Laboratory	3.0	3.0	3.0	-	3.0	-	-	-	-	-	-	2.0
8	BS8161	C108	Physics and Chemistry Laboratory	3.0	2.0	2.0	-	-	1.0	1.0	1.6	-	-	-	-
9	HS8251	C109	Technical English	-	-	-	-	-	-	-	2.0	3.0	3.0	-	-
10	MA8251	C110	Engineering Mathematics – II	3.0	1.2	1.2	-	-	-	-	-	-	1.0	-	-
11	PH8252	C111	Physics for Information Science	3.0	2.4	2.4	2.0	2.2	1.0	1.0	-	1.0	1.0	2.0	1.6
12	BE8255	C112	Basic Electrical, Electronics and Measurement Engineering	2.4	1.8	1.6	1.6	2.2	2.2	1.0	-	1.0	-	1.0	1.3
13	IT8201	C113	Information Technology Essentials	3.0	3.0	3.0	-	3.0	-	-	-	-	-	1.0	2.0
14	CS8251	C114	Programming in C	3.0	3.0	3.0	-	2.0	-	-	-	-	-	-	2.0
15	GE8261	C115	Engineering Practices Laboratory	2.0	1.4	1.0	1.0	1.5	1.2	1.0	1.0	1.0	1.0	1.0	1.6
16	CS8261	C116	C Programming Laboratory	3.0	3.0	3.0	-	2.0	-	-	-	2.0	-	-	2.0

17	IT8211	C117	Information Technology Essentials	3.0	3.0	3.0	-	3.0	-	-	-	-	-	-	2.8
18	MA8351	C201	Discrete Mathematics	3.0	3.0	1.2	1.4	-	-	-	-	-	-	-	
19	CS8351	C202	Digital Principles and System Design	2.2	2.5	3.0	1.7	2.0	-	-	-	-	-	-	1.2
20	CS8391	C203	Data Structures	2.2	3.0		1.5	1.0	1.0	-	-	1.5	1.0	1.3	1.3
21	CS8392	C204	Object Oriented Programming	2.2	2.0	3.0	3.0	3.0		-	-	1.0	1.0	2.0	1.0
22	EC8394	C205	Analog and Digital Communication	3.0	3.0	1.8	2.0	1.0	2.0	-	-	3.0	2.6	1.3	1.3
23	CS8381	C206	Data Structures Laboratory	2.2	3.0	-	1.7	1.0	1.0	-	-	1.5	1.0	1.3	1.3
24	CS8383	C207	Object Oriented Programming Laboratory	3.0		2.0		2.0	-	-	-	-	-	-	-
25	CS8382	C208	Digital Systems Laboratory	2.2	2.2	2.0	1.5	1.8	-	-	-	1.8	-	-	1.0
26	HS8381	C209	Interpersonal Skills/Listening & Speaking	-	-	-	-	-	-	3.0	1.5	3.0	2.0	1.3	-
27	MA8391	C210	Probability & Statistics	3.0	2.0	2.0	-	-	-	-	-	-	1.0	-	-
28	CS8491	C211	Computer Architecture	2.4	2.0	2.0	1.0	1.4	1.0	-	-	1.0	1.0	-	-
29	CS8492	C212	Database Management Systems	2.4	2.0	2.0	1.0	1.4	1.0	-	-	1.0	1.0	-	-
30	CS8451	C213	Design and Analysis of Algorithms	2.2	2.8	1.0	1.3			-	-	-	-	-	-
31	CS8493	C214	Operating Systems	2.2	2.5	3.0	1.7	2.0		-	-	-	-	-	1.2
32	GE8291	C215	Environmental Science and Engineering	1.6	1.4	2.0	-	-	2.0	2.0	2.0	2.4	1.8	1.0	1.8
33	CS8481	C216	Database Management Systems Laboratory	2.0	1.8	1.8	-	-	-	-	-	1.8	-	-	1.8
34	CS8461	C217	Operating Systems Laboratory	2.0	1.8	1.8	-	-	-	-	-	1.8	-	-	1.8
35	HS8461	C218	Advanced Reading and Writing	-	3.0	-	2.0	3.0	2.0	1.0	-	-	3.0	1.5	-

36	MA8551	C301	Algebra and Number Theory	3.0	3.0	2.0	1.0	-	-	-	-	-	-	-	-
37	CS8591	C302	Computer Networks	3.0	2.3	2.0	2.0	-	-	-	-	-	-	-	1.8
38	EC8691	C303	Microprocessors and Microcontrollers	1.9	1.0	0.7	-	0.7	0.7	-	-	-	-	0.7	0.7
39	IT8501	C304	Web Technology	2.5	2.6	2.7	3.0	2.7		-	-	-	-	1.7	1.0
40	CS8494	C305	Software Engineering	2.3	2.8	2.0	1.0	2.0	1.5	2.0	-	1.5	1.0	2.0	1.3
41	OEC554	C306 (a)	Principles of Food Preservation (Open Elective I)	1.0	1.3	1.7	2.0	1.3	1.4	1.6	-		1.0	1.0	1.6
	OBT552	C306 (b)	Soft Computing (Open Elective I)	0.8	1.1	0.9	1.3	0.7	-	-	-	-	-	-	-
42	EC8681	C307	Microprocessors and Microcontrollers Laboratory	1.2	1.5	1.5	1.0	1.3	1.0	-	-	-	-	-	1.2
43	CS8581	C308	Networks Laboratory	2.0	1.0		1.8	2.0	-	-	-	-	-	-	-
44	IT8511	C309	Web Technology Laboratory	2.5	2.6	2.5		3.0	-	-	-	-	-	-	-
45	IT8601	C310	Computational Intelligence	2.3	1.0	3.0	2.6	3.0	-	-	-	-	-	-	1.4
46	CS8592	C311	Object Oriented Analysis and design	1.5	2.8	3.0	3.0	3.0	-		-	2.0	2.0	2.0	2.0
47	IT8602	C312	Mobile Communication	3.0	2.7		2.0	1.5	-	1.0	-	-	-	-	2.5
48	CS8091	C313	Big Data Analytics	2.0	1.8	1.3	1.4	1.5	-		-	-	-	-	1.2
49	CS8092	C314	Computer Graphics and multimedia	2.4	1.8	3.0	2.0	2.3	2.0	2.0	-	-	-	-	2.5
50	IT8076	C315 (a)	Software Testing (Professional Elective - I)	1.0	2.3	2.5	1.8	1.8	-	-	-	1.3	1.3	-	2.0
	IT8001	C315 (b)	Information Storage and Management (Professional Elective - I)	2.5	2.6	2.7	3.0	2.7	-	-	-	-	-	1.7	1.0
51	CS8662	C316	Mobile Application Development Laboratory	2.5	3.0	3.0	2.0	2.0	-	-	-	1.8	-	-	1.8

52	CS8582	C317	Object Oriented Analysis and Design Laboratory	2.8	1.7	1.7	-	-	-	-	-	-	-	-	-
53	IT8611	C318	Mini Project	2.0	3.0	2.4	2.2	2.0	1.8	1.8	1.0	1.4	1.3	1.8	2.3
54	HS8581	C319	Professional Communication	-	2.0	-	-	1.0	1.3		2.0	1.7	2.5	1.5	2.0
55	MG8591	C401	Principles of Management	2.2	1.7	1.7	-	-	1.0	1.0	3.0	2.0	2.0	-	2.0
56	CS8792	C402	Cryptography and Network Security	2.2	3.0	-	2.0	-	-	-	-	-	-	-	1.0
57	CS8791	C403	Cloud Computing	2.8	2.8	2.7	2.8	2.6	2.0	1.7	1.5	1.6	1.0	2.3	2.8
58	OCY751	C404 (a)	Wastewater treatment (Open Elective - II)	2.8	2.0	1.0	1.0	-	-	1.8	-	-	-	-	1.0
	OCH752	C404 (b)	Energy Technology (Open Elective - II)	3.0	1.7	2.5	2.0	1.8	1.8	2.0	1.0	-	-	1.0	2.0
59	IT8075	C405	Software Project Management (Professional Elective - II)	2.8	3.0	1.3	2.5	1.0		1.0	2.0	1.2	1.7	3.0	1.0
60	CS8079	C406	Human Computer Interaction (Professional Elective - III)	2.4	1.8	3.0	2.0	2.3	2.0	2.0	-	-	-	-	2.5
61	IT8711	C407	FOSS and Cloud Computing Laboratory	2.0	2.0	3.0	2.0	2.3	-	-	-	-	-	1.0	1.8
62	IT8761	C408	Security Laboratory	1.0	1.0	-	2.0	1.3	-	-	-	-	-	-	1.0
63	GE8076	C409	Professional Ethics in Engineering (Professional Elective - IV)	2.2	1.7	1.7	-	-	1.0	1.0	3.0	2.0	2.0	-	2.0
64	IT8005	C410	Electronic Commerce (Professional Elective - V)	2.6	2.8	3.0	2.0	2.8	-	1.0	2.8	2.6	3.0	2.7	3.0
65	IT8811	C411	Project Work	2.0	3.0	2.4	2.2	2.0	1.8	1.8	1.0	1.4	1.3	1.8	2.3
Attainment (Direct)				2.4	2.2	2.2	1.8	2.0	1.5	1.5	1.9	1.7	1.7	1.5	1.7
Attainment (Indirect)				2.7	2.5	2.3	1.5	2.0	2.2	1.9	2.1	2.5	2.3	2.2	2.5

80% of Attainment (Direct)	1.9	1.8	1.8	1.5	1.6	1.2	1.2	1.5	1.4	1.3	1.2	1.4
20% of Attainment (Indirect)	0.5	0.5	0.5	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.5
Total Attainment	2.4	2.3	2.2	1.8	2.0	1.6	1.6	1.9	1.9	1.8	1.7	1.9

SRI SAIRAM ENGINEERING COLLEGE
DEPARTMENT OF INFORMATION TECHNOLOGY
PSO Attainment for the batch 2017 - 21 (Regulation 2017)

S.NO	Subject Code	Course Code	Subject	PSO1	PSO2
1	HS8151	C101	Communicative English	1.2	1.0
2	MA8151	C102	Engineering Mathematics – I	1.0	1.0
3	PH8151	C103	Engineering Physics	1.0	1.0
4	CY8151	C104	Engineering Chemistry	1.0	1.0
5	GE8151	C105	Problem Solving and Python Programming	1.0	1.0
6	GE8152	C106	Engineering Graphics	1.0	1.0
7	GE8161	C107	Problem Solving and Python Programming Laboratory	1.0	1.0
8	BS8161	C108	Physics and Chemistry Laboratory	1.0	1.0
9	HS8251	C109	Technical English	-	-
10	MA8251	C110	Engineering Mathematics – II	-	-
11	PH8252	C111	Physics for Information Science	-	-
12	BE8255	C112	Basic Electrical, Electronics and Measurement Engineering	-	-
13	IT8201	C113	Information Technology Essentials	2.0	2.0
14	CS8251	C114	Programming in C	1.0	1.0
15	GE8261	C115	Engineering Practices Laboratory	-	-
16	CS8261	C116	C Programming Laboratory	2.0	2.0
17	IT8211	C117	Information Technology Essentials	2.0	2.0

18	MA8351	C201	Discrete Mathematics		
19	CS8351	C202	Digital Principles and System Design		1.4
20	CS8391	C203	Data Structures	1.0	1.0
21	CS8392	C204	Object Oriented Programming	1.0	1.0
22	EC8394	C205	Analog and Digital Communication	1.0	1.0
23	CS8381	C206	Data Structures Laboratory	1.0	1.0
24	CS8383	C207	Object Oriented Programming Laboratory	2.0	2.0
25	CS8382	C208	Digital Systems Laboratory	1.0	1.0
26	HS8381	C209	Intepersonal Skills/Listening & Speakng	-	-
27	MA8391	C210	Probability & Statistics	-	1.0
28	CS8491	C211	Computer Architecture	1.0	1.0
29	CS8492	C212	Database Management Systems	1.0	1.0
30	CS8451	C213	Design and Analysis of Algorithms	1.0	1.0
31	CS8493	C214	Operating Systems	-	1.4
32	GE8291	C215	Environmental Science and Engineering	-	1.0
33	CS8481	C216	Database Management Systems Laboratory	1.0	1.0
34	CS8461	C217	Operating Systems Laboratory	1.0	1.0
35	HS8461	C218	Advanced Reading and Writing	1.0	1.0
36	MA8551	C301	Algebra and Number Theory	-	-
37	CS8591	C302	Computer Networks	3.0	-
38	EC8691	C303	Microprocessors and Microcontrollers	0.7	0.7

39	IT8501	C304	Web Technology		1.8
40	CS8494	C305	Software Engineering	1.5	2.0
41	OEC554	C306 (a)	Principles of Food Preservation (Open Elective I)	2.0	1.8
	OBT552	C306 (b)	Soft Computing (Open Elective I)	-	0.8
42	EC8681	C307	Microprocessors and Microcontrollers Laboratory	-	1.7
43	CS8581	C308	Networks Laboratory	-	1.0
44	IT8511	C309	Web Technology Laboratory	1.0	1.0
45	IT8601	C310	Computational Intelligence	1.0	1.0
46	CS8592	C311	Object Oriented Analysis and design	2.0	2.0
47	IT8602	C312	Mobile Communication	3.0	-
48	CS8091	C313	Big Data Analytics	2.0	2.0
49	CS8092	C314	Computer Graphics and multimedia	2.0	2.0
50	IT8076	C315 (a)	Software Testing (Professional Elective - I)	1.3	2.0
	IT8001	C315 (b)	Information Storage and Management (Professional Elective - I)	-	1.8
51	CS8662	C316	Mobile Application Development Laboratory	3.0	
52	CS8582	C317	Object Oriented Analysis and Design Laboratory	2.0	2.0
53	IT8611	C318	Mini Project	2.0	2.0
54	HS8581	C319	Professional Communication	-	-
55	MG8591	C401	Principles of Management	2.0	2.0
56	CS8792	C402	Cryptography and Network Security	2.0	1.0
57	CS8791	C403	Cloud Computing	2.7	2.7

58	OCY751	C404 (a)	Wastewater treatment (Open Elective - II)	-	-
	OCH752	C404 (b)	Energy Technology (Open Elective - II)	1.0	2.0
59	IT8075	C405	Software Project Management (Professional Elective - II)	3.0	2.0
60	CS8079	C406	Human Computer Interaction (Professional Elective - III)	2.0	2.0
61	IT8711	C407	FOSS and Cloud Computing Laboratory	1.0	1.0
62	IT8761	C408	Security Laboratory	2.0	1.0
63	GE8076	C409	Professional Ethics in Engineering (Professional Elective - IV)	2.0	2.0
64	IT8005	C410	Electronic Commerce (Professional Elective - V)	1.3	1.3
65	IT8811	C411	Project Work	2.0	2.0
Attainment (Direct)				1.5	1.4
Attainment (Indirect)				1.9	2.5
80% of Attainment (Direct)				0.9	0.9
20% of Attainment (Indirect)				0.4	0.5
Total Attainment				1.6	1.6

Sri Sai Ram Engineering College(Autonomous), Chennai -44

Department of Mechanical Engineering

CO Attainment - Batch 2017 - 21 (Regulation 2017)

S.No	Subject Code	Course Code	SUBJECT NAME	Attainment Level						Target						Attained					
				CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
1	HS8151	C 101	Communicative English	3.00	2.80	3.00	3.00	3.00		2.40	2.50	1.75	2.00	2.00		Y	Y	Y	Y	Y	
2	MA8151	C 102	Engineering Mathematics - I	2.60	2.40	2.40	2.40	2.40		2.00	2.00	2.00	2.00	2.00		Y	Y	Y	Y	Y	
3	PH8151	C 103	Engineering Physics	2.60	2.60	2.60	2.60	2.60		1.20	1.33	1.40	1.20	1.33		Y	Y	Y	Y	Y	
4	CY8151	C 104	Engineering Chemistry	2.80	2.80	2.60	2.60	2.60		1.86	2.29	1.75	1.78	1.78		Y	Y	Y	Y	Y	
5	GE8151	C 105	Problem Solving and Python Programming	2.40	2.40	2.40	2.40	2.40		3.00	3.00	3.00	3.00	2.25		N	N	N	N	Y	
6	GE8152	C 106	Engineering Graphics	2.80	3.00	3.00	3.00	3.00		2.67	2.67	2.67	2.67	2.67		Y	Y	Y	Y	Y	
7	GE8161	C 107	Problem Solving and Python Programming Laboratory	3.00	3.00	3.00				1.00	2.20	2.80				Y	Y	Y			
8	BS8161	C 108	Physics and Chemistry Laboratory	3.00	3.00	3.00				1.67	1.67	1.67				Y	Y	Y			
9	HS8251	C 109	Technical English	3.00	3.00	3.00	3.00	3.00		2.33	3.00	2.67	2.67	2.25		Y	Y	Y	Y	Y	
10	MA8251	C 110	Engineering Mathematics - II	2.60	2.60	2.40	2.40	2.40		2.00	2.00	2.00	2.00	2.00		Y	Y	Y	Y	Y	
11	PH8251	C 111	Materials Science	2.40	2.60	2.60	2.40	2.40		1.40	1.40	1.40	1.40	1.40		Y	Y	Y	Y	Y	
12	BE8253	C 112	Basic Electrical, Electronics and Instrumentation Engineering	2.40	2.40	2.40	2.40	2.40		1.29	2.00	1.14	1.40	1.33		Y	Y	Y	Y	Y	
13	GE8291	C 113	Environmental Science and Engineering	2.60	2.40	2.40	2.40	2.40		2.13	2.25	2.38	2.25	2.13		Y	Y	Y	Y	Y	

14	GE8292	C 114	Engineering Mechanics	2.40	2.40	2.40	2.40	2.40		2.00	2.67	2.67	2.67	2.67		Y	Y	Y	Y	Y	
15	GE8261	C 115	Engineering Practices Laboratory	3.00	3.00	3.00				1.30	1.20	1.25				Y	Y	Y			
16	BE8261	C 116	Basic Electrical, Electronics and Instrumentation Engineering Laboratory	3.00	3.00	3.00				1.75	1.75	2.33				Y	Y	Y			
17	MA8353	C 201	Transforms and Partial Differential Equations	2.40	2.40	2.40	2.40	2.40		1.50	1.50	1.50	1.20	1.25		Y	Y	Y	Y	Y	
18	ME8391	C 202	Engineering Thermodynamics	2.40	2.40	2.40	2.40	2.40		3.00	3.00	3.00	3.00	3.00		Y	Y	Y	Y	Y	
19	CE8394	C 203	Fluid Mechanics and Machinery	2.40	2.40	2.40	2.40	2.40		2.00	2.13	2.13	2.13	2.13		Y	Y	Y	Y	Y	
20	ME8351	C 204	Manufacturing Technology - I	2.40	2.40	2.40	2.40	2.40		1.75	1.75	1.75	1.75	1.75		Y	Y	Y	Y	Y	
21	EE8353	C 205	Electrical Drives and Controls	2.40	2.40	2.40	2.40	2.40		1.56	1.29	1.25	1.22	1.50		Y	Y	Y	Y	Y	
22	ME8361	C 206	Manufacturing Technology Laboratory - I	3.00	3.00	3.00				1.75	1.75	1.75				Y	Y	Y			
23	ME8381	C 207	Computer Aided Machine Drawing	3.00	3.00	3.00				1.44	1.33	1.44				Y	Y	Y			
24	EE8361	C 208	Electrical Engineering Laboratory	3.00	3.00	3.00				1.78	1.71	1.25				Y	Y	Y			
25	HS8381	C 209	Interpersonal Skills / Listening & Speaking	3.00	3.00	3.00				2.50	2.00	1.67				Y	Y	Y			
26	MA8452	C 210	Statistics and Numerical Methods	2.40	2.40	2.40	2.40	2.40		2.00	2.00	2.00	2.00	2.00		Y	Y	Y	Y	Y	
27	ME8492	C 211	Kinematics of Machinery	2.40	2.40	2.40	2.40	2.40		2.00	2.33	2.00	2.33	2.00		Y	Y	Y	Y	Y	
28	ME8451	C 212	Manufacturing Technology – II	2.40	2.40	2.40	2.40	2.40		1.75	1.75	1.75	1.75	1.75		Y	Y	Y	Y	Y	
29	ME8491	C 213	Engineering Metallurgy	2.40	2.40	2.40	2.40	2.40		3.00	3.00	3.00	3.00	3.00		N	N	N	N	N	
30	CE8395	C 214	Strength of Materials for Mechanical Engineers	2.40	2.40	2.40	2.40	2.40		1.50	1.50	1.50	1.50	1.50		Y	Y	Y	Y	Y	
31	ME8493	C 215	Thermal Engineering- I	2.40	2.40	2.40	2.40	2.40		3.00	3.00	3.00	3.00	3.00		N	N	N	N	N	
32	ME8462	C 216	Manufacturing Technology Laboratory – II	3.00	3.00	3.00				1.75	1.75	2.00				Y	Y	Y			

33	CE8381	C 217	Strength of Materials and Fluid Mechanics and Machinery Laboratory	3.00	3.00	3.00				1.50	1.50	1.50				Y	Y	Y			
34	HS8461	C 218	Advanced Reading and Writing	3.00	3.00	3.00				2.50	2.00	2.50				Y	Y	Y			
35	ME8595	C 301	Thermal Engineering- II	2.80	2.40	2.40	2.40	2.40	2.40	3.00	3.00	3.00	3.00	3.00	3.00	N	N	N	N	N	N
36	ME8593	C 302	Design of Machine Elements	2.40	2.40	2.40	2.40	2.40	2.40	1.83	1.83	1.83	1.83	1.83	1.83	Y	Y	Y	Y	Y	Y
37	ME8501	C 303	Metrology and Measurements	2.40	2.40	2.40	2.40	2.40	2.40	1.67	1.67	1.67	1.67	2.67	2.67	Y	Y	Y	Y	N	N
38	ME8594	C 304	Dynamics of Machines	2.40	2.40	2.40	2.40	2.40	2.40	2.50	2.50	2.50	2.00	3.00	3.00	N	N	N	Y	N	N
39	OAT551	C 305 (a)	Automotive Systems (Open Elective I)	2.40	2.40	2.40	2.40	2.40	2.40	3.00	3.00	3.00	3.00	2.67	3.00	N	N	N	N	N	N
	OMF551	C 305 (b)	Product Design and Development (Open Elective I)	3.00	3.00	3.00	2.40	2.40	2.40	2.00	2.25	2.33	2.33	2.00	2.33	Y	Y	Y	Y	Y	Y
	ORO551	C 305 (c)	Renewable Energy Sources (Open Elective I)	2.40	2.40	2.40	2.40	2.40	2.40	3.00	3.00	3.00	3.00	2.33	3.00	N	N	N	N	Y	N
40	ME8511	C 306	Kinematics and Dynamics Laboratory	3.00	3.00	3.00				2.00	2.33	2.00				Y	Y	Y			
41	ME8512	C 307	Thermal Engineering Laboratory	3.00	3.00	3.00				2.67	2.75	2.75				Y	Y	Y			
42	ME8513	C 308	Metrology and Measurements Laboratory	3.00	3.00	3.00				2.80	2.80	2.80				Y	Y	Y			
43	ME8651	C 309	Design of Transmission Systems	2.40	2.40	2.40	2.40	3.00	3.00	1.67	1.67	1.67	1.67	1.67	1.67	Y	Y	Y	Y	Y	Y
44	ME8691	C 310	Computer Aided Design and Manufacturing	3.00	3.00	3.00	2.80	2.80	2.80	2.00	2.33	2.00	2.33	2.00	2.33	Y	Y	Y	Y	Y	Y
45	ME8693	C 311	Heat and Mass Transfer	3.00	3.00	2.40	2.40	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	Y	Y	N	N	Y	Y
46	ME8692	C 312	Finite Element Analysis	2.60	2.60	2.40	2.40	2.40	2.80	2.40	2.40	2.40	2.40	2.40	2.33	Y	Y	Y	Y	Y	Y
47	ME8694	C 313	Hydraulics and Pneumatics	2.40	2.40	2.40	2.40	3.00	3.00	1.00	1.00	1.50	1.50	1.50	1.50	Y	Y	Y	Y	Y	Y
48	ME8091	C 314 (a)	Automobile Engineering (Professional Elective - I)	2.60	2.40	2.40	2.60	3.00	3.00	3.00	3.00	3.00	3.00	2.67	3.00	N	N	N	N	Y	Y

	PR8592	C 314 (b)	Welding Technology (Professional Elective - I)	2.40	2.40	2.40	2.40	2.40	2.40	1.00	1.00	1.00	1.00	3.00	3.00	Y	Y	Y	Y	N	N
	GE8073	C 314 (c)	Fundamentals of Nano Science (Professional Elective - I)	3.00	3.00	2.40	2.40	2.80	2.80	3.00	3.00	3.00	3.00	3.00	3.00	Y	Y	N	N	N	N
49	ME8681	C 315	CAD / CAM Laboratory	3.00	3.00	3.00				2.25	2.25	2.25				Y	Y	Y			
50	ME8682	C 316	Design and Fabrication Project	3.00	3.00	3.00				2.00	2.00	2.17				Y	Y	Y			
51	HS8581	C 317	Professional Communication	3.00	3.00	3.00				2.00	2.00	2.00				Y	Y	Y			
52	ME8792	C 401	Power Plant Engineering	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.67	3.00	3.00	3.00	Y	Y	Y	Y	Y	Y
53	ME8793	C 402	Process Planning and Cost Estimation	3.00	3.00	3.00	3.00	3.00	3.00	1.33	1.83	1.83	1.83	1.83	2.11	Y	Y	Y	Y	Y	Y
54	ME8791	C 403	Mechatronics	3.00	3.00	3.00	3.00	3.00	3.00	1.00	1.00	1.00	1.25	1.25	1.33	Y	Y	Y	Y	Y	Y
55	OMF751	C 404 (a)	Lean Six Sigma (Open Elective - II)	3.00	3.00	2.60	2.60	3.00	3.00	1.25	2.00	2.00	1.88	2.63	2.38	Y	Y	Y	Y	Y	Y
	OML753	C 404 (b)	Selection of Materials (Open Elective - II)	2.40	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	N	Y	Y	Y	Y	Y
	OML751	C 404 (c)	Testing of Materials (Open Elective - II)	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y	Y
	OAT751	C 404 (d)	Production of Automotive Components (Open Elective - II)	3.00	3.00	3.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	3.00	3.00	Y	Y	Y	Y	Y	Y
56	ME8073	C 405	Unconventional Machining Processes (Professional Elective – II)	3.00	3.00	3.00	3.00	3.00	3.00	2.50	2.50	2.50	2.50	2.50	2.50	Y	Y	Y	Y	Y	Y
57	ME8099	C 406	Robotics (Professional Elective – III)	3.00	3.00	3.00	3.00	3.00	3.00	1.43	1.43	1.43	1.43	1.71	1.71	Y	Y	Y	Y	Y	Y
58	ME8711	C 407	Simulation and Analysis Laboratory	3.00	3.00	3.00				2.29	2.14	1.57				Y	Y	Y			
59	ME8781	C 408	Mechatronics Laboratory	3.00	3.00	3.00				1.00	1.00	1.00				Y	Y	Y			
60	ME8712	C 409	Technical Seminar	3.00	3.00	3.00				2.00	2.17	2.17				Y	Y	Y			

61	MG8591	C 410	Principles of Management	3.00	3.00	3.00	3.00	3.00	3.00	2.00	2.67	2.29	2.43	2.88	2.43	Y	Y	Y	Y	Y	Y
62	IE8693	C 411 (a)	Production Planning and Control (Professional Elective– IV)	3.00	3.00	3.00	3.00	3.00	3.00	1.50	1.75	1.75	1.88	2.13	1.88	Y	Y	Y	Y	Y	Y
	MG8091	C 411 (b)	Entrepreneurship Development (Professional Elective– IV)	3.00	3.00	3.00	3.00	3.00	3.00	1.90	2.00	2.17	1.83	2.08	2.58	Y	Y	Y	Y	Y	Y
	GE8076	C 411 (c)	Professional Ethics in Engineering (Professional Elective– IV)	3.00	3.00	3.00	3.00	3.00	3.00	2.22	1.89	1.67	1.89	1.67	1.67	Y	Y	Y	Y	Y	Y
63	ME8811	C 412	Project Work	3.00	3.00	3.00				2.33	2.75	2.00				Y	Y	Y			

Sri Sai Ram Engineering College(Autonomous), Chennai -44

Department of Mechanical Engineering

PO Attainment for the batch 2017 - 21 (Regulation 2017)

S.No	Subject Code	CO	SUBJECT NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	HS8151	C 101	Communicative English	0.00	0.00	0.00	0.00	0.00	1.97	0.99	0.00	1.97	2.96	0.00	0.99
2	MA8151	C 102	Engineering Mathematics - I	2.44	2.44	1.63	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00
3	PH8151	C 103	Engineering Physics	1.04	1.73	0.87	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	0.87
4	CY8151	C 104	Engineering Chemistry	2.68	1.79	2.32	1.56	0.89	0.89	1.61	0.89	0.00	0.00	0.89	1.79
5	GE8151	C 105	Problem Solving and Python Programming	0.00	1.60	0.00	0.80	2.40	0.00	0.00	0.00	0.00	0.00	0.00	2.40
6	GE8152	C 106	Engineering Graphics	2.96	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97	0.00	0.00
7	GE8161	C 107	Problem Solving and Python Programming Laboratory	2.33	2.00	2.00	1.33	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	BS8161	C 108	Physics and Chemistry Laboratory	3.00	2.00	2.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00
9	HS8251	C 109	Technical English	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	3.00	3.00	1.00	1.00
10	MA8251	C 110	Engineering Mathematics - II	2.48	2.48	1.65	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83
11	PH8251	C 111	Materials Science	1.65	1.65	0.83	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00	0.83
12	BE8253	C 112	Basic Electrical, Electronics and Instrumentation Engineering	1.28	1.28	1.33	1.60	1.20	0.96	1.28	0.80	1.00	1.20	0.80	1.33
13	GE8291	C 113	Environmental Science and Engineering	2.44	2.11	2.28	1.63	1.30	1.14	0.00	0.00	0.00	0.00	1.14	2.44

47	ME8694	C 313	Hydraulics and Pneumatics	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87
48	ME8091	C 314 (a)	Automobile Engineering (Professional Elective - I)	2.67	0.00	0.00	0.00	0.00	0.00	2.67	0.00	0.00	1.78	2.67	0.00
	PR8592	C 314 (b)	Welding Technology (Professional Elective - I)	1.33	1.33	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	GE8073	C 314 (c)	Fundamentals of Nano Science (Professional Elective - I)	2.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	ME8681	C 315	CAD / CAM Laboratory	0.00	0.00	0.00	2.00	3.00	0.00	0.00	0.00	0.00	2.00	0.00	2.00
50	ME8682	C 316	Design and Fabrication Project	2.00	2.50	2.00	2.50	2.00	2.00	1.00	2.00	0.00	0.00	2.00	2.00
51	HS8581	C 317	Professional Communication	0.00	0.00	0.00	0.00	0.00	1.00	0.00	2.00	1.50	3.00	2.00	0.00
52	ME8792	C 401	Power Plant Engineering	3.00	0.00	0.00	0.00	0.00	2.00	3.00	0.00	0.00	0.00	0.00	0.00
53	ME8793	C 402	Process Planning and Cost Estimation	2.00	2.00	1.67	1.00	2.00	0.00	0.00	0.00	2.00	2.00	1.00	1.83
54	ME8791	C 403	Mechatronics	1.00	0.00	1.75	0.00	1.00	0.00	0.00	0.00	0.00	2.00	1.00	1.00
55	OMF751	C 404 (a)	Lean Six Sigma (Open Elective - II)	2.07	2.07	2.29	1.91	0.00	0.00	0.00	0.00	2.10	1.91	1.75	1.91
	OML753	C 404 (b)	Selection of Materials (Open Elective - II)	2.90	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	OML751	C 404 (c)	Testing of Materials (Open Elective - II)	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	OAT751	C 404 (d)	Production of Automotive Components (Open Elective - II)	2.33	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56	ME8073	C 405	Unconventional Machining Processes (Professional Elective – II)	3.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57	ME8099	C 406	Robotics (Professional Elective – III)	2.33	2.33	2.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	1.00

58	ME8711	C 407	Simulation and Analysis Laboratory	2.00	2.33	2.00	0.00	2.00	2.00	0.00	0.00	1.67	0.00	0.00	2.00
59	ME8781	C 408	Mechatronics Laboratory	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
60	ME8712	C 409	Technical Seminar	3.00	2.00	2.00	1.67	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00
61	MG8591	C 410	Principles of Management	0.00	0.00	0.00	2.00	0.00	2.17	1.80	3.00	3.00	2.50	3.00	2.50
62	IE8693	C 411 (a)	Production Planning and Control (Professional Elective– IV)	1.67	2.17	1.40	0.00	2.00	0.00	0.00	0.00	1.00	2.00	2.17	2.17
	MG8091	C 411 (b)	Entrepreneurship Development (Professional Elective– IV)	2.00	2.20	1.80	2.00	2.25	1.80	1.80	2.50	2.67	2.33	2.17	2.00
	GE8076	C 411 (c)	Professional Ethics in Engineering (Professional Elective– IV)	2.17	1.67	1.67	0.00	0.00	1.00	1.00	3.00	2.00	2.00	0.00	2.00
63	ME8811	C 412	Project Work	3.00	2.67	2.33	1.67	2.33	2.00	1.67	1.67	3.00	2.33	2.67	3.00
Attainment (Direct)				2.29	2.13	1.73	1.56	1.65	1.37	1.37	1.62	1.85	1.96	1.50	1.54
Attainment (Indirect)				2.54	2.42	1.95	1.42	1.85	1.61	1.50	1.99	2.28	2.21	1.96	2.38
80% of Attainment (Direct)				1.83	1.70	1.38	1.25	1.32	1.09	1.09	1.30	1.48	1.57	1.20	1.24
20% of Attainment (Indirect)				0.51	0.48	0.39	0.28	0.37	0.32	0.30	0.40	0.46	0.44	0.39	0.48
Total Attainment				2.34	2.19	1.77	1.53	1.69	1.42	1.39	1.70	1.94	2.01	1.59	1.71

Sri Sai Ram Engineering College(Autonomous), Chennai -44**Department of Mechanical Engineering****PSO Attainment for the Batch 2017 - 21 (Regulation 2017)**

S.No	Subject Code	CO	SUBJECT NAME	PSO1	PSO2
1	HS8151	C 101	Communicative English	1.97	1.97
2	MA8151	C 102	Engineering Mathematics - I	1.63	1.63
3	PH8151	C 103	Engineering Physics	1.73	1.73
4	CY8151	C 104	Engineering Chemistry	1.79	1.79
5	GE8151	C 105	Problem Solving and Python Programming	1.60	1.60
6	GE8152	C 106	Engineering Graphics	2.96	1.97
7	GE8161	C 107	Problem Solving and Python Programming Laboratory	1.50	1.17
8	BS8161	C 108	Physics and Chemistry Laboratory	2.60	2.40
9	HS8251	C 109	Technical English	2.00	2.00
10	MA8251	C 110	Engineering Mathematics - II	1.65	1.65
11	PH8251	C 111	Materials Science	1.65	1.65
12	BE8253	C 112	Basic Electrical, Electronics and Instrumentation Engineering	1.74	2.00
13	GE8291	C 113	Environmental Science and Engineering	0.81	1.08
14	GE8292	C 114	Engineering Mechanics	2.40	2.40
15	GE8261	C 115	Engineering Practices Laboratory	1.83	2.00
16	BE8261	C 116	Basic Electrical, Electronics and Instrumentation Engineering Laboratory	1.83	1.83
17	MA8353	C 201	Transforms and Partial Differential Equations	1.60	1.60
18	ME8391	C 202	Engineering Thermodynamics	2.40	2.40
19	CE8394	C 203	Fluid Mechanics and Machinery	2.40	2.40
20	ME8351	C 204	Manufacturing Technology - I	1.60	1.60
21	EE8353	C 205	Electrical Drives and Controls	2.00	2.00
22	ME8361	C 206	Manufacturing Technology Laboratory - I	2.00	2.00
23	ME8381	C 207	Computer Aided Machine Drawing	2.00	2.00

24	EE8361	C 208	Electrical Engineering Laboratory	2.33	2.17
25	HS8381	C 209	Interpersonal Skills / Listening & Speaking	2.00	2.00
26	MA8452	C 210	Statistics and Numerical Methods	2.00	2.00
27	ME8492	C 211	Kinematics of Machinery	2.26	2.26
28	ME8451	C 212	Manufacturing Technology – II	1.60	1.60
29	ME8491	C 213	Engineering Metallurgy	1.60	1.60
30	CE8395	C 214	Strength of Materials for Mechanical Engineers	1.60	1.60
31	ME8493	C 215	Thermal Engineering- I	2.40	2.40
32	ME8462	C 216	Manufacturing Technology Laboratory – II	1.60	1.86
33	CE8381	C 217	Strength of Materials and Fluid Mechanics and Machinery Laboratory	2.00	2.00
34	HS8461	C 218	Advanced Reading and Writing	2.00	2.00
35	ME8595	C 301	Thermal Engineering- II	3.00	2.50
36	ME8593	C 302	Design of Machine Elements	1.64	1.64
37	ME8501	C 303	Metrology and Measurements	1.86	1.86
38	ME8594	C 304	Dynamics of Machines	2.40	2.14
39	OAT551	C 305 (a)	Automotive Systems (Open Elective I)	2.40	2.40
	OMF551	C 305 (b)	Product Design and Development (Open Elective I)	0.80	1.60
	ORO551	C 305 (c)	Renewable Energy Sources (Open Elective I)	2.70	2.70
40	ME8511	C 306	Kinematics and Dynamics Laboratory	2.26	2.26
41	ME8512	C 307	Thermal Engineering Laboratory	3.00	3.00
42	ME8513	C 308	Metrology and Measurements Laboratory	3.00	3.00
43	ME8651	C 309	Design of Transmission Systems	2.00	2.00
44	ME8691	C 310	Computer Aided Design and Manufacturing	2.45	2.45
45	ME8693	C 311	Heat and Mass Transfer	2.90	2.90
46	ME8692	C 312	Finite Element Analysis	2.80	1.87
47	ME8694	C 313	Hydraulics and Pneumatics	1.69	1.69
48	ME8091	C 314 (a)	Automobile Engineering (Professional Elective - I)	2.60	2.60

	PR8592	C 314 (b)	Welding Technology (Professional Elective - I)	1.78	1.78
	GE8073	C 314 (c)	Fundamentals of Nano Science (Professional Elective - I)	2.40	2.26
49	ME8681	C 315	CAD / CAM Laboratory	1.82	1.82
50	ME8682	C 316	Design and Fabrication Project	3.00	3.00
51	HS8581	C 317	Professional Communication	2.00	2.00
52	ME8792	C 401	Power Plant Engineering	3.00	3.00
53	ME8793	C 402	Process Planning and Cost Estimation	1.83	2.00
54	ME8791	C 403	Mechatronics	1.50	1.50
55	OMF751	C 404 (a)	Lean Six Sigma (Open Elective - II)	2.00	2.00
	OML753	C 404 (b)	Selection of Materials (Open Elective - II)	1.91	1.91
	OML751	C 404 (c)	Testing of Materials (Open Elective - II)	2.90	2.90
	OAT751	C 404 (d)	Production of Automotive Components (Open Elective - II)	3.00	2.00
56	ME8073	C 405	Unconventional Machining Processes (Professional Elective – II)	2.00	2.00
57	ME8099	C 406	Robotics (Professional Elective – III)	2.00	2.00
58	ME8711	C 407	Simulation and Analysis Laboratory	2.67	2.33
59	ME8781	C 408	Mechatronics Laboratory	1.50	1.50
60	ME8712	C 409	Technical Seminar	3.00	2.00
61	MG8591	C 410	Principles of Management	2.00	2.00
62	IE8693	C 411 (a)	Production Planning and Control (Professional Elective– IV)	2.00	2.00
	MG8091	C 411 (b)	Entrepreneurship Development (Professional Elective– IV)	3.00	3.00
	GE8076	C 411 (c)	Professional Ethics in Engineering (Professional Elective– IV)	2.67	2.00
63	ME8811	C 412	Project Work	3.00	3.00
Attainment (Direct)				2.13	2.07
Attainment (Indirect)				1.71	2.41
80% of Attainment (Direct)				1.71	1.66

20% of Attainment (Indirect)	0.34	0.48
Total Attainment	2.05	2.14

DEPARTMENT OF MANAGEMENT STUDIES

SRI SAIRAM ENGINEERING COLLEGE

ATTAINMENT 2018-2020 BATCH

S.NO	Subject Code	Subject	CO Attainment						Average	Average POs for each Subject									PO Attainment (Normalized Value)									
			CO1	CO2	CO3	CO4	CO5	CO6		ge	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
1	BA5101	Principles of Management	2.5	2.3	1.8	1.89	2	1.5	2.0	2.5	2.67	2.5	2.6	2.2	2	1.6	1.3	1.67	1.7	1.8	1.7	1.7	1.5	1.3	1.1	0.9	1.1	
2	BA5102	Accounting for Management	2.4	2.56	2.4	2.44	2.22	2.44	2.4	2.83	2.33	2.5	2.5	2.33	2.16	2.33	2.66	2.16	2.3	1.9	2.0	2.0	1.9	1.7	1.9	2.1	1.7	
3	BA5103	Economic Analysis for	2.3	2.29	2.3	2.29	2.29	2.29	2.3	2.67	2.83	2.67	2.2	2.5	2.4	2.33	1	1	2.0	2.2	2.0	1.7	1.9	1.8	1.8	0.8	0.8	
4	BA5104	Legal Aspects of Business	2.3	2.44	2.3	2.33	2.44	3	2.5	3	3	2.83	2.5	2.83	3	3	3	2.5	2.5	2.5	2.3	2.1	2.3	2.5	2.5	2.5	2.1	
5	BA5105	Organizational Behaviour	2.4	2.66	2.7	2.44	2.66	2.66	2.6	2.3	2.83	2.83	2.67	2.33	2.83	2.67	2.3	2.17	2.0	2.4	2.4	2.3	2.0	2.4	2.3	2.0	1.9	
6	BA5106	Statistics for Management	1.7	1.67	1.4	1.78	1.78	1.67	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	
7	BA5107	Total Quality Management	2.1	2	2.3	2.1	2.6	2.9	2.3	3	2.2	1	1.8	2.2	2.3	0	2.7	2.7	2.3	1.7	0.8	1.4	1.7	1.8	0.0	2.1	2.1	
8	BA5111	Communication	2.7	2.56	2.4	2.63	2.86	2.29	2.6	3	2.66	2.66	2.33	2.66	2.6	2.4	2.25	2.5	2.6	2.3	2.3	2.0	2.3	2.2	2.1	1.9	2.1	
9	BA5201	Applied Operations Research	2	1.83	1.4	1.43	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	
10	BA5202	Business Research Methods	2.4	2.55	2.1	2.66	2.55	3	2.6	2.5	2.67	2.83	2.83	2.67	2.67	2.83	2.67	2.67	2.1	2.3	2.4	2.4	2.3	2.3	2.4	2.3	2.3	
11	BA5203	Financial Management	2.4	2.22	2.3	2.33	2.22	2.44	2.3	2.83	2.5	2.33	2.83	2.17	2.17	1.83	2.17	2.17	2.2	1.9	1.8	2.2	1.7	1.7	1.4	1.7	1.7	
12	BA5204	Human Resource Management	2.6	2.7	2.7	2.66	2.77	2.77	2.7	3	2.8	3	2.8	2.2	2.2	2.8	2.4	2.8	2.7	2.5	2.7	2.5	2.0	2.0	2.5	2.1	2.5	
13	BA5205	Information Management	2.4	2.33	2.3	2.33	2.44	2.67	2.4	3	3	2.17	2.17	2	2.5	2.5	2.5	2	2.4	2.4	1.8	1.8	1.6	2.0	2.0	2.0	1.6	
14	BA5206	Operations Management	2.8	2.29	2.3	2.6	2.25	2.5	2.4	2.5	2.67	2.33	2.25	2.2	2.67	2.67	2.2	2.2	2.0	2.2	1.9	1.8	1.8	2.2	2.2	1.8	1.8	
15	BA5207	Marketing Management	2.3	2.2	2.4	2.14	2.17	2.43	2.3	2.67	2.6	2.33	2.33	2.25	2	2.25	1	2.75	2.0	2.0	1.8	1.8	1.7	1.5	1.7	0.8	2.1	
16	BA5211	Data Analysis and Business Modelling	2.2	2.33	1.8	1.63	1.86	1.96	2.0	2.2	2.2	1.6	2	1.7	2.2	2	1.4	2	1.4	1.4	1.0	1.3	1.1	1.4	1.3	0.9	1.3	
17	BA5301	International Business	2.6	2.56	2.5	2.67	2.67	2.89	2.7	3	2.5	2.6	2.66	2.66	3	2.33	2.66	2.6	2.7	2.2	2.3	2.4	2.4	2.7	2.1	2.4	2.3	
18	BA5302	Strategic Management	2.3	2.56	2.3	2	1.89	1.56	2.1	2.33	1.83	2.17	2.17	2.17	2.17	2	2.17	2	1.6	1.3	1.5	1.5	1.5	1.5	1.4	1.5	1.4	
19	BA5311	Summer Training	3.0	3.0	3.0	3.0	3.0	3	3.0	3	3	3	3	3	3	3	3	3	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
20	BA5411	Project Work	3.0	3.0	3.0	3.0	3.0	3	3.0	3	3	3	3	3	3	3	3	3	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
21	BA5004	Integrated Marketing	1.9	1.63	1.5	1.63	1.63	2	1.7	2.2	1.8	2.3	1	3	2	0	1	2.3	1.3	1.0	1.3	0.6	1.7	1.1	0.0	0.6	1.3	
22	BA5005	Retail Marketing	2.6	2.29	2.7	2.33	2.6	3	2.6	3	2.2	3	2.5	3	2.4	1	3	3	2.6	1.9	2.6	2.2	2.6	2.1	0.9	2.6	2.6	
23	BA5006	Services Marketing	2.1	2.44	2.6	2.67	2.44	1.67	2.3	2.7	2.5	2.7	2.3	2.3	2.2	2.17	2	2.17	2.1	1.9	2.1	1.8	1.8	1.7	1.7	1.5	1.7	
24	BA5015	Industrial Relations and Labour Welfare	2.7	2.56	2.3	2.56	2.67	2.33	2.5	2.8	2.8	2.6	2.4	2	2	3	2.4	2.4	2.4	2.4	2.2	2.0	1.7	1.7	2.5	2.0	2.0	
25	BA5016	Labour Legislations	2.3	2.56	2.4	2.44	2.44	2.44	2.4	3	3	2.5	2.33	2.17	2.83	2.33	1.83	2	2.4	2.4	2.0	1.9	1.8	2.3	1.9	1.5	1.6	
26	BA5018	Organizational Theory, Design and Development	2.9	3	2.9	2.88	2.77	3	2.9	3	3	3	3	3	2.83	2.67	3	2.67	2.9	2.9	2.9	2.9	2.9	2.9	2.7	2.6	2.9	2.6
27	BA5008	Banking Financial Services Management	2.4	2.33	2.3	2.22	2.44	2.44	2.4	2.67	2.33	1.67	2.5	2.5	2.5	2.33	2.33	2.5	2.1	1.8	1.3	2.0	2.0	2.0	1.8	1.8	2.0	
28	BA5011	Merchant Banking and Financial Services	2.4	2.63	2.3	2.29	2.13	2.29	2.3	3	2.5	1	1.33	2.83	2.33	2.6	2.5	2.83	2.3	1.9	0.8	1.0	2.2	1.8	2.0	1.9	2.2	

29	BA5012	Security Analysis and Portfolio Management	2.8	2.63	2.4	2.78	3	2.38	2.7	3	2.5	2.5	2.75	2.75	2.5	2.6	2.8	2.67	2.7	2.2	2.2	2.4	2.4	2.2	2.3	2.5	2.4
30	BA5025	Logistics Management	1.3	2	1.6	1.5	1.4	2	1.6	2.8	2.5	-	1.8	2	2.3	-	2.3	2.8	1.5	1.4	-	1.0	1.1	1.3	-	1.3	1.5
31	BA5028	Project Management	2.1	1.78	1.9	2	2.22	2.22	2.0	2.83	2	2.25	2.33	1.67	1.83	2	1.83	1.33	1.9	1.4	1.5	1.6	1.1	1.2	1.4	1.2	0.9
32	BA5030	Supply Chain Management	2.6	2.33	2.3	2.44	2.33	2.44	2.4	2.33	2.5	2.5	2.33	2.66	2.5	1.66	2.66	2.5	1.9	2.0	2.0	1.9	2.1	2.0	1.3	2.1	2.0
33	BA5021	Data mining for Business Intelligence	2.8	2.85	2.9	2.63	2.99	2.74	2.8	3	2.6	3	2.8	3	2.8	2.6	2.8	3	2.8	2.4	2.8	2.6	2.8	2.6	2.4	2.6	2.8
34	BA5022	Enterprise Resource Planning	2.2	2	2.5	2.6	2.67	2.6	2.4	3	2.17	-	2.33	-	2.67	-	1.5	2.67	2.4	1.8	-	1.9	-	2.2	-	1.2	2.2
35	BA5024	E-Business Management	2.4	2.33	2.3	2.67	2.56	2.56	2.5	2.83	2.5	2	2.66	2.33	2.5	2.66	2.16	2.66	2.3	2.1	1.7	2.2	1.9	2.1	2.2	1.8	2.2
									TARGET	2.7	2.5	2.4	2.4	2.4	2.4	2.2	2.2	2.4	DIRECT ATTAINMENT								
																			2.2	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.9
																			INDIRECT ATTAINMENT								
																			2.14	1.94	1.96	1.96	2.09	1.93	1.88	2.03	2
																			80% DIRECT ATTAINMENT								
																			2.09	1.95	2.02	1.93	2.07	2.03	1.84	2.03	1.99
																			20% INDIRECT ATTAINMENT								
																			0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
																			TOTAL ATTAINMENT (80% DIRECT + 20% INDIRECT)								
																			2.5	2.3	2.2	2.3	2.5	2.4	2.2	2.4	2.4

