



SHRI GAJANAN SHIKSHAN SANSTHA'S
SHRI SANT GAJANAN MAHARAJ COLLEGE OF ENGINEERING
SHEGAON – 444203, DIST. BULDANA (MAHARASHTRA STATE), INDIA
“Recognized by A.I.C.T.E., New Delhi” Affiliated to Sant Gadge Baba Amravati University, Amravati
“Approved by the D.T.E., M.S. Mumbai”

Ph : +918669638081 / 82
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[Email:principal@ssgmce.ac.in](mailto:principal@ssgmce.ac.in), registrar@ssgmce.ac.in
Website- www.ssgmce.ac.in

2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

Sr. No.	Evidence Head
1	Mapping and attainment sheet



Principal



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Department of Electrical Engineering

CO-PO Mapping Matrix for BE Electrical Engineering (Electronics & Power)

Subject Code	Subject Title	CO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1A1	Maths-1	CO1	2	2	1	1	0	0	0	0	0	0	0	1
		CO2	2	2	1	1	0	0	0	0	0	0	0	1
		CO3	2	2	1	1	0	0	0	0	0	0	0	1
		CO4	2	2	1	0	0	0	0	0	0	0	0	1
		CO5	2	2	1	1	0	0	0	0	0	0	0	1
		CO6	2	2	1	0	0	0	0	0	0	0	0	1
1A2	Engg Phy	CO1	2	1	0	3	0	0	0	0	0	0	0	0
		CO2	2	1	2	2	0	1	0	0	0	0	0	0
		CO3	2	1	0	2	0	0	0	0	0	0	0	1
		CO4	2	0	1	1	0	0	0	0	0	0	0	0
		CO5	2	1	1	2	0	0	0	0	0	0	0	0
1A3	Com Prog	CO1	1	0	1	0	0	0	0	0	0	0	0	1
		CO2	1	1	0	0	1	0	0	0	0	0	0	1
		CO3	2	2	1	0	0	0	0	0	0	0	0	1
		CO4	2	1	1	0	0	0	0	0	0	0	0	1
		CO5	1	0	2	0	0	0	0	0	0	0	0	1
		CO6	1	1	2	0	0	0	0	0	0	0	0	1
1A4	Engg Mech	CO1	1	1	0	0	0	0	0	0	0	0	0	1
		CO2	1		1	0	0	0	0	0	0	0	0	0
		CO3	0	0	0	0	0	0	0	0	0	0	0	0
		CO4	0	1	1	0	0	0	0	0	0	0	0	0
		CO5	1	0	0	0	0	0	0	0	0	0	0	0
1A5	Workshop	CO1	1	1	1	1	1	0	1	1	1	0	1	0
		CO2	1	1	1	1	1	0	1	1	1	0	1	0
		CO3	0	0	0	0	1	0	0	0	1	0	0	1
		CO4	0	0	0	0	0	0	0	0	1	0	0	1



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1B1	Maths-II	CO1	2	2	1	1	0	0	0	0	0	0	0	1
		CO2	2	2	1	1	0	0	0	0	0	0	0	1
		CO3	2	2	1	0	0	0	0	0	0	0	0	1
		CO4	2	2	1	1	0	0	0	0	0	0	0	1
		CO5	2	2	1	1	0	0	0	0	0	0	0	1
		CO6	2	2	1	1	0	0	0	0	0	0	0	1
1B2	Chem	CO1	2	1	1	1	0	1	1	1	0	0	0	1
		CO2	2	1	1	1	0	1	1	1	0	0	1	1
		CO3	1	1	1	0	0	1	1	1	0	0	0	1
		CO4	1	1	1	1	0	1	1	1	0	0	0	1
		CO5	1	1	1	1	0	1	1	1	0	0	0	1
		CO6	1	1	1	1	0	1	1	1	0	0	0	1
1B3	BEE	CO1	3	3	2	2	2	0	0	3	3	3	1	1
		CO2	3	3	2	2	2	2	0	3	3	3	1	1
		CO3	3	3	2	2	2	0	0	3	3	3	1	1
		CO4	3	2	1	2	2	2	0	3	3	3	1	1
1B4	EG	CO1	1	0	0	0	0	0	0	0	0	1	0	0
		CO2	0	0	0	0	0	0	0	0	0	0	0	0
		CO3	1	1	1	0	0	0	0	0	0	2	0	1
		CO4	0	1	0	0	0	0	0	0	0	1	0	1
		CO5	0	0	1	0	0	0	0	0	0	0	0	0
3EP01	Maths III	CO1	2	1	1	0	0	0	0	0	0	1	0	1
		CO2	3	2	2	1	0	0	0	0	0	1	0	1
		CO3	2	1	1	1	0	0	0	0	0	1	0	1
		CO4	2	1	1	1	0	0	0	0	0	1	0	1
		CO5	2	1	0	0	0	0	0	0	0	1	0	1
		CO6	2	1	0	0	0	0	0	0	0	1	0	1
3EP02	ECA	CO1	3	3	0	2	2	0	0	0	0	1	0	2
		CO2	3	3	0	2	2	0	0	0	0	1	0	2



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		CO4	2	2	1	2	2	2	0	3	1	3	0	2
		CO5	3	2	1	2	2	2	0	3	1	3	0	2
4EP03	CS	CO1	3	3	1	2	3	0	0	0	1	3	0	3
		CO2	3	3	2	2	3	0	0	0	1	3	0	3
		CO3	3	2	3	3	3	2	0	0	1	3	0	3
		CO4	2	2	1	2	2	0	0	0	1	3	0	3
4EP04	NMOT	CO1	1	2	1	2	3	0	0	2	0	1	0	1
		CO2	2	2	1	2	3	0	0	2	0	1	0	1
		CO3	1	2	1	1	3	0	0	2	0	1	0	1
		CO4	2	2	2	1	3	0	1	2	0	1	1	1
		CO5	2	2	2	1	3	0	1	2	0	1	2	1
4EP05	ADC	CO1	2	2	1	1	0	0	0	0	0	0	0	1
		CO2	2	2	1	1	0	0	0	0	0	0	0	1
		CO3	2	2	2	1	0	0	0	0	0	0	0	1
		CO4	1	0	2	1	0	0	0	0	0	0	0	1
		CO5	3	2	3	2	2	0	0	0	0	0	0	2
4EP09	Ex T Lab	CO1	2	1	0	0	0	0	0	0	1	2	0	1
		CO2	3	3	3	1	3	0	1	0	3	3	3	2
		CO3	3	3	0	2	3	0	1	0	3	3	3	2
		CO4	3	3	0	2	3	0	0	0	3	3	0	2
		CO5	3	3	0	0	3	0	0	0	3	3	0	2
	EVS	CO1	1	1	0	0	0	3	3	2	2	1	0	2
		CO2	1	1	0	0	0	3	3	2	2	1	0	2
		CO3	1	1	0	0	0	3	3	2	2	1	0	2
		CO4	1	1	0	0	0	3	3	2	2	1	0	2
5EP01	PS - I	CO1	3	3	1	2	0	0	0	0	0	2	0	1
		CO2	3	3	0	0	0	0	0	0	0	2	0	1
		CO3	3	3	1	3	3	0	0	0	0	2	1	1



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		CO4	2	2	0	1	0	0	0	0	0	2	0	1
		CO5	3	2	1	1	1	2	1	0	0	2	1	2
5EP02	MPMC	CO1	2	2	0	0	2	0	0	0	0	3	1	1
		CO2	3	2	1	2	3	0	0	3	3	3	1	0
		CO3	3	2	1	2	3	0	0	0	2	3	1	0
		CO4	3	3	2	3	3	0	0	3	3	3	1	1
5EP03	EM - II	CO1	3	2	0	3	2	0	0	0	2	3	0	1
		CO2	3	3	0	3	2	0	0	0	2	3	0	1
		CO3	3	2	0	3	2	0	0	0	2	3	0	1
		CO4	3	2	0	3	2	0	0	0	2	3	0	1
		CO5	3	2	0	3	1	0	0	0	2	3	0	1
5EP04	SS	CO1	3	3	2	1	2	0	0	0	0	2	0	1
		CO2	3	3	2	3	2	0	0	0	0	2	0	1
		CO3	3	3	2	3	2	0	0	0	0	2	0	1
		CO4	3	3	2	1	2	0	0	0	0	2	0	1
5FEEO5	PSS	CO1	0	1	0	2	1	2	2	0	1	2	1	3
		CO2	0	1	0	2	1	2	2	0	1	2	0	3
		CO3	0	1	0	2	1	2	2	0	1	2	0	3
		CO4	0	1	0	2	1	2	2	0	1	2	0	3
5EP09	ICT Lab	CO1	0	0	0	0	0	0	0	0	2	2	0	3
		CO2	0	0	0	0	0	0	0	0	2	2	0	3
		CO3	0	0	0	0	0	0	0	0	2	2	0	3
		CO4	0	0	0	0	0	0	0	0	2	2	0	3
		CO5	0	0	0	0	0	0	0	0	0	2	0	3
6EP01	PE	CO1	3	3	3	3	2	0	0	2	2	3	0	1
		CO2	3	3	3	3	2	0	1	2	2	3	0	1
		CO3	3	3	3	3	2	0	1	2	2	3	0	1
		CO4	3	3	3	3	2	0	1	2	2	3	0	1



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		CO5	3	3	2	3	1	0	0	0	1	0	0	3
7EP02	DSP	CO1	3	3	1	3	1	0	0	0	0	1	0	1
		CO2	3	3	1	3	3	0	0	0	0	1	0	1
		CO3	3	2	0	2	2	0	0	0	0	2	0	1
		CO4	3	3	2	2	3	0	0	0	1	3	1	2
		CO5	3	2	1	1	3	0	0	0	0	1	0	1
		CO6	3	2	1	2	2	0	0	0	0	2	0	1
7EP04	PSOC	CO1	2	0	0	2	1	2	1	0	1	2	0	2
		CO2	3	2	2	2	3	2	2	2	1	1	2	2
		CO3	3	2	2	2	2	2	2	2	0	1	0	2
		CO4	3	2	2	2	1	2	2	0	0	1	0	2
		CO5	2	2	1	2	2	2	2	0	0	1	0	2
7EP05	AI	CO1	1	2	2	0	1	0	0	0	0	3	0	3
		CO2	3	2	2	2	3	0	1	3	3	3	0	3
		CO3	3	2	2	2	3	0	3	3	3	3	0	3
		CO4	3	2	2	2	3	0	1	3	0	3	0	3
7EP05	EDC	CO1	3	2	1	2	3	0	0	0	0	0	0	2
		CO2	3	3	1	2	3	3	2	0	3	3	0	2
		CO3	3	3	2	2	3	0	2	0	3	3	0	2
		CO4	3	3	2	2	3	0	2	0	3	3	0	2
		CO5	3	3	2	2	3	0	2	0	3	3	0	2
8EP01	PSP	CO1	3	0	0	0	1	0	0	0	2	2	1	0
		CO2	3	1	2	2	1	2	1	0	2	2	1	0
		CO3	3	1	1	2	1	0	1	0	2	2	1	0
		CO4	3	0	0	0	1	2	1	0	2	2	1	0
8EP02	CMPSA	CO1	3	2	1	2	3	0	0	0	0	1	0	3
		CO2	3	3	2	2	3	0	0	0	0	1	0	3
		CO3	3	3	1	2	3	0	0	0	0	1	0	3



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		CO4	3	3	2	3	3	3	2	3	3	3	0	3
		CO5	3	3	2	3	3	3	2	3	3	3	0	3
		CO6	3	3	2	3	3	3	2	3	3	3	0	3
8EP03	HVE	CO1	3	2	0	3	2	2	1	0	0	2	0	2
		CO2	3	1	2	2	2	2	3	2	0	1	2	3
		CO3	3	2	2	2	2	2	1	0	0	2	0	2
		CO4	3	2	2	2	3	2	3	2	0	1	1	3
		CO5	3	2	2	3	3	3	3	2	1	2	1	3
8EP04	PQ	CO1	2	1	0	0	0	0	3	0	0	3	0	1
		CO2	2	2	1	2	0	0	3	0	0	3	1	0
		CO3	2	3	2	2	3	0	3	0	3	3	1	0
		CO4	2	3	2	3	3	0	3	0	3	3	1	1
8EP05	Project & Seminar	CO	3	3	3	3	3	3	3	3	3	3	3	3
	Average Mapping		2.27	1.86	1.16	1.44	1.37	0.55	0.55	0.68	0.95	1.67	0.30	1.46

P. R. Bharambe
 Coordinator-Accreditation

Dr. S. R. Paraskar
 Head
 Electrical Engg Dept.

Shri Sant Gajanan Maharaj College of Engineering, Shegaon

Department of Electrical Engineering

2021-22

**CO (Course Outcome) attainment of all courses
in BE Electrical Engineering (Electronics & Power)**

Subject Code	Subject Title	CO-1	CO-2	CO-3	CO-4	CO-5	CO-6	Overall CO Attainment
1A1	MATH-I	0.8	0.8	1.2	1.2	1	1	1
1A2	PHYSICS	2.4	2.4	2.6	2.6	3		2.6
1A3	ENGG. MECHANICS	2.6	2.6	3	3	3	3	2.87
1A4	ENGG. GRAPHICS							
1A5	Workshop Practice	0.2	0.2	0.2	0.2	0.2	0.2	0.20
1B1	MATH-II	0	0	0	0	0	0	0.00
1B2	CHEMISTRY	0	0	0.2	0	0	0.2	0.07
1B3	ELECT ENGG	0.2	0	0.6	0.6			0.35
1B4	COMP. PROG	1.6	1.6	1.6	1.6	1.6	1.6	1.60
1B5	Communication Skill	2.6	2.6	2.6	2.6	2.6	2.6	2.60

3EP01	MATHS-III	0.6	0.6	0.6	0.6	0.6	0.6	0.60
3EP02	ECA	0.6	0.6	0.6	0.6	0.2		0.52
3EP03	EM - I	2.4	2.4	2.4	2.4	2.4		2.40
3EP04	ERG	3	3	3	3			3.00
3EP05	EDC	1.2	1.2	1.2	1.2	1.4		1.24
4EP01	EMF	0.4	0.4	0.4	0.4			0.40
4EP02	EMI	0.8	1.4	1.4	1.4			1.25
4EP03	CS	0.8	2.6	1	1			1.35
4EP04	NMOT	0.8	1.4	1.4	1	1.4		1.20
4EP04	ADC							
5EP01	PS-I	3	3	3	3	3		3.00
5EP02	MPMC	0.6	0.6	0.4	1.2			0.70
5EP03	EM - II	3.00	3.00	3.00	3.00	3.00		3.00
5EP04	SS	3	3	3	3			3.00
6EP01	PE	0.80	0.80	1.00	1.20			0.95
6EP02	EEDU	2.8	2.8	2.6	2.6	1.6	1.6	2.33
6EP03	CAEMD	2	1.8	1.8	2	2.2	3	2.13
6EP04	ACS	2.2	2.2	1.6	2			2.00

7EP01	CS-II	2.6	2.6	2.8	3			2.75
7EP02	PSOC	3	2.8	2.6	2.6			2.75
7EP03	EP-II	1.4	1.4	1.2	1.2	0.8		1.20
7EP04	SGP	1.4	1	1	1.4	1.2		1.20
7EP05	AI	3	3	3	3			3.00
7EP05	CMPSA	1	1	1.4	1.4	1	1	1.13
8EP01	PSS	1.8	1.6	1.8	1.8			1.75
8EP02	HVE	3	2.8	2.8	2.6	2.6		2.76
8EP03	DSP	2.2	1.8	2	1.8			1.95
8EP04	PQ	0.4	0.4	0	0			0.20
8EP04	EDC	2.8	2.8	2.8	3	3		2.88

Bharambe

P. R. Bharambe
Coordinator

Dr. S. R. Paraskar

Dr. S. R. Paraskar
Head
Electrical Engg Department

Shri Sant Gajanan Maharaj College of Engineering, Shegaon

Department of Electrical Engineering

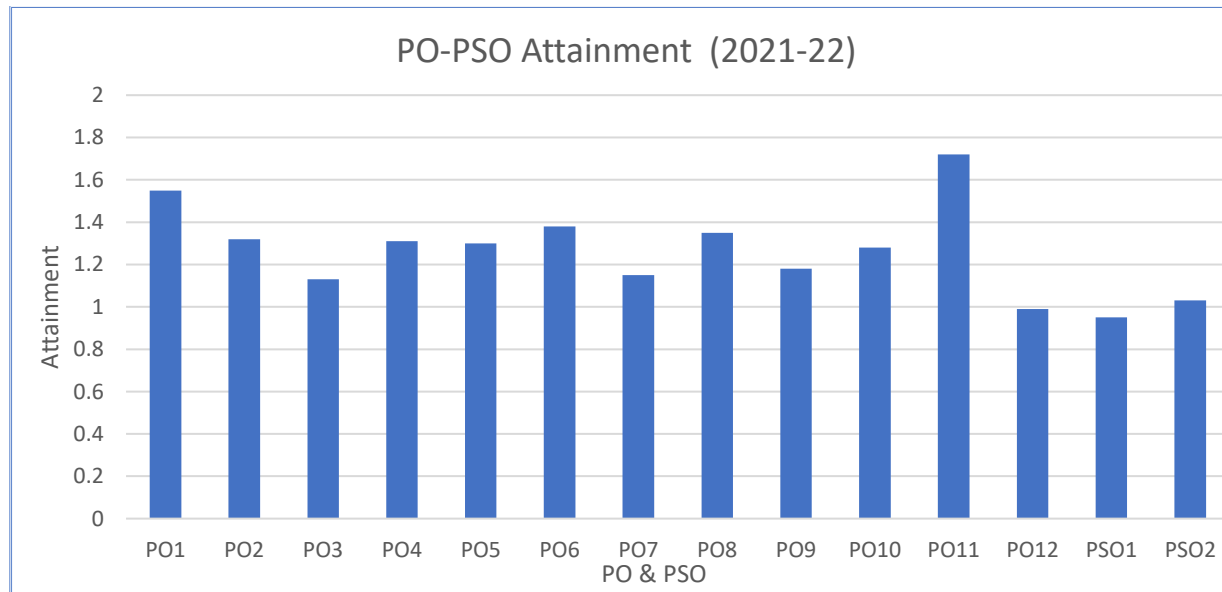
2021-22

**PO & PSO attainment Report
in BE Electrical Engineering (Electronics & Power)**

Subject		PO's												PSO	
Subject code	Subject Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1A1	MATH-I	0.66	0.33	0.33	0.33								0.33	0.33	0.33
1A2	PHYSICS	2.5	2.5	1.67	1.67	1.67					1.67		0.83	0.83	1.25
1A3	EM	1.91	2.08	1	0.96						1.91				1
1A4	EG														
1A5	WP	0.07	0.07							0.07	0.07		0.07		
1B1	MATH-II	0	0	0	0								0	0	0
1B2	CHEMISTRY	0.02	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02
1B3	BEE	0.23	0.2	0.2		0.2	0.2		0.2		0.2		0.4	0.13	0.2
1B4	CP	1.24	1.07	0.89	0.85	0.85						0.53	0.8		0.53
1B5	Co Skill	0.87		0.87	0.87	0.87	2.17	0.87	1.73	2.02	2.17	1.16	1.44		
3EP01	MATHS-III	0.2	0.2	0.2	0.2	0.3	0.2			0.2	0.2	0.2	0.2	0.2	0.2
3EP02	ECA	0.52	0.52	0.24	0.4	0.4					0.2		0.4	0.2	0.3
3EP03	EM - I	2.4	1.92	1.28	1.6	1.44				1.76	1.44	8	0.96	1.92	2.4
3EP04	ERG	3	2.5	2.5	3	1					2		1	1	1.25
3EP05	EDC	0.67	0.67	0.33		0.67					0.33		0.67	0.41	0.41

4EP01	EMF	0.4	0.33	0.33	0.4	0.13					0.27		0.13	0.13	0.13
4EP02	EMI	1.13	0.83	0.42	0.83	0.83	0.83	0.42	1.25	0.42	1.25	0.42	0.83	0.42	0.48
4EP03	CS	1.27	1.18	0.83	1.13	1.42	0.67			0.51	1.53		1.53	0.45	0.51
4EP04	NMOT	0.65	0.65	1.15	1.15	1.02	1.15	0.83	1.13	0.85	1.15	1.2	1.15	0.38	0.42
4EP05	ADC														
5EP01	PS-I	2.80	1.00	2.50	2.00	2.00	2.00	1.00		2.00	1.80	1.00		1.00	1.80
5EP02	MPMC	0.65	0.57	0.38	0.62	0.65			0.90	0.69	0.70		0.30	0.47	0.53
5EP03	EM - II	2.80	2.67		2.00	1.00				1.00	1.00		1.00		
5EP04	SS	3.00	3.00	2.00	2.00	2.00					2.00		1.00	1	1.50
	OE														
6EP01	PE	0.95	0.95	0.95	0.95	0.63		0.33	0.63	0.63	0.95		0.32	0.00	0.50
6EP02	EEDU	2.33	1.56	0.87	1.56	2.02	2.28	1.29	2.09	2.10	2.33		2.33	1.56	1.56
6EP03	CAEMD	1.96	1.43		1.96	1.16				1.31	1.96		0.65	2.13	0.67
6EP04	ACS	2	1.83	1.7	1.83	1.5					0.67		0.67	0.67	0.98
	OE														
7EP01	CS-II	2.75	2.50	2.27	2.50	2.08					0.92		0.92	1.35	2.75
7EP02	PSOC	2.53	2.53	1.83	1.62	2.75		0.93	1.62	0.92	2.00	1.63	0.92	1.83	1.58
7EP03	EP-II	1.20	1.03	0.45	1.20	0.40		0.43		0.40	1.30		1.20	0.87	0.63
7EP04	SGP	1.20	1.08	1.00	1.08	0.92					0.40		0.40	0.6	1.20
7EP05	AI	2.50	2.00	2.00	2.00	2.50			3.00	3.00	3.00		3.00	2.00	2.00
7EP05	CMPSA	1.13	0.89	0.55	0.76	0.76			0.38				0.76	1.13	0.33
7EP06	Seminar	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
8EP01	PSS	1.75	1.33	1.50	1.00	1.75		1.00	1.00	1.00	1.00		1.33	0.87	
8EP02	HVE	2.76	1.65	1.80	2.21	2.19	2.01	1.99	1.78	0.87	1.48	1.20	2.37	1.84	1.11

8EP03	DSP	1.30	1.68	0.97	1.28	2.30	0.65		0.98	1.50	1.50		1.63	1.30	1.12
8EP04	PQ	0.13	0.13	0.09	0.09	0.13			0.20	0.20	0.20		0.20	0.20	0.20
8EP04	EDC	2.88	1.36	1.43	0.98	2.12	1.20	0.96		0.96		0.96	0.96		2.32
8EP05	Project	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Overall Attainment		1.55	1.32	1.13	1.31	1.30	1.38	1.15	1.35	1.18	1.28	1.72	0.99	0.95	1.03



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