

Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
(An Autonomous Institution affiliated to Kashiwarwar Technical Maharastra University)

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NAAC Accredited with A++

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DEPARTMENT OF ELECTRICAL ENGINEERING

Our Vision

To emerge as a leading center of learning to groom aspiring electrical engineers into successful professionals by providing contemporary education and intellectual rigor.

Our Mission

Attract top talent and mould them with right scholarship through quality education, innovation and research in an inclusive environment.

SESSION 2023-24

Summary Sheet Overall Attainment

	PO1		PO2			PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2	
	A	T	A	T		A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T	A	T
2023-24	1.82	2.70	1.63		2.40	1.48	2.31	1.35	2.08	1.40	2.02	1.44	1.95	1.53	2.07	1.59	1.98	1.52	2.06	1.41	1.93	1.39	2.04	1.58	2.23	1.48	2.20	1.42	2.09
	67.49		67.61			64.23		64.97		69.11		73.99		73.88		80.13		74.08		73.21		68.08		71.01		67.35		68.28	

Direct Attainment

S.N.	Sem	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	I	23EL1101	Basic Electrical and Electronics Engineering	1.21	1.21	1.53											
2	I	23EL1105	Lab: Electrical and Electronics Workshop	2.43	0.81	0.81							0.81		1.89		
3	I	23EL1103, 23EL1104	Fundamentals of Electrical Engineering (TH +PR)	2.02	0.67	0.67	0.67	0.67									
4	III	22EL301	Integral Transforms and Partial differential Equations	0.45	0.45	0.47							0.23		0.23		
5	III	22EL302	Electrical Energy Generation System	0.93	0.46	1.07	0.91	1.04	0.46	1.00					0.46	0.46	
6	III	22EL303	Lab: Electrical Engineering Workshop	2.09	0.70	1.74					1.39		1.39	0.70	0.70	0.70	
7	III	22EL304	Network Analysis	1.00	0.33	0.33	0.33	0.33			1.00	1.00	0.33		0.33	1.00	0.74
8	III	22EL305	Lab: Computer Programming	2.21	2.21		2.21	2.21			2.21					2.21	
9	III	22EL306, 22EL307	Electrical Machines (TH +PR)	1.45	1.45	1.45	0.93	0.93				1.04	1.04		1.04	1.10	1.65
10	III	22EL308, 22EL309	Electrical Measurement & Instrumentation (TH +PR)	1.41	1.30	0.81	0.89	0.92	0.59	0.45	0.56	0.46		0.46	0.81	0.78	0.78
11	III	22EL310	Environmental Sustainability,Pollution and Management	1.19					1.19	1.19	1.19	1.19	1.19		1.19		
12	IV	22EL401	Signals and System	1.15	1.56	0.61	0.48								1.04		0.47
13	IV	22EL402	Fundamentals of Management and Economics						1.00	1.00	1.58	1.00	1.17	1.06	0.58		
14	IV	22EL403, 22EL404	Electrical Machines in Power System (TH +PR)	1.44	1.44	1.49	1.32	1.08							1.20	1.80	
15	IV	22EL405	Fundamentals of Power System	1.01	0.72	0.67	0.89	0.34	0.57	0.00	0.57	0.00	0.57	0.00	1.72	1.72	1.07
16	IV	22EL406, 22EL407	Embedded Systems (TH +PR)	2.46	2.46	1.64	1.64	1.42	1.65	0.83	0.82	1.64	0.82		2.46	0.82	1.65
17	IV	22EL408, 22EL409	Fundamentals of Electrical Drives (TH +PR)	1.74	1.80	2.10	1.00	0.73	1.76	1.76		0.69		1.03	1.66	0.58	1.17
18	IV	22EL410	Lab: Renewable Energy Sources	1.94	0.97	0.97	0.97		0.97	2.92		2.92			0.97	0.97	
19	V	GE2312	Fundamental of Economics	1.36						1.36				1.36	2.00		
20	V	EL2301, EL2302	Power Electronics (TH +PR)	0.98	0.56	0.56	0.56								0.65	0.81	0.36
21	V	EL2303	Fundamentals of Power System	0.81	0.55	0.54	0.71	0.27	0.27		0.27		0.27		0.81	0.81	0.37
22	V	EL2304, EL2305	Electrical Drives (TH +PR)	1.88	1.87	1.69	1.06	1.13	2.06	2.06		0.74		1.10	1.76	0.63	1.31
23	VI	GE-2311	Fundamental of Management	1.32						1.32				1.32	1.14		
24	VI	EL-2351	Control System	1.63	1.63	0.85	1.09	1.50	0.62			1.09	0.54		0.85	1.09	1.27
25	VI	EL-2353	Power System Analysis	0.84	0.73	0.56	0.56	0.28								0.84	0.56
26	VI	EL-2354	Lab: Simulation of Power Electronics & Power System	2.76	1.84	0.92	0.92	2.76								0.92	0.92
27	VI	EL-2355	Lab:Substation Design	2.78	2.32	2.55	1.39		1.16	0.93	0.93	0.93	2.32		1.85	1.85	0.93
28	VI	EL-2361	PE-I: Advanced Power Electronics	0.49	0.26	0.26	0.16	0.15							0.16	0.19	0.15
29	VI	EL-2364	PE-I: Electric Vehicles	1.54	1.54	1.54	1.13	0.51	1.10						1.03	1.16	1.18
30	VI	EL-2369	PE-I :- Grid Integration of Renewable Energy	2.50	0.80	1.70	1.70	0.80	0.00		0.80		0.00		0.80	0.90	0.80
31	VII	EL2401, EL2402	Switchgear & Protection (TH +PR)	1.19	1.48	0.93	0.49		0.62	0.63	0.84	1.21	0.62	0.49	0.60	1.21	0.84
32	VII	EL2403, EL2404	High Voltage Engineering (TH +PR)	1.00	1.00	0.75	0.58						0.33	0.58	0.67	0.67	
33	VII	[EL-2411]	PE II :- Fundamentals of Power Quality	0.70	0.36	0.36	0.36									0.70	0.48
34	VII	[EL-2412]	PE II :- Electrical Installation Design	2.42	2.42	2.42	1.62	1.62	0.81	2.42				1.62	2.42	1.62	
35	VII	[EL-2413]	PE II :- Electrical Machine Design	1.59	1.06	0.86	0.86	0.53		0.53	0.53	0.53	0.53		0.53	0.98	
36	VII	[EL-2421]	PE II :- Power System Operation and Control	2.53	1.51	1.51									2.73	1.82	
37	VII	[EL-2428]	PE II :- Sensors and Actuators	0.96	0.46	0.56	0.46	0.46				0.46		0.46	0.46	0.46	0.96
38	VII	[EL-2429]	PE II :- Micro Grid	0.97	1.94						1.94	1.29	1.29		1.29		
39	VII	[EL-2422]	PE III :- FACTS Devices	0.77	0.77	0.77	0.56	0.26	0.48						0.51	0.59	0.48
40	VII	[EL-2423]	PE III :- Electrical Energy Management and Audit	1.52	2.13	1.26			0.52	0.77	1.09	1.58	0.78	0.47	0.79	1.58	1.22
41	VII	[EL-2424]	PE III :- Advance Control System	2.00	1.00	1.00	1.00	1.00			1.00				1.00	1.00	1.00
42	VII	[EL-2425]	PE III :- Artificial Intelligence Based System	1.25	0.83	0.42	0.42	0.42								0.42	0.42
43	VII	[EL-2426]	PE III :- Converters and Configurations of Renewable Energy Systems	1.79	1.68	1.19	1.19	0.52		0.60				0.60	0.60	1.79	1.19
44	VII	[EL-2427]	PE III :- Distributed Generation in Power System	0.86	0.67	0.51	0.57	0.76	0.00	0.39	0.38	0.38		0.38	0.38	0.38	0.38
45	VII	[EL-2431]	PE IV :- Advanced Electrical Drives	1.57	1.57	1.57	1.57	1.04				0.87		1.04	1.57	1.04	1.57
46	VII	[EL-2432]	PE IV :- Fundamentals of Smart Grid	1.16	1.24	1.44	1.10	0.98		1.27	1.27			1.09		1.22	
47	VII	[EL-2433]	PE IV :- Computer Methods in Power System	0.50	0.40	0.60				0.30		0.40		0.40	0.40	0.70	0.40
48	VII	[EL-2434]	PE IV :- EHVAC-HVDC Transmission	1.65	1.34	1.62	1.02	0.90	0.60	0.60	0.60	0.60	0.60	1.02	1.20	1.20	
49	VII	[EL-2436]	PE IV :- Project Planning	1.53	1.49	1.89	1.15	0.55	1.63						1.10	1.34	1.12
50	VII	[EL-2437]	PE IV :- Industrial Safety	2.03	2.69	2.83	1.54	2.49	2.41						2.49	2.94	2.33

51	VII	EL2409	Mini Project	3.00	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.69
52	VII	EL2410	Campus Recruitmet Training	0.79	1.58					0.79	1.58	1.58			1.18	
53	VIII	EL2451	Major Project	3.00	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
54	VIII	EL2452	Extra Curricular Activity Evaluation					2.00		3.00	3.00	3.00	3.00	3.00		
Direct Attainment (Average)				1.53	1.30	1.22	1.04	1.04	1.12	1.21	1.23	1.21	1.09	1.08	1.24	1.13
Direct Maximum Attainable Value from Program Articulation Matrix (PAM)				2.62	2.26	2.14	1.85	1.78	1.69	1.84	1.72	1.82	1.66	1.79	2.04	2.00
% Direct Attainment				58.55	57.76	57.01	56.33	58.19	66.39	65.81	71.48	66.21	65.51	60.18	60.58	55.47

Indirect Attainment																
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2		
Survey																
Alumni Feedback	94.83	96.55	94.83	93.10	100.00	89.66	94.83	100.00	93.10	96.55	98.28	100.00				
Parent Feedback	100.00	92.31	76.92	76.92	100.00	92.31	100.00	100.00	92.31	76.92	84.62	100.00	92.31	100.00		
Course Closure	100.00	100.00	87.50	75.00	80.00	82.50	100.00	100.00	87.50	87.50	85.00	97.50	100.00			
Employer Feedback	100.00	100.00	80.00	100.00	100.00	100.00	80.00	100.00	100.00	100.00	80.00	100.00				
Indirect Attainment in %	98.71	97.22	84.81	86.26	95.00	91.12	93.71	100.00	93.23	90.24	86.98	99.38	96.15	100.00		

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2		
Survey																
Alumni Feedback	2.84	2.90	2.84	2.79	3.00	2.69	2.84	3.00	2.79	2.90	2.95	3.00				
Parent Feedback	3.00	2.77	2.31	2.31	3.00	2.77	3.00	3.00	2.77	2.31	2.54	3.00	2.77	3.00		
Course Closure	3.00	3.00	2.63	2.25	2.40	2.48	3.00	3.00	2.63	2.63	2.55	2.93	3.00			
Employer Feedback	3.00	3.00	2.40	3.00	3.00	3.00	2.40	3.00	3.00	3.00	2.40	3.00				
Indirect Attainment in scale of 3	2.96	2.92	2.54	2.59	2.85	2.73	2.81	3.00	2.80	2.71	2.61	2.98	2.88	3.00		
Indirect Maximum Attainable Value from PAM	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		
% Indirect Attainment	98.71	97.22	84.81	86.26	95.00	91.12	93.71	100.00	93.23	90.24	86.98	99.38	96.15	100.00		

Direct Maximum Attainable Value from PAM	2.62	2.26	2.14	1.85	1.78	1.69	1.84	1.72	1.82	1.66	1.79	2.04	2.00	1.86		
Indirect Maximum Attainable Value from PAM	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		
80% of Direct Maximum Attainable Value from PAM	2.10	1.80	1.71	1.48	1.42	1.35	1.47	1.38	1.46	1.33	1.44	1.63	1.60	1.49		
20% of Indirect Maximum Attainable Value from PAM	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60		
Overall Maximum Attainable Value from PAM (Target Level) NBA Criteria 7	2.70	2.40	2.31	2.08	2.02	1.95	2.07	1.98	2.06	1.93	2.04	2.23	2.20	2.09		

Overall Attainment																
PO'S	1	2	3	4	5	6	7	8	9	10	11	12	PSO1	PSO2		
Direct Attainment on scale 3	1.53	1.30	1.22	1.04	1.04	1.12	1.21	1.23	1.21	1.09	1.08	1.24	1.13	1.03		
Indirect Attainment on scale 3	2.96	2.92	2.54	2.59	2.85	2.73	2.81	3.00	2.80	2.71	2.61	2.98	2.88	3.00		
PO'S	1	2	3	4	5	6	7	8	9	10	11	12	PSO1	PSO2		
80% of Direct Attainment	1.23	1.04	0.97	0.83	0.83	0.90	0.97	0.99	0.97	0.87	0.86	0.99	0.90	0.82		
20% of Indirect Attainment	0.59	0.58	0.51	0.52	0.57	0.55	0.56	0.60	0.56	0.54	0.52	0.60	0.58	0.60		
Overall Attainment Level (NBA Criteria 7)	1.82	1.63	1.48	1.35	1.40	1.44	1.53	1.59	1.52	1.41	1.39	1.58	1.48	1.42		
Overall Attainment Level in % (NBA Criteria 7)	67.49	67.61	64.23	64.97	69.11	73.99	73.88	80.13	74.08	73.21	68.08	71.01	67.35	68.28		