

**Annasaheb Dange College of Engineering and Technology, Ashta**

**Department of Electrical Engineering**

**ACADEMIC YEAR 2017-18 to 2020-21**

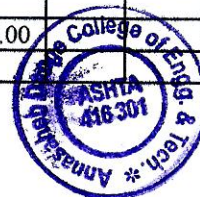
**CO - PO Mapping**

Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	By
0BSBS101	Applied Physics	2.00	2.00													
0BSBS102	Applied Maths-I	3.00	1.00													
0BSES103	Basic Electrical	2.00	2.00													
0BSES104	Basic Civil	2.00	2.00													
0BSES105	Engineering Graphics	3.00	2.00													
0BSHS106	Professional Communication								1.00		2.00					
0BSBS107	Applied Maths-I Tut	3.00	1.00													
0BSBS108	Applied Chemistry	2.00	2.00													
0BSES109	Basic Electronics Engg.	2.00	1.00	1.00												
0BSES110	Engineering Mechanics	3.00	2.00													
0BSES111	Basic Mechanical Engg.	2.00	1.00													
0BSES112	Computer Programming	2.00	2.00													
0BSBS113	Applied Maths II	3.00	1.00													
0BSBS114	Applied Maths II Tut	2.00	2.00													
0BSES151	Workshop Practice	3.00	2.00													
0BSBS152	Applied Physics Lab	2.00	1.00			1.00			1.00	1.00	1.00					
0BSES153	Basic Electrical	2.00	1.00							2.00	2.00		2.00			
0BSES154	Basic Civil lab	2.00	2.00			2.00	2.00		2.00		2.00					
0BSES155	Engineering Graphics	2.00	2.00						1.00		2.00					
0BSHS156	Professional Communication					2.00			2.00	2.00	3.00					
0BSES157	Basic Electronics Lab	2.00	1.00	1.00					2.00	1.00	2.00					
0BSBS158	Applied Chemistry	2.00	1.00				1.00	1.00	1.00	1.00						
0BSES159	Engineering Mechanics	3.00	2.00						2.00		2.00					
0BSES160	Basic Mechanical Engg.	2.00	1.00						1.00		1.00		1.00			
0BSES161	Computer Programming	2.00	2.00		3.00		2.00		2.00				2.00			
0EEBS201	Applied Mathematics -III (A)	3.00	1.00													NDS
0EEBS201	Applied Mathematics -III (B)	3.00	1.00													NDS
0EEPC202	Electrical Circuits & Networks (A)	3.00	2.00													PMK
0EEPC202	Electrical Circuits & Networks (B)	3.00	2.00													PMK
0EEPC203	Electrical Engineering Materials (A)	3.00	2.00													SKS
0EEPC203	Electrical Engineering Materials (B)	3.00	2.00													SKS
0EEPC204	Analog Electronics (A)	2.00	2.00	1.00												RBM
0EEPC204	Analog Electronics (B)	2.00	2.00	1.00												VSP
0EEPC205	Electrical Measurements (A)	2.00	2.00													YAM
0EEPC205	Electrical Measurements (B)	2.00	2.00													YAM
0EEPC251	Electrical Circuits & Networks Laboratory (A)	2.00	2.00	1.00	1.00	2.00			2.00		2.00				1.00	PMK
0EEPC251	Electrical Circuits & Networks Laboratory (B)	2.00	2.00	1.00	1.00	2.00			2.00		2.00				1.00	SSP





0EEPC252	Analog Electronics Laboratory (A)	3.00	2.00	1.00	1.00	3.00			2.00	1.00	2.00				2.00	RBM
0EEPC252	Analog Electronics Laboratory (B)	3.00	2.00	1.00	1.00	3.00			2.00	1.00	2.00				2.00	VSP
0EEPC253	Electrical Measurements Laboratory (A)	2.00	2.00						2.00	2.00	2.00			1.00		YAM
0EEPC253	Electrical Measurements Laboratory (B)	2.00	2.00						2.00	2.00	2.00			1.00		YAM/NMJ
0EEES254	Programming in C++ (A)	3.00	2.00	1.00	1.00	1.00										SSK
0EEES254	Programming in C++ (B)	3.00	2.00	1.00	1.00	1.00										SSK
0EEES207	Signals & Systems: (A)	3.00	2.00													BPK
0EEES207	Signals & Systems: (B)	3.00	2.00													ABJ
0EEPC208	Generation, Transmission & Distribution (A)	3.00	2.00													SVP/SSK
0EEPC208	Generation, Transmission & Distribution (B)	3.00	2.00													YAM
0EEPC209	DC Machines & Transformers (A)	3.00												2.00	2.00	NMJ
0EEPC209	DC Machines & Transformers (B)	3.00												2.00	2.00	NMJ/PMK
0EEES210	Digital Electronics (A)	2.00	1.00	1.00												VSP/PDG
0EEES210	Digital Electronics (B)	2.00	1.00	1.00												VSP
0EEPC211	Instrumentation & Communication (A)	2.00	2.00	1.00												SDP1
0EEPC211	Instrumentation & Communication (B)	2.00	2.00	1.00												SSK/SVP
0EEAC212	Professional Skills-I (A)	2.00	2.00													SUB
0EEAC212	Professional Skills-I (B)	2.00	2.00													SUB
0EEPC255	DC Machines & Transformers Laboratory (A)	2.00				2.00			2.00		2.00			2.00	2.00	NMJ
0EEPC255	DC Machines & Transformers Laboratory (B)	2.00				2.00			2.00		2.00			2.00	2.00	PMK/NMJ
0EEES256	Digital Electronics Laboratory (A)	3.00	3.00	1.00		3.00			3.00	2.00	2.00			1.00		PDG/VSP
0EEES256	Digital Electronics Laboratory (B)	3.00	3.00	1.00		3.00			3.00	2.00	2.00			1.00		VSP
0EEPC257	Instrumentation & Communication Laboratory (A)	3.00	3.00				1.00		3.00	3.00	1.00		1.00			SDP1
0EEPC257	Instrumentation & Communication Laboratory (B)	3.00	3.00				1.00		3.00	3.00	1.00		1.00			SVP/SSK
0EEPC258	Software Tools for Electrical Engineering (A)	2.00	2.00			2.00				2.00	2.00					JMK/BPK
0EEPC258	Software Tools for Electrical Engineering (B)	2.00	2.00			2.00				2.00	2.00					ABJ
0EEPC301	Feedback Control Systems (A)	3.00	1.00													SDP1
0EEPC354	Feedback Control Systems Laboratory (A)	3.00	3.00	2.00	2.00	2.00			2.00		2.00				2.00	SDP1
0EEPC301	Feedback Control Systems (B)	3.00	1.00													BPK
0EEPC354	Feedback Control Systems Laboratory (B)	3.00	3.00	2.00	2.00	2.00			2.00		2.00				2.00	BPK
0EEPC302	Power System Analysis (A)	3.00	1.00													MCS
0EEPC353	Power System Analysis Laboratory (A)	3.00	2.00			2.00			2.00		2.00			1.00	1.00	MCS
0EEPC302	Power System Analysis (B)	3.00	1.00													ASG
0EEPC353	Power System Analysis Laboratory (B)	3.00	2.00			2.00			2.00		2.00			1.00	1.00	ASG
0EEPC303	AC Machines (A)	3.00	1.00											2.00		NMJ
0EEPC351	AC Machines Laboratory (A)	3.00				2.00			2.00		2.00			2.00		NMJ
0EEPC303	AC Machines (B)	3.00	1.00											2.00		SSP
0EEPC351	AC Machines Laboratory (B)	3.00				2.00			2.00		2.00			2.00		SSP
0EEPC304	Power Electronics (A)	2.00	2.00													VBP
0EEPC352	Power Electronics Laboratory (A)	3.00		2.00		2.00				2.00				1.00	1.00	VBP
0EEPC304	Power Electronics (B)	3.00	2.00													SVP
0EEPC352	Power Electronics Laboratory (B)	3.00		2.00		2.00				2.00				1.00	1.00	SVP
0EEPC305	Electromagnetic Engineering (A)	3.00	2.00										1.00			GS





0EEPC305	Electromagnetic Engineering (B)	3.00	2.00									1.00			GS	
0EEAC306	Professional Skills-II (A)							3.00	3.00	3.00					PSM	
0EEAC306	Professional Skills-II (B)							3.00	3.00	3.00					PSM	
0EEPC307	Control System Design (A)	3.00	3.00									1.00			SDPI	
0EEPC307	Control System Design (B)	3.00	2.00									1.00			BPK	
0EEPC308	Power System Operations & Control (A)	3.00	2.00	1.00									2.00	1.00	SSJ	
0EEPC358	Power System Operations & Control Laboratory (A)	3.00	2.00			2.00			2.00		2.00		1.00		SSJ	
0EEPC308	Power System Operations & Control (B)	3.00	2.00	1.00									2.00	1.00	SUB	
0EEPC358	Power System Operations & Control Laboratory (B)	3.00	2.00			2.00			2.00		2.00		1.00		SUB	
0EEPC309	Electrical Drives and Control (A)	3.00	2.00										2.00	2.00	AJP	
0EEPC356	Electrical Drives and Control Laboratory (A)	3.00	3.00	2.00	3.00	3.00			2.00	3.00	3.00		2.00		AJP	
0EEPC309	Electrical Drives and Control (B)	3.00	2.00										2.00	2.00	MVP	
0EEPC356	Electrical Drives and Control Laboratory (B)	3.00	3.00	2.00	3.00	3.00			2.00	3.00	3.00		2.00		MVP	
0EEPC355	Electrical Machine Design Laboratory (A)	2.00	2.00	2.00					2.00	2.00	2.00			1.00	SKS	
0EEPC355	Electrical Machine Design Laboratory (B)	2.00	2.00	2.00					2.00	2.00	2.00			1.00	SKS	
0EEES310	Microcontroller & It's Applications (A)	3.00	2.00	1.00		1.00		1.00					1.00	1.00	1.00	APY
0EEES357	Microcontroller & It's Applications Laboratory (A)	2.00	1.00		3.00	2.00		1.00	3.00	1.00		1.00	1.00	1.00	1.00	APY
0EEES310	Microcontroller & It's Applications (B)	3.00	2.00	1.00		1.00		1.00					1.00	1.00	1.00	APY
0EEES357	Microcontroller & It's Applications Laboratory (B)	2.00	1.00		3.00	2.00		1.00	3.00	1.00		1.00	1.00	1.00	1.00	SSJ
0EEPR359	Mini Project (A)	3.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00	RBM
0EEPR359	Mini Project (B)	3.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00	RBM
0EEPR360	Seminar (A)	3.00	3.00			2.00	2.00	2.00	2.00	3.00	3.00	2.00	2.00			RBM
0EEPR360	Seminar (B)	3.00	3.00			2.00	2.00	2.00	2.00	3.00	3.00	2.00	2.00			RBM
0EEPE311	Electric and Hybrid Vehicles (A)	3.00							2.00					2.00		DBK
0EEPE311	Electric and Hybrid Vehicles (B)	3.00							2.00					2.00		NMJ
0EEPE313	Industrial Automation (A)	3.00	2.00	1.00										1.00	1.00	RBM
0EEPE313	Industrial Automation (B)	3.00	2.00	1.00										1.00	1.00	ABJ
0EEPC401	Electrical Installation, Testing and Maintenance (A)	3.00		2.00									1.00			RBM
0EEPC401	Electrical Installation, Testing and Maintenance (B)	3.00		2.00									1.00			YAM
0EEPC402	Switchgear and Protection (A)	2.00	2.00										1.00	1.00		DBK
0EEPC402	Switchgear and Protection (B)	2.00	2.00										1.00	1.00		PSM
0EEHS403	Economics for Engineers (A)	1.00	2.00									3.00	1.00			PSM
0EEHS403	Economics for Engineers (B)	1.00	2.00									3.00	1.00			VSP
0EEPC404	FACTS & HVDC Systems (A)	3.00	2.00													SDP
0EEPC404	FACTS & HVDC Systems (B)	3.00	2.00													SDP
0AEOE404	Experimenatal Aerodynamics	3.00	2.00	2.00	2.00				2.00				1.00			
0AEOE406	Introduction to UAV	3.00	3.00	2.00	2.00	1.00			2.00							
0MEOE409	Industrial Management and Operation Research	2.33	2.96					0.96								
0EEMC409	Industrial Training (A)	3.00	2.00	2.00	2.00	2.00			2.00	2.00	2.00	2.00	2.00	2.00	1.00	ABJ
0EEMC409	Industrial Training (B)	3.00	2.00	2.00	2.00	2.00			2.00	2.00	2.00	2.00	2.00	2.00	1.00	SKS
0EEAC410	Professional Skills-III (A)	2.00	1.00													ASG
0EEAC410	Professional Skills-III (B)	2.00	1.00													SUB
0EEPC411	Electrical Utilization and Traction (A)	3.00	2.00										1.00			YAM





0EEPC411	Electrical Utilization and Traction (B)	3.00	2.00										1.00			YAM
0EEPC412	High Voltage Engineering (A)	3.00	2.00				2.00	1.00		1.00	1.00		1.00	2.00		DBK
0EEPC412	High Voltage Engineering (B)	3.00	2.00				2.00	1.00		1.00	1.00		1.00	2.00		PSM
0EEPE414	Computer Methods in Power System (A)	3.00	3.00			3.00			2.00		2.00			3.00		SVP
0EEPE414	Computer Methods in Power System (B)	3.00	3.00			3.00			2.00		2.00			3.00		SVP
0EEPE415	Power Quality and Harmonics (A)	3.00	2.00			3.00	2.00	2.00		1.00	1.00			1.00		SDP
0EEPE415	Power Quality and Harmonics (B)	3.00	2.00			3.00	2.00	2.00		1.00	1.00			1.00		SDP
0EEPC416	Smart Grid (A)	3.00									1.00			1.00		RBM
0EEPC416	Smart Grid (B)	3.00									1.00			1.00		SDP1
0EEPE418	Energy Audit and Management (A)	2.00								2.00	2.00		2.00	1.00		DBK
0EEPE418	Energy Audit and Management (B)	2.00								2.00	2.00		2.00	1.00		AJP
0EEAC419	Professional Skills-IV (A)	1.00					2.00					3.00			1.00	PSM
0EEAC419	Professional Skills-IV (B)	1.00					2.00					3.00			1.00	DAS
0EEPR451	Project Phase- I	3.00	3.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	3.00	2.00	2.00		3.00	SDP1
0EEPC452	Switchgear and Protection Lab. (A)	3.00	2.00	2.00		2.00			2.00		2.00			2.00		DBK
0EEPC452	Switchgear and Protection Lab. (B)	3.00	2.00	2.00		2.00			2.00		2.00			2.00		PSM
0EEPC553	FACTS & HVDC Systems Lab. (A)	3.00	3.00	3.00	3.00	3.00			2.00	2.00	2.00			2.00		SDP
0EEPC553	FACTS & HVDC Systems Lab. (B)	3.00	3.00	3.00	3.00	3.00			2.00	2.00	2.00			2.00		SDP
0EEPC454	Electrical Installation, Testing and Maintenance Lab (A)	3.00	2.00			2.00				2.00	2.00			1.00	1.00	RBM
0EEPC454	Electrical Installation, Testing and Maintenance Lab (B)	3.00	2.00			2.00				2.00	2.00			1.00	1.00	YAM
0EEPR455	Project Phase- II	3.00		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	3.00	SDP1
0EEES456	Software Packages (A)	3.00	2.00	2.00		2.00				2.00	2.00					ASG
0EEES456	Software Packages (B)	3.00	2.00	2.00		2.00				2.00	2.00					BPK/YAM
0EEPC457	Design & Estimation Lab (A)	3.00	3.00	2.00		2.00	2.00		2.00	3.00					2.00	RBM
0EEPC457	Design & Estimation Lab (B)	3.00	3.00	2.00		2.00	2.00		2.00	3.00					2.00	NMJ
0EEPC458	High Voltage Engineering Lab (A)	3.00							2.00		2.00			2.00		DBK
0EEPC458	High Voltage Engineering Lab (B)	3.00							2.00		2.00			2.00		PSM
	AVERAGE	2.63	1.97	1.63	2.09	2.15	1.85	1.71	2.07	2.02	1.98	2.21	1.39	1.60	1.56	

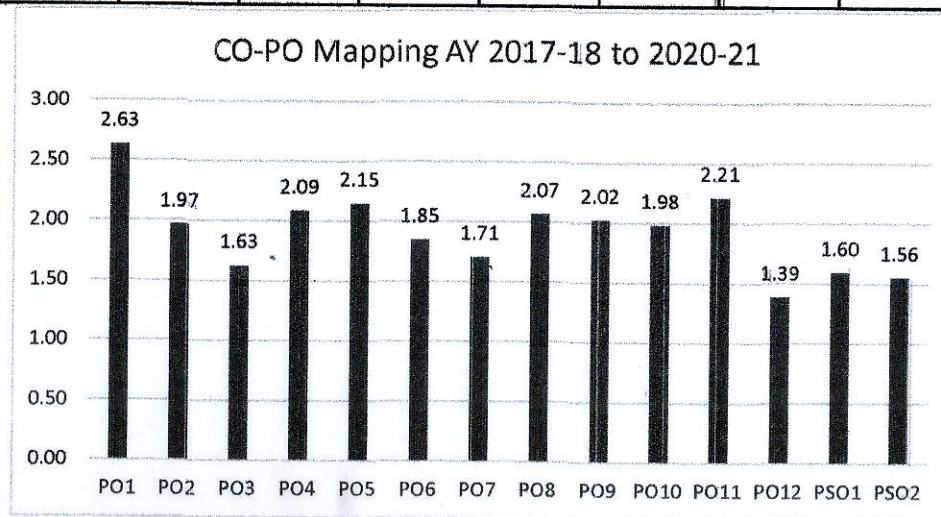


*P. Saleem*  
 Head  
 Electrical Engineering Department  
 Ashita College of Engineering & Technology



Annasaheb Dange College of Engineering and Technology, Ashta														
Department of Electrical Engineering														
ACADEMIC YEAR 2017-18 to 2020-21														
CO - PO Mapping- Summary														

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
AY 2017-18 to 2020-21	2.63	1.97	1.63	2.09	2.15	1.85	1.71	2.07	2.02	1.98	2.21	1.39	1.60	1.56



*P. Suleman*  
**Head**  
 Electrical Engineering Department  
 ADCET, Ashta



**Annasaheb Dange College of Engineering and Technology, Ashta**

**Department of Electrical Engineering**

**ACADEMIC YEAR 2017-18 to 2020-21**

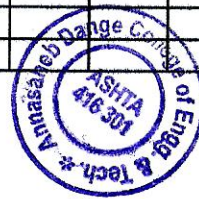
**CO - PO Attainment**

Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	By
0BSBS101	Applied Physics	1.73	1.50													
0BSBS102	Applied Maths-I	1.80	0.71													
0BSES103	Basic Electrical	1.65	1.76													
0BSES104	Basic Civil	1.88	1.75													
0BSES105	Engineering Graphics	1.83	1.43													
0BSHS106	Professional Communication								0.87		2.02					
0BSBS107	Applied Maths-I Tut	2.35	0.88													
0BSBS108	Applied Chemistry	1.82	1.69													
0BSES109	Basic Electronics Engg.	1.41	0.70	0.65												
0BSES110	Engineering Mechanics	1.99	1.33													
0BSES111	Basic Mechanical Engg.	1.47	0.75													
0BSES112	Computer Programming	1.50	1.50													
0BSBS113	Applied Maths II	2.02	1.18													
0BSBS114	Applied Maths II Tut	2.02	0.84													
0BSES151	Workshop Practice	2.17	1.25													
0BSBS152	Applied Physics Lab	0.74	0.87			0.86			0.74	0.86	0.86					
0BSES153	Basic Electrical	1.64	0.92							1.86	1.84		1.66			
0BSES154	Basic Civil lab	1.74	1.74			1.75	1.48		0.77		0.74					
0BSES155	Engineering Graphics	1.62	1.62						0.79		1.57					
0BSHS156	Professional Communication					1.64			1.22	1.63	2.25					
0BSES157	Basic Electronics Lab	1.80	0.90	0.90					1.56	1.12	1.71					
0BSBS158	Applied Chemistry	1.69	0.85					0.74	0.72	0.73	0.72					
0BSES159	Engineering Mechanics	2.59	1.73						1.77		1.72					
0BSES160	Basic Mechanical Engg.	2.11	0.91						0.85		0.81					
0BSES161	Computer Programming	1.87	1.84		2.53		1.60		1.60				1.60			
0EEBS201	Applied Mathematics –III (A)	2.11	1.13													NDS
0EEBS201	Applied Mathematics –III (B)	2.12	1.14													NDS
0EEPC202	Electrical Circuits & Networks (A)	2.21	1.72													PMK
0EEPC202	Electrical Circuits & Networks (B)	2.23	1.74													PMK
0EEPC203	Electrical Engineering Materials (A)	2.30	2.00													SKS
0EEPC203	Electrical Engineering Materials (B)	2.38	1.81													SKS
0EEPC204	Analog Electronics (A)	2.30	2.00	1.00												RBM
0EEPC204	Analog Electronics (B)	2.10	1.91	0.95												VSP
0EEPC205	Electrical Measurements (A)	1.54	1.58													YAM
0EEPC205	Electrical Measurements (B)	1.57	1.61													YAM
0EEPC251	Electrical Circuits & Networks Laboratory (A)	1.18	1.18	0.75	0.75	0.90			1.80		1.80				0.80	PMK
0EEPC251	Electrical Circuits & Networks Laboratory (B)	2.00	2.00	1.00	1.00	2.00			2.00		2.00				1.00	SSP





0EEPC252	Analog Electronics Laboratory (A)	3.00	2.00	1.00	1.00	3.00			2.00	1.00	2.00				2.00	RBM
0EEPC252	Analog Electronics Laboratory (B)	3.00	2.00	1.00	1.00	3.00			2.00	1.00	2.00				2.00	VSP
0EEPC253	Electrical Measurements Laboratory (A)	1.97	1.97						2.00	1.97	1.96			0.98		YAM
0EEPC253	Electrical Measurements Laboratory (B)	1.88	1.87						2.00	1.88	1.88			0.94		YAM/NMJ
0EEES254	Programming in C++ (A)	2.99	2.00	1.33	1.33	1.00										SSK
0EEES254	Programming in C++ (B)	2.99	2.00	1.33	1.33	1.00										SSK
0EEES207	Signals & Systems (A)	2.17	0.81													BPK
0EEES207	Signals & Systems (B)	2.33	1.35													ABJ
0EEPC208	Generation, Transmission & Distribution (A)	2.46	1.47													SVP/SSK
0EEPC208	Generation, Transmission & Distribution (B)	2.08	1.25													YAM
0EEPC209	DC Machines & Transformers (A)	2.18												1.49	1.62	NMJ
0EEPC209	DC Machines & Transformers (B)	2.02												1.25	1.86	NMJ/PMK
0EEES210	Digital Electronics (A)	1.73	0.91	0.89												VSP/PDG
0EEES210	Digital Electronics (B)	1.66	0.89	0.93												VSP
0EEPC211	Instrumentation & Communication (A)	1.60	1.60	0.60												SDP1
0EEPC211	Instrumentation & Communication (B)	1.50	1.10	0.90												SSK
0EEAC212	Professional Skills-I (A)	2.00	2.00													SUB
0EEAC212	Professional Skills-I (B)	2.00	2.00													SUB
0EEPC255	DC Machines & Transformers Laboratory (A)	1.95				1.97			2.00		1.97			1.96	1.97	NMJ
0EEPC255	DC Machines & Transformers Laboratory (B)	1.90				1.92			2.00		1.92			1.91	1.92	PMK/NMJ
0EEES256	Digital Electronics Laboratory (A)	3.00	2.50	1.00		3.00			3.00	2.00	2.00			1.00		PDG/VSP
0EEES256	Digital Electronics Laboratory (B)	3.00	2.50	1.00		3.00			3.00	2.00	2.00			1.00		VSP
0EEPC257	Instrumentation & Communication Laboratory (A)	2.50	3.00				1.00		2.85	3.00	1.00		0.99			SDP1
0EEPC257	Instrumentation & Communication Laboratory (B)	3.00	3.00				1.00		3.00	3.00	1.00		1.00			SVP/SSK
0EEPC258	Software Tools for Electrical Engineering (A)	2.00	2.00			2.00				2.00	2.00					JMK/BPK
0EEPC258	Software Tools for Electrical Engineering (B)	2.00	2.00			2.00				2.00	2.00					ABJ
0EEPC301	Feedback Control Systems (A)	2.50	1.10													SDP1
0EEPC354	Feedback Control Systems Laboratory (A)	3.00	2.50	2.00	1.50	2.00			1.90		2.00				2.00	SDP1
0EEPC301	Feedback Control Systems (B)	2.15	0.95													BPK
0EEPC354	Feedback Control Systems Laboratory (B)	2.99	2.49	1.99	1.50	2.00			1.95		1.98				2.00	BPK
0EEPC302	Power System Analysis (A)	2.03	0.79													MCS
0EEPC353	Power System Analysis Laboratory (A)	3.00	2.00			2.00			2.00		2.00			1.00	1.00	MCS
0EEPC302	Power System Analysis (B)	1.89	0.75													ASG
0EEPC353	Power System Analysis Laboratory (B)	3.00	2.00			2.00			2.00		2.00			1.00	1.00	ASG
0EEPC303	AC Machines (A)	2.56	0.98											1.98		NMJ
0EEPC351	AC Machines Laboratory (A)	2.93				1.95			1.93		1.95			1.95		NMJ
0EEPC303	AC Machines (B)	2.57	1.00											1.96		SSP
0EEPC351	AC Machines Laboratory (B)	2.97				1.99			1.93		1.98			1.99		SSP
0EEPC304	Power Electronics (A)	1.80	1.20													VBP
0EEPC352	Power Electronics Laboratory (A)															VBP
0EEPC304	Power Electronics (B)	2.20	2.00													SVP
0EEPC352	Power Electronics Laboratory (B)	2.00		2.00		2.00				2.00				1.00	1.00	SVP
0EEPC305	Electromagnetic Engineering (A)	2.65	1.77										0.88			GS





0EEPC305	Electromagnetic Engineering (B)	2.39	1.59									0.80			GS	
0EEAC306	Professional Skills-II (A)							2.74	2.69	2.51					PSM	
0EEAC306	Professional Skills-II (B)							2.89	2.95	2.79					PSM	
0EEPC307	Control System Design (A)	2.90	2.40									1.00			SDP1	
0EEPC307	Control System Design (B)	2.15	0.95									0.83			BPK	
0EEPC308	Power System Operations & Control (A)	2.27	1.50	1.03									1.73	0.87	SSJ	
0EEPC358	Power System Operations & Control Laboratory (A)	2.50	2.00			2.00		2.00		2.00			1.00		SSJ	
0EEPC308	Power System Operations & Control (B)	2.34	1.56	1.11									1.76	0.88	SUB	
0EEPC358	Power System Operations & Control Laboratory (B)	2.50	2.00			2.00		2.00		2.00			1.00		SUB	
0EEPC309	Electrical Drives and Control (A)	2.40	1.20										1.70	1.70	AJP	
0EEPC356	Electrical Drives and Control Laboratory (A)	3.00	3.00	2.00	2.98	2.94		2.00	2.50	2.50		2.00			AJP	
0EEPC309	Electrical Drives and Control (B)	3.00	1.67										1.70	1.70	MVP	
0EEPC356	Electrical Drives and Control Laboratory (B)	3.00	3.00	2.00	2.98	2.94		2.00	2.50	2.50		2.00			MVP	
0EEPC355	Electrical Machine Design Laboratory (A)	2.00	2.00	2.00				2.00	2.00	2.00			1.00		SKS	
0EEPC355	Electrical Machine Design Laboratory (B)	2.00	2.00	2.00				2.00	2.00	2.00			1.00		SKS	
0EEES310	Microcontroller & It's Applications (A)	2.95	1.97	0.98		0.97		0.97					0.98	0.98	0.98	APY
0EEES357	Microcontroller & It's Applications Laboratory (A)	2.00	1.00		3.00	2.00		1.00	3.00	1.00		1.00	1.00	1.00	1.00	APY
0EEES310	Microcontroller & It's Applications (B)	2.98	1.98	0.99		0.98		0.98					0.99	0.99	0.99	APY
0EEES357	Microcontroller & It's Applications Laboratory (B)	2.00	1.00		3.00	2.00		1.00	3.00	1.00		1.00	1.00	1.00	1.00	SSJ
0EEPR359	Mini Project (A)	3.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.67	2.67	RBM
0EEPR359	Mini Project (B)	3.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.67	2.67	RBM
0EEPR360	Seminar (A)	3.00	3.00			2.00	2.00	2.00	2.00	3.00	3.00	2.00	2.00			RBM
0EEPR360	Seminar (B)	3.00	3.00			2.00	2.00	2.00	2.00	3.00	3.00	2.00	2.00			RBM
0EEPE311	Electric and Hybrid Vehicles (A)	2.49						2.00					2.00			DBK
0EEPE311	Electric and Hybrid Vehicles (B)	2.35						1.79					1.79			NMJ
0EEPE313	Industrial Automation (A)	2.80	1.80	1.00										0.90	0.90	RBM
0EEPE313	Industrial Automation (B)	2.68	1.72	1.00										0.87	0.82	ABJ
0EEPC401	Electrical Installation, Testing and Maintenance (A)	2.80		1.90									1.90			RBM
0EEPC401	Electrical Installation, Testing and Maintenance (B)	2.87		2.00									0.89			YAM
0EEPC402	Switchgear and Protection (A)	2.00	2.00										0.88	0.90		DBK
0EEPC402	Switchgear and Protection (B)	2.34	2.00										0.97	0.98		PSM
0EEHS403	Econimics for Engineers (A)	0.76	1.33									2.41	0.80			PSM
0EEHS403	Econimics for Engineers (B)	0.98	2.00									2.95	0.98			VSP
0EEPC404	FACTS & HVDC Systems (A)	2.71	1.74													SDP
0EEPC404	FACTS & HVDC Systems (B)	2.73	1.73													SDP
0AEOE404	Experimenatal Aerodynamics	2.45	1.76	1.76	1.74			1.56					0.78			
0AEOE406	Introduction to UAV	2.53	2.51	1.81	2.00	1.00		1.81								
0MEOE409	Industrial Management and Operation Research	3.00	3.00				1.00									
0EEMC409	Industrtrial Training (A)	3.00	2.00	2.00	2.00	2.00		2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.00	ABJ
0EEMC409	Industrtrial Training (B)	2.86	1.86	1.89	1.89	1.86		1.89	1.89	1.78	1.78	1.78	1.89	1.86	0.93	SKS
0EEAC410	Professional Skills-III (A)	2.00	1.00													ASG
0EEAC410	Professional Skills-III (B)	1.99	0.99													SUB
0EEPC411	Electrical Utilization and Traction (A)	2.92	1.99										0.93			YAM





0EEPC411	Electrical Utilization and Traction (B)	2.83	1.99										0.83			YAM
0EEPC412	High Voltage Engineering (A)	2.82	2.00				1.92	0.96		0.92	0.92		0.93	1.44		DBK
0EEPC412	High Voltage Engineering (B)	2.84	2.00				1.97	0.98		0.86	0.86		0.94	1.44		PSM
0EEPE414	Computer Methods in Power System (A)	2.88	2.88			2.88			2.00		2.00			2.88		SVP
0EEPE414	Computer Methods in Power System (B)	2.94	2.94			2.94			2.00		2.00			2.94		SVP
0EEPE415	Power Quality and Harmonics (A)	2.60	1.68			2.72	1.81	1.81		0.91	0.91			1.91		SDP
0EEPE415	Power Quality and Harmonics (B)	2.60	1.64			2.79	1.86	1.86		0.93	0.93			0.93		SDP
0EEPC416	Smart Grid (A)	2.60									1.29			1.17		RBM
0EEPC416	Smart Grid (B)	2.50									1.22			1.13		SDP1
0EEPE418	Energy Audit and Management (A)	2.00								1.85	1.85		1.95	0.98		DBK
0EEPE418	Energy Audit and Management (B)	2.39								2.96	2.96		2.00	1.00		AJP
0EEAC419	Professional Skills-IV (A)	0.95					1.90					2.81			0.94	PSM
0EEAC419	Professional Skills-IV (B)	0.95					1.90					2.81			0.94	DAS
0EEPR451	Project Phase- I	3.00	2.67	2.50	2.00	2.50	2.00	2.50	2.00	2.50	2.29	2.00	2.00		2.50	SDP1
0EEPC452	Switchgear and Protection Lab. (A)	3.00	2.00	2.00		2.00			2.00		2.00			2.00		DBK
0EEPC452	Switchgear and Protection Lab. (B)	3.00	2.00	2.00		2.00			2.00		2.00			2.00		PSM
0EEPC453	FACTS & HVDC Systems Lab. (A)	2.82	2.82	2.82	2.82	2.82			1.88	1.88	1.88			1.88		SDP
0EEPC453	FACTS & HVDC Systems Lab. (B)	2.79	2.79	2.79	2.79	2.79			1.86	1.86	1.86			1.86		SDP
0EEPC454	Electrical Installation, Testing and Maintenance Lab (A)	3.00	2.00			2.00				2.00	2.00			1.00	1.00	RBM
0EEPC454	Electrical Installation, Testing and Maintenance Lab (B)	3.00	2.00			2.00				1.99	1.97			1.00	1.00	YAM
0EEPR455	Project Phase- II	3.00		2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.00	2.00	2.50	2.50	SDP1
0EEES456	Software Packages (A)	3.00	2.00	2.00		2.00				2.00	2.00					ASG
0EEES456	Software Packages (B)	3.00	2.00	2.00		2.00				2.00	2.00					BKP/YAM
0EEPC457	Design & Estimation Lab (A)	3.00	3.00	2.00		2.00	2.00		2.00	3.00					2.00	RBM
0EEPC457	Design & Estimation Lab (B)	3.00	3.00	2.00		2.00	2.00		2.00	3.00					2.00	NMJ
0EEPC458	High Voltage Engineering Lab (A)	2.96							1.78		2.00			2.00		DBK
0EEPC458	High Voltage Engineering Lab (B)	3.00							2.00		2.00			2.00		PSM
	<b>AVERAGE</b>	<b>2.34</b>	<b>1.76</b>	<b>1.56</b>	<b>1.98</b>	<b>2.07</b>	<b>1.79</b>	<b>1.60</b>	<b>1.95</b>	<b>1.95</b>	<b>1.87</b>	<b>2.05</b>	<b>1.35</b>	<b>1.52</b>	<b>1.46</b>	

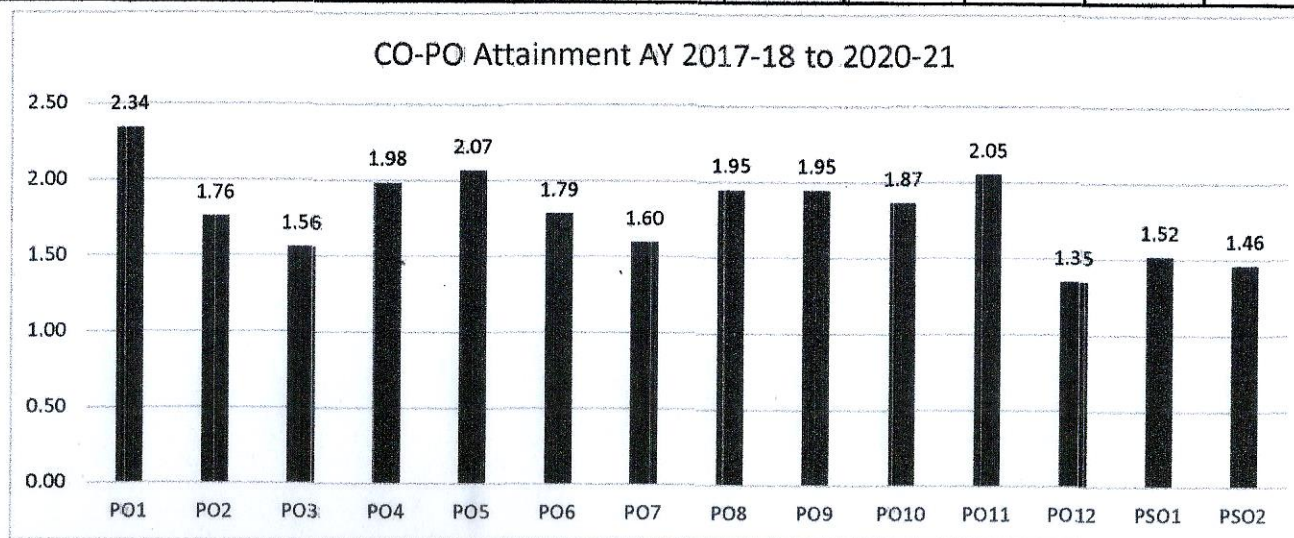


  
**Head**  
 Electrical Engineering Department  
 ADCET, Ashta



Annasaheb Dange College of Engineering and Technology, Ashta														
Department of Electrical Engineering														
ACADEMIC YEAR 2017-18 to 2020-21														
CO - PO Attainment- Summary														

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
AY 2017-18 to 2020-21	2.34	1.76	1.56	1.98	2.07	1.79	1.60	1.95	1.95	1.87	2.05	1.35	1.52	1.46



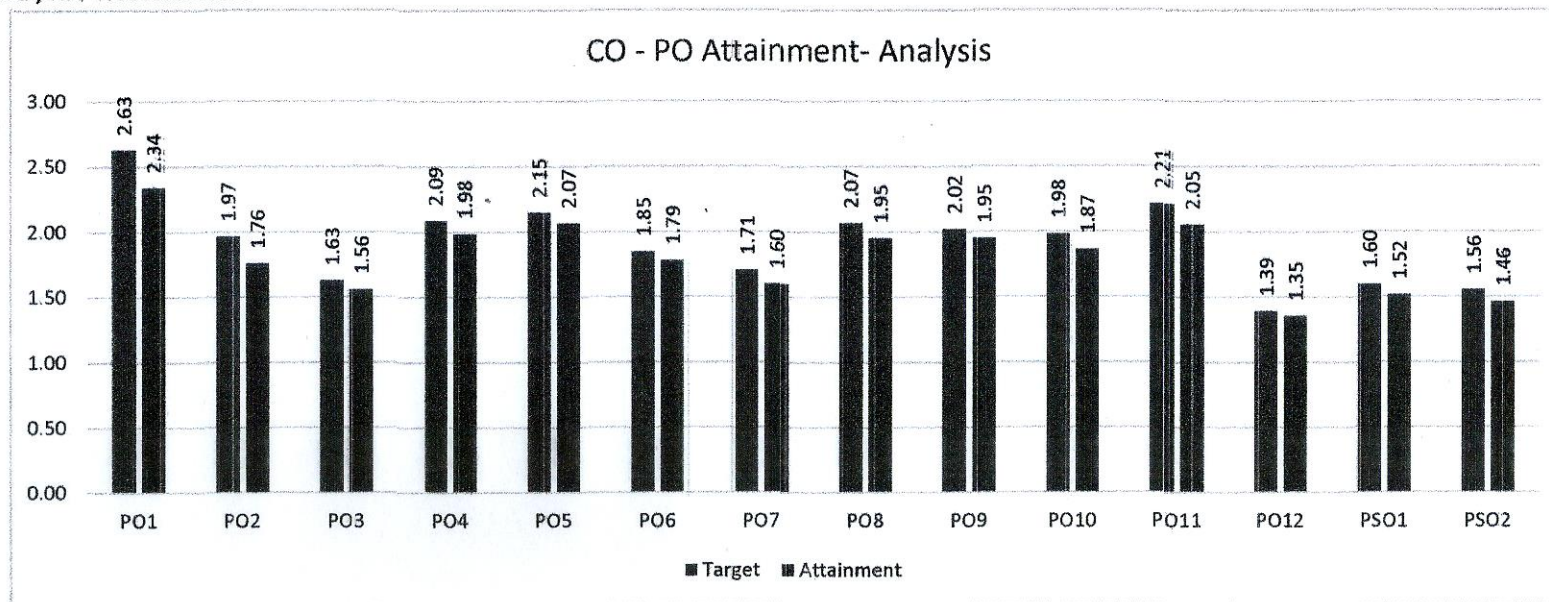
*P. Zale*  
**Head**  
 Electrical Engineering Department  
 ADCET, Ashta



<b>Annasaheb Dange College of Engineering and Technology, Ashta</b>
<b>Department of Electrical Engineering</b>
<b>ACADEMIC YEAR 2017-18 to 2020-21</b>
<b>CO - PO Attainment- Analysis</b>

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>Target</b>	2.63	1.97	1.63	2.09	2.15	1.85	1.71	2.07	2.02	1.98	2.21	1.39	1.60	1.56
<b>Attainment</b>	2.34	1.76	1.56	1.98	2.07	1.79	1.60	1.95	1.95	1.87	2.05	1.35	1.52	1.46
<b>%Attainment</b>	89	89	96	95	96	97	94	94	96	94	93	98	95	94
<b>Status</b>	A	A	A	A	A	A	A	A	A	A	A	A	A	A

Note: A=Attended , NA=Not Attended



  
**Head**  
 Electrical Engineering Department  
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