



BRAINWARE UNIVERSITY
SCHOOL OF ENGINEERING
DEPARTMENT OF ELECTRICAL ENGINEERING
Diploma in Electrical Engineering – 2026

Mandatory Induction Program (Duration: 3 weeks)

- Physical activity
- Creative Arts
- Universal Human Values
- Literary
- Proficiency Modules
- Lectures by Eminent People
- Visits to local Areas
- Familiarization to Department/Branch and Innovations

SEMESTER – I

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	DBS00001	Mathematics-I	3	0	0	40	60	100	3	BS
2	DBS00002	Applied Physics-I	2	1	0	40	60	100	3	BS
3	DBS00003	Applied Chemistry	3	0	0	40	60	100	3	BS
4	DES00001	Introduction to IT Systems	2	0	0	40	60	100	2	ES
5	DHS00001	Communication Skills in English	2	0	0	40	60	100	2	HS
6	DBS09006	Applied Physics-I Lab	0	0	2	20	30	50	1	BS
7	DBS09007	Applied Chemistry Lab	0	0	2	20	30	50	1	BS
8	DES09010	Introduction to IT Systems Lab	0	0	2	20	30	50	1	ES
9	DES09009	Engineering Graphics	0	0	3	40	60	100	1.5	ES
10	DES09007	Engineering Workshop Practice	0	0	3	40	60	100	1.5	ES
TOTAL			12	1	12	340	510	850	19	



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SEMESTER – II

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	DBS00004	Mathematics-II	3	1	0	40	60	100	4	BS
2	DBS00005	Applied Physics-II	2	1	0	40	60	100	3	BS
3	DES00002	Fundamentals of Electrical and Electronics Engineering	3	0	0	40	60	100	3	ES
4	DES00003	Engineering Mechanics	3	1	0	40	60	100	4	ES
5	DES00004	Computer Programming	3	0	0	40	60	100	3	ES
6	DBS09008	Applied Physics-II Lab	0	0	2	20	30	50	1	BS
7	DES09008	Fundamentals of Electrical and Electronics Engineering Lab	0	0	2	20	30	50	1	ES
8	DES09005	Engineering Mechanics Lab	0	0	2	20	30	50	1	ES
9	DES09006	Computer Programming Lab	0	0	2	20	30	50	1	ES
10	DHS09002	Communication Skills in English Lab	0	0	2	20	30	50	1	HS
11	DAU00001	Environmental Sciences	2	0	0	0	0	0	0	AU*
TOTAL			16	3	10	300	450	750	22	
12	DGPC0001	Basic Communication and Thinking Skills	0	0	0	100	0	100	0	GPC

SEMESTER – III

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	DEE30101	Electrical Circuits and Network	3	0	0	40	60	100	3	PC
2	DEE30102	Electrical Machine I	3	0	0	40	60	100	3	PC
3	DEE30103	Digital Electronics	3	0	0	40	60	100	3	PC
4	DEE30104	Introduction to Electric Generation Systems	2	0	0	40	60	100	2	PC
5	DEE30105	Transmission and Distribution of Power	3	0	0	40	60	100	3	PC
6	DEE39106	Electrical Circuit and Network Lab	0	0	2	20	30	50	1	PC
7	DEE39107	Electrical Machine I Lab	0	0	3	40	60	100	1.5	PC
8	DEE39108	Digital Electronics Lab	0	0	2	20	30	50	1	PC
9	DEE39109	Introduction to Electric Generation Systems Lab	0	0	2	20	30	50	1	PC
10	DEE39110	Transmission and Distribution of Power Lab	0	0	3	40	60	100	1.5	PC
11	DEE39111	Electrical Workshop I	0	0	2	20	30	50	1	PC
Total			14	0	14	360	540	900	21	



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SEMESTER – IV

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	DEE40112	Electrical Machine II	3	0	0	40	60	100	3	PC
2	DEE40113	Electrical Measuring Instrument	3	0	0	40	60	100	3	PC
3	DEE40114	Switchgear and Protection	3	0	0	40	60	100	3	PC
4	DEE40201	A. Renewable Energy Power Plants B. Solar Power Technologies C. Wind Power Technologies D. MOOC	4	0	0	40	60	100	4	PE
5	DHS00003	Entrepreneurship and Start-ups	3	0	0	40	60	100	3	HS
6	DEE49115	Electrical Machine II Lab	0	0	3	40	60	100	1.5	PC
7	DEE49116	Electrical Measuring Instrument Lab	0	0	3	40	60	100	1.5	PC
8	DEE49117	Switchgear and Protection Lab	0	0	2	20	30	50	1	PC
9	DAU00003	Essence of Indian Knowledge and Tradition	2	0	0	0	0	0	0	AU*
TOTAL			18	0	8	300	450	750	20	
10	DGPC0002	Communication Skills and Workplace Basics	0	0	0	100	0	100	0	GPC

SEMESTER – V

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	DEE50118	Power Electronics and Drives	3	0	0	40	60	100	3	PC
2	DEE50119	Electrical Measurement and Control	3	1	0	40	60	100	4	PC
3	DEE50202	A. Microprocessor and Microcontroller B. Communication Technologies C. Analog Electronics D. MOOC	3	0	0	40	60	100	3	PE
4	DEE50203	A. Utilization, Traction, Heating and Drives. B. Energy Conservation and Audit C. Electric Vehicles. D. MOOC	3	0	0	40	60	100	3	PE
5	DEE50204	A. Illumination Engineering B. Control System C. Electric Traction	3	0	0	40	60	100	3	PE
6	DEE59205	A. Illumination Engineering Lab B. Control System Lab C. Electric Traction Lab	0	0	3	40	60	100	1.5	PE
7	DEE59120	Power Electronics and Drives Lab	0	0	2	20	30	50	1	PC
8	DEE58101	Internship	0	0	0	0	100	100	2	PROJ
TOTAL			15	1	5	260	490	750	20.5	



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SEMESTER – VI

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	DEE60121	Electrical Design Estimation and Costing	3	0	0	40	60	100	3	PC
2	DEE60301	A. Industrial Automation B. Process Control C. Control of Electrical Machine	3	0	0	40	60	100	3	OE
3	DEE60302	A. Data structure and algorithm B. Object-oriented programming C. Sensors and Transducers D. MOOC	3	0	0	40	60	100	3	OE
4	DEE69303	A. Industrial Automation Lab B. Process Control Lab C. Control of Electrical Machine Lab	0	0	3	40	60	100	1.5	OE
5	DEE68102	Project	0	0	0	40	60	100	6	PROJ
6	DEE68103	Grand Viva-Voce	0	0	0	0	100	100	4	PROJ
7	DAU00002	Indian Constitution	2	0	0	0	0	0	0	AU*
TOTAL			11	0	3	200	400	600	20.5	