BRAINWARE UNIVERSITY
SCHOOL OF ENGINEERING
DEPARTMENT OF ELECTRICAL ENGINEERING
DIPLOMA IN ELECTRICAL ENGINEERING 2023

Induction Program (Duration: 1 week)

- Physical activity
- Creative arts
- Universal human values
- Literary
- Proficiency modules
- Lectures by eminent people
- Visit to local areas
- Familiarization with dept./branch & innovations

Different components of Induction Program will be implemented as per the guidelines of Regulatory Bodies

SEMESTER – I

Course code	Course Name	Course Type	Hours per week			Credit(s)	Total Marks
			L	T	P		
HS101	Communication Skills in English	HS	2	0	0	2	50
BS101	Applied Chemistry	BS	3	0	0	3	100
BS102	Mathematics-I	BS	3	0	0	3	100
ES101	Introduction to IT Systems	ES	3	0	0	3	100
ES102	Engineering Mechanics	ES	3	0	0	3	100
HS191	Communication Skills in English Lab	HS	0	0	2	1	50
BS191	Applied Chemistry Lab	BS	0	0	3	1.5	100
ES191	Introduction to IT Systems Lab	ES	0	0	2	1	50
ES192	Engineering Mechanics Lab	ES	0	0	2	1	50
ES193	Engineering Workshop Practice	ES	0	0	3	1.5	100
	Total					**20**	**800**
AU-1	Yoga and Sports	MC	0	0	2	0	0

Total hours = 28

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SEMESTER – II

Course code	Course Name	Course Type	Hours per week			Credit(s)	Total Marks
			L	T	P		
BS201	Applied Physics	BS	3	0	0	3	100
BS202	Mathematics-II	BS	3	1	0	4	100
ES201	Fundamentals of Electrical & Electronics Engineering	ES	3	0	0	3	100
ES202	Computer Programming	ES	3	0	0	3	100
Practical							
BS291	Applied Physics Lab	BS	0	0	3	1.5	100
ES291	Fundamentals of Electrical & Electronics Engineering Lab	ES	0	0	2	1	50
ES292	Computer Programming Lab	ES	0	0	2	1	50
ES293	Engineering Graphics	ES	0	0	3	1.5	100
	Total					**18**	**700**
AU-2	Environmental Science	MC	2	0	0	**0**	**0**

Total hours = 25

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SEMESTER – III

Course code	Course Name	Course Type	Hours per week			Credit(s)	Total Marks
			L	T	P		
DEEPC301	Electrical Circuit and Network	PC	3	0	0	3	100
DEEPC302	Electrical Machine I	PC	3	0	0	3	100
DEEPC303	Basic Electronics	PC	3	0	0	3	100
DEEPC304	Introduction to Electric Generation Systems	PC	2	0	0	2	50
DEEPC305	Elements of Mechanical Engineering	PC	2	0	0	2	50
DEEPC391	Electrical Circuit and Network Lab	PC	0	0	2	1	50
DEEPC392	Electrical Machine I Lab	PC	0	0	3	1.5	100
DEEPC393	Basic Electronics Lab	PC	0	0	2	1	50
DEEPC394	Introduction to Electric Generation Systems Lab	PC	0	0	2	1	50
DEEPC381	Electrical Workshop I	PC	0	0	3	1.5	100
DEEHS382	Development of Life Skill	HS	1	0	0	1	50
	Total					**20**	**800**

Total hours = 26

SEMESTER – IV

Course code	Course Name	Course type	Hours per week			Credit(s)	Total Marks
			L	T	P		
DEEPC401	Electrical Machine II	PC	3	0	0	3	100
DEEPC402	Electrical Measuring Instrument	PC	3	0	0	3	100
DEEPC403	Transmission and Distribution of Power	PC	3	0	0	3	100
DEEPE401	**Elective I** A.Renewable Energy Power Plants B. Solar Power Technologies C. Wind Power Technologies	PE	3	0	0	3	100
DEEPC491	Electrical Machine II Lab	PC	0	0	3	1.5	100
DEEPC492	Electrical Measuring Instrument Lab	PC	0	0	3	1.5	100
DEEPC493	Transmission and Distribution of Power Lab	PC	0	0	3	1.5	100
DEEPC494	Computer aided Electrical Drawing Lab	PC	0	0	3	1.5	50
DEE-PROJ 481	Professional Practice -I	PR	0	0	2	1	50
	Total					19	**800**

Total hours = 26

SEMESTER – V

Course code	Course Name	Course type	Hours per week			Credit(s)	Total Marks
			L	T	P		
DEEPC501	Power Electronics and Drives	PC	3	0	0	3	100
DEEPC502	Electrical Measurement and Control	PC	3	0	0	3	100
DEEPC503	Switchgear and Protection	PC	3	0	0	3	100
DEEPE501	A.Microprocessor and Microcontroller B. Communication Technologies C. Robotics	PE	3	0	0	3	100
DEEPE502	A. Utilization, Traction Heating and Drives. B. Energy Conservation and Audit C. Electric Vehicles.	PE	3	0	0	3	100
DEEPE503	A. Illumination Engineering B. Heating , Ventilation and Air Conditioning C. Electric Traction	PE	3	0	0	3	100
DEEPC591	Power Electronics and Drives Lab	PC	0	0	3	1.5	50
DEEPC593	Switchgear and Protection Lab	PC	0	0	2	1	100
DEEPE593	A. Illumination Engineering Lab B. Heating , Ventilation and Air Conditioning Lab C. Electric Traction Lab	PE	0	0	3	1.5	50
DEE-PROJ 582	Professional Practice -II	PR	0	0	3	1.5	50
	Total					**23.5**	**850**

Total hours = 29

SEMESTER – VI

Course code	Course Name	Course type	Hours per week			Credit(s)	Total Marks
			L	T	P		
DEEPC601	Electrical Design Estimation and Costing	PC	3	0	0	3	100
DEEPC602	Electrical Installation, Maintenance, Testing	PC	3	0	0	3	100
DEEOE601	A. Industrial Automation B. Process Control C. ontrol of Electrical Machine	OE	3	0	0	3	100
DEEPC691	Electrical Design Estimation and Costing Lab	PC	0	0	3	1.5	100
DEEOE691	A. Industrial Automation B. Process Control C. Control of Electrical Machine	OE	0	0	2	1	50
DEEPC681	Electrical Workshop II	PC	0	0	3	1.5	50
DEE-PROJ683	Professional Practice -III	PR	0	0	3	1.5	50
DEE-PROJ684	Industrial Project	PR				2	100
DEE-PROJ685	Grand Viva	PR				3	100
	Total					19.5	**750**

Total hours = 20
Total Credit: 120
Total marks: 4700