



**BRAINWARE UNIVERSITY**  
**SCHOOL OF ENGINEERING**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**Diploma in Civil Engineering- 2024**

**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 & 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
<b>TOTAL</b>			<b>12</b>	<b>1</b>	<b>12</b>	<b>340</b>	<b>510</b>	<b>850</b>	<b>19</b>	



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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	00	0	AU
<b>TOTAL</b>			<b>16</b>	<b>3</b>	<b>10</b>	<b>300</b>	<b>450</b>	<b>750</b>	<b>22</b>	

**SEMESTER – III**

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	DCE30101	Building Materials and Construction	3	0	0	40	60	100	3	PC
2	DCE30102	Estimation and Costing	3	0	0	40	60	100	3	PC
3	DCE30103	Concrete Technology	3	0	0	40	60	100	3	PC
4	DCE30104	Strength of Materials	3	0	0	40	60	100	3	PC
5	DCE30105	Soil Mechanics	3	0	0	40	60	100	3	PC
6	DCE39106	Estimation and Costing and Valuation Practices	0	0	2	20	30	50	1	PC
7	DCE39107	Concrete Technology Lab	0	0	3	40	60	100	1.5	PC
8	DCE39108	Strength of Materials Lab	0	0	2	20	30	50	1	PC
9	DCE39109	Soil Mechanics Lab	0	0	2	20	30	50	1	PC
10	DCE39110	Civil Engineering Drawing Lab	0	0	3	40	60	100	1.5	PC
<b>TOTAL</b>			<b>15</b>	<b>0</b>	<b>12</b>	<b>340</b>	<b>510</b>	<b>850</b>	<b>21</b>	



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**SEMESTER – IV**

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	DCE40111	Hydraulics	3	0	0	40	60	100	3	PC
2	DCE40112	Theory of Structure	3	0	0	40	60	100	3	PC
3	DCE40113	Surveying and Levelling	3	0	0	40	60	100	3	PC
4	DCE40114	Transportation Engineering	3	0	0	40	60	100	3	PC
5	DCE40201	A. Construction Management B. Precast and Prestressed Concrete C. Rural Construction Technology	3	0	0	40	60	100	3	PE
6	DHS00003	Entrepreneurship and Start-ups	3	0	0	40	60	100	3	HS
7	DCE49115	Hydraulics Lab	0	0	2	20	30	50	1	PC
8	DCE49116	Surveying and Levelling Lab	0	0	3	40	60	100	1.5	PC
9	DCE49117	Transportation Engineering Lab	0	0	3	40	60	100	1.5	PC
10	DAU00003	Essence of Indian Knowledge and Tradition	2	0	0	00	00	00	0	AU
<b>TOTAL</b>			<b>20</b>	<b>0</b>	<b>8</b>	<b>340</b>	<b>510</b>	<b>850</b>	<b>22</b>	

**SEMESTER – V**

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	DCE50118	Design of RCC Structure	3	1	0	40	60	100	4	PC
2	DCE50119	Environmental Engineering	3	0	0	40	60	100	3	PC
3	DCE50202	A. Advanced Surveying B. Advanced Construction Technology C. Advanced Geotechnical Engineering	3	0	0	40	60	100	3	PE
4	DCE50203	A. Irrigation Engineering B. Green Building and Energy Conservation C. Building Services and Entrepreneurship Development	3	0	0	40	60	100	3	PE
5	DCE50301	A. Disaster Management B. Professional Orientation/ Industrial Safety C. Fundamental and application of GIS and Remote Sensing	3	0	0	40	60	100	3	OE
6	DCE59120	Design of RCC Structure Lab	0	0	2	20	30	50	1	PC
7	DCE59121	Environmental Engineering Lab	0	0	2	20	30	50	1	PC
8	DCE58101	Internship	0	0	0	0	100	100	2	PROJ
<b>TOTAL</b>			<b>15</b>	<b>0</b>	<b>4</b>	<b>240</b>	<b>460</b>	<b>700</b>	<b>20</b>	



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**SEMESTER – VI**

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	DCE60122	Design of Steel Structure	3	0	0	40	60	100	3	PC
2	DCE60302	A. Artificial intelligence B. Contract and Accounts C. Renewable Energy Technologies	3	0	0	40	60	100	3	OE
3	DCE60303	A. Environmental and Sustainable Development for Human Survival B. Cyber Security Laws, Standards and IPR C. Robotics	3	0	0	40	60	100	3	OE
4	DCE69123	Surveying Lab II	0	0	2	20	30	50	1	PC
5	DCE58102	Project	0	0	0	40	60	100	6	PROJ
6	DCE58103	Grand Viva-Voce	0	0	0	00	100	100	4	PROJ
7	DAU00002	Indian Constitution	2	0	0	00	00	00	0	AU
<b>TOTAL</b>			<b>11</b>	<b>0</b>	<b>2</b>	<b>180</b>	<b>370</b>	<b>550</b>	<b>20</b>	