



**BRAINWARE UNIVERSITY**  
**SCHOOL OF ENGINEERING**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**Diploma in Mechanical 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 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
<b>TOTAL</b>			<b>12</b>	<b>1</b>	<b>12</b>	<b>340</b>	<b>510</b>	<b>850</b>	<b>19</b>	

**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
<b>TOTAL</b>			<b>16</b>	<b>3</b>	<b>10</b>	<b>300</b>	<b>450</b>	<b>750</b>	<b>22</b>	



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**SEMESTER – III**

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	DME30101	Design of Machine Elements	3	0	0	40	60	100	3	PC
2	DME30102	Manufacturing Engineering	3	0	0	40	60	100	3	PC
3	DME30103	Thermal Engineering-1	3	0	0	40	60	100	3	PC
4	DME30104	Strength of Materials	3	1	0	40	60	100	4	PC
5	DME30105	Materials Science and Engineering	3	0	0	40	60	100	3	PC
6	DME30106	Theory of Machines and Mechanisms	3	1	0	40	60	100	4	PC
7	DME39107	Manufacturing Engineering Lab	0	0	3	40	60	100	1.5	PC
8	DME39108	Materials Science and Engineering lab	0	0	3	40	60	100	1.5	PC
<b>TOTAL</b>			<b>18</b>	<b>2</b>	<b>6</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>23</b>	

**SEMESTER – IV**

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	DME40109	Fluid Mechanics and Machinery	3	0	0	40	60	100	3	PC
2	DME40110	Thermal Engineering – II	3	1	0	40	60	100	4	PC
3	DME40111	Advanced Manufacturing Process	3	0	0	40	60	100	3	PC
4	DME40201	A. Refrigeration and Air-conditioning B. Industrial Robotics and Automation C. Computer Aided Design and Manufacturing D. Automobile Engineering	4	0	0	40	60	100	4	PE
5	DHS00003	Entrepreneurship and Start-ups	3	0	0	40	60	100	3	HS
6	DME49112	Fluid Mechanics and Machinery Lab	0	0	2	20	30	50	1	PC
7	DME49113	Thermal Engineering - II Lab	0	0	3	40	60	100	1.5	PC
8	DME49114	Advanced Manufacturing Process Lab	0	0	3	40	60	100	1.5	PC
9	DAU00003	Essence of Indian Knowledge and Tradition	2	0	0	0	0	0	0	AU
<b>TOTAL</b>			<b>18</b>	<b>1</b>	<b>8</b>	<b>300</b>	<b>450</b>	<b>750</b>	<b>21</b>	



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**SEMESTER – V**

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	DME50115	Metrology and Measurements	3	1	0	40	60	100	4	PC
2	DME50202	A. Heat Transfer B. Power Plant Engineering C. Mechatronics D. Tool Engineering	4	0	0	40	60	100	4	PE
3	DME50203	A. Material Handling Systems B. Computer Integrated Manufacturing C. Hybrid Vehicles D. Total Quality Management	4	0	0	40	60	100	4	PE
4	DME50301	A. Operations Research B. Engineering Economics and Accountancy C. Economic Policies in India	3	0	0	40	60	100	3	OE
5	DME59116	Metrology and Measurements Lab	0	0	2	40	60	100	1	PC
6	DME59117	Machine Drawing Lab	0	0	3	40	60	100	1.5	PC
7	DME59118	Strength of Materials Lab	0	0	3	40	60	100	1.5	PC
8	DME58101	Internship	0	0	0	0	100	100	2	PROJ
9	DME58102	Minor Project	0	0	0	40	60	100	2	PROJ
<b>TOTAL</b>			<b>14</b>	<b>1</b>	<b>8</b>	<b>320</b>	<b>580</b>	<b>900</b>	<b>23</b>	

**SEMESTER – VI**

Sl. No.	Course Code	Course Name	L	T	P	Evaluation Scheme		Total	Credits	Course Type
						CIA	TEE			
1	DME60119	Production Management	3	0	0	40	60	100	3	PC
2	DME60302	A. Renewable Energy B. Artificial Intelligence and Machine Learning C. Energy Conservation and Audit	3	0	0	40	60	100	3	OE
3	DME60303	A. Additive Manufacturing B. Virtual Reality C. Internet of Things	3	0	0	40	60	100	3	OE
4	DME69120	Product, Process and Design analysis	0	0	2	20	30	50	1	PC
5	DME68103	Major Project	0	0	0	40	60	100	4	PROJ
6	DME68104	Grand Viva-Voce	0	0	0	0	100	100	3	PROJ
7	DAU00002	Indian Constitution	2	0	0	0	0	0	0	AU
<b>TOTAL</b>			<b>11</b>	<b>0</b>	<b>2</b>	<b>180</b>	<b>370</b>	<b>550</b>	<b>17</b>	