



BRAINWARE UNIVERSITY
DEPARTMENT OF MECHANICAL ENGINEERING
Diploma in Mechanical Engineering

Mandatory Induction Program (Duration: 1 week)

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

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

Semester I

Course Code	Course Name	L - T - P	Credits	Total Marks
DME101	Communicative English I	2 - 0 - 0	2	100
DME102	Physics I	3 - 1 - 0	2	100
DME103	Chemistry	3 - 1 - 0	2	100
DME104	Mathematics I	3 - 1 - 0	2	100
DME105	Engineering Mechanics	3 - 1 - 0	2	100
DME106	Computer Fundamentals	3 - 1 - 0	2	100
Practical				
DME191	Physics I Lab	0 - 0 - 3	2	50
DME192	Chemistry Lab	0 - 0 - 3	2	50
DME193	Engineering Drawing I	0 - 0 - 3	2	50
DME194	Workshop Practice I	0 - 0 - 3	2	50
DME195	Computer Fundamentals Lab	0 - 0 - 3	2	50
DME181	NSS	0 - 0 - 1	0	00
	Total		22	850

Semester II

Course Code	Course Name	L-T-P	Credits	Total Marks
DME201	Communicative English II	2 - 0 - 0	2	100
DME202	Physics II	3 - 1 - 0	2	100
DME203	Strength of Materials	3 - 1 - 0	2	100
DME204	Mathematics II	3 - 1 - 0	2	100
DME205	Environmental Science	3 - 1 - 0	2	100
DME206	Electrical Technology	3 - 1 - 0	2	100
Practical				
DME291	Communicative English II Lab	0 - 0 - 3	2	50
DME292	Physics II Lab	0 - 0 - 3	2	50
DME294	Engineering Drawing II	0 - 0 - 3	2	50
DME295	Workshop Practice II	0 - 0 - 3	2	50
	Total		20	800



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Semester III

Course Code	Course Name	L-T-P	Credits	Total Marks
DME301	Advanced Strength of Materials	3 - 1 - 0	2	100
DME302	Engineering Materials	3 - 0 - 0	3	100
DME303	Thermal Engineering	3 - 1 - 0	3	100
DME304	Manufacturing Processes	3 - 1 - 0	3	100
DME305	Economics and Accountancy	3 - 0 - 0	2	100
Practical				
DME391	Strength of Materials Lab	0 - 0 - 3	3	100
DME392	Machine Drawing Lab	0 - 0 - 4	2	100
DME393	Manufacturing Processes lab	0 - 0 - 4	2	100
DME381	Professional Practices-1	0 - 0 - 2	2	50
DME382	Development of Life Skills	1-0-0	0	0
	Total		22	850

Semester IV

Course Code	Course Name	L-T-P	Credits	Total Marks
DME401	Fundamental of Electronics	3 - 0 - 0	2	100
DME402	Theory of Machines & Mechanisms	3 - 0 - 0	3	100
DME403	Production Technology	3 - 0 - 0	2	100
DME404	Heat transfer & I C Engine	3 - 0 - 0	3	100
DME405	Fluid Mechanics & Machinery	3 - 0 - 0	3	100
Practical				
DME491	Fundamental of Electronics Lab	0 - 0 - 3	2	50
DME492	Theory of Machines & Mechanisms Lab	0 - 0 - 3	2	100
DME493	Production Technology Lab	0 - 0 - 3	2	100
DME494	Applied Thermodynamics Lab	0 - 0 - 3	2	100
DME495	Applied Fluid Mechanics & Machinery Lab	0 - 0 - 3	2	100
	Total		23	950

Semester V

Course Code	Course Name	L-T-P	Credits	Total Marks
DME501	Advanced Manufacturing Process	3 - 0 - 0	3	100
DME502	Industrial Instrumentation	3 - 0 - 0	3	100
DME503	Metrology & Quality Control	3 - 0 - 0	3	100
DME504	Production Management	3 - 0 - 0	3	100
DME505A/B	Elective I A. Material Handling B. Power Plant Engineering	3 - 0 - 0	3	100
Practical				
DME591	Advanced Manufacturing Process lab	0 - 0 - 3	2	100
DME592	Metrology Lab	0 - 0 - 3	2	100
DME593	IC Engine Lab	0 - 0 - 3	2	100
DME581	Professional Practices- II	0 - 0 - 2	2	50
DME582	Industrial Project I	0 - 0 - 0	3	100
	Total		26	950



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Semester VI

Course Code	Course Name	L-T-P	Credits	Total Marks
DME601	Industrial Engineering	3 - 0 - 0	3	100
DME602	Design of Machine Elements	3 - 0 - 0	3	100
DME603	Principle of Machine Tool	3 - 0 - 0	3	100
DME604	Industrial Robotics and Automation	3 - 0 - 0	3	100
DME605A/B	Elective II # A Refrigeration & Air Conditioning B.CAD-CAM & Automation	3 - 0 - 0	2	100
DME606A/B	Elective III # A Operation Research B Renewable Energy	3 - 0 - 0	2	100
Practical				
DME691	Material Testing Lab	0 - 0 - 3	2	100
DME692A/B	Elective II Lab # A Refrigeration & Air Conditioning Lab B.CAD-CAM & Automation Lab	0 - 0 - 3	2	100
DME681	Professional Practices- III	0 - 0 - 2	2	100
DME682	Industrial Project II	0 - 0 - 0	3	100
DME683	Grand Viva	0 - 0 - 0	2	100
	Total		27	1100

Total Credit -140 Total marks -5500