



# PARUL UNIVERSITY

WAGHODIA, VADODARA

**Subject Teaching Scheme**

**Course:** Diploma | **Curriculum:** ENGG & TECH - Diploma – ME.

## Semester – 1

Subject	Credit	Lecture	Lab	Tutorial
Mathematics 1	3	2	0	1
Communication skill	3	2	2	0
Applied physics	4	3	2	0
Environmental science	0	2	0	0
Engineering graphics	2	0	4	0
Fundamentals of Electrical & Electronics engineering	4	2	2	1
Sports and yoga	1	0	2	0
<b>Total</b>	<b>17</b>	<b>11</b>	<b>14</b>	<b>2</b>



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## Semester – 2

Subject	Credit	Lecture	Lab	Tutorial
Mathematics - 2	4	3	0	1
Engineering mechanics	4	3	2	0
Fundamentals mechanical engineering	3	2	0	1
Communication skill-2	1	0	0	2
Applied chemistry	4	3	2	0
Introduction of IT systems	3	1	4	0
Engineering workshop lab	1	0	4	0
<b>Total</b>	<b>20</b>	<b>12</b>	<b>12</b>	<b>4</b>



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## Semester – 3

Subject	Credit	Lecture	Lab	Tutorial
Basic Mechanical Engineering	4	3	0	1
Computer Aided Machine Drawing Practice	2	0	4	0
Material Science & Engineering	3	3	0	0
Fluid Mechanics & Hydraulic Machinery	4	2	2	1
Manufacturing Engineering	4	3	2	0
Thermal Engineering - I	4	3	2	0
Internship	2	0	0	0
<b>Total</b>	<b>23</b>	<b>14</b>	<b>2</b>	<b>10</b>

**Lect** - Lecture, **Tut** - Tutorial, **Lab** - Lab



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## Semester – 4

Subject	Credit	Lecture	Lab	Tutorial
Measurements & Metrology	4	2	2	1
Strength of Materials	3	2	0	1
Thermal Engineering - II	4.5	2	3	1
Elective-I	3	3	0	0
Elective-II	3	3	0	0
Material Testing Lab	1.5	0	3	0
Minor Project	2	0	4	0
Essence of Indian Knowledge and Tradition	0	2	0	0
<b>Total</b>	<b>21</b>	<b>14</b>	<b>12</b>	<b>3</b>



## Semester – 5

Subject	Credit	Lecture	Lab	Tutorial
Advanced Manufacturing Processes	3	3	0	0
Theory of Machines & Mechanisms	3	2	0	1
Industrial Engineering & Management	3	3	0	0
Elective-I	3	3	0	0
Elective-II	3	3	0	0
Open Elective	3	3	0	0
CAD/CAM Lab	1	0	2	0
Manufacturing Engineering Lab-II	1	0	2	0
Major Project	0	0	2	0
Summer Internship-II	3	0	0	0
<b>Total</b>	<b>23</b>	<b>17</b>	<b>6</b>	<b>1</b>



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## Semester - 6

Subject	Credit	Lecture	Lab	Tutorial
Design of Machine Elements	3	2	0	1
Production & Operations Management	3	3	0	0
Entrepreneurship and Start-ups	4	3	0	1
Open Elective	3	3	0	0
Open Elective	3	3	0	0
Indian Constitution	0	2	0	0
Major Project	4	0	6	0
Seminar	1	1	0	0
<b>Total</b>	<b>21</b>	<b>17</b>	<b>6</b>	<b>2</b>



## Elective Subject

Subject	Credit	Lecture	Lab	Tutorial
Tool Engineering	3	3	0	0
Computer Integrated Manufacturing	3	3	0	0
Computer Aided Design and Manufacturing	3	3	0	0
Industrial Robotics & Automation	3	3	0	0
Heat Transfer	3	3	0	0
Refrigeration & Air-conditioning	3	3	0	0
Automobile Engineering	3	3	0	0
Power Plant Engineering	3	3	0	0
Farm Equipment & Farm Machinery	3	3	0	0
Material Handling Systems	3	3	0	0
Hybrid Vehicles	3	3	0	0
Mechatronics	3	3	0	0