



# PARUL UNIVERSITY

WAGHODIA, VADODARA

**Subject Teaching Scheme**

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

## Semester - 1

Subject	Credit	Lecture	Lab	Tutorial
Mathematics-I	3	2	0	1
Applied Chemistry	3	3	0	0
Communication Skills - I	2	2	0	0
Introduction To It Systems	1	1	0	0
Engineering Graphics	2	0	4	0
Engineering Workshop Practice	2	0	4	0
Sports And Yoga	1	0	2	0
Environmental Science	2	2	0	0
Applied Chemistry Lab	1	0	2	0
Communication Skills - I Lab	1	0	2	0
Introduction To It Systems Lab	2	0	4	0
<b>Total</b>	<b>20</b>	<b>10</b>	<b>18</b>	<b>1</b>

## Semester - 2

Subject	Credit	Lecture	Lab	Tutorial
Mathematics-II	4	3	0	1
Basic Physics	3	3	0	0
Fundamentals Of Electrical & Electronics Engineering	3	2	0	1
Communication Skills - II Lab	0	0	0	0
Elements of Mechanical Engineering	1	1	0	0
Engineering Mechanics	3	3	0	0



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Basic Physics Lab	1	0	2	0
Fundamentals Of Electrical & Electronics Engineering Lab	1	0	2	0
Elements of Mechanical Engineering Lab	1	0	2	0
Engineering Mechanics Lab	1	0	2	0
<b>Total</b>	<b>18</b>	<b>12</b>	<b>8</b>	<b>2</b>

## Semester - 3

Subject	Credit	Lecture	Lab	Tutorial
Introduction To Electric Generation System	3	3	0	0
Introduction To Electric Generation System Laboratory	1	0	2	0
Electrical Circuits	3	2	0	1
Electrical Circuits Lab	1	0	2	0
Electric Motors And Transformers	3	2	0	1
Electrical And Electronics Measurement	3	2	0	1
Electrical And Electronics Measurement Lab	1	0	2	0
Electric Motors And Transformers Lab	1	0	2	0
Renewable Energy Power Plant	3	3	0	0
Renewable Energy Power Plant Lab	1	0	2	0
Entrepreneurship And Start Ups	1	0	2	0
Professional Communication & Life Skill	0	1	2	0
Summer Internship -1	2	0	0	0
<b>Total</b>	<b>23</b>	<b>13</b>	<b>14</b>	<b>3</b>



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

## Semester - 4

Subject	Credit	Lecture	Lab	Tutorial
Fundamental Of Power Electronics	3	3	0	0
Fundamental Of Power Electronics Lab	1	0	2	0
Elective-1	3	3	0	0
Elective-1 Lab	1	0	2	0
Induction, Synchronous and Special Electrical Machines	3	3	0	0
Induction, Synchronous and Special Electrical Machines Lab	1	0	2	0
Elective-2	3	3	0	0
Elective-2 Lab	1	0	2	0
Electric Power Transmission And Distribution	3	3	0	0
Electric Power Transmission And Distribution Lab	1	0	2	0
Employability Skill & Personality Development	0	1	2	0
Minor Project	2	0	4	0
<b>Total</b>	<b>22</b>	<b>16</b>	<b>16</b>	<b>0</b>

## Semester – 4 Programme Elective 1 & 2

Subject
Illumination Practices
Digital Electronics
Solar Power Technologies
Wind Power Technologies
Biomass and Micro Hydro Power Plants



## Semester - 5

Subject	Credit	Lecture	Lab	Tutorial
Microprocessor and Controller Applications	3	3	0	0
Microprocessor and Controller Applications Lab	1	0	2	0
Industrial Drives	3	3	0	0
Program Elective-III	4	3	2	0
Program Elective-IV	4	3	2	0
Project-I	2	0	4	0
Industrial Drives Laboratory	1	0	2	0
Essence Of Indian Knowledge And Tradition	0	2	0	0
Open Elective 1	4	3	2	0
Summer Internship - II (2 Week After Sem-4)	3	0	0	0
<b>Total</b>	<b>24</b>	<b>17</b>	<b>14</b>	<b>0</b>

## Semester – 5 Program Elective 3 & 4

Subject
Industrial Instrumentation and Condition Monitoring
Communication Technologies
Electrical Estimation and Contracting
Electrical Traction

## Semester – 5 Program Open Elective 1

Subject
Energy Conservation and Audit
Renewable Energy Technology



## Semester - 6

Subject	Credit	Lecture	Lab	Tutorial
Building Electrification	3	3	0	0
Switchgear and Protection	3	3	0	0
Program Elective- V	3	3	0	0
Program Elective- VI	3	3	0	0
Building Electrification Lab	1	0	2	0
Switchgear and Protection Lab	1	0	2	0
Computer Aided Electrical Drawing and Simulation	2	0	4	0
Project-II	2	0	4	0
Indian Constitution	0	2	0	0
Seminar	1	0	2	0
<b>Total</b>	<b>19</b>	<b>14</b>	<b>14</b>	<b>0</b>

## Semester – 6 Program Elective- V & VI

Subject
Industrial Automation and Control
Electrical Testing And Commissioning
Electric Vehicles