



PARUL UNIVERSITY

WAGHODIA, VADODARA

Subject Teaching Scheme

Course: Diploma | **Curriculum:** ENGG & TECH - Diploma – MT

Semester - 1

Subject	Credit	Lecture	Lab	Tutorial
Environmental Science	0	2	0	0
Engineering Mechanics	3	3	0	0
Engineering Mechanics Lab	1	0	2	0
Mathematics I	3	2	0	1
Basic Physics	3	3	0	0
Basic Physics Lab	1	0	2	0
Applied Chemistry	3	3	0	0
Applied Chemistry Lab	1	0	2	0
Communication Skills - I	1	1	0	0
Total	16	14	6	1

Semester - 2

Subject	Credit	Lecture	Lab	Tutorial
Fundamentals of Electrical and Electronics Engineering	3	3	0	0
Fundamentals of Electrical and Electronics Engineering Lab	1	0	2	0
Introduction to IT Systems	1	1	0	0
Introduction to IT Systems Lab	2	0	4	0
Engineering Workshop Practice Lab	2	0	4	0
Fundamentals of Mechanical Engineering	3	3	0	0
Engineering Graphics Lab	2	0	4	0
Mathematics-II	4	3	0	1
Communication Skills – II	1	1	0	0
Total	19	11	14	1



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Semester - 3

Subject	Credit	Lecture	Lab	Tutorial
Entrepreneurship and Start-ups	1	1	0	0
Materials Engineering	3	3	0	0
Materials Engineering Lab	1	0	2	0
Analog and Digital Electronics	3	3	0	0
Analog and Digital Electronics Lab	1	0	2	0
Electrical Machines	3	3	0	0
Electrical Machines Lab	1	0	2	0
Control Engineering	3	3	0	0
Control Engineering Lab	1	0	2	0
Professional Communication & Life skill	1	1	0	0
Summer Internship-I	2	0	0	0
Total	19	14	8	0

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



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Semester - 4

Subject	Credit	Lecture	Lab	Tutorial
Essence of Indian Knowledge and Tradition	0	2	0	0
Manufacturing Process	3	3	0	0
Manufacturing Process Lab	1	0	2	0
Basics of Signals and Systems	3	3	0	0
Basics of Signals and Systems Lab	1	0	2	0
Theory of Machines	3	3	0	0
Theory of Machines Lab	1	0	2	0
Microprocessor and Microcontroller	3	3	0	0
Microprocessor and Microcontroller Lab	1	0	2	0
Power Electronics	3	3	0	0
Power Electronics Lab	1	0	2	0
Sensors and Transducers Lab	1	0	2	0
Total	21	17	12	0



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Semester - 5

Subject	Credit	Lecture	Lab	Tutorial
Hydraulic and Pneumatic Systems	3	3	0	0
Hydraulic and Pneumatic Systems Lab	1	0	2	0
Industrial Automation	3	3	0	0
Industrial Automation Lab	1	0	2	0
Project I	2	0	4	0
Summer Internship 2 (6 Weeks After Sem-4)	3	0	0	0
Open Elective-I (Compulsory Subjects :1)	3	3	0	0
Program Elective - I (Compulsory Subjects :1)	3	3	0	0
Program Elective – II (Compulsory Subjects :1)	1	0	2	0
Program Elective Lab- I (Compulsory Subjects :1)	3	3	0	0
Program Elective Lab – II (Compulsory Subjects :1)	1	0	2	0
Total	24	15	12	0

Semester – 5 : Program Elective I

Subject	Credit	Lecture	Lab	Tutorial
Advanced Manufacturing Systems	3	3	0	0
Advanced Manufacturing Systems Lab	1	0	2	0
Advanced Control Systems	3	3	0	0
Advanced Control Systems Lab	1	0	2	0



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Semester – 5 : Program Elective II

Subject	Credit	Lecture	Lab	Tutorial
Internet of Things	3	3	0	0
Internet of Things Lab	1	0	2	0
Process Control	3	3	0	0
Process Control Lab	1	0	2	0

Semester – 5 : Open Elective I

Subject	Credit	Lecture	Lab	Tutorial
Cyber Security	3	3	0	0
Fundamentals of Management	3	3	0	0



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Semester - 6

Subject	Credit	Lecture	Lab	Tutorial
Indian Constitution	0	2	0	0
Robotics Engineering	3	3	0	0
Robotics Engineering Lab	1	0	2	0
Seminar	1	0	2	0
Project II	2	0	4	0
Open Elective-II (Compulsory Subjects :1)	3	3	0	0
Program Elective - III (Compulsory Subjects :1)	3	3	0	0
Program Elective Lab – III (Compulsory Subjects :1)	1	0	2	0
Total	14	11	10	0

Semester – 6 : Open Elective II

Subject	Credit	Lecture	Lab	Tutorial
Product Design	3	3	0	0
Operations Research	3	3	0	0

Semester– 6 Programme Elective III

Subject	Credit	Lecture	Lab	Tutorial
Computer Integrated Manufacturing	3	3	0	0
Computer Integrated Manufacturing Lab	1	0	2	0
Mechatronics System Design	3	3	0	0
Mechatronics System Design Lab	1	0	2	0
Artificial Intelligence	3	3	0	0



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Artificial Intelligence Lab	1	0	2	0
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