

Complete Subject Directory (All 4 Semesters)

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Preface: This document outlines the standard 4-semester curriculum structure for various Diploma in Engineering disciplines. This structure is designed to provide a comprehensive view of the academic progression from foundational sciences to specialized core subjects.

1. Diploma in Civil Engineering

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CE1001	English Communication	3	2	60	40	100	4
CE1002	Applied Mathematics-I	4	-	100	-	100	4
CE1003	Applied Physics-I	3	2	60	40	100	4
CE1004	Applied Chemistry	3	2	60	40	100	4
CE1005	Engineering Graphics	1	4	30	70	100	3
CE1006	Construction Materials	3	-	100	-	100	3
CE1007	General Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CE2001	Applied Mathematics-II	4	-	100	-	100	4
CE2002	Applied Physics-II	3	2	60	40	100	4
CE2003	Applied Mechanics	3	2	60	40	100	4
CE2004	Building Construction	3	-	100	-	100	3
CE2005	Basic Surveying	3	4	60	40	100	5
CE2006	Computer Aided Drawing (CAD)	-	4	-	50	50	2
CE2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CE3001	Building Planning & Drawing	2	4	40	60	100	4
CE3002	Hydraulics	3	2	60	40	100	4
CE3003	Concrete Technology	3	2	60	40	100	4
CE3004	Structural Mechanics	3	2	60	40	100	4
CE3005	Advanced Surveying	3	4	60	40	100	5
CE3006	Construction Tech. Lab	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CE4001	Theory of Structures	3	-	100	-	100	3
CE4002	Transportation Engineering	3	2	60	40	100	4
CE4003	Water Resources Engineering	3	2	60	40	100	4
CE4004	Estimating & Costing	3	2	60	40	100	4
CE4005	Elective-I (Rural Engg)	3	-	100	-	100	3
CE4006	Civil Engineering Workshop	-	4	-	50	50	2
CE4007	Entrepreneurship Development	2	-	50	-	50	2

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2. Diploma in Mechanical Engineering

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ME1001	English Communication	3	2	60	40	100	4
ME1002	Applied Mathematics-I	4	-	100	-	100	4
ME1003	Applied Physics-I	3	2	60	40	100	4
ME1004	Applied Chemistry	3	2	60	40	100	4
ME1005	Engineering Graphics	1	4	30	70	100	3
ME1006	Engineering Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ME2001	Applied Mathematics-II	4	-	100	-	100	4
ME2002	Applied Physics-II	3	2	60	40	100	4
ME2003	Engineering Mechanics	3	2	60	40	100	4
ME2004	Material Science	3	2	60	40	100	4
ME2005	Mechanical Drafting	1	4	30	70	100	3
ME2006	Workshop Practice-II	-	4	-	50	50	2

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ME3001	Strength of Materials	3	2	60	40	100	4
ME3002	Thermal Engineering-I	3	2	60	40	100	4
ME3003	Manufacturing Technology	3	4	60	40	100	5
ME3004	Basic Electrical & Electronics	3	2	60	40	100	4
ME3005	Metrology & Quality Control	3	2	60	40	100	4
ME3006	Mechanical Lab	-	4	-	50	50	2

Semester 4 (Specialization)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ME4001	Theory of Machines	3	2	60	40	100	4
ME4002	Thermal Engineering-II	3	2	60	40	100	4
ME4003	Fluid Mechanics & Machinery	3	2	60	40	100	4
ME4004	Industrial Engineering	3	-	100	-	100	3
ME4005	Elective-I (Power Plant)	3	-	100	-	100	3
ME4006	CAD/CAM Lab	-	4	-	50	50	2

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3. Diploma in Electrical Engineering

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
EE1001	English Communication	3	-	60	40	100	4
EE1002	Applied Mathematics-I	4	-	100	-	100	4
EE1003	Applied Physics-I	3	2	60	40	100	4
EE1004	Applied Chemistry	3	2	60	40	100	4
EE1005	Engineering Drawing	1	4	30	70	100	3
EE1006	Basic Electrical Engineering	3	-	100	-	100	3
EE1007	General Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
EE2001	Applied Mathematics-II	4	-	100	-	100	4
EE2002	Applied Physics-II	3	2	60	40	100	4
EE2003	Network Analysis & Synthesis	3	2	60	40	100	4
EE2004	Electrical Machines-I	3	-	100	-	100	3
EE2005	Digital Electronics	3	4	60	40	100	5
EE2006	Electrical Workshop	-	4	-	50	50	2
EE2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
EE3001	Electrical Measurements & Inst.	2	4	40	60	100	4
EE3002	Electrical Machines-II	3	2	60	40	100	4
EE3003	Power Electronics	3	2	60	40	100	4
EE3004	Control Systems	3	2	60	40	100	4
EE3005	Microprocessor Applications &	3	4	60	40	100	5
EE3006	Electrical Design Lab	-	4	-	50	50	2

Semester 4 (Specialization)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
EE4001	Power System-I (Gen. & Trans.)	3	-	100	-	100	3
EE4002	Utilization of Electrical Energy	3	2	60	40	100	4
EE4003	Industrial Electronics & Control	3	2	60	40	100	4
EE4004	Electrical Installation & Estimation	3	2	60	40	100	4
EE4005	Elective-I (Renewable Energy)	3	-	100	-	100	3
EE4006	Project Work	-	6	-	100	100	4

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4. Diploma in Computer Engineering

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CRE1001	English Communication	3	-	60	40	100	4
CRE1002	Applied Mathematics-I	4	-	100	-	100	4
CRE1003	Applied Physics-I	3	2	60	40	100	4
CRE1004	Applied Chemistry	3	2	60	40	100	4
CRE1005	Engineering Drawing	1	4	30	70	100	3
CRE1006	Fundamentals of Computer	3	-	100	-	100	3
CRE1007	Computer Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CE2001	Applied Mathematics-II	4	-	100	-	100	4
CE2002	Applied Physics-II	3	2	60	40	100	4
CE2003	Programming in C	3	2	60	40	100	4
CE2004	Digital Electronics	3	-	100	-	100	3
CE2005	Computer Organization & Architecture	3	4	60	40	100	5
CE2006	Web Technology Lab	-	4	-	50	50	2
CE2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
EE3001	Electrical Measurements & Inst.	2	4	40	60	100	4
EE3002	Electrical Machines-II	3	2	60	40	100	4
EE3003	Power Electronics	3	2	60	40	100	4
EE3004	Control Systems	3	2	60	40	100	4
EE3005	Microprocessor & Applications	3	4	60	40	100	5
EE3006	Electrical Design Lab	-	4	-	50	50	2

Semester 4 (Specialization)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
EE4001	Power System-I (Gen. & Trans.)	3	-	100	-	100	3
EE4002	Utilization of Electrical Energy	3	2	60	40	100	4
EE4003	Industrial Electronics & Control	3	2	60	40	100	4
EE4004	Electrical Installation & Estimation	3	2	60	40	100	4
EE4005	Elective-I (Renewable Energy)	3	-	100	-	100	3
EE4006	Project Work	-	6	-	100	100	4

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5. Diploma in Electronics & Communication Engineering

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
EC1001	English Communication	3	-	60	40	100	4
EC1002	Applied Mathematics-I	4	-	100	-	100	4
EC1003	Applied Physics-I	3	2	60	40	100	4
EC1004	Applied Chemistry	3	2	60	40	100	4
EC1005	Engineering Drawing	1	4	30	70	100	3
EC1006	Basic Electronics	3	-	100	-	100	3
EC1007	Electronics Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

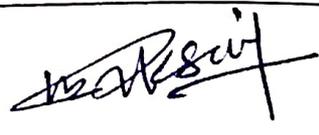
Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
EC2001	Applied Mathematics-II	4	-	100	-	100	4
EC2002	Applied Physics-II	3	2	60	40	100	4
EC2003	Analog Electronics	3	2	60	40	100	4
EC2004	Digital Electronics	3	-	100	-	100	3
EC2005	Network Analysis & Synthesis	3	4	60	40	100	5
EC2006	Electronics Workshop	-	4	-	50	50	2
EC2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
EC3001	Electronic Devices & Circuits	2	4	40	60	100	4
EC3002	Communication Systems	3	2	60	40	100	4
EC3003	Microprocessor & Microcontroller	3	2	60	40	100	4
EC3004	Linear Integrated Circuits	3	2	60	40	100	4
EC3005	Digital Signal Processing	3	4	60	40	100	5
EC3006	Communication Lab	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
EC4001	Antenna & Wave Propagation	3	-	100	-	100	3
EC4002	Microwave & Radar Engineering	3	2	60	40	100	4
EC4003	Mobile & Satellite Communication	3	2	60	40	100	4
EC4004	Optical Fiber Communication	3	2	60	40	100	4
EC4005	Elective-I (VLSI Design)	3	-	100	-	100	3
EC4006	Project Work	-	6	-	100	100	4

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6. Diploma in Information Technology

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IT1001	English Communication	3	-	60	40	100	4
IT1002	Applied Mathematics-I	4	-	100	-	100	4
IT1003	Applied Physics-I	3	2	60	40	100	4
IT1004	Applied Chemistry	3	2	60	40	100	4
IT1005	Engineering Drawing	1	4	30	70	100	3
IT1006	Fundamentals of IT	3	-	100	-	100	3
IT1007	IT Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IT2001	Applied Mathematics-II	4	-	100	-	100	4
IT2002	Applied Physics-II	3	2	60	40	100	4
IT2003	Programming in C & C++	3	2	60	40	100	4
IT2004	Digital Electronics & Logic Design	3	-	100	-	100	3
IT2005	Data Structures & Algorithms	3	4	60	40	100	5
IT2006	Web Design Lab	-	4	-	50	50	2
IT2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IT3001	Database Management System	2	4	40	60	100	4
IT3002	Object Oriented Programming (Java)	3	2	60	40	100	4
IT3003	Operating Systems	3	2	60	40	100	4
IT3004	Computer Networks	3	2	60	40	100	4
IT3005	Web Technologies	3	4	60	40	100	5
IT3006	Software Engineering Lab	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IT4001	Software Engineering	3	-	100	-	100	3
IT4002	Python Programming	3	2	60	40	100	4
IT4003	Mobile Application Development	3	2	60	40	100	4
IT4004	Cloud Computing & IoT	3	2	60	40	100	4
IT4005	Elective-I (Cyber Security)	3	-	100	-	100	3
IT4006	Project Work	-	6	-	100	100	4

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7. Diploma in Automobile Engineering

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AU1001	English Communication	3	-	60	40	100	4
AU1002	Applied Mathematics-I	4	-	100	-	100	4
AU1003	Applied Physics-I	3	2	60	40	100	4
AU1004	Applied Chemistry	3	2	60	40	100	4
AU1005	Engineering Drawing	1	4	30	70	100	3
AU1006	Basic Automobile Engineering	3	-	100	-	100	3
AU1007	Automobile Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AU2001	Applied Mathematics-II	4	-	100	-	100	4
AU2002	Applied Physics-II	3	2	60	40	100	4
AU2003	Applied Mechanics	3	2	60	40	100	4
AU2004	Thermal Engineering	3	-	100	-	100	3
AU2005	Automobile Electrical & Electronics	3	4	60	40	100	5
AU2006	Automobile Materials Lab	-	4	-	50	50	2
AU2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AU3001	Automobile Engine	2	4	40	60	100	4
AU3002	Automobile Chassis & Transmission	3	2	60	40	100	4
AU3003	Automobile Electrical System	3	2	60	40	100	4
AU3004	Automobile Air Conditioning	3	2	60	40	100	4
AU3005	Vehicle Dynamics & Control	3	4	60	40	100	5
AU3006	Automobile Workshop Lab	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AU4001	Automobile Design & Manufacturing	3	-	100	-	100	3
AU4002	Two & Three Wheeler Technology	3	2	60	40	100	4
AU4003	Heavy Vehicle & Tractor Technology	3	2	60	40	100	4
AU4004	Automobile Service & Maintenance	3	2	60	40	100	4
AU4005	Elective-I (Hybrid & Electric Vehicles)	3	-	100	-	100	3
AU4006	Project Work	-	6	-	100	100	4

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8. Diploma in Architecture Assistantship

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AA1001	English Communication	3	-	60	40	100	4
AA1002	Applied Mathematics-I	4	-	100	-	100	4
AA1003	Applied Physics-I	3	2	60	40	100	4
AA1004	Applied Chemistry	3	2	60	40	100	4
AA1005	Architectural Drawing-I	1	4	30	70	100	3
AA1006	Building Construction-I	3	-	100	-	100	3
AA1007	Model Making Workshop	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AA2001	Applied Mathematics-II	4	-	100	-	100	4
AA2002	Applied Physics-II	3	2	60	40	100	4
AA2003	Architectural Drawing-II	3	2	60	40	100	4
AA2004	Building Construction-II	3	-	100	-	100	3
AA2005	Computer Aided Design (AutoCAD)	3	4	60	40	100	5
AA2006	Building Materials Lab	-	4	-	50	50	2
AA2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AA3001	Architectural Design-I	2	4	40	60	100	4
AA3002	Building Services & Utilities	3	2	60	40	100	4
AA3003	Structural Design	3	2	60	40	100	4
AA3004	Surveying	3	2	60	40	100	4
AA3005	3D Visualization (SketchUp)	3	4	60	40	100	5
AA3006	Working Drawing Lab	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AA4001	Architectural Design-II	3	-	100	-	100	3
AA4002	Estimating & Costing	3	2	60	40	100	4
AA4003	Landscape Architecture	3	2	60	40	100	4
AA4004	Building Bye-Laws & Specifications	3	2	60	40	100	4
AA4005	Elective-I (Interior Design)	3	-	100	-	100	3
AA4006	Project Work	-	6	-	100	100	4

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9. Diploma in AI & Machine Learning

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AI1001	English Communication	3	-	60	40	100	4
AI1002	Applied Mathematics-I	4	-	100	-	100	4
AI1003	Applied Physics-I	3	2	60	40	100	4
AI1004	Applied Chemistry	3	2	60	40	100	4
AI1005	Programming Fundamentals (Python)	1	4	30	70	100	3
AI1006	Fundamentals of AI & ML	3	-	100	-	100	3
AI1007	Python Programming Lab	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AI2001	Applied Mathematics-II	4	-	100	-	100	4
AI2002	Applied Physics-II	3	2	60	40	100	4
AI2003	Data Structures & Algorithms	3	2	60	40	100	4
AI2004	Statistics & Probability	3	-	100	-	100	3
AI2005	Database Management System	3	4	60	40	100	5
AI2006	Data Visualization Lab	-	4	-	50	50	2
AI2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AI3001	Machine Learning Fundamentals	2	4	40	60	100	4
AI3002	Deep Learning	3	2	60	40	100	4
AI3003	Natural Language Processing	3	2	60	40	100	4
AI3004	Computer Vision	3	2	60	40	100	4
AI3005	Big Data Analytics	3	4	60	40	100	5
AI3006	ML Model Development Lab	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AI4001	Artificial Intelligence	3	-	100	-	100	3
AI4002	Reinforcement Learning	3	2	60	40	100	4
AI4003	AI Ethics & Responsible AI	3	2	60	40	100	4
AI4004	MLOps & Model Deployment	3	2	60	40	100	4
AI4005	Elective-I (Generative AI)	3	-	100	-	100	3
AI4006	Project Work	-	6	-	100	100	4

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10. Diploma in Data Science

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
DS1001	English Communication	3	-	60	40	100	4
DS1002	Applied Mathematics-I	4	-	100	-	100	4
DS1003	Applied Physics-I	3	2	60	40	100	4
DS1004	Applied Chemistry	3	2	60	40	100	4
DS1005	Programming Fundamentals (Python)	1	4	30	70	100	3
DS1006	Introduction to Data Science	3	-	100	-	100	3
DS1007	Python Programming Lab	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
DS2001	Applied Mathematics-II	4	-	100	-	100	4
DS2002	Applied Physics-II	3	2	60	40	100	4
DS2003	Data Structures & Algorithms	3	2	60	40	100	4
DS2004	Statistics & Probability	3	-	100	-	100	3
DS2005	Database Management System	3	4	60	40	100	5
DS2006	Data Visualization Lab	-	4	-	50	50	2
DS2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
DS3001	Data Mining & Warehousing	2	4	40	60	100	4
DS3002	Machine Learning for Data Science	3	2	60	40	100	4
DS3003	Data Analytics & Business Intelligence	3	2	60	40	100	4
DS3004	Predictive Analytics	3	2	60	40	100	4
DS3005	Big Data Analytics	3	4	60	40	100	5
DS3006	Data Science Project Lab	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
DS4001	Advanced Statistical Methods	3	-	100	-	100	3
DS4002	Deep Learning for Data Science	3	2	60	40	100	4
DS4003	Data Science for Business	3	2	60	40	100	4
DS4004	Cloud Computing & Data Engineering	3	2	60	40	100	4
DS4005	Elective-I (Natural Language Processing)	3	-	100	-	100	3

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11. Diploma in Cyber Security

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CS1001	English Communication	3	-	60	40	100	4
CS1002	Applied Mathematics-I	4	-	100	-	100	4
CS1003	Applied Physics-I	3	2	60	40	100	4
CS1004	Applied Chemistry	3	2	60	40	100	4
CS1005	Programming Fundamentals (Python)	1	4	30	70	100	3
CS1006	Introduction to Cyber Security	3	-	100	-	100	3
CS1007	Cyber Security Lab	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CS2001	Applied Mathematics-II	4	-	100	-	100	4
CS2002	Applied Physics-II	3	2	60	40	100	4
CS2003	Computer Networks & Security	3	2	60	40	100	4
CS2004	Operating Systems & Security	3	-	100	-	100	3
CS2005	Cryptography & Network Security	3	4	60	40	100	5
CS2006	Security Tools Lab	-	4	-	50	50	2
CS2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CS3001	Ethical Hacking & Penetration Testing	2	4	40	60	100	4
CS3002	Web Application Security	3	2	60	40	100	4
CS3003	Malware Analysis & Reverse Engineering	3	2	60	40	100	4
CS3004	Digital Forensics & Incident Response	3	2	60	40	100	4
CS3005	Cyber Laws & Information Security	3	4	60	40	100	5
CS3006	Penetration Testing Lab	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CS4001	Advanced Network Security	3	-	100	-	100	3
CS4002	Cloud Security & Virtualization	3	2	60	40	100	4
CS4003	IoT Security & Privacy	3	2	60	40	100	4
CS4004	Security Operations Center (SOC)	3	2	60	40	100	4
CS4005	Elective-I (Blockchain Security)	3	-	100	-	100	3
CS4006	Project Work	-	6	-	100	100	4

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12. Diploma in Cloud Computing

Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CC1001	English Communication	3	-	60	40	100	4
CC1002	Applied Mathematics-I	4	-	100	-	100	4
CC1003	Applied Physics-I	3	2	60	40	100	4
CC1004	Applied Chemistry	3	2	60	40	100	4
CC1005	Programming Fundamentals (Python)	1	4	30	70	100	3
CC1006	Introduction to Cloud Computing	3	-	100	-	100	3
CC1007	Cloud Computing Lab	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CC2001	Applied Mathematics-II	4	-	100	-	100	4
CC2002	Applied Physics-II	3	2	60	40	100	4
CC2003	Computer Networks & Protocols	3	2	60	40	100	4
CC2004	Operating Systems & Virtualization	3	-	100	-	100	3
CC2005	Database Management System	3	4	60	40	100	5
CC2006	Linux Administration Lab	-	4	-	50	50	2
CC2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CC3001	Cloud Infrastructure & Services	2	4	40	60	100	4
CC3002	Cloud Platform Services (AWS/Azure)	3	2	60	40	100	4
CC3003	Cloud Storage & Database	3	2	60	40	100	4
CC3004	Cloud Security & Compliance	3	2	60	40	100	4
CC3005	DevOps & Automation	3	4	60	40	100	5
CC3006	Cloud Deployment Lab	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CC4001	Advanced Cloud Architecture	3	-	100	-	100	3
CC4002	Container & Orchestration (Docker/Kubernetes)	3	2	60	40	100	4
CC4003	Serverless Computing & Micro services	3	2	60	40	100	4
CC4004	Cloud Cost Optimization & Management	3	2	60	40	100	4
CC4005	Elective-I (Multi-Cloud Strategy)	3	-	100	-	100	3
CC4006	Project Work	-	6	-	100	100	4

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13. Diploma in Blockchain Technology

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
BT1001	English Communication	3	-	60	40	100	4
BT1002	Applied Mathematics-I	4	-	100	-	100	4
BT1003	Applied Physics-I	3	2	60	40	100	4
BT1004	Applied Chemistry	3	2	60	40	100	4
BT1005	Programming Fundamentals (Python)	1	4	30	70	100	3
BT1006	Introduction to Blockchain Technology	3	-	100	-	100	3
BT1007	Blockchain Lab	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
BT2001	Applied Mathematics-II	4	-	100	-	100	4
BT2002	Applied Physics-II	3	2	60	40	100	4
BT2003	Cryptography & Network Security	3	2	60	40	100	4
BT2004	Data Structures & Algorithms	3	-	100	-	100	3
BT2005	Database Management System	3	4	60	40	100	5
BT2006	Smart Contracts Lab	-	4	-	50	50	2
BT2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
BT3001	Blockchain Architecture & Design	2	4	40	60	100	4
BT3002	Smart Contracts & Daps Development	3	2	60	40	100	4
BT3003	Ethereal & Solidity Programming	3	2	60	40	100	4
BT3004	Consensus Mechanisms & Mining	3	2	60	40	100	4
BT3005	Blockchain Security & Privacy	3	4	60	40	100	5
BT3006	Blockchain Development Lab	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
BT4001	Advanced Blockchain Platforms	3	-	100	-	100	3
BT4002	Decentralized Finance (Deify)	3	2	60	40	100	4
BT4003	NFT & Tokenization	3	2	60	40	100	4
BT4004	Blockchain for Enterprise	3	2	60	40	100	4
BT4005	Elective-I (Hyper ledger Fabric)	3	-	100	-	100	3
BT4006	Project Work	-	6	-	100	100	4

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14. Diploma in Internet of Things (IoT)

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IoT1001	English Communication	3	-	60	40	100	4
IoT1002	Applied Mathematics-I	4	-	100	-	100	4
IoT1003	Applied Physics-I	3	2	60	40	100	4
IoT1004	Applied Chemistry	3	2	60	40	100	4
IoT1005	Programming Fundamentals (Python)	1	4	30	70	100	3
IoT1006	Introduction to Internet of Things	3	-	100	-	100	3
IoT1007	IoT Hardware Lab	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IoT2001	Applied Mathematics-II	4	-	100	-	100	4
IoT2002	Applied Physics-II	3	2	60	40	100	4
IoT2003	Sensors & Actuators	3	2	60	40	100	4
IoT2004	Microcontrollers & Embedded Systems	3	-	100	-	100	3
IoT2005	IoT Networking & Protocols	3	4	60	40	100	5
IoT2006	Arduino & Raspberry Pi Lab	-	4	-	50	50	2
IoT2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IoT3001	IoT Architecture & Design	2	4	40	60	100	4
IoT3002	Cloud Computing for IoT	3	2	60	40	100	4
IoT3003	IoT Data Analytics & Big Data	3	2	60	40	100	4
IoT3004	IoT Security & Privacy	3	2	60	40	100	4
IoT3005	Wireless Communication Technologies	3	4	60	40	100	5
IoT3006	IoT Application Development Lab	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IoT4001	Industrial IoT & Automation	3	-	100	-	100	3
IoT4002	Smart Cities & Smart Homes	3	2	60	40	100	4
IoT4003	AI & Machine Learning for IoT	3	2	60	40	100	4
IoT4004	Edge Computing & Fog Computing	3	2	60	40	100	4
IoT4005	Elective-I (Healthcare IoT)	3	-	100	-	100	3
IoT4006	Project Work	-	6	-	100	100	4

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15. Diploma in Robotics & Automation

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
RA1001	English Communication	3	-	60	40	100	4
RA1002	Applied Mathematics-I	4	-	100	-	100	4
RA1003	Applied Physics-I	3	2	60	40	100	4
RA1004	Basic Electronics	3	2	60	40	100	4
RA1005	Engineering Drawing & CAD	1	4	30	70	100	3
RA1006	Introduction to Robotics & Automation	3	-	100	-	100	3
RA1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
RA2001	Applied Mathematics-II	4	-	100	-	100	4
RA2002	Applied Physics-II	3	2	60	40	100	4
RA2003	Digital Electronics & Microprocessor	3	2	60	40	100	4
RA2004	Electric Circuits & Machines	3	-	100	-	100	3
RA2005	Sensors & Transducers	3	4	60	40	100	5
RA2006	Robotics Lab-I	-	4	-	50	50	2
RA2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
RA3001	Industrial Automation & PLC	2	4	40	60	100	4
RA3002	Robotics Kinematics & Dynamics	3	2	60	40	100	4
RA3003	Microcontroller & Embedded Systems	3	2	60	40	100	4
RA3004	Control Systems & Instrumentation	3	2	60	40	100	4
RA3005	Pneumatics & Hydraulics	3	4	60	40	100	5
RA3006	Automation Lab-I	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
RA4001	Industrial Robotics & Applications	3	-	100	-	100	3
RA4002	SCADA & HMI Systems	3	2	60	40	100	4
RA4003	Artificial Intelligence & Machine Vision	3	2	60	40	100	4
RA4004	IoT & Industry 4.0	3	2	60	40	100	4
RA4005	Elective-I (Collaborative Robots)	3	-	100	-	100	3
RA4006	Project Work	-	6	-	100	100	4

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16. Diploma in Cyber Security

Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CS1001	English Communication	3	-	60	40	100	4
CS1002	Applied Mathematics-I	4	-	100	-	100	4
CS1003	Applied Physics-I	3	2	60	40	100	4
CS1004	Applied Chemistry	3	2	60	40	100	4
CS1005	Programming Fundamentals (Python)	1	4	30	70	100	3
CS1006	Introduction to Cyber Security	3	-	100	-	100	3
CS1007	Cyber Security Lab	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CS2001	Applied Mathematics-II	4	-	100	-	100	4
CS2002	Applied Physics-II	3	2	60	40	100	4
CS2003	Computer Networks & Security	3	2	60	40	100	4
CS2004	Operating Systems & Security	3	-	100	-	100	3
CS2005	Cryptography & Network Security	3	4	60	40	100	5
CS2006	Security Tools Lab	-	4	-	50	50	2
CS2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CS3001	Ethical Hacking & Penetration Testing	2	4	40	60	100	4
CS3002	Web Application Security	3	2	60	40	100	4
CS3003	Malware Analysis & Reverse Engineering	3	2	60	40	100	4
CS3004	Digital Forensics & Incident Response	3	2	60	40	100	4
CS3005	Cyber Laws & Information Security	3	4	60	40	100	5
CS3006	Penetration Testing Lab	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CS4001	Advanced Network Security	3	-	100	-	100	3
CS4002	Cloud Security & Virtualization	3	2	60	40	100	4
CS4003	IoT Security & Privacy	3	2	60	40	100	4
CS4004	Security Operations Center (SOC)	3	2	60	40	100	4
CS4005	Elective-I (Blockchain Security)	3	-	100	-	100	3
CS4006	Project Work	-	6	-	100	100	4

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17. Diploma in Mechatronics Engineering

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ME1001	English Communication	3	-	60	40	100	4
ME1002	Applied Mathematics-I	4	-	100	-	100	4
ME1003	Applied Physics-I	3	2	60	40	100	4
ME1004	Basic Electronics	3	2	60	40	100	4
ME1005	Engineering Drawing & CAD	1	4	30	70	100	3
ME1006	Introduction to Mechatronics	3	-	100	-	100	3
ME1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ME2001	Applied Mathematics-II	4	-	100	-	100	4
ME2002	Applied Physics-II	3	2	60	40	100	4
ME2003	Engineering Mechanics	3	2	60	40	100	4
ME2004	Digital Electronics & Microprocessor	3	-	100	-	100	3
ME2005	Manufacturing Processes	3	4	60	40	100	5
ME2006	Mechatronics Lab-I	-	4	-	50	50	2
ME2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ME3001	Robotics & Automation	2	4	40	60	100	4
ME3002	Control Systems & Instrumentation	3	2	60	40	100	4
ME3003	Microcontroller & Embedded Systems	3	2	60	40	100	4
ME3004	Sensors & Actuators	3	2	60	40	100	4
ME3005	Pneumatics & Hydraulics	3	4	60	40	100	5
ME3006	Mechatronics Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ME4001	Industrial Automation & PLC	3	-	100	-	100	3
ME4002	SCADA & HMI Systems	3	2	60	40	100	4
ME4003	Machine Vision & AI	3	2	60	40	100	4
ME4004	Mechatronics System Design	3	2	60	40	100	4
ME4005	Elective-I (CNC & CAM)	3	-	100	-	100	3
ME4006	Project Work	-	6	-	100	100	4

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18. Diploma in Industrial Automation

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IA1001	English Communication	3	-	60	40	100	4
IA1002	Applied Mathematics-I	4	-	100	-	100	4
IA1003	Applied Physics-I	3	2	60	40	100	4
IA1004	Basic Electrical & Electronics	3	2	60	40	100	4
IA1005	Engineering Drawing & CAD	1	4	30	70	100	3
IA1006	Introduction to Industrial Automation	3	-	100	-	100	3
IA1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IA2001	Applied Mathematics-II	4	-	100	-	100	4
IA2002	Applied Physics-II	3	2	60	40	100	4
IA2003	Digital Electronics & Microcontroller	3	2	60	40	100	4
IA2004	Electrical Machines & Drives	3	-	100	-	100	3
IA2005	Sensors & Transducers	3	4	60	40	100	5
IA2006	Automation Lab-I	-	4	-	50	50	2
IA2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IA3001	Programmable Logic Controller (PLC)	2	4	40	60	100	4
IA3002	SCADA & HMI Systems	3	2	60	40	100	4
IA3003	Industrial Instrumentation	3	2	60	40	100	4
IA3004	Control Systems Engineering	3	2	60	40	100	4
IA3005	Pneumatics & Hydraulics	3	4	60	40	100	5
IA3006	Automation Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IA4001	Industrial Robotics	3	-	100	-	100	3
IA4002	Industrial Networks & Communication	3	2	60	40	100	4
IA4003	Process Control & Automation	3	2	60	40	100	4
IA4004	IoT & Industry 4.0	3	2	60	40	100	4
IA4005	Elective-I (DCS & Field Bus)	3	-	100	-	100	3
IA4006	Project Work	-	6	-	100	100	4

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19. Diploma in Production Engineering

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PR1001	English Communication	3	-	60	40	100	4
PR1002	Applied Mathematics-I	4	-	100	-	100	4
PR1003	Applied Physics-I	3	2	60	40	100	4
PR1004	Applied Chemistry	3	2	60	40	100	4
PR1005	Engineering Drawing & Graphics	1	4	30	70	100	3
PR1006	Introduction to Production Engineering	3	-	100	-	100	3
PR1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PR2001	Applied Mathematics-II	4	-	100	-	100	4
PR2002	Applied Physics-II	3	2	60	40	100	4
PR2003	Engineering Mechanics	3	2	60	40	100	4
PR2004	Manufacturing Processes-I	3	-	100	-	100	3
PR2005	Strength of Materials	3	4	60	40	100	5
PR2006	Production Lab-I	-	4	-	50	50	2
PR2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PR3001	Manufacturing Processes-II	2	4	40	60	100	4
PR3002	Machine Tools & Machining	3	2	60	40	100	4
PR3003	Metrology & Quality Control	3	2	60	40	100	4
PR3004	Tool Design & Jigs & Fixtures	3	2	60	40	100	4
PR3005	CNC & Automation	3	4	60	40	100	5
PR3006	Production Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PR4001	Production Planning & Control	3	-	100	-	100	3
PR4002	Industrial Engineering & Management	3	2	60	40	100	4
PR4003	CAD/CAM & Rapid Prototyping	3	2	60	40	100	4
PR4004	Estimating & Costing	3	2	60	40	100	4
PR4005	Elective-I (Lean Manufacturing)	3	-	100	-	100	3
PR4006	Project Work	-	6	-	100	100	4

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20. Diploma in Tool & Die Making

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
TD1001	English Communication	3	-	60	40	100	4
TD1002	Applied Mathematics-I	4	-	100	-	100	4
TD1003	Applied Physics-I	3	2	60	40	100	4
TD1004	Applied Chemistry	3	2	60	40	100	4
TD1005	Engineering Drawing & Design	1	4	30	70	100	3
TD1006	Introduction to Tool & Die Making	3	-	100	-	100	3
TD1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
TD2001	Applied Mathematics-II	4	-	100	-	100	4
TD2002	Applied Physics-II	3	2	60	40	100	4
TD2003	Engineering Mechanics	3	2	60	40	100	4
TD2004	Material Science & Metallurgy	3	-	100	-	100	3
TD2005	Machine Tools & Machining	3	4	60	40	100	5
TD2006	Tool & Die Lab-I	-	4	-	50	50	2
TD2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
TD3001	Press Tool Design	2	4	40	60	100	4
TD3002	Die & Mould Design	3	2	60	40	100	4
TD3003	Jigs & Fixtures Design	3	2	60	40	100	4
TD3004	Metrology & Quality Control	3	2	60	40	100	4
TD3005	CNC Programming & Operations	3	4	60	40	100	5
TD3006	Tool & Die Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
TD4001	Advanced Tool Design	3	-	100	-	100	3
TD4002	Plastic Mould Design	3	2	60	40	100	4
TD4003	CAD/CAM for Tool Design	3	2	60	40	100	4
TD4004	Heat Treatment & Surface Coating	3	2	60	40	100	4
TD4005	Elective-I (EDM & Wire Cut)	3	-	100	-	100	3
TD4006	Project Work	-	6	-	100	100	4

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21. Diploma in Plastic Technology

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PL1001	English Communication	3	-	60	40	100	4
PL1002	Applied Mathematics-I	4	-	100	-	100	4
PL1003	Applied Physics-I	3	2	60	40	100	4
PL1004	Applied Chemistry	3	2	60	40	100	4
PL1005	Engineering Drawing & Design	1	4	30	70	100	3
PL1006	Introduction to Plastic Technology	3	-	100	-	100	3
PL1007	Workshop Practice & Safety	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PL2001	Applied Mathematics-II	4	-	100	-	100	4
PL2002	Applied Physics-II	3	2	60	40	100	4
PL2003	Polymer Chemistry & Science	3	2	60	40	100	4
PL2004	Plastic Materials & Additives	3	-	100	-	100	3
PL2005	Plastic Processing Technology-I	3	4	60	40	100	5
PL2006	Plastic Lab-I	-	4	-	50	50	2
PL2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PL3001	Plastic Processing Technology-II	2	4	40	60	100	4
PL3002	Mould Design for Plastics	3	2	60	40	100	4
PL3003	Plastic Product Design	3	2	60	40	100	4
PL3004	Plastic Testing & Quality Control	3	2	60	40	100	4
PL3005	Plastic Processing Machinery	3	4	60	40	100	5
PL3006	Plastic Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PL4001	Advanced Plastic Processing	3	-	100	-	100	3
PL4002	Plastic Plant Management	3	2	60	40	100	4
PL4003	CAD/CAM for Plastic Industry	3	2	60	40	100	4
PL4004	Plastic Waste Management & Recycling	3	2	60	40	100	4
PL4005	Elective-I (Bioplastics & Composites)	3	-	100	-	100	3
PL4006	Project Work	-	6	-	100	100	4

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22. Diploma in Petrochemical Engineering

22

Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PC1001	English Communication	3	-	60	40	100	4
PC1002	Applied Mathematics-I	4	-	100	-	100	4
PC1003	Applied Physics-I	3	2	60	40	100	4
PC1004	Applied Chemistry	3	2	60	40	100	4
PC1005	Engineering Drawing & Design	1	4	30	70	100	3
PC1006	Introduction to Petrochemical Engineering	3	-	100	-	100	3
PC1007	Workshop Practice & Safety	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PC2001	Applied Mathematics-II	4	-	100	-	100	4
PC2002	Applied Physics-II	3	2	60	40	100	4
PC2003	Organic & Inorganic Chemistry	3	2	60	40	100	4
PC2004	Chemical Engineering Thermodynamics	3	-	100	-	100	3
PC2005	Fluid Mechanics & Hydraulics	3	4	60	40	100	5
PC2006	Petrochemical Lab-I	-	4	-	50	50	2
PC2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PC3001	Petrochemical Process Technology	2	4	40	60	100	4
PC3002	Petroleum Refining Technology	3	2	60	40	100	4
PC3003	Chemical Reaction Engineering	3	2	60	40	100	4
PC3004	Mass Transfer Operations	3	2	60	40	100	4
PC3005	Heat Transfer & Equipment Design	3	4	60	40	100	5
PC3006	Petrochemical Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PC4001	Petrochemical Plant Design	3	-	100	-	100	3
PC4002	Process Control & Instrumentation	3	2	60	40	100	4
PC4003	Petrochemical Products & Applications	3	2	60	40	100	4
PC4004	Industrial Safety & Hazard Management	3	2	60	40	100	4
PC4005	Elective-I (Polymer Technology)	3	-	100	-	100	3
PC4006	Project Work	-	6	-	100	100	4

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23. Diploma in Chemical Engineering

23

Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CH1001	English Communication	3	-	60	40	100	4
CH1002	Applied Mathematics-I	4	-	100	-	100	4
CH1003	Applied Physics-I	3	2	60	40	100	4
CH1004	Applied Chemistry	3	2	60	40	100	4
CH1005	Engineering Drawing & Design	1	4	30	70	100	3
CH1006	Introduction to Chemical Engineering	3	-	100	-	100	3
CH1007	Workshop Practice & Safety	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CH2001	Applied Mathematics-II	4	-	100	-	100	4
CH2002	Applied Physics-II	3	2	60	40	100	4
CH2003	Organic & Inorganic Chemistry	3	2	60	40	100	4
CH2004	Chemical Engineering Thermodynamics	3	-	100	-	100	3
CH2005	Fluid Mechanics & Fluid Machinery	3	4	60	40	100	5
CH2006	Chemical Engineering Lab-I	-	4	-	50	50	2
CH2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CH3001	Chemical Process Technology	2	4	40	60	100	4
CH3002	Mass Transfer Operations	3	2	60	40	100	4
CH3003	Heat Transfer Operations	3	2	60	40	100	4
CH3004	Chemical Reaction Engineering	3	2	60	40	100	4
CH3005	Process Equipment Design	3	4	60	40	100	5
CH3006	Chemical Engineering Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CH4001	Chemical Plant Design & Economics	3	-	100	-	100	3
CH4002	Process Control & Instrumentation	3	2	60	40	100	4
CH4003	Industrial Chemistry & Technology	3	2	60	40	100	4
CH4004	Process Safety & Hazard Management	3	2	60	40	100	4
CH4005	Elective-I (Pollution Control)	3	-	100	-	100	3
CH4006	Project Work	-	6	-	100	100	4

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24. Diploma in Textile Technology

Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
TX1001	English Communication	3	-	60	40	100	4
TX1002	Applied Mathematics-I	4	-	100	-	100	4
TX1003	Applied Physics-I	3	2	60	40	100	4
TX1004	Applied Chemistry	3	2	60	40	100	4
TX1005	Textile Fibers & Yarns	1	4	30	70	100	3
TX1006	Introduction to Textile Technology	3	-	100	-	100	3
TX1007	Textile Lab-I	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
TX2001	Applied Mathematics-II	4	-	100	-	100	4
TX2002	Applied Physics-II	3	2	60	40	100	4
TX2003	Textile Chemistry	3	2	60	40	100	4
TX2004	Spinning Technology-I	3	-	100	-	100	3
TX2005	Weaving Technology-I	3	4	60	40	100	5
TX2006	Textile Lab-II	-	4	-	50	50	2
TX2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
TX3001	Spinning Technology-II	2	4	40	60	100	4
TX3002	Weaving Technology-II	3	2	60	40	100	4
TX3003	Knitting Technology	3	2	60	40	100	4
TX3004	Textile Wet Processing-I	3	2	60	40	100	4
TX3005	Textile Testing & Quality Control	3	4	60	40	100	5
TX3006	Textile Lab-III	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
TX4001	Textile Wet Processing-II	3	-	100	-	100	3
TX4002	Fabric Manufacturing & Finishing	3	2	60	40	100	4
TX4003	Apparel Manufacturing Technology	3	2	60	40	100	4
TX4004	Textile Mill Management	3	2	60	40	100	4
TX4005	Elective-I (Technical Textiles)	3	-	100	-	100	3
TX4006	Project Work	-	6	-	100	100	4

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FT1001	English Communication	3	-	60	40	100	4
FT1002	Applied Mathematics-I	4	-	100	-	100	4
FT1003	Applied Physics-I	3	2	60	40	100	4
FT1004	Applied Chemistry	3	2	60	40	100	4
FT1005	Fashion Design & Illustration	1	4	30	70	100	3
FT1006	Introduction to Fashion Technology	3	-	100	-	100	3
FT1007	Fashion Lab-I	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FT2001	Applied Mathematics-II	4	-	100	-	100	4
FT2002	Applied Physics-II	3	2	60	40	100	4
FT2003	Textile Science & Fabric Study	3	2	60	40	100	4
FT2004	Pattern Making & Garment Construction	3	-	100	-	100	3
FT2005	Fashion Illustration & CAD	3	4	60	40	100	5
FT2006	Fashion Lab-II	-	4	-	50	50	2
FT2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FT3001	Apparel Manufacturing Technology	2	4	40	60	100	4
FT3002	Fashion Design & Draping	3	2	60	40	100	4
FT3003	Surface Ornamentation & Embroidery	3	2	60	40	100	4
FT3004	Fashion Merchandising & Marketing	3	2	60	40	100	4
FT3005	Quality Control & Costing	3	4	60	40	100	5
FT3006	Fashion Lab-III	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FT4001	Fashion Styling & Portfolio Development	3	-	100	-	100	3
FT4002	Fashion Show Production & Management	3	2	60	40	100	4
FT4003	Fashion Accessory Design	3	2	60	40	100	4
FT4004	Fashion Entrepreneurship & Business	3	2	60	40	100	4
FT4005	Elective-I (Sustainable Fashion)	3	-	100	-	100	3
FT4006	Project Work	-	6	-	100	100	4

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26. Diploma in Garment Technology

Semester 1 (Foundation)

26

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
GT1001	English Communication	3	-	60	40	100	4
GT1002	Applied Mathematics-I	4	-	100	-	100	4
GT1003	Applied Physics-I	3	2	60	40	100	4
GT1004	Applied Chemistry	3	2	60	40	100	4
GT1005	Textile Science & Fabric Study	1	4	30	70	100	3
GT1006	Introduction to Garment Technology	3	-	100	-	100	3
GT1007	Garment Lab-I	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
GT2001	Applied Mathematics-II	4	-	100	-	100	4
GT2002	Applied Physics-II	3	2	60	40	100	4
GT2003	Garment Construction & Stitching	3	2	60	40	100	4
GT2004	Pattern Making & Grading	3	-	100	-	100	3
GT2005	Sewing Machine & Equipment	3	4	60	40	100	5
GT2006	Garment Lab-II	-	4	-	50	50	2
GT2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
GT3001	Apparel Production Technology	2	4	40	60	100	4
GT3002	Industrial Garment Manufacturing	3	2	60	40	100	4
GT3003	Garment Finishing & Packaging	3	2	60	40	100	4
GT3004	Quality Control & Inspection	3	2	60	40	100	4
GT3005	Garment CAD & Computer Applications	3	4	60	40	100	5
GT3006	Garment Lab-III	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
GT4001	Garment Production Planning & Control	3	-	100	-	100	3
GT4002	Industrial Engineering & Work Study	3	2	60	40	100	4
GT4003	Garment Costing & Merchandising	3	2	60	40	100	4
GT4004	Garment Export & Quality Management	3	2	60	40	100	4
GT4005	Elective-I (Technical Textiles)	3	-	100	-	100	3
GT4006	Project Work	-	6	-	100	100	4

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27. Diploma in Interior Design

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ID1001	English Communication	3	-	60	40	100	4
ID1002	Applied Mathematics-I	4	-	100	-	100	4
ID1003	Applied Physics-I	3	2	60	40	100	4
ID1004	Building Materials & Construction	3	2	60	40	100	4
ID1005	Architectural Drawing & Graphics	1	4	30	70	100	3
ID1006	Introduction to Interior Design	3	-	100	-	100	3
ID1007	Design Studio-I	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ID2001	Applied Mathematics-II	4	-	100	-	100	4
ID2002	Applied Physics-II	3	2	60	40	100	4
ID2003	Design Fundamentals & Color Theory	3	2	60	40	100	4
ID2004	Computer Aided Design (AutoCAD)	3	-	100	-	100	3
ID2005	Furniture Design & Detailing	3	4	60	40	100	5
ID2006	Design Studio-II	-	4	-	50	50	2
ID2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ID3001	Residential Interior Design	2	4	40	60	100	4
ID3002	Commercial Interior Design	3	2	60	40	100	4
ID3003	Lighting Design & Acoustics	3	2	60	40	100	4
ID3004	Building Services & Utilities	3	2	60	40	100	4
ID3005	3D Visualization & Rendering	3	4	60	40	100	5
ID3006	Design Studio-III	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ID4001	Hospitality & Retail Interior Design	3	-	100	-	100	3
ID4002	Landscape & Garden Design	3	2	60	40	100	4
ID4003	Estimating & Costing	3	2	60	40	100	4
ID4004	Interior Design Business & Marketing	3	2	60	40	100	4
ID4005	Elective-I (Sustainable Design)	3	-	100	-	100	3
ID4006	Project Work	-	6	-	100	100	4

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28. Diploma in Graphic Design

Semester 1 (Foundation)

28

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
GD1001	English Communication	3	-	60	40	100	4
GD1002	Applied Mathematics-I	4	-	100	-	100	4
GD1003	Applied Physics-I	3	2	60	40	100	4
GD1004	Design Fundamentals & Color Theory	3	2	60	40	100	4
GD1005	Drawing & Illustration	1	4	30	70	100	3
GD1006	Introduction to Graphic Design	3	-	100	-	100	3
GD1007	Design Studio-I	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
GD2001	Applied Mathematics-II	4	-	100	-	100	4
GD2002	Applied Physics-II	3	2	60	40	100	4
GD2003	Typography & Lettering	3	2	60	40	100	4
GD2004	Computer Graphics (Photoshop)	3	-	100	-	100	3
GD2005	Vector Graphics (Illustrator)	3	4	60	40	100	5
GD2006	Design Studio-II	-	4	-	50	50	2
GD2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
GD3001	Print & Publication Design	2	4	40	60	100	4
GD3002	Brand Identity & Logo Design	3	2	60	40	100	4
GD3003	Packaging Design	3	2	60	40	100	4
GD3004	Web Design & UI/UX	3	2	60	40	100	4
GD3005	Digital Media & Animation	3	4	60	40	100	5
GD3006	Design Studio-III	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
GD4001	Advertising & Promotional Design	3	-	100	-	100	3
GD4002	Motion Graphics & Video Editing	3	2	60	40	100	4
GD4003	Portfolio Development & Presentation	3	2	60	40	100	4
GD4004	Freelancing & Design Entrepreneurship	3	2	60	40	100	4
GD4005	Elective-I (Social Media Design)	3	-	100	-	100	3
GD4006	Project Work	-	6	-	100	100	4

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29.- Diploma in Animation & Multimedia

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AM1001	English Communication	3	-	60	40	100	4
AM1002	Applied Mathematics-I	4	-	100	-	100	4
AM1003	Applied Physics-I	3	2	60	40	100	4
AM1004	Design Fundamentals & Color Theory	3	2	60	40	100	4
AM1005	Drawing & Illustration	1	4	30	70	100	3
AM1006	Introduction to Animation & Multimedia	3	-	100	-	100	3
AM1007	Multimedia Lab-I	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AM2001	Applied Mathematics-II	4	-	100	-	100	4
AM2002	Applied Physics-II	3	2	60	40	100	4
AM2003	2D Animation Fundamentals	3	2	60	40	100	4
AM2004	Digital Graphics (Photoshop & Illustrator)	3	-	100	-	100	3
AM2005	Video Editing & Post Production	3	4	60	40	100	5
AM2006	Multimedia Lab-II	-	4	-	50	50	2
AM2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AM3001	3D Modeling & Animation	2	4	40	60	100	4
AM3002	Character Design & Development	3	2	60	40	100	4
AM3003	Motion Graphics & Visual Effects	3	2	60	40	100	4
AM3004	Sound Design & Audio Production	3	2	60	40	100	4
AM3005	Web Design & Interactive Media	3	4	60	40	100	5
AM3006	Animation Lab-I	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AM4001	Advanced 3D Animation & Rigging	3	-	100	-	100	3
AM4002	Game Design & Development	3	2	60	40	100	4
AM4003	Film Making & Cinematography	3	2	60	40	100	4
AM4004	Portfolio & Showreel Development	3	2	60	40	100	4
AM4005	Elective-I (AR/VR Development)	3	-	100	-	100	3
AM4006	Project Work	-	6	-	100	100	4

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30. Diploma in Digital Marketing

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
DM1001	English Communication	3	-	60	40	100	4
DM1002	Applied Mathematics-I	4	-	100	-	100	4
DM1003	Principles of Marketing	3	2	60	40	100	4
DM1004	Business Communication	3	2	60	40	100	4
DM1005	Computer Fundamentals & MS Office	1	4	30	70	100	3
DM1006	Introduction to Digital Marketing	3	-	100	-	100	3
DM1007	Digital Marketing Lab-I	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
DM2001	Applied Mathematics-II	4	-	100	-	100	4
DM2002	Consumer Behavior & Market Research	3	2	60	40	100	4
DM2003	Search Engine Optimization (SEO)	3	2	60	40	100	4
DM2004	Social Media Marketing	3	-	100	-	100	3
DM2005	Content Marketing & Copywriting	3	4	60	40	100	5
DM2006	Digital Marketing Lab-II	-	4	-	50	50	2
DM2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
DM3001	Search Engine Marketing (SEM) & PPC	2	4	40	60	100	4
DM3002	Email Marketing & Automation	3	2	60	40	100	4
DM3003	Web Analytics & Google Analytics	3	2	60	40	100	4
DM3004	E-Commerce & Online Advertising	3	2	60	40	100	4
DM3005	Influencer Marketing & Affiliate Marketing	3	4	60	40	100	5
DM3006	Digital Marketing Lab-III	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
DM4001	Mobile Marketing & App Marketing	3	-	100	-	100	3
DM4002	Video Marketing & YouTube Advertising	3	2	60	40	100	4
DM4003	Digital Marketing Strategy & Planning	3	2	60	40	100	4
DM4004	Brand Management & Online Reputation	3	2	60	40	100	4
DM4005	Elective-I (Marketing Automation Tools)	3	-	100	-	100	3
DM4006	Project Work	-	6	-	100	100	4

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31. Diploma in Web Development

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Semester1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
WD1001	English Communication	3	-	60	40	100	4
WD1002	Applied Mathematics-I	4	-	100	-	100	4
WD1003	Computer Fundamentals	3	2	60	40	100	4
WD1004	Programming Fundamentals (C)	3	2	60	40	100	4
WD1005	HTML & CSS Fundamentals	1	4	30	70	100	3
WD1006	Introduction to Web Development	3	-	100	-	100	3
WD1007	Web Design Lab-I	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
WD2001	Applied Mathematics-II	4	-	100	-	100	4
WD2002	Data Structures & Algorithms	3	2	60	40	100	4
WD2003	JavaScript & jQuery	3	2	60	40	100	4
WD2004	Responsive Web Design & Bootstrap	3	-	100	-	100	3
WD2005	Database Management System (MySQL)	3	4	60	40	100	5
WD2006	Web Development Lab-I	-	4	-	50	50	2
WD2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
WD3001	Server-Side Scripting (PHP)	2	4	40	60	100	4
WD3002	Frontend Frameworks (React/Angular)	3	2	60	40	100	4
WD3003	Backend Development (Node.js)	3	2	60	40	100	4
WD3004	RESTful API Development	3	2	60	40	100	4
WD3005	Content Management System (WordPress)	3	4	60	40	100	5
WD3006	Web Development Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
WD4001	Full Stack Development (MERN/MEAN)	3	-	100	-	100	3
WD4002	Web Security & Best Practices	3	2	60	40	100	4
WD4003	Cloud Deployment & DevOps	3	2	60	40	100	4
WD4004	Web Performance Optimization	3	2	60	40	100	4
WD4005	Elective-I (Progressive Web Apps)	3	-	100	-	100	3
WD4006	Project Work	-	6	-	100	100	4

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32. Diploma in Mobile App Development

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
MA1001	English Communication	3	-	60	40	100	4
MA1002	Applied Mathematics-I	4	-	100	-	100	4
MA1003	Computer Fundamentals	3	2	60	40	100	4
MA1004	Programming Fundamentals (Java)	3	2	60	40	100	4
MA1005	UI/UX Design Fundamentals	1	4	30	70	100	3
MA1006	Introduction to Mobile App Development	3	-	100	-	100	3
MA1007	Mobile App Lab-I	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
MA2001	Applied Mathematics-II	4	-	100	-	100	4
MA2002	Data Structures & Algorithms	3	2	60	40	100	4
MA2003	Android App Development	3	2	60	40	100	4
MA2004	iOS App Development (Swift)	3	-	100	-	100	3
MA2005	Database Management (SQLite & Firebase)	3	4	60	40	100	5
MA2006	Mobile App Lab-II	-	4	-	50	50	2
MA2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
MA3001	Cross-Platform Development (React Native)	2	4	40	60	100	4
MA3002	Cross-Platform Development (Flutter)	3	2	60	40	100	4
MA3003	Backend Integration & APIs	3	2	60	40	100	4
MA3004	Mobile App Security & Testing	3	2	60	40	100	4
MA3005	Push Notifications & Cloud Services	3	4	60	40	100	5
MA3006	Mobile App Lab-III	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
MA4001	Advanced Mobile App Features	3	-	100	-	100	3
MA4002	App Publishing & Distribution	3	2	60	40	100	4
MA4003	App Monetization & Analytics	3	2	60	40	100	4
MA4004	App Performance Optimization	3	2	60	40	100	4
MA4005	Elective-I (AR/VR in Mobile Apps)	3	-	100	-	100	3
MA4006	Project Work	-	6	-	100	100	4

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33. Diploma in Software Testing

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ST1001	English Communication	3	-	60	40	100	4
ST1002	Applied Mathematics-I	4	-	100	-	100	4
ST1003	Computer Fundamentals	3	2	60	40	100	4
ST1004	Programming Fundamentals (C/Java)	3	2	60	40	100	4
ST1005	Introduction to Software Testing	1	4	30	70	100	3
ST1006	Software Development Life Cycle (SDLC)	3	-	100	-	100	3
ST1007	Testing Lab-I	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ST2001	Applied Mathematics-II	4	-	100	-	100	4
ST2002	Database Management System	3	2	60	40	100	4
ST2003	Manual Testing & Test Case Design	3	2	60	40	100	4
ST2004	Web Technologies (HTML, CSS, JavaScript)	3	-	100	-	100	3
ST2005	Testing Tools & Techniques	3	4	60	40	100	5
ST2006	Testing Lab-II	-	4	-	50	50	2
ST2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ST3001	Automation Testing Fundamentals	2	4	40	60	100	4
ST3002	Selenium WebDriver & Frameworks	3	2	60	40	100	4
ST3003	API Testing & Postman	3	2	60	40	100	4
ST3004	Mobile Application Testing	3	2	60	40	100	4
ST3005	Performance & Load Testing (JMeter)	3	4	60	40	100	5
ST3006	Testing Lab-III	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ST4001	Test Management & Defect Tracking	3	-	100	-	100	3
ST4002	Security & Penetration Testing	3	2	60	40	100	4
ST4003	CI/CD & DevOps for Testing	3	2	60	40	100	4
ST4004	Agile Testing & Test Automation	3	2	60	40	100	4
ST4005	Elective-I (AI/ML in Testing)	3	-	100	-	100	3
ST4006	Project Work	-	6	-	100	100	4

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34. Diploma in Network Engineering

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
NE1001	English Communication	3	-	60	40	100	4
NE1002	Applied Mathematics-I	4	-	100	-	100	4
NE1003	Computer Fundamentals	3	2	60	40	100	4
NE1004	Digital Electronics & Logic Design	3	2	60	40	100	4
NE1005	Operating Systems (Windows & Linux)	1	4	30	70	100	3
NE1006	Introduction to Networking	3	-	100	-	100	3
NE1007	Networking Lab-I	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
NE2001	Applied Mathematics-II	4	-	100	-	100	4
NE2002	Network Protocols & Standards	3	2	60	40	100	4
NE2003	Routing & Switching Fundamentals	3	2	60	40	100	4
NE2004	LAN & WAN Technologies	3	-	100	-	100	3
NE2005	Network Devices & Configuration	3	4	60	40	100	5
NE2006	Networking Lab-II	-	4	-	50	50	2
NE2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
NE3001	Advanced Routing (OSPF, EIGRP, BGP)	2	4	40	60	100	4
NE3002	Network Security & Firewall	3	2	60	40	100	4
NE3003	Wireless Networking & Technologies	3	2	60	40	100	4
NE3004	Network Troubleshooting & Diagnostics	3	2	60	40	100	4
NE3005	VoIP & Unified Communication	3	4	60	40	100	5
NE3006	Networking Lab-III	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
NE4001	Cloud Networking & Virtualization	3	-	100	-	100	3
NE4002	Network Management & Monitoring	3	2	60	40	100	4
NE4003	Data Center & Server Technologies	3	2	60	40	100	4
NE4004	Network Design & Implementation	3	2	60	40	100	4
NE4005	Elective-I (SDN & Network Automation)	3	-	100	-	100	3
NE4006	Project Work	-	6	-	100	100	4

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35. Diploma in Hardware & Networking

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
HN1001	English Communication	3	-	60	40	100	4
HN1002	Applied Mathematics-I	4	-	100	-	100	4
HN1003	Computer Fundamentals & Office Automation	3	2	60	40	100	4
HN1004	Digital Electronics & Microprocessor	3	2	60	40	100	4
HN1005	PC Assembly & Troubleshooting	1	4	30	70	100	3
HN1006	Introduction to Hardware & Networking	3	-	100	-	100	3
HN1007	Hardware Lab-I	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
HN2001	Applied Mathematics-II	4	-	100	-	100	4
HN2002	Operating Systems (Windows & Linux)	3	2	60	40	100	4
HN2003	Computer Networks & Protocols	3	2	60	40	100	4
HN2004	Server Administration & Management	3	-	100	-	100	3
HN2005	Printer & Peripheral Devices	3	4	60	40	100	5
HN2006	Hardware & Networking Lab-I	-	4	-	50	50	2
HN2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
HN3001	Network Configuration & Administration	2	4	40	60	100	4
HN3002	Network Security & Firewall	3	2	60	40	100	4
HN3003	Wireless Technology & Mobile Computing	3	2	60	40	100	4
HN3004	Hardware & Network Troubleshooting	3	2	60	40	100	4
HN3005	Data Communication & IoT	3	4	60	40	100	5
HN3006	Hardware & Networking Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
HN4001	Cloud Computing & Virtualization	3	-	100	-	100	3
HN4002	Network Design & Implementation	3	2	60	40	100	4
HN4003	IT Infrastructure & Data Center	3	2	60	40	100	4
HN4004	Hardware & Network Maintenance	3	2	60	40	100	4
HN4005	Elective-I (Ethical Hacking)	3	-	100	-	100	3
HN4006	Project Work	-	6	-	100	100	4

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36. Diploma in Database Management

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
DB1001	English Communication	3	-	60	40	100	4
DB1002	Applied Mathematics-I	4	-	100	-	100	4
DB1003	Computer Fundamentals	3	2	60	40	100	4
DB1004	Programming Fundamentals (C/C++)	3	2	60	40	100	4
DB1005	Introduction to Database Systems	1	4	30	70	100	3
DB1006	Data Structures & Algorithms	3	-	100	-	100	3
DB1007	Database Lab-I	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
DB2001	Applied Mathematics-II	4	-	100	-	100	4
DB2002	Relational Database Management System	3	2	60	40	100	4
DB2003	SQL & PL/SQL Programming	3	2	60	40	100	4
DB2004	Database Design & Normalization	3	-	100	-	100	3
DB2005	Oracle Database Administration	3	4	60	40	100	5
DB2006	Database Lab-II	-	4	-	50	50	2
DB2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
DB3001	Advanced SQL & Query Optimization	2	4	40	60	100	4
DB3002	NoSQL Databases (MongoDB, Cassandra)	3	2	60	40	100	4
DB3003	Data Warehousing & Data Mining	3	2	60	40	100	4
DB3004	Database Security & Backup	3	2	60	40	100	4
DB3005	MySQL & PostgreSQL Administration	3	4	60	40	100	5
DB3006	Database Lab-III	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
DB4001	Big Data & Distributed Databases	3	-	100	-	100	3
DB4002	Cloud Databases (AWS, Azure, GCP)	3	2	60	40	100	4
DB4003	Database Performance Tuning	3	2	60	40	100	4
DB4004	Business Intelligence & Analytics	3	2	60	40	100	4
DB4005	Elective-I (Blockchain Databases)	3	-	100	-	100	3
DB4006	Project Work	-	6	-	100	100	4

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37. Diploma in ERP & SAP

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ES1001	English Communication	3	-	60	40	100	4
ES1002	Applied Mathematics-I	4	-	100	-	100	4
ES1003	Computer Fundamentals	3	2	60	40	100	4
ES1004	Business Processes & Management	3	2	60	40	100	4
ES1005	Introduction to ERP Systems	1	4	30	70	100	3
ES1006	Accounting & Financial Management	3	-	100	-	100	3
ES1007	ERP Lab-I	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ES2001	Applied Mathematics-II	4	-	100	-	100	4
ES2002	Database Management System	3	2	60	40	100	4
ES2003	Introduction to SAP	3	2	60	40	100	4
ES2004	SAP FICO (Financial Accounting)	3	-	100	-	100	3
ES2005	Supply Chain Management	3	4	60	40	100	5
ES2006	SAP Lab-I	-	4	-	50	50	2
ES2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ES3001	SAP MM (Material Management)	2	4	40	60	100	4
ES3002	SAP SD (Sales & Distribution)	3	2	60	40	100	4
ES3003	SAP PP (Production Planning)	3	2	60	40	100	4
ES3004	SAP HCM (Human Capital Management)	3	2	60	40	100	4
ES3005	ERP Implementation & Integration	3	4	60	40	100	5
ES3006	SAP Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ES4001	SAP S/4HANA & Cloud ERP	3	-	100	-	100	3
ES4002	SAP ABAP Programming	3	2	60	40	100	4
ES4003	ERP Security & Authorization	3	2	60	40	100	4
ES4004	ERP Project Management	3	2	60	40	100	4
ES4005	Elective-I (SAP BW/BI Analytics)	3	-	100	-	100	3
ES4006	Project Work	-	6	-	100	100	4

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38. Diploma in Power Systems

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PS1001	English Communication	3	-	60	40	100	4
PS1002	Applied Mathematics-I	4	-	100	-	100	4
PS1003	Applied Physics-I	3	2	60	40	100	4
PS1004	Applied Chemistry	3	2	60	40	100	4
PS1005	Engineering Drawing	1	4	30	70	100	3
PS1006	Basic Electrical Engineering	3	-	100	-	100	3
PS1007	Electrical Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PS2001	Applied Mathematics-II	4	-	100	-	100	4
PS2002	Applied Physics-II	3	2	60	40	100	4
PS2003	DC Machines & Transformers	3	2	60	40	100	4
PS2004	AC Machines	3	-	100	-	100	3
PS2005	Electrical Measurements & Instrumentation	3	4	60	40	100	5
PS2006	Electrical Machines Lab	-	4	-	50	50	2
PS2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PS3001	Power Generation & Substations	2	4	40	60	100	4
PS3002	Power Transmission & Distribution	3	2	60	40	100	4
PS3003	Power System Protection	3	2	60	40	100	4
PS3004	Power Electronics	3	2	60	40	100	4
PS3005	High Voltage Engineering	3	4	60	40	100	5
PS3006	Power Systems Lab-I	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PS4001	Power System Analysis & Stability	3	-	100	-	100	3
PS4002	Renewable Energy Systems	3	2	60	40	100	4
PS4003	Electrical Energy Management	3	2	60	40	100	4
PS4004	Smart Grid Technology	3	2	60	40	100	4
PS4005	Elective-I (HVDC Transmission)	3	-	100	-	100	3
PS4006	Project Work	-	6	-	100	100	4

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39. Diploma in Renewable Energy

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
RE1001	English Communication	3	-	60	40	100	4
RE1002	Applied Mathematics-I	4	-	100	-	100	4
RE1003	Applied Physics-I	3	2	60	40	100	4
RE1004	Applied Chemistry	3	2	60	40	100	4
RE1005	Engineering Drawing	1	4	30	70	100	3
RE1006	Fundamentals of Renewable Energy	3	-	100	-	100	3
RE1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

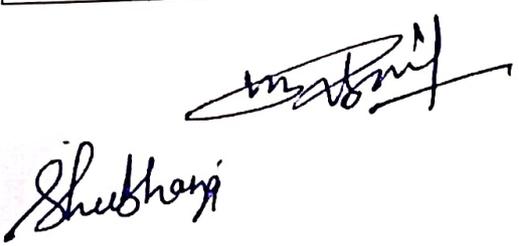
Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
RE2001	Applied Mathematics-II	4	-	100	-	100	4
RE2002	Applied Physics-II	3	2	60	40	100	4
RE2003	Solar Energy Technology	3	2	60	40	100	4
RE2004	Wind Energy Systems	3	-	100	-	100	3
RE2005	Electrical Machines & Power Electronics	3	4	60	40	100	5
RE2006	Renewable Energy Lab-I	-	4	-	50	50	2
RE2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
RE3001	Solar Photovoltaic Systems	2	4	40	60	100	4
RE3002	Biomass & Biogas Energy	3	2	60	40	100	4
RE3003	Hydroelectric Power Systems	3	2	60	40	100	4
RE3004	Energy Storage Systems	3	2	60	40	100	4
RE3005	Grid Integration of Renewable Energy	3	4	60	40	100	5
RE3006	Renewable Energy Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
RE4001	Geothermal & Ocean Energy	3	-	100	-	100	3
RE4002	Hybrid Renewable Energy Systems	3	2	60	40	100	4
RE4003	Energy Audit & Management	3	2	60	40	100	4
RE4004	Sustainable Development & Green Building	3	2	60	40	100	4
RE4005	Elective-I (Fuel Cell Technology)	3	-	100	-	100	3
RE4006	Project Work	-	6	-	100	100	4





40. Diploma in Solar Energy Technology

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
SE1001	English Communication	3	-	60	40	100	4
SE1002	Applied Mathematics-I	4	-	100	-	100	4
SE1003	Applied Physics-I	3	2	60	40	100	4
SE1004	Applied Chemistry	3	2	60	40	100	4
SE1005	Engineering Drawing	1	4	30	70	100	3
SE1006	Fundamentals of Solar Energy Technology	3	-	100	-	100	3
SE1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
SE2001	Applied Mathematics-II	4	-	100	-	100	4
SE2002	Applied Physics-II	3	2	60	40	100	4
SE2003	Solar Thermal Systems	3	2	60	40	100	4
SE2004	Solar Photovoltaic Fundamentals	3	-	100	-	100	3
SE2005	Electrical Machines & Power Electronics	3	4	60	40	100	5
SE2006	Solar Energy Lab-I	-	4	-	50	50	2
SE2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
SE3001	Solar Photovoltaic Systems	2	4	40	60	100	4
SE3002	Advanced Solar Thermal Technology	3	2	60	40	100	4
SE3003	Solar Cell Technology & Materials	3	2	60	40	100	4
SE3004	Solar Energy Storage & Batteries	3	2	60	40	100	4
SE3005	Grid Connected Solar Systems	3	4	60	40	100	5
SE3006	Solar Energy Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
SE4001	Solar Power Plant Design & Installation	3	-	100	-	100	3
SE4002	Solar Power Optimization & Monitoring	3	2	60	40	100	4
SE4003	Solar Energy Economics & Policy	3	2	60	40	100	4
SE4004	Solar Building Integration & Green Technology	3	2	60	40	100	4
SE4005	Elective-I (Concentrated Solar Power)	3	-	100	-	100	3
SE4006	Project Work	-	6	-	100	100	4

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41. Diploma in Instru. & Control**Semester 1 (Foundation)**

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IC1001	English Communication	3	-	60	40	100	4
IC1002	Applied Mathematics-I	4	-	100	-	100	4
IC1003	Applied Physics-I	3	2	60	40	100	4
IC1004	Applied Chemistry	3	2	60	40	100	4
IC1005	Engineering Drawing	1	4	30	70	100	3
IC1006	Introduction to Instrumentation & Control	3	-	100	-	100	3
IC1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IC2001	Applied Mathematics-II	4	-	100	-	100	4
IC2002	Applied Physics-II	3	2	60	40	100	4
IC2003	Sensors & Transducers	3	2	60	40	100	4
IC2004	Electrical Measurements & Instrumentation	3	-	100	-	100	3
IC2005	Analog & Digital Electronics	3	4	60	40	100	5
IC2006	Instrumentation Lab-I	-	4	-	50	50	2
IC2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IC3001	Process Control & Automation	2	4	40	60	100	4
IC3002	Control Systems Engineering	3	2	60	40	100	4
IC3003	Programmable Logic Controller (PLC)	3	2	60	40	100	4
IC3004	Industrial Instrumentation	3	2	60	40	100	4
IC3005	Microprocessor & Microcontroller	3	4	60	40	100	5
IC3006	Instrumentation Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IC4001	SCADA & DCS Systems	3	-	100	-	100	3
IC4002	Advanced Control Systems	3	2	60	40	100	4
IC4003	Biomedical Instrumentation	3	2	60	40	100	4
IC4004	Process Instrumentation & Calibration	3	2	60	40	100	4
IC4005	Elective-I (Industrial IoT & Industry 4.0)	3	-	100	-	100	3
IC4006	Project Work	-	6	-	100	100	4

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42. Diploma in Mining Engineering

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
MN1001	English Communication	3	-	60	40	100	4
MN1002	Applied Mathematics-I	4	-	100	-	100	4
MN1003	Applied Physics-I	3	2	60	40	100	4
MN1004	Applied Chemistry	3	2	60	40	100	4
MN1005	Engineering Drawing	1	4	30	70	100	3
MN1006	Introduction to Mining Engineering	3	-	100	-	100	3
MN1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
MN2001	Applied Mathematics-II	4	-	100	-	100	4
MN2002	Applied Physics-II	3	2	60	40	100	4
MN2003	Geology & Mineralogy	3	2	60	40	100	4
MN2004	Mining Methods & Technology	3	-	100	-	100	3
MN2005	Surveying & Mine Planning	3	4	60	40	100	5
MN2006	Mining Lab-I	-	4	-	50	50	2
MN2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
MN3001	Underground Mining	2	4	40	60	100	4
MN3002	Surface Mining & Opencast Mining	3	2	60	40	100	4
MN3003	Rock Mechanics & Ground Control	3	2	60	40	100	4
MN3004	Explosives & Blasting Technology	3	2	60	40	100	4
MN3005	Mine Ventilation & Environmental Engineering	3	4	60	40	100	5
MN3006	Mining Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
MN4001	Mine Machinery & Material Handling	3	-	100	-	100	3
MN4002	Mineral Processing & Beneficiation	3	2	60	40	100	4
MN4003	Mine Safety & Legislation	3	2	60	40	100	4
MN4004	Mining Economics & Management	3	2	60	40	100	4
MN4005	Elective-I (Coal Mining Technology)	3	-	100	-	100	3
MN4006	Project Work	-	6	-	100	100	4

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43. Diploma in Metallurgical Engg.

Semester 1 (Foundation)

43

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
MT1001	English Communication	3	-	60	40	100	4
MT1002	Applied Mathematics-I	4	-	100	-	100	4
MT1003	Applied Physics-I	3	2	60	40	100	4
MT1004	Applied Chemistry	3	2	60	40	100	4
MT1005	Engineering Drawing	1	4	30	70	100	3
MT1006	Introduction to Metallurgical Engineering	3	-	100	-	100	3
MT1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
MT2001	Applied Mathematics-II	4	-	100	-	100	4
MT2002	Applied Physics-II	3	2	60	40	100	4
MT2003	Physical Metallurgy	3	2	60	40	100	4
MT2004	Material Science & Engineering	3	-	100	-	100	3
MT2005	Mechanical Metallurgy & Testing	3	4	60	40	100	5
MT2006	Metallurgy Lab-I	-	4	-	50	50	2
MT2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
MT3001	Extractive Metallurgy	2	4	40	60	100	4
MT3002	Iron & Steel Making Technology	3	2	60	40	100	4
MT3003	Non-Ferrous Extractive Metallurgy	3	2	60	40	100	4
MT3004	Heat Treatment & Alloy Design	3	2	60	40	100	4
MT3005	Foundry & Casting Technology	3	4	60	40	100	5
MT3006	Metallurgy Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
MT4001	Welding & Joining Technology	3	-	100	-	100	3
MT4002	Powder Metallurgy & Surface Engineering	3	2	60	40	100	4
MT4003	Corrosion Engineering & Prevention	3	2	60	40	100	4
MT4004	Metallurgical Process Control & Quality Assurance	3	2	60	40	100	4
MT4005	Elective-I (Advanced Materials & Nanotechnology)	3	-	100	-	100	3
MT4006	Project Work	-	6	-	100	100	4

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44. Diploma in Ceramic Technology

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CR1001	English Communication	3	-	60	40	100	4
CR1002	Applied Mathematics-I	4	-	100	-	100	4
CR1003	Applied Physics-I	3	2	60	40	100	4
CR1004	Applied Chemistry	3	2	60	40	100	4
CR1005	Engineering Drawing	1	4	30	70	100	3
CR1006	Introduction to Ceramic Technology	3	-	100	-	100	3
CR1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CR2001	Applied Mathematics-II	4	-	100	-	100	4
CR2002	Applied Physics-II	3	2	60	40	100	4
CR2003	Ceramic Raw Materials & Mineralogy	3	2	60	40	100	4
CR2004	Ceramic Processing & Forming Technology	3	-	100	-	100	3
CR2005	Drying & Firing Technology	3	4	60	40	100	5
CR2006	Ceramic Lab-I	-	4	-	50	50	2
CR2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CR3001	Traditional Ceramics (Pottery, Tiles, Sanitary Ware)	2	4	40	60	100	4
CR3002	Refractories & Insulating Materials	3	2	60	40	100	4
CR3003	Glass & Glass Ceramics Technology	3	2	60	40	100	4
CR3004	Glazing & Decoration Technology	3	2	60	40	100	4
CR3005	Ceramic Testing & Quality Control	3	4	60	40	100	5
CR3006	Ceramic Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CR4001	Advanced Ceramics & Engineering Ceramics	3	-	100	-	100	3
CR4002	Kiln Design & Thermal Engineering	3	2	60	40	100	4
CR4003	Ceramic Plant Management & Costing	3	2	60	40	100	4
CR4004	Ceramic Product Design & Development	3	2	60	40	100	4
CR4005	Elective-I (Nanomaterials & Advanced Composites)	3	-	100	-	100	3
CR4006	Project Work	-	6	-	100	100	4

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45. Diploma in Paint Technology

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PT1001	English Communication	3	-	60	40	100	4
PT1002	Applied Mathematics-I	4	-	100	-	100	4
PT1003	Applied Physics-I	3	2	60	40	100	4
PT1004	Applied Chemistry	3	2	60	40	100	4
PT1005	Engineering Drawing & Design	1	4	30	70	100	3
PT1006	Introduction to Paint Technology	3	-	100	-	100	3
PT1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PT2001	Applied Mathematics-II	4	-	100	-	100	4
PT2002	Applied Physics-II	3	2	60	40	100	4
PT2003	Polymer Chemistry & Resins	3	2	60	40	100	4
PT2004	Pigments & Fillers Technology	3	-	100	-	100	3
PT2005	Paint Formulation & Manufacturing	3	4	60	40	100	5
PT2006	Paint Lab-I	-	4	-	50	50	2
PT2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PT3001	Surface Coating Technology	2	4	40	60	100	4
PT3002	Decorative & Protective Coatings	3	2	60	40	100	4
PT3003	Industrial Paints & Special Coatings	3	2	60	40	100	4
PT3004	Paint Application & Equipment	3	2	60	40	100	4
PT3005	Paint Testing & Quality Control	3	4	60	40	100	5
PT3006	Paint Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PT4001	Advanced Paint Technology	3	-	100	-	100	3
PT4002	Powder Coatings & UV Curable Systems	3	2	60	40	100	4
PT4003	Paint Plant Management & Safety	3	2	60	40	100	4
PT4004	Eco-friendly Paints & Waste Management	3	2	60	40	100	4
PT4005	Elective-I (Nanotechnology in Coatings)	3	-	100	-	100	3
PT4006	Project Work	-	6	-	100	100	4

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46.-Diploma in Printing Technology

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PR1001	English Communication	3	-	60	40	100	4
PR1002	Applied Mathematics-I	4	-	100	-	100	4
PR1003	Applied Physics-I	3	2	60	40	100	4
PR1004	Applied Chemistry	3	2	60	40	100	4
PR1005	Graphic Design & Layout Fundamentals	1	4	30	70	100	3
PR1006	Introduction to Printing Technology	3	-	100	-	100	3
PR1007	Printing Lab-I	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PR2001	Applied Mathematics-II	4	-	100	-	100	4
PR2002	Applied Physics-II	3	2	60	40	100	4
PR2003	Offset Printing Technology	3	2	60	40	100	4
PR2004	Digital Printing & Prepress Technology	3	-	100	-	100	3
PR2005	Printing Inks & Paper Technology	3	4	60	40	100	5
PR2006	Printing Lab-II	-	4	-	50	50	2
PR2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PR3001	Screen Printing & Flexography	2	4	40	60	100	4
PR3002	Gravure & Rotogravure Printing	3	2	60	40	100	4
PR3003	Packaging & Label Printing	3	2	60	40	100	4
PR3004	Binding & Finishing Technology	3	2	60	40	100	4
PR3005	Quality Control & Color Management	3	4	60	40	100	5
PR3006	Printing Lab-III	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PR4001	3D Printing & Additive Manufacturing	3	-	100	-	100	3
PR4002	Advanced Digital Printing & Workflow	3	2	60	40	100	4
PR4003	Printing Press Management & Maintenance	3	2	60	40	100	4
PR4004	Printing Business & Entrepreneurship	3	2	60	40	100	4
PR4005	Elective-I (Textile & Specialty Printing)	3	-	100	-	100	3
PR4006	Project Work	-	6	-	100	100	4

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47. Diploma in Environmental Engg.

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
EN1001	English Communication	3	-	60	40	100	4
EN1002	Applied Mathematics-I	4	-	100	-	100	4
EN1003	Applied Physics-I	3	2	60	40	100	4
EN1004	Applied Chemistry	3	2	60	40	100	4
EN1005	Engineering Drawing	1	4	30	70	100	3
EN1006	Introduction to Environmental Engineering	3	-	100	-	100	3
EN1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
EN2001	Applied Mathematics-II	4	-	100	-	100	4
EN2002	Applied Physics-II	3	2	60	40	100	4
EN2003	Environmental Chemistry & Microbiology	3	2	60	40	100	4
EN2004	Water Supply & Sanitation Engineering	3	-	100	-	100	3
EN2005	Air Pollution & Control Technology	3	4	60	40	100	5
EN2006	Environmental Lab-I	-	4	-	50	50	2
EN2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
EN3001	Wastewater Treatment & Management	2	4	40	60	100	4
EN3002	Solid Waste Management & Recycling	3	2	60	40	100	4
EN3003	Hazardous Waste Management	3	2	60	40	100	4
EN3004	Environmental Impact Assessment (EIA)	3	2	60	40	100	4
EN3005	Noise Pollution & Control	3	4	60	40	100	5
EN3006	Environmental Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
EN4001	Industrial Pollution Control & Treatment	3	-	100	-	100	3
EN4002	Environmental Monitoring & Instrumentation	3	2	60	40	100	4
EN4003	Environmental Laws & Regulations	3	2	60	40	100	4
EN4004	Climate Change & Sustainable Development	3	2	60	40	100	4
EN4005	Elective-I (Green Building & Energy Efficiency)	3	-	100	-	100	3
EN4006	Project Work	-	6	-	100	100	4

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48. Diploma in Fire & Safety Engg.

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FS1001	English Communication	3	-	60	40	100	4
FS1002	Applied Mathematics-I	4	-	100	-	100	4
FS1003	Applied Physics-I	3	2	60	40	100	4
FS1004	Applied Chemistry	3	2	60	40	100	4
FS1005	Engineering Drawing	1	4	30	70	100	3
FS1006	Introduction to Fire & Safety Engineering	3	-	100	-	100	3
FS1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FS2001	Applied Mathematics-II	4	-	100	-	100	4
FS2002	Applied Physics-II	3	2	60	40	100	4
FS2003	Fire Chemistry & Combustion Science	3	2	60	40	100	4
FS2004	Fire Prevention & Protection Systems	3	-	100	-	100	3
FS2005	Industrial Safety & Hazard Management	3	4	60	40	100	5
FS2006	Fire & Safety Lab-I	-	4	-	50	50	2
FS2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FS3001	Fire Detection & Alarm Systems	2	4	40	60	100	4
FS3002	Fire Suppression & Extinguishing Systems	3	2	60	40	100	4
FS3003	Building Fire Safety & Evacuation	3	2	60	40	100	4
FS3004	Occupational Health & Safety Management	3	2	60	40	100	4
FS3005	Electrical & Mechanical Safety	3	4	60	40	100	5
FS3006	Fire & Safety Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FS4001	Industrial Fire Safety & Risk Assessment	3	-	100	-	100	3
FS4002	Emergency Response & Disaster Management	3	2	60	40	100	4
FS4003	Fire Safety Laws & Regulations	3	2	60	40	100	4
FS4004	Process Safety & Chemical Hazards	3	2	60	40	100	4
FS4005	Elective-I (Oil & Gas Fire Safety)	3	-	100	-	100	3
FS4006	Project Work	-	6	-	100	100	4

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49. Diploma in Industrial Safety**Semester 1 (Foundation)**

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IS1001	English Communication	3	-	60	40	100	4
IS1002	Applied Mathematics-I	4	-	100	-	100	4
IS1003	Applied Physics-I	3	2	60	40	100	4
IS1004	Applied Chemistry	3	2	60	40	100	4
IS1005	Engineering Drawing	1	4	30	70	100	3
IS1006	Introduction to Industrial Safety	3	-	100	-	100	3
IS1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

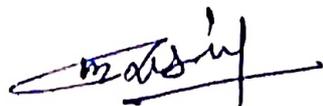
Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IS2001	Applied Mathematics-II	4	-	100	-	100	4
IS2002	Applied Physics-II	3	2	60	40	100	4
IS2003	Industrial Hazards & Risk Management	3	2	60	40	100	4
IS2004	Occupational Health & Hygiene	3	-	100	-	100	3
IS2005	Safety Management Systems	3	4	60	40	100	5
IS2006	Industrial Safety Lab-I	-	4	-	50	50	2
IS2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IS3001	Electrical & Mechanical Safety	2	4	40	60	100	4
IS3002	Process Safety & Loss Prevention	3	2	60	40	100	4
IS3003	Personal Protective Equipment (PPE)	3	2	60	40	100	4
IS3004	Workplace Safety & Ergonomics	3	2	60	40	100	4
IS3005	Industrial Fire Safety & Prevention	3	4	60	40	100	5
IS3006	Industrial Safety Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
IS4001	Construction & Scaffolding Safety	3	-	100	-	100	3
IS4002	Chemical Safety & Hazardous Materials	3	2	60	40	100	4
IS4003	Safety Audits & Inspections	3	2	60	40	100	4
IS4004	Industrial Safety Laws & Regulations	3	2	60	40	100	4
IS4005	Elective-I (Behavioral Safety & Training)	3	-	100	-	100	3
IS4006	Project Work	-	6	-	100	100	4






50. Diploma in Refrigeration & AC

Semester 1 (Foundation)

50

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
RA1001	English Communication	3	-	60	40	100	4
RA1002	Applied Mathematics-I	4	-	100	-	100	4
RA1003	Applied Physics-I	3	2	60	40	100	4
RA1004	Applied Chemistry	3	2	60	40	100	4
RA1005	Engineering Drawing	1	4	30	70	100	3
RA1006	Introduction to Refrigeration & Air Conditioning	3	-	100	-	100	3
RA1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
RA2001	Applied Mathematics-II	4	-	100	-	100	4
RA2002	Applied Physics-II	3	2	60	40	100	4
RA2003	Thermodynamics & Heat Transfer	3	2	60	40	100	4
RA2004	Refrigeration Systems & Components	3	-	100	-	100	3
RA2005	Electrical Machines & Controls	3	4	60	40	100	5
RA2006	RAC Lab-I	-	4	-	50	50	2
RA2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
RA3001	Air Conditioning Systems & Design	2	4	40	60	100	4
RA3002	Refrigerants & Properties	3	2	60	40	100	4
RA3003	Cold Storage & Ice Plant Technology	3	2	60	40	100	4
RA3004	HVAC System Design & Installation	3	2	60	40	100	4
RA3005	RAC Testing & Maintenance	3	4	60	40	100	5
RA3006	RAC Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
RA4001	Central Air Conditioning & VRF Systems	3	-	100	-	100	3
RA4002	Transport Refrigeration & Food Preservation	3	2	60	40	100	4
RA4003	Energy Conservation & Green HVAC	3	2	60	40	100	4
RA4004	RAC Service & Entrepreneurship	3	2	60	40	100	4
RA4005	Elective-I (Smart HVAC & Automation)	3	-	100	-	100	3
RA4006	Project Work	-	6	-	100	100	4

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51. Diploma in Building Construction

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
BC1001	English Communication	3	-	60	40	100	4
BC1002	Applied Mathematics-I	4	-	100	-	100	4
BC1003	Applied Physics-I	3	2	60	40	100	4
BC1004	Applied Chemistry	3	2	60	40	100	4
BC1005	Engineering Drawing	1	4	30	70	100	3
BC1006	Introduction to Building Construction	3	-	100	-	100	3
BC1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
BC2001	Applied Mathematics-II	4	-	100	-	100	4
BC2002	Applied Physics-II	3	2	60	40	100	4
BC2003	Building Materials & Construction Technology	3	2	60	40	100	4
BC2004	Surveying & Levelling	3	-	100	-	100	3
BC2005	Building Drawing & Planning	3	4	60	40	100	5
BC2006	Construction Lab-I	-	4	-	50	50	2
BC2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
BC3001	Concrete Technology & RCC Design	2	4	40	60	100	4
BC3002	Construction Methods & Equipment	3	2	60	40	100	4
BC3003	Estimation & Costing	3	2	60	40	100	4
BC3004	Structural Engineering Basics	3	2	60	40	100	4
BC3005	Building Services & Plumbing	3	4	60	40	100	5
BC3006	Construction Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
BC4001	Construction Project Management	3	-	100	-	100	3
BC4002	Advanced Construction Technology	3	2	60	40	100	4
BC4003	Building Codes & Safety Standards	3	2	60	40	100	4
BC4004	Valuation & Contracts Management	3	2	60	40	100	4
BC4005	Elective-I (Green Building & Sustainability)	3	-	100	-	100	3
BC4006	Project Work	-	6	-	100	100	4

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52. Diploma in Surveying Engineering

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
SV1001	English Communication	3	-	60	40	100	4
SV1002	Applied Mathematics-I	4	-	100	-	100	4
SV1003	Applied Physics-I	3	2	60	40	100	4
SV1004	Applied Chemistry	3	2	60	40	100	4
SV1005	Engineering Drawing	1	4	30	70	100	3
SV1006	Introduction to Surveying Engineering	3	-	100	-	100	3
SV1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
SV2001	Applied Mathematics-II	4	-	100	-	100	4
SV2002	Applied Physics-II	3	2	60	40	100	4
SV2003	Land Surveying & Levelling	3	2	60	40	100	4
SV2004	Theodolite & Total Station Surveying	3	-	100	-	100	3
SV2005	Engineering Drawing & CAD	3	4	60	40	100	5
SV2006	Surveying Lab-I	-	4	-	50	50	2
SV2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
SV3001	Geodetic Surveying & GPS	2	4	40	60	100	4
SV3002	Remote Sensing & GIS	3	2	60	40	100	4
SV3003	Photogrammetry & Aerial Surveying	3	2	60	40	100	4
SV3004	Hydrographic Surveying	3	2	60	40	100	4
SV3005	Surveying Computations & Adjustments	3	4	60	40	100	5
SV3006	Surveying Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
SV4001	Mine & Industrial Surveying	3	-	100	-	100	3
SV4002	Route Surveying & Highway Design	3	2	60	40	100	4
SV4003	Land Laws & Survey Regulations	3	2	60	40	100	4
SV4004	Advanced GIS & Digital Mapping	3	2	60	40	100	4
SV4005	Elective-I (LIDAR & Laser Scanning)	3	-	100	-	100	3
SV4006	Project Work	-	6	-	100	100	4

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53. Diploma in GIS & Remote Sensing



Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
GR1001	English Communication	3	-	60	40	100	4
GR1002	Applied Mathematics-I	4	-	100	-	100	4
GR1003	Applied Physics-I	3	2	60	40	100	4
GR1004	Applied Chemistry	3	2	60	40	100	4
GR1005	Computer Fundamentals & Programming	1	4	30	70	100	3
GR1006	Introduction to GIS & Remote Sensing	3	-	100	-	100	3
GR1007	GIS Lab-I	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
GR2001	Applied Mathematics-II	4	-	100	-	100	4
GR2002	Applied Physics-II	3	2	60	40	100	4
GR2003	Fundamentals of Remote Sensing	3	2	60	40	100	4
GR2004	Geographic Information Systems (GIS)	3	-	100	-	100	3
GR2005	Cartography & Map Interpretation	3	4	60	40	100	5
GR2006	GIS Lab-II	-	4	-	50	50	2
GR2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
GR3001	Digital Image Processing	2	4	40	60	100	4
GR3002	Spatial Data Analysis & Modeling	3	2	60	40	100	4
GR3003	GPS & GNSS Technology	3	2	60	40	100	4
GR3004	Web GIS & Geospatial Applications	3	2	60	40	100	4
GR3005	Remote Sensing Applications	3	4	60	40	100	5
GR3006	GIS Lab-III	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
GR4001	Advanced GIS & 3D Mapping	3	-	100	-	100	3
GR4002	LiDAR & Drone Technology	3	2	60	40	100	4
GR4003	GIS in Natural Resource Management	3	2	60	40	100	4
GR4004	GIS Programming & Automation	3	2	60	40	100	4
GR4005	Elective-I (Urban Planning & Smart Cities)	3	-	100	-	100	3
GR4006	Project Work	-	6	-	100	100	4

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54. Diploma in Food Technology

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FT1001	English Communication	3	-	60	40	100	4
FT1002	Applied Mathematics-I	4	-	100	-	100	4
FT1003	Applied Physics-I	3	2	60	40	100	4
FT1004	Applied Chemistry	3	2	60	40	100	4
FT1005	Engineering Drawing	1	4	30	70	100	3
FT1006	Introduction to Food Technology	3	-	100	-	100	3
FT1007	Food Technology Lab-I	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FT2001	Applied Mathematics-II	4	-	100	-	100	4
FT2002	Applied Physics-II	3	2	60	40	100	4
FT2003	Food Chemistry & Biochemistry	3	2	60	40	100	4
FT2004	Food Microbiology & Safety	3	-	100	-	100	3
FT2005	Unit Operations in Food Processing	3	4	60	40	100	5
FT2006	Food Technology Lab-II	-	4	-	50	50	2
FT2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FT3001	Food Preservation & Processing Technology	2	4	40	60	100	4
FT3002	Dairy & Beverage Technology	3	2	60	40	100	4
FT3003	Fruits & Vegetable Processing	3	2	60	40	100	4
FT3004	Cereal & Bakery Technology	3	2	60	40	100	4
FT3005	Food Quality Control & Analysis	3	4	60	40	100	5
FT3006	Food Technology Lab-III	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FT4001	Food Packaging & Storage Technology	3	-	100	-	100	3
FT4002	Meat, Fish & Poultry Processing	3	2	60	40	100	4
FT4003	Food Plant Management & Safety	3	2	60	40	100	4
FT4004	Food Laws & Standards	3	2	60	40	100	4
FT4005	Elective-I (Functional Foods & Nutraceuticals)	3	-	100	-	100	3
FT4006	Project Work	-	6	-	100	100	4

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55. Diploma in Biotechnology

Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
BT1001	English Communication	3	-	60	40	100	4
BT1002	Applied Mathematics-I	4	-	100	-	100	4
BT1003	Applied Physics-I	3	2	60	40	100	4
BT1004	Applied Chemistry	3	2	60	40	100	4
BT1005	Engineering Drawing	1	4	30	70	100	3
BT1006	Introduction to Biotechnology	3	-	100	-	100	3
BT1007	Biotechnology Lab-I	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
BT2001	Applied Mathematics-II	4	-	100	-	100	4
BT2002	Applied Physics-II	3	2	60	40	100	4
BT2003	Biochemistry & Cell Biology	3	2	60	40	100	4
BT2004	Microbiology & Immunology	3	-	100	-	100	3
BT2005	Molecular Biology & Genetics	3	4	60	40	100	5
BT2006	Biotechnology Lab-II	-	4	-	50	50	2
BT2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
BT3001	Recombinant DNA Technology	2	4	40	60	100	4
BT3002	Industrial Biotechnology & Bioreactors	3	2	60	40	100	4
BT3003	Plant & Animal Biotechnology	3	2	60	40	100	4
BT3004	Bioprocess Engineering & Technology	3	2	60	40	100	4
BT3005	Bioinformatics & Computational Biology	3	4	60	40	100	5
BT3006	Biotechnology Lab-III	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
BT4001	Medical & Pharmaceutical Biotechnology	3	-	100	-	100	3
BT4002	Environmental Biotechnology	3	2	60	40	100	4
BT4003	Biosafety & Bioethics	3	2	60	40	100	4
BT4004	Quality Control & Regulatory Affairs	3	2	60	40	100	4
BT4005	Elective-I (Nanobiotechnology)	3	-	100	-	100	3
BT4006	Project Work	-	6	-	100	100	4

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56. Diploma in Agricultural Engg.

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AG1001	English Communication	3	-	60	40	100	4
AG1002	Applied Mathematics-I	4	-	100	-	100	4
AG1003	Applied Physics-I	3	2	60	40	100	4
AG1004	Applied Chemistry	3	2	60	40	100	4
AG1005	Engineering Drawing	1	4	30	70	100	3
AG1006	Introduction to Agricultural Engineering	3	-	100	-	100	3
AG1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AG2001	Applied Mathematics-II	4	-	100	-	100	4
AG2002	Applied Physics-II	3	2	60	40	100	4
AG2003	Soil Science & Water Management	3	2	60	40	100	4
AG2004	Farm Machinery & Equipment	3	-	100	-	100	3
AG2005	Engineering Mechanics & Strength of Materials	3	4	60	40	100	5
AG2006	Agricultural Lab-I	-	4	-	50	50	2
AG2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AG3001	Irrigation & Drainage Engineering	2	4	40	60	100	4
AG3002	Tractor & Power Machinery	3	2	60	40	100	4
AG3003	Harvesting & Threshing Machinery	3	2	60	40	100	4
AG3004	Post-Harvest Technology & Processing	3	2	60	40	100	4
AG3005	Agricultural Structures & Environmental Control	3	4	60	40	100	5
AG3006	Agricultural Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AG4001	Renewable Energy in Agriculture	3	-	100	-	100	3
AG4002	Precision Agriculture & GPS Technology	3	2	60	40	100	4
AG4003	Farm Management & Agribusiness	3	2	60	40	100	4
AG4004	Agricultural Mechanization & Automation	3	2	60	40	100	4
AG4005	Elective-I (Organic Farming & Sustainability)	3	-	100	-	100	3
AG4006	Project Work	-	6	-	100	100	4

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AE1001	English Communication	3	-	60	40	100	4
AE1002	Applied Mathematics-I	4	-	100	-	100	4
AE1003	Applied Physics-I	3	2	60	40	100	4
AE1004	Applied Chemistry	3	2	60	40	100	4
AE1005	Engineering Drawing	1	4	30	70	100	3
AE1006	Introduction to Aeronautical Engineering	3	-	100	-	100	3
AE1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AE2001	Applied Mathematics-II	4	-	100	-	100	4
AE2002	Applied Physics-II	3	2	60	40	100	4
AE2003	Engineering Mechanics & Strength of Materials	3	2	60	40	100	4
AE2004	Thermodynamics & Fluid Mechanics	3	-	100	-	100	3
AE2005	Fundamentals of Aerodynamics	3	4	60	40	100	5
AE2006	Aeronautical Lab-I	-	4	-	50	50	2
AE2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AE3001	Aircraft Structures & Materials	2	4	40	60	100	4
AE3002	Aircraft Propulsion & Engines	3	2	60	40	100	4
AE3003	Flight Mechanics & Control Systems	3	2	60	40	100	4
AE3004	Avionics & Aircraft Systems	3	2	60	40	100	4
AE3005	Aircraft Manufacturing & Production	3	4	60	40	100	5
AE3006	Aeronautical Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AE4001	Aircraft Maintenance & Repair	3	-	100	-	100	3
AE4002	Aerospace Instrumentation & Testing	3	2	60	40	100	4
AE4003	Aviation Safety & Regulations	3	2	60	40	100	4
AE4004	Aircraft Design & CAD	3	2	60	40	100	4
AE4005	Elective-I (UAV & Drone Technology)	3	-	100	-	100	3
AE4006	Project Work	-	6	-	100	100	4

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58. Diploma in Aircraft Maintenance

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AM1001	English Communication	3	-	60	40	100	4
AM1002	Applied Mathematics-I	4	-	100	-	100	4
AM1003	Applied Physics-I	3	2	60	40	100	4
AM1004	Applied Chemistry	3	2	60	40	100	4
AM1005	Engineering Drawing	1	4	30	70	100	3
AM1006	Introduction to Aircraft Maintenance	3	-	100	-	100	3
AM1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AM2001	Applied Mathematics-II	4	-	100	-	100	4
AM2002	Applied Physics-II	3	2	60	40	100	4
AM2003	Aircraft Structures & Materials	3	2	60	40	100	4
AM2004	Aircraft Electrical Systems	3	-	100	-	100	3
AM2005	Aircraft Mechanical Systems	3	4	60	40	100	5
AM2006	Aircraft Maintenance Lab-I	-	4	-	50	50	2
AM2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AM3001	Aircraft Engines & Powerplants	2	4	40	60	100	4
AM3002	Avionics & Instruments	3	2	60	40	100	4
AM3003	Aircraft Hydraulic & Pneumatic Systems	3	2	60	40	100	4
AM3004	Aircraft Inspection & Troubleshooting	3	2	60	40	100	4
AM3005	NDT & Quality Control	3	4	60	40	100	5
AM3006	Aircraft Maintenance Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
AM4001	Aircraft Maintenance Management	3	-	100	-	100	3
AM4002	Aircraft Repair & Overhaul Technology	3	2	60	40	100	4
AM4003	Aviation Safety & Human Factors	3	2	60	40	100	4
AM4004	Airworthiness & Regulations (DGCA/FAA)	3	2	60	40	100	4
AM4005	Elective-I (Composite Aircraft Repair)	3	-	100	-	100	3
AM4006	Project Work	-	6	-	100	100	4

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59. Diploma in Marine Engineering

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ME1001	English Communication	3	-	60	40	100	4
ME1002	Applied Mathematics-I	4	-	100	-	100	4
ME1003	Applied Physics-I	3	2	60	40	100	4
ME1004	Applied Chemistry	3	2	60	40	100	4
ME1005	Engineering Drawing	1	4	30	70	100	3
ME1006	Introduction to Marine Engineering	3	-	100	-	100	3
ME1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ME2001	Applied Mathematics-II	4	-	100	-	100	4
ME2002	Applied Physics-II	3	2	60	40	100	4
ME2003	Ship Construction & Stability	3	2	60	40	100	4
ME2004	Marine Engines & Propulsion Systems	3	-	100	-	100	3
ME2005	Thermodynamics & Heat Transfer	3	4	60	40	100	5
ME2006	Marine Lab-I	-	4	-	50	50	2
ME2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ME3001	Marine Diesel Engines & Maintenance	2	4	40	60	100	4
ME3002	Marine Electrical & Electronics Systems	3	2	60	40	100	4
ME3003	Marine Auxiliary Machinery	3	2	60	40	100	4
ME3004	Marine Boilers & Steam Systems	3	2	60	40	100	4
ME3005	Marine Refrigeration & Air Conditioning	3	4	60	40	100	5
ME3006	Marine Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ME4001	Ship Automation & Control Systems	3	-	100	-	100	3
ME4002	Marine Safety & Pollution Control	3	2	60	40	100	4
ME4003	Marine Engineering Workshop & Welding	3	2	60	40	100	4
ME4004	Maritime Laws & Regulations (IMO/SOLAS)	3	2	60	40	100	4
ME4005	Elective-I (Offshore Engineering)	3	-	100	-	100	3
ME4006	Project Work	-	6	-	100	100	4

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60. Diploma in Naval Architecture

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
NA1001	English Communication	3	-	60	40	100	4
NA1002	Applied Mathematics-I	4	-	100	-	100	4
NA1003	Applied Physics-I	3	2	60	40	100	4
NA1004	Applied Chemistry	3	2	60	40	100	4
NA1005	Engineering Drawing	1	4	30	70	100	3
NA1006	Introduction to Naval Architecture	3	-	100	-	100	3
NA1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
NA2001	Applied Mathematics-II	4	-	100	-	100	4
NA2002	Applied Physics-II	3	2	60	40	100	4
NA2003	Ship Geometry & Hydrostatics	3	2	60	40	100	4
NA2004	Strength of Materials & Structures	3	-	100	-	100	3
NA2005	Naval Architecture Drawing & CAD	3	4	60	40	100	5
NA2006	Naval Architecture Lab-I	-	4	-	50	50	2
NA2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
NA3001	Ship Stability & Trim	2	4	40	60	100	4
NA3002	Ship Resistance & Propulsion	3	2	60	40	100	4
NA3003	Ship Structural Design & Analysis	3	2	60	40	100	4
NA3004	Shipbuilding Technology & Methods	3	2	60	40	100	4
NA3005	Marine Hydrodynamics	3	4	60	40	100	5
NA3006	Naval Architecture Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
NA4001	Ship Design & Computer-Aided Design	3	-	100	-	100	3
NA4002	Offshore Structures & Systems	3	2	60	40	100	4
NA4003	Shipyards Management & Production	3	2	60	40	100	4
NA4004	Maritime Safety & Regulations	3	2	60	40	100	4
NA4005	Elective-I (Yacht & Boat Design)	3	-	100	-	100	3
NA4006	Project Work	-	6	-	100	100	4

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61. Diploma in Petroleum Engineering

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PE1001	English Communication	3	-	60	40	100	4
PE1002	Applied Mathematics-I	4	-	100	-	100	4
PE1003	Applied Physics-I	3	2	60	40	100	4
PE1004	Applied Chemistry	3	2	60	40	100	4
PE1005	Engineering Drawing	1	4	30	70	100	3
PE1006	Introduction to Petroleum Engineering	3	-	100	-	100	3
PE1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PE2001	Applied Mathematics-II	4	-	100	-	100	4
PE2002	Applied Physics-II	3	2	60	40	100	4
PE2003	Geology & Geophysics	3	2	60	40	100	4
PE2004	Drilling Engineering Fundamentals	3	-	100	-	100	3
PE2005	Fluid Mechanics & Thermodynamics	3	4	60	40	100	5
PE2006	Petroleum Lab-I	-	4	-	50	50	2
PE2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PE3001	Reservoir Engineering	2	4	40	60	100	4
PE3002	Production Engineering	3	2	60	40	100	4
PE3003	Well Logging & Formation Evaluation	3	2	60	40	100	4
PE3004	Petroleum Refining & Petrochemicals	3	2	60	40	100	4
PE3005	Natural Gas Engineering	3	4	60	40	100	5
PE3006	Petroleum Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PE4001	Enhanced Oil Recovery (EOR)	3	-	100	-	100	3
PE4002	Offshore & Subsea Engineering	3	2	60	40	100	4
PE4003	HSE in Petroleum Industry	3	2	60	40	100	4
PE4004	Petroleum Economics & Management	3	2	60	40	100	4
PE4005	Elective-I (LNG Technology)	3	-	100	-	100	3
PE4006	Project Work	-	6	-	100	100	4

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62. Diploma in Polymer Technology

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PO1001	English Communication	3	-	60	40	100	4
PO1002	Applied Mathematics-I	4	-	100	-	100	4
PO1003	Applied Physics-I	3	2	60	40	100	4
PO1004	Applied Chemistry	3	2	60	40	100	4
PO1005	Engineering Drawing	1	4	30	70	100	3
PO1006	Introduction to Polymer Technology	3	-	100	-	100	3
PO1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PO2001	Applied Mathematics-II	4	-	100	-	100	4
PO2002	Applied Physics-II	3	2	60	40	100	4
PO2003	Polymer Chemistry & Structure	3	2	60	40	100	4
PO2004	Polymer Synthesis & Reactions	3	-	100	-	100	3
PO2005	Polymer Processing Technology-I	3	4	60	40	100	5
PO2006	Polymer Lab-I	-	4	-	50	50	2
PO2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PO3001	Polymer Processing Technology-II	2	4	40	60	100	4
PO3002	Rubber & Elastomer Technology	3	2	60	40	100	4
PO3003	Plastic Technology & Moulding	3	2	60	40	100	4
PO3004	Polymer Compounding & Additives	3	2	60	40	100	4
PO3005	Polymer Testing & Characterization	3	4	60	40	100	5
PO3006	Polymer Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PO4001	Advanced Polymer Technology	3	-	100	-	100	3
PO4002	Polymer Recycling & Waste Management	3	2	60	40	100	4
PO4003	Polymer Industry Safety & Quality Control	3	2	60	40	100	4
PO4004	Polymer Plant Management & Economics	3	2	60	40	100	4
PO4005	Elective-I (Bio-Polymers & Green Technology)	3	-	100	-	100	3
PO4006	Project Work	-	6	-	100	100	4

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63. Diploma in Rubber Technology

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
RT1001	English Communication	3	-	60	40	100	4
RT1002	Applied Mathematics-I	4	-	100	-	100	4
RT1003	Applied Physics-I	3	2	60	40	100	4
RT1004	Applied Chemistry	3	2	60	40	100	4
RT1005	Engineering Drawing	1	4	30	70	100	3
RT1006	Introduction to Rubber Technology	3	-	100	-	100	3
RT1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
RT2001	Applied Mathematics-II	4	-	100	-	100	4
RT2002	Applied Physics-II	3	2	60	40	100	4
RT2003	Rubber Chemistry & Properties	3	2	60	40	100	4
RT2004	Natural & Synthetic Rubber	3	-	100	-	100	3
RT2005	Rubber Processing Technology-I	3	4	60	40	100	5
RT2006	Rubber Lab-I	-	4	-	50	50	2
RT2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
RT3001	Rubber Processing Technology-II	2	4	40	60	100	4
RT3002	Rubber Compounding & Mixing	3	2	60	40	100	4
RT3003	Rubber Vulcanization & Curing	3	2	60	40	100	4
RT3004	Rubber Products Manufacturing	3	2	60	40	100	4
RT3005	Rubber Testing & Quality Control	3	4	60	40	100	5
RT3006	Rubber Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
RT4001	Advanced Rubber Technology	3	-	100	-	100	3
RT4002	Rubber Recycling & Waste Management	3	2	60	40	100	4
RT4003	Tyre Technology & Manufacturing	3	2	60	40	100	4
RT4004	Rubber Plant Management & Economics	3	2	60	40	100	4
RT4005	Elective-I (Green Rubber & Sustainable Technology)	3	-	100	-	100	3
RT4006	Project Work	-	6	-	100	100	4

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64. Diploma in Sugar Technology

Semester 1 (Foundation)

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Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ST1001	English Communication	3	-	60	40	100	4
ST1002	Applied Mathematics-I	4	-	100	-	100	4
ST1003	Applied Physics-I	3	2	60	40	100	4
ST1004	Applied Chemistry	3	2	60	40	100	4
ST1005	Engineering Drawing	1	4	30	70	100	3
ST1006	Introduction to Sugar Technology	3	-	100	-	100	3
ST1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ST2001	Applied Mathematics-II	4	-	100	-	100	4
ST2002	Applied Physics-II	3	2	60	40	100	4
ST2003	Sugar Chemistry & Biochemistry	3	2	60	40	100	4
ST2004	Sugarcane Agriculture & Cultivation	3	-	100	-	100	3
ST2005	Sugar Processing Technology-I	3	4	60	40	100	5
ST2006	Sugar Lab-I	-	4	-	50	50	2
ST2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ST3001	Sugar Processing Technology-II	2	4	40	60	100	4
ST3002	Sugar Mill Machinery & Equipment	3	2	60	40	100	4
ST3003	Sugar Crystallization & Refining	3	2	60	40	100	4
ST3004	Jaggery & By-Products Technology	3	2	60	40	100	4
ST3005	Sugar Analysis & Quality Control	3	4	60	40	100	5
ST3006	Sugar Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
ST4001	Advanced Sugar Technology	3	-	100	-	100	3
ST4002	Ethanol & Bio-Fuels from Molasses	3	2	60	40	100	4
ST4003	Sugar Mill Maintenance & Engineering	3	2	60	40	100	4
ST4004	Sugar Mill Management & Economics	3	2	60	40	100	4
ST4005	Elective-I (Cogeneration & Energy Management)	3	-	100	-	100	3
ST4006	Project Work	-	6	-	100	100	4

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65. Diploma in Paper & Pulp Tech.

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PP1001	English Communication	3	-	60	40	100	4
PP1002	Applied Mathematics-I	4	-	100	-	100	4
PP1003	Applied Physics-I	3	2	60	40	100	4
PP1004	Applied Chemistry	3	2	60	40	100	4
PP1005	Engineering Drawing	1	4	30	70	100	3
PP1006	Introduction to Paper & Pulp Technology	3	-	100	-	100	3
PP1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PP2001	Applied Mathematics-II	4	-	100	-	100	4
PP2002	Applied Physics-II	3	2	60	40	100	4
PP2003	Pulp & Paper Chemistry	3	2	60	40	100	4
PP2004	Raw Materials & Fiber Science	3	-	100	-	100	3
PP2005	Pulping Technology-I	3	4	60	40	100	5
PP2006	Pulp & Paper Lab-I	-	4	-	50	50	2
PP2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PP3001	Pulping Technology-II	2	4	40	60	100	4
PP3002	Paper Making Technology	3	2	60	40	100	4
PP3003	Bleaching & Chemical Recovery	3	2	60	40	100	4
PP3004	Paper Coating & Finishing Technology	3	2	60	40	100	4
PP3005	Pulp & Paper Testing & Quality Control	3	4	60	40	100	5
PP3006	Pulp & Paper Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PP4001	Advanced Paper Technology	3	-	100	-	100	3
PP4002	Specialty Papers & Packaging	3	2	60	40	100	4
PP4003	Paper Mill Machinery & Maintenance	3	2	60	40	100	4
PP4004	Paper Mill Management & Economics	3	2	60	40	100	4
PP4005	Elective-I (Waste Paper Recycling & Green Technology)	3	-	100	-	100	3
PP4006	Project Work	-	6	-	100	100	4

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66.-Diploma in Leather Technology

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
LT1001	English Communication	3	-	60	40	100	4
LT1002	Applied Mathematics-I	4	-	100	-	100	4
LT1003	Applied Physics-I	3	2	60	40	100	4
LT1004	Applied Chemistry	3	2	60	40	100	4
LT1005	Engineering Drawing	1	4	30	70	100	3
LT1006	Introduction to Leather Technology	3	-	100	-	100	3
LT1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
LT2001	Applied Mathematics-II	4	-	100	-	100	4
LT2002	Applied Physics-II	3	2	60	40	100	4
LT2003	Leather Chemistry & Biochemistry	3	2	60	40	100	4
LT2004	Hide & Skin Anatomy	3	-	100	-	100	3
LT2005	Leather Processing Technology-I	3	4	60	40	100	5
LT2006	Leather Lab-I	-	4	-	50	50	2
LT2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
LT3001	Leather Processing Technology-II	2	4	40	60	100	4
LT3002	Tanning Technology & Methods	3	2	60	40	100	4
LT3003	Leather Finishing & Coloring	3	2	60	40	100	4
LT3004	Footwear & Leather Goods Manufacturing	3	2	60	40	100	4
LT3005	Leather Testing & Quality Control	3	4	60	40	100	5
LT3006	Leather Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
LT4001	Advanced Leather Technology	3	-	100	-	100	3
LT4002	Leather Waste Management & By-Products	3	2	60	40	100	4
LT4003	Leather Machinery & Maintenance	3	2	60	40	100	4
LT4004	Leather Plant Management & Economics	3	2	60	40	100	4
LT4005	Elective-I (Exotic Leather & Specialty Products)	3	-	100	-	100	3
LT4006	Project Work	-	6	-	100	100	4

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67. Diploma in Footwear Technology

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FW1001	English Communication	3	-	60	40	100	4
FW1002	Applied Mathematics-I	4	-	100	-	100	4
FW1003	Applied Physics-I	3	2	60	40	100	4
FW1004	Applied Chemistry	3	2	60	40	100	4
FW1005	Engineering Drawing & Design	1	4	30	70	100	3
FW1006	Introduction to Footwear Technology	3	-	100	-	100	3
FW1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FW2001	Applied Mathematics-II	4	-	100	-	100	4
FW2002	Applied Physics-II	3	2	60	40	100	4
FW2003	Footwear Materials & Leather Science	3	2	60	40	100	4
FW2004	Footwear Design & Pattern Making	3	-	100	-	100	3
FW2005	Footwear Manufacturing Technology-I	3	4	60	40	100	5
FW2006	Footwear Lab-I	-	4	-	50	50	2
FW2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FW3001	Footwear Manufacturing Technology-II	2	4	40	60	100	4
FW3002	Shoe Construction & Lasting Technology	3	2	60	40	100	4
FW3003	Footwear Components & Accessories	3	2	60	40	100	4
FW3004	Sports & Specialty Footwear	3	2	60	40	100	4
FW3005	Footwear Testing & Quality Control	3	4	60	40	100	5
FW3006	Footwear Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FW4001	Advanced Footwear Technology	3	-	100	-	100	3
FW4002	Footwear CAD/CAM & Automation	3	2	60	40	100	4
FW4003	Footwear Machinery & Maintenance	3	2	60	40	100	4
FW4004	Footwear Plant Management & Costing	3	2	60	40	100	4
FW4005	Elective-I (Fashion Footwear & Sustainable Production)	3	-	100	-	100	3
FW4006	Project Work	-	6	-	100	100	4

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68. Diploma in Quality Control

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
QC1001	English Communication	3	-	60	40	100	4
QC1002	Applied Mathematics-I	4	-	100	-	100	4
QC1003	Applied Physics-I	3	2	60	40	100	4
QC1004	Applied Chemistry	3	2	60	40	100	4
QC1005	Engineering Drawing	1	4	30	70	100	3
QC1006	Introduction to Quality Control	3	-	100	-	100	3
QC1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
QC2001	Applied Mathematics-II	4	-	100	-	100	4
QC2002	Applied Physics-II	3	2	60	40	100	4
QC2003	Statistical Quality Control	3	2	60	40	100	4
QC2004	Metrology & Measurement	3	-	100	-	100	3
QC2005	Quality Management Systems-I	3	4	60	40	100	5
QC2006	Quality Control Lab-I	-	4	-	50	50	2
QC2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
QC3001	Quality Management Systems-II	2	4	40	60	100	4
QC3002	ISO Standards & Certification	3	2	60	40	100	4
QC3003	Total Quality Management (TQM)	3	2	60	40	100	4
QC3004	Inspection & Testing Technology	3	2	60	40	100	4
QC3005	Non-Destructive Testing (NDT)	3	4	60	40	100	5
QC3006	Quality Control Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
QC4001	Advanced Quality Control Techniques	3	-	100	-	100	3
QC4002	Six Sigma & Lean Manufacturing	3	2	60	40	100	4
QC4003	Quality Auditing & Compliance	3	2	60	40	100	4
QC4004	Quality Cost & Economics	3	2	60	40	100	4
QC4005	Elective-I (Reliability Engineering & Quality 4.0)	3	-	100	-	100	3
QC4006	Project Work	-	6	-	100	100	4

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69. Diploma in Welding Technology

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
WT1001	English Communication	3	-	60	40	100	4
WT1002	Applied Mathematics-I	4	-	100	-	100	4
WT1003	Applied Physics-I	3	2	60	40	100	4
WT1004	Applied Chemistry	3	2	60	40	100	4
WT1005	Engineering Drawing	1	4	30	70	100	3
WT1006	Introduction to Welding Technology	3	-	100	-	100	3
WT1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
WT2001	Applied Mathematics-II	4	-	100	-	100	4
WT2002	Applied Physics-II	3	2	60	40	100	4
WT2003	Welding Metallurgy & Materials	3	2	60	40	100	4
WT2004	Arc Welding Processes	3	-	100	-	100	3
WT2005	Welding Technology-I	3	4	60	40	100	5
WT2006	Welding Lab-I	-	4	-	50	50	2
WT2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
WT3001	Welding Technology-II	2	4	40	60	100	4
WT3002	Gas Welding & Cutting Technology	3	2	60	40	100	4
WT3003	Special Welding Processes (TIG, MIG, MAG)	3	2	60	40	100	4
WT3004	Welding Design & Fabrication	3	2	60	40	100	4
WT3005	Welding Inspection & Quality Control	3	4	60	40	100	5
WT3006	Welding Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
WT4001	Advanced Welding Technology	3	-	100	-	100	3
WT4002	Welding Automation & Robotics	3	2	60	40	100	4
WT4003	Welding Safety & Health Management	3	2	60	40	100	4
WT4004	Welding Plant Management & Costing	3	2	60	40	100	4
WT4005	Elective-I (Underwater Welding & Laser Welding)	3	-	100	-	100	3
WT4006	Project Work	-	6	-	100	100	4

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70. Diploma in Foundry Technology

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FT1001	English Communication	3	-	60	40	100	4
FT1002	Applied Mathematics-I	4	-	100	-	100	4
FT1003	Applied Physics-I	3	2	60	40	100	4
FT1004	Applied Chemistry	3	2	60	40	100	4
FT1005	Engineering Drawing	1	4	30	70	100	3
FT1006	Introduction to Foundry Technology	3	-	100	-	100	3
FT1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FT2001	Applied Mathematics-II	4	-	100	-	100	4
FT2002	Applied Physics-II	3	2	60	40	100	4
FT2003	Foundry Metallurgy & Materials	3	2	60	40	100	4
FT2004	Moulding & Core Making	3	-	100	-	100	3
FT2005	Foundry Technology-I	3	4	60	40	100	5
FT2006	Foundry Lab-I	-	4	-	50	50	2
FT2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FT3001	Foundry Technology-II	2	4	40	60	100	4
FT3002	Melting & Casting Technology	3	2	60	40	100	4
FT3003	Special Casting Processes (Die, Investment, Centrifugal)	3	2	60	40	100	4
FT3004	Foundry Design & Pattern Making	3	2	60	40	100	4
FT3005	Foundry Inspection & Quality Control	3	4	60	40	100	5
FT3006	Foundry Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
FT4001	Advanced Foundry Technology	3	-	100	-	100	3
FT4002	Foundry Automation & Mechanization	3	2	60	40	100	4
FT4003	Foundry Safety & Environmental Management	3	2	60	40	100	4
FT4004	Foundry Plant Management & Costing	3	2	60	40	100	4
FT4005	Elective-I (3D Printing in Foundry & Precision Casting)	3	-	100	-	100	3
FT4006	Project Work	-	6	-	100	100	4

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71. Diploma in CAD/CAM Tech.

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CC1001	English Communication	3	-	60	40	100	4
CC1002	Applied Mathematics-I	4	-	100	-	100	4
CC1003	Applied Physics-I	3	2	60	40	100	4
CC1004	Applied Chemistry	3	2	60	40	100	4
CC1005	Engineering Drawing & Graphics	1	4	30	70	100	3
CC1006	Introduction to CAD/CAM Technology	3	-	100	-	100	3
CC1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CC2001	Applied Mathematics-II	4	-	100	-	100	4
CC2002	Applied Physics-II	3	2	60	40	100	4
CC2003	Computer Aided Design (CAD) Fundamentals	3	2	60	40	100	4
CC2004	Manufacturing Processes & Technology	3	-	100	-	100	3
CC2005	2D & 3D Modeling-I	3	4	60	40	100	5
CC2006	CAD/CAM Lab-I	-	4	-	50	50	2
CC2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CC3001	2D & 3D Modeling-II	2	4	40	60	100	4
CC3002	Computer Aided Manufacturing (CAM)	3	2	60	40	100	4
CC3003	CNC Programming & Operations	3	2	60	40	100	4
CC3004	Product Design & Development	3	2	60	40	100	4
CC3005	Solid Modeling & Simulation	3	4	60	40	100	5
CC3006	CAD/CAM Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
CC4001	Advanced CAD/CAM Technology	3	-	100	-	100	3
CC4002	CAD/CAM Integration & Automation	3	2	60	40	100	4
CC4003	Rapid Prototyping & Additive Manufacturing	3	2	60	40	100	4
CC4004	Industrial CAD/CAM Applications	3	2	60	40	100	4
CC4005	Elective-I (Reverse Engineering & 3D Scanning)	3	-	100	-	100	3
CC4006	Project Work	-	6	-	100	100	4

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
TP1001	English Communication	3	-	60	40	100	4
TP1002	Applied Mathematics-I	4	-	100	-	100	4
TP1003	Applied Physics-I	3	2	60	40	100	4
TP1004	Applied Chemistry	3	2	60	40	100	4
TP1005	Engineering Drawing & Design	1	4	30	70	100	3
TP1006	Introduction to 3D Printing & Additive Manufacturing	3	-	100	-	100	3
TP1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
TP2001	Applied Mathematics-II	4	-	100	-	100	4
TP2002	Applied Physics-II	3	2	60	40	100	4
TP2003	3D Modeling & CAD for Printing	3	2	60	40	100	4
TP2004	Materials for 3D Printing	3	-	100	-	100	3
TP2005	3D Printing Technology-I (FDM & SLA)	3	4	60	40	100	5
TP2006	3D Printing Lab-I	-	4	-	50	50	2
TP2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
TP3001	3D Printing Technology-II (SLS, DMLS, Binder Jetting)	2	4	40	60	100	4
TP3002	3D Scanner & Reverse Engineering	3	2	60	40	100	4
TP3003	Post-Processing & Finishing Techniques	3	2	60	40	100	4
TP3004	Product Design for Additive Manufacturing	3	2	60	40	100	4
TP3005	3D Printing Quality Control & Testing	3	4	60	40	100	5
TP3006	3D Printing Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
TP4001	Advanced 3D Printing Technologies	3	-	100	-	100	3
TP4002	Bioprinting & Medical Applications	3	2	60	40	100	4
TP4003	Industrial 3D Printing & Automation	3	2	60	40	100	4
TP4004	3D Printing Business & Entrepreneurship	3	2	60	40	100	4
TP4005	Elective-I (Metal 3D Printing & Aerospace Applications)	3	-	100	-	100	3
TP4006	Project Work	-	6	-	100	100	4

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Semester 1 (Foundation)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PT1001	English Communication	3	-	60	40	100	4
PT1002	Applied Mathematics-I	4	-	100	-	100	4
PT1003	Applied Physics-I	3	2	60	40	100	4
PT1004	Applied Chemistry	3	2	60	40	100	4
PT1005	Engineering Drawing & Design	1	4	30	70	100	3
PT1006	Introduction to Paint Technology	3	-	100	-	100	3
PT1007	Workshop Practice	-	4	-	75	75	2

Semester 2 (Core Basics)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PT2001	Applied Mathematics-II	4	-	100	-	100	4
PT2002	Applied Physics-II	3	2	60	40	100	4
PT2003	Polymer Chemistry & Resins	3	2	60	40	100	4
PT2004	Pigments & Fillers Technology	3	-	100	-	100	3
PT2005	Paint Formulation & Manufacturing	3	4	60	40	100	5
PT2006	Paint Lab-I	-	4	-	50	50	2
PT2007	Environmental Science	2	-	-	-	0	0

Semester 3 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PT3001	Surface Coating Technology	2	4	40	60	100	4
PT3002	Decorative & Protective Coatings	3	2	60	40	100	4
PT3003	Industrial Paints & Special Coatings	3	2	60	40	100	4
PT3004	Paint Application & Equipment	3	2	60	40	100	4
PT3005	Paint Testing & Quality Control	3	4	60	40	100	5
PT3006	Paint Lab-II	-	4	-	50	50	2

Semester 4 (Advanced Core)

Code	Subject Name	Th (Hrs)	Pr (Hrs)	Th Marks	Pr Marks	Total	Credits
PT4001	Advanced Paint Technology	3	-	100	-	100	3
PT4002	Powder Coatings & UV Curable Systems	3	2	60	40	100	4
PT4003	Paint Plant Management & Safety	3	2	60	40	100	4
PT4004	Eco-friendly Paints & Waste Management	3	2	60	40	100	4
PT4005	Elective-I (Nanotechnology in Coatings)	3	-	100	-	100	3
PT4006	Project Work	-	6	-	100	100	4

Shubhraj

Anurag

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