

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**DIPLOMA SEM-V ( ALL BRANCH) SUBJECT CODE/TEACHING/EXAMINATION SCHEME**

Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	University Exam(E)		Mid Sem. Exam (Theory) (M)	Practical (I)	Total Marks	Branch Code
		Theory	Tutorial	Practical		Theory	Practical				
Branch Code : 02 DIPLOMA IN AUTOMOBILE ENGINEERING (Semester V)											
350201	Transport Management & Motor Industry	3	0	0	3	70	0	30	0	100	2
350202	Vehicle Dynamics	4	2	0	6	70	30	30	20	150	2
350203	Diagnosis and Testing - I (Auto Engines )	4	0	0	4	70	0	30	0	100	2
350204	Diagnosis and Testing - II ( Transmission )	4	0	0	4	70	0	30	0	100	2
350205	Diagnosis and Testing - III ( Electrical System )	4	0	0	4	70	0	30	0	100	2
350206	Practice in Diagnosis and Testing - I	0	0	2	2	0	80	0	20	100	2
350207	Practice in Diagnosis and Testing - II	0	0	2	2	0	80	0	20	100	2
350208	Practice in Diagnosis and Testing - III	0	0	2	2	0	80	0	20	100	2
350209	Professional Practice - II	0	0	4	4	0	80	0	20	100	2
Branch Code : 03 DIPLOMA IN BIO MEDICAL ENGINEERING (Semester V)											
350301	Micro Controller & Its Application in Medical Instrumentation	3	0	2	5	70	30	30	20	150	3
350302	Medical Imaging Technology	4	0	2	6	70	30	30	20	150	3
350303	Critical Care Instrumentation	3	0	4	7	70	30	30	20	150	3
350304	Therapeutic Medical Instrumentation	4	0	4	8	70	30	30	20	150	3
350305	Installation, Maintenance & Servicing	0	0	4	4	0	80	0	20	100	3
Branch Code : 05 DIPLOMA IN CHEMICAL ENGINEERING (Semester V)											
350501	Industrial Management	3	0	0	3	70	0	30	0	100	5
350502	Mass Transfer - II	4	0	6	10	70	30	30	20	150	5
350503	Petroleum Refining & Petro Chemical Technology	3	0	2	5	70	30	30	20	150	5
350504	Utilities and Instrumentation in Chemical Plant	4	0	4	8	70	30	30	20	150	5
350505	Fundamental of Chemical Engineering Reactions & Thermo Dynamics	3	2	0	5	70	30	30	20	150	5

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Branch Code : 06 DIPLOMA IN CIVIL ENGINEERING (Semester V)											
350601	Design of Concrete Structure	2	0	0	2	70	0	30	0	100	6
350602	Quantity Survey and Valuation	2	0	0	2	70	0	30	0	100	6
350603	Construction Works Management	2	0	2	4	70	30	30	20	150	6
350604	Water Supply and Sanitary Engineering	2	0	2	4	70	30	30	20	150	6
350605	Quality Control and Monitoring	3	0	2	5	70	30	30	20	150	6
350606	Water Resource Management	3	0	0	3	70	0	30	0	100	6
350607	Quantity Survey and Valuation Practice	0	0	4	4	0	80	0	20	100	6
350608	Practices of Design of Concrete Structure	0	0	4	4	0	80	0	20	100	6
350609	Water Resource Management practice	0	0	2	2	0	80	0	20	100	6
Branch Code : 07 DIPLOMA IN COMPUTER ENGINEERING (Semester V)											
350701	Internet Application Programming	3	0	4	7	70	30	30	20	150	7
350702	Micro Processor & Peripheral Chips	3	0	2	5	70	30	30	20	150	7
350703	Java Programming	3	0	4	7	70	30	30	20	150	7
350704	Computer Networking	3	0	2	5	70	30	30	20	150	7
350705	Project -I	0	0	6	6	0	80	0	20	100	7
Branch Code : 09 DIPLOMA IN ELECTRICAL ENGINEERING (Semester V)											
350901	Electrical Installation & Maintenance	4	0	2	6	70	30	30	20	150	9
350902	Industrial Electronics	4	0	2	6	70	30	30	20	150	9
350903	Electrical Wiring, Estimation, Costing & Contracting	3	2	2	7	70	30	30	20	150	9
350904	Digital Electronics & Digital Instrument	4	0	2	6	70	30	30	20	150	9
350905	Energy Conservation Techniques	3	0	2	5	70	30	30	20	150	9
Branch Code : 11 DIPLOMA IN ELECTRONICS AND COMMUNICATION (Semester V)											
351101	Micro Controller & Embedded Systems	4	0	4	8	70	30	30	20	150	11
351102	Fiber Optic Communication	4	0	2	6	70	30	30	20	150	11
351103	Microwave Engineering	4	0	2	6	70	30	30	20	150	11
351104	Telecommunication Techniques & Application	4	0	0	4	70	0	30	0	100	11
351105	PCB Designing Tools	0	0	6	6	0	80	0	20	100	11

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Branch Code : 13 DIPLOMA IN ENVIRONMENTAL ENGINEERING (Semester V)											
351301	Estimating & Costing of Enviornmental Structures	2	2	2	6	70	30	30	20	150	13
351302	Physico Chemical Treatment of Water & Waste Water	4	2	2	8	70	30	30	20	150	13
351303	Industrial Water Pollution	2	1	2	5	70	30	30	20	150	13
351304	Solid Waste Management	3	0	2	5	70	30	30	20	150	13
351305	Enviornmental Project Management	3	0	2	5	70	30	30	20	150	13
Branch Code : 16 DIPLOMA IN INFORMATION TECHNOLOGY (Semester V)											
350703	Java Programming	3	0	4	7	70	30	30	20	150	16
351601	Windows Programming with VB.NET	4	0	4	8	70	30	30	20	150	16
351602	Wireless Communication	3	0	2	5	70	30	30	20	150	16
351603	Dynamic Web Development	3	0	4	7	70	30	30	20	150	16
351604	Project	0	0	6	6	0	80	0	20	100	16
Branch Code : 17 DIPLOMA IN INSTRUMENTATION & CONTROL ENGINEERING (Semester V)											
351701	Electronic & Pneumatic Instrumentation	3	0	4	7	70	30	30	20	150	17
351702	Process Instrumentation - II	3	0	4	7	70	30	30	20	150	17
351703	Analytical Instrumentation	3	0	4	7	70	30	30	20	150	17
351704	Micro Processors, Interfacing and Applications	3	0	2	5	70	30	30	20	150	17
351705	Project ( with Seminar )	0	0	4	4	0	80	0	20	100	17
Branch Code : 19 DIPLOMA IN MECHANICAL ENGINEERING (Semester V)											
351901	Thermal Engineering	3	0	0	3	70	0	30	0	100	19
351902	Design Of Machine Elements	3	0	2	5	70	30	30	20	150	19
351903	Machine Tools Technology	3	0	0	3	70	0	30	0	100	19
351904	Tool Engineering	3	0	0	3	70	0	30	0	100	19
351905	Estimating, Costing And Contracting	2	0	2	4	70	30	30	20	150	19
351906	Thermal Engineering Practice	0	0	2	2	0	80	0	20	100	19
351907	Machining Practice	0	0	4	4	0	80	0	20	100	19
351908	Tool Design Practice	0	0	4	4	0	80	0	20	100	19
351909	Project-I	0	0	2	2	0	80	0	20	100	19

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Branch Code : 20 DIPLOMA IN MECHATRONICS ENGINEERING (Semester V)											
352001	Fundamentals of Thermal and Fluid Devices	4	0	0	4	70	0	30	0	100	20
352002	Machine Design	3	0	0	3	70	0	30	0	100	20
351903	Machine Tools Technology	3	0	0	3	70	0	30	0	100	20
352003	Programmable Logic Controllers	2	0	0	2	70	0	30	0	100	20
352004	Machine Element Design and Drafting	0	0	4	4	0	80	0	20	100	20
352005	Machine Tool Practices	0	0	2	2	0	80	0	20	100	20
352006	Programmable Logic Controllers practices	0	0	4	4	0	80	0	20	100	20
352007	Fundamentals of Thermal and Fluid Devices practices	0	0	2	2	0	80	0	20	100	20
352008	Material Science	3	0	2	5	70	30	30	20	150	20
Branch Code : 21 DIPLOMA IN METALLURGY ENGINEERING (Semester V)											
352101	Steel Making	3	0	0	3	70	0	30	0	100	21
352102	Materials & Testing	3	0	4	7	70	30	30	20	150	21
352103	Physical Metallurgy - II	4	0	4	8	70	30	30	20	150	21
352104	Heat Treatment of Metals & Alloys	3	0	2	5	70	30	30	20	150	21
352105	Rolling of Steel Product	3	0	2	5	70	30	30	20	150	21
Branch Code : 22 DIPLOMA IN MINING ENGINEERING (Semester V)											
352201	Mining - II	3	0	2	5	70	30	30	20	150	22
352202	Mine Ventilation	4	0	2	6	70	30	30	20	150	22
352203	Rock Mechanics	3	0	2	5	70	30	30	20	150	22
352204	Mining Hazards & Safety	4	0	2	6	70	30	30	20	150	22
352205	Mine Electrical Engineering	3	0	2	5	70	30	30	20	150	22
352206	Mining & Processing of Dimensional Stone	3	0	2	5	70	30	30	20	150	22
Branch Code : 23 DIPLOMA IN PLASTICS ENGINEERING (Semester V)											
352301	Industrial Training-I	0	0	30	30	0	0	0	100	100	23

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Branch Code : 24 DIPLOMA IN POWER ELECTRONICS ENGINEERING (Semester V)											
352401	Electrical Drives and Control - I	4	0	2	6	70	30	30	20	150	24
352402	Applied Power Electronics	4	0	0	4	70	0	30	0	100	24
352403	Power Electronics Circuits	4	0	0	4	70	0	30	0	100	24
352404	Control System	4	0	2	6	70	30	30	20	150	24
352405	Power System Protection	4	0	2	6	70	30	30	20	150	24
352406	Power Electronics Practice	0	0	4	4	0	80	0	20	100	24
Branch Code : 28 DIPLOMA IN TEXTILE PROCESSING TECHNOLOGY (Semester V)											
352801	Analytical Textile Chemistry	3	0	0	3	70	0	30	0	100	28
352802	Chemistry of Textile Auxiliaries	4	0	2	6	70	30	30	20	150	28
352803	Management of Energy & Environment in Wet Processing	5	0	2	7	70	30	30	20	150	28
352804	Chemistry of Intermediates & Dyestuffs	4	0	0	4	70	0	30	0	100	28
352805	Quality Control in Wet Processing	4	0	0	4	70	0	30	0	100	28
352806	Practices in Analytical Textile Chemistry	0	0	4	4	0	80	0	20	100	28
352807	Practices in Quality Control in Wet Processing	0	0	4	4	0	80	0	20	100	28
Branch Code : 29 DIPLOMA IN TEXTILE MANUFACTURING TECHNOLOGY (Semester V)											
352901	Modern Spinning Technology	3	0	2	5	70	30	30	20	150	29
352902	Modern Weaving Technology	3	0	2	5	70	30	30	20	150	29
352903	Advance Texurising and Twisting	3	0	2	5	70	30	30	20	150	29
352904	Production Planning	3	1	0	4	70	30	30	20	150	29
352905	Quality and Process Control in Spinning and Weaving	4	0	0	4	70	0	30	0	100	29
352906	Advance Spinning Practice	0	0	4	4	0	80	0	20	100	29
352907	Advance Weaving Practice	0	0	4	4	0	80	0	20	100	29
Branch Code : 50 DIPLOMA IN ARCHITECTURAL ASSISTANTSHIP (Semester V)											
355001	Building Services - II	2	0	2	4	70	30	30	20	150	50
355002	Structure - III	2	0	2	4	70	30	30	20	150	50
355003	Town Planning	2	0	2	4	70	30	30	20	150	50
355004	Interior Detailing	0	0	8	8	0	80	0	20	100	50
355005	Architectural Design - IV	0	0	14	14	0	80	0	20	100	50

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Branch Code : 51 DIPLOMA IN COMPUTER AIDED COSTUME DESIGN & DRESS MAKING (Semester V)											
355101	Fashion Art	4	0	0	4	70	0	30	0	100	51
355102	Knitting Technology	3	0	0	3	70	0	30	0	100	51
355103	Apparel Production Control	3	0	0	3	70	0	30	0	100	51
355104	Knitt Wear Garment (Practices)	0	0	6	6	0	80	0	20	100	51
355105	Gents Apparel (Practices)	0	0	6	6	0	80	0	20	100	51
355106	Fashion Trend (Practices)	0	0	6	6	0	80	0	20	100	51
355107	Elective - I - Saree Designing /	0	0	6	6	0	80	0	20	100	51
355108	Elective - I - Traditional Costume of Differentt State of India /	0	0	6	6	0	80	0	20	100	51
355109	Elective - I - Accessories	0	0	6	6	0	80	0	20	100	51
Branch Code : 52 DIPLOMA IN CERAMIC TECHNOLOGY (Semester V)											
355201	Applied Ceramics	3	0	2	5	70	30	30	20	150	52
355202	Industrial Management	3	0	0	3	70	0	30	0	100	52
355203	Advance Whitewares	3	0	4	7	70	30	30	20	150	52
355204	Advance Refractory	3	0	4	7	70	30	30	20	150	52
355205	Quality Control	3	0	2	5	70	30	30	20	150	52
355206	Structural Clay Products	3	0	2	5	70	30	30	20	150	52
Branch Code : 53 DIPLOMA IN COMMERCIAL ART (Semester V)											
355301	Campaign Design	2	0	6	8	70	30	30	20	150	53
355302	Packaging Design	2	0	6	8	70	30	30	20	150	53
355303	Publication Design	2	0	6	8	70	30	30	20	150	53
355304	Display	0	0	6	6	0	80	0	20	100	53
Branch Code : 54 DIPLOMA IN COMMERCIAL PRACTICE (Semester V)											
355401	Taxation Law & Practice - I	3	0	2	5	70	30	30	20	150	54
355402	Production & Material Management	3	0	0	3	70	0	30	0	100	54
355403	Financial Accounting – IV	3	0	2	5	70	30	30	20	150	54
355404	Management Accounting	4	0	2	6	70	30	30	20	150	54
355405	Cost Accounting	4	0	2	6	70	30	30	20	150	54
355406	Computer - V	2	0	2	4	70	30	30	20	150	54

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<b>Branch Code : 55 DIPLOMA IN FABRICATION TECHNOLOGY (Semester V)</b>											
355501	Fabrication design	3	0	2	5	70	30	30	20	150	55
355502	Piping Engineering	3	0	2	5	70	30	30	20	150	55
355503	Welding Metallurgy	3	0	0	3	70	0	30	0	100	55
355504	Industrial Mngt & Org. Behaviour	3	0	2	5	70	30	30	20	150	55
355505	Welding Inspection and Testing	4	0	2	6	70	30	30	20	150	55
355506	Welding Metallurgy (practice)	0	0	4	4	0	80	0	20	100	55
355507	Proffesional practices-1	0	0	2	2	0	80	0	20	100	55
<b>Branch Code : 56 DIPLOMA IN HOME SCIENCE (Semester V)</b>											
355601	Food Preservation	3	0	4	7	70	30	30	20	150	56
355602	Home Decoration	3	0	5	8	70	30	30	20	150	56
355603	Personality Development	3	0	0	3	70	0	30	0	100	56
355604	Child Care And Education	3	0	0	3	70	0	30	0	100	56
355605	Sociology And Psychology	3	0	0	3	70	0	30	0	100	56
355606	Personality Development Practice	0	0	7	7	0	80	0	20	100	56
<b>Branch Code : 57 DIPLOMA IN HOTEL MANAGEMENT &amp; CATERING TECHNOLOGY (THIRD YEAR)</b>											
530001	Food & Beverage Production - III	2	0	5	7	70	30	30	20	150	57
530002	Food & Beverage Service - III	4	0	3	7	70	30	30	20	150	57
530003	Housekeeping - III	2	0	3	5	70	30	30	20	150	57
530004	Front Office Operations- III	2	0	2	4	70	30	30	20	150	57
530005	Basic French for Hotel Industry	2	0	0	2	70	0	30	0	100	57
530006	Sales & Marketing	2	0	0	2	70	0	30	0	100	57
530007	Travel & Tourism	3	0	0	3	70	0	30	0	100	57
530008	Project	0	0	6	6	0	80	0	20	100	57
530009	Industrial Training	12 WEEKS			24	0	80	0	20	100	57
<b>Branch Code : 58 DIPLOMA IN PRINTING TECHNOLOGY (Semester V)</b>											
355801	Computer Aided Graphic Design	4	0	2	6	70	30	30	20	150	58
355802	Flexo - Gravure Printing	4	0	2	6	70	30	30	20	150	58
355803	Converting & Packaging	3	0	2	5	70	30	30	20	150	58
355804	Quality Control in Printing	4	0	2	6	70	30	30	20	150	58
355805	Printer's Managemet & Costing Estimating	3	0	0	3	70	0	30	0	100	58
355806	Post Press Techniques (Practice)	0	0	4	4	0	80	0	20	100	58
<b>Branch Code : 59 DIPLOMA IN TEXTILE DESIGNING (Semester V)</b>											

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355901	Computer Colour Matching	4	0	3	7	70	30	30	20	150	59
355902	Traditional Printing Design - II	3	0	0	3	70	0	30	0	100	59
355903	Fashion Design	0	0	10	10	0	80	0	20	100	59
355904	Advance Textile Design & Printing	0	0	14	14	0	80	0	20	100	59



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Branch Code : 60 DIPLOMA IN TRANSPORTATION ENGINEERING (Semester V)											
350601	Design of Concrete Structure	2	0	0	2	70	0	30	0	100	60
350602	Quantity Survey and Valuation	2	0	0	2	70	0	30	0	100	60
350603	Construction Works Management	2	0	2	4	70	30	30	20	150	60
356001	Traffic Engineering - I	3	0	0	3	70	0	30	0	100	60
350605	Quality Control and Monitoring	3	0	2	5	70	30	30	20	150	60
350608	Practices of Design of Concrete Structure	0	0	4	4	0	80	0	20	100	60
356002	Traffic Engineering - I Practice	0	0	6	6	0	80	0	20	100	60
350607	Quantity Survey and Valuation Practice	0	0	4	4	0	80	0	20	100	60
Branch Code : 81 DIPLOMA IN CIVIL ENGINEERING (DLM)(Semester V) (revised)											
330001	Human Resource Management	0	3	0	3	70	0	30	0	100	81
330602	Hydraulics	0	3	18	5	70	0	30	50	150	81
330604	Construction Technology	0	3	20	6	70	0	30	50	150	81
350601	Design of Concrete Structure	0	3	0	2	70	0	30	0	100	81
350602	Quantity Survey and Valuation	0	3	0	2	70	0	30	0	100	81
350607	Quantity Survey and Valuation Practices	0	0	20	4	0	80	0	20	100	81
350608	Practice of Design of Concrete Structures	0	0	20	4	0	80	0	20	100	81
Branch Code : 82 DIPLOMA IN MECHANICAL ENGINEERING (DLM) (Semester V)											
330001	Human Resource Management	0	3	0	3	70	0	30	0	100	82
310018	Computer Application	0	0	30	4	0	0	0	100	100	82
331902	Thermodynamics	0	3	0	3	70	0	30	0	100	82
341904	Theory of Machine	0	3	16	5	70	0	30	50	150	82
351903	Machine Tools Technology	0	3	0	3	70	0	30	0	100	82
351907	Machining Practice	0	0	40	4	0	80	0	20	100	82
Branch Code : 83 DIPLOMA IN ELECTRICAL ENGINEERING (DLM) (Semester V)											
330001	Human Resource Management	0	3	0	3	70	0	30	0	100	83
330901	Computer Aided Electrical Drawing & Drafting	0	3	40	5	0	0	0	100	100	83
330904	Generation & Transmission of Electrical Power	0	3	20	6	70	0	30	50	150	83
340903	Electrical Instrumentation	0	3	30	6	70	0	30	50	150	83