

# GUJARAT TECHNOLOGICAL UNIVERSITY

<b>Branch Code : 02    DIPLOMA IN AUTOMOBILE ENGINEERING (Semester IV)</b>										
Subject Code	Subject Name	Teaching Scheme(Hours)			Credits	Examination Marks			Total Marks	Branch Code
		Theory	Tutorial	Practical		External Exam (Theory)	Mid Sem. Exam (Theory)	Internal Assessment		
340001	ENTREPRENEURSHIP DEVELOPMENT	3	0	0	3	70	30	0	100	2
340201	FUELS & LUBRICANTS	4	0	2	6	70	30	50	150	2
340202	AUTOTRONICS	3	0	2	5	70	30	50	150	2
340203	BASIC AUTOMOBILE DESIGN	3	4	0	7	70	30	50	150	2
340204	VEHICLE BODY ENGINEERING	3	0	2	5	70	30	50	150	2
340205	PROFESSIONAL PRACTICE - I	0	0	4	4	0	0	100	100	2
<b>Branch Code : 03    DIPLOMA IN BIOMEDICAL ENGINEERING (Semester IV)</b>										
340001	ENTREPRENEURSHIP DEVELOPMENT	3	0	0	3	70	30	0	100	3
340301	ANALYTICAL & OPTICAL INSTRUMENTATION	3	0	4	7	70	30	50	150	3
340302	DIAGNOSTIC MEDICAL INSTRUMENTATION	4	0	4	8	70	30	50	150	3
341101	MICRO PROCESSOR & ASSEMBLY LANGUAGE PROGRAMMING	3	0	2	5	70	30	50	150	3
340303	HOSPITAL MANAGEMENT & CLINICAL ENGINEERING	3	0	0	3	70	30	0	100	3
340304	SEMINAR	0	0	4	4	0	0	100	100	3
<b>Branch Code : 05    DIPLOMA IN CHEMICAL ENGINEERING (Semester IV)</b>										
340501	DYES AND PHARMACEUTICALS	3	0	2	5	70	30	50	150	5
340502	SAFETY AND HAZARD MANAGEMENT IN CHEMICAL INDUSTRIES	3	0	2	5	70	30	50	150	5
340503	CHEMICAL PROCESS TECHNOLOGY - II	3	0	4	7	70	30	50	150	5
340504	MASS TRANSFER - I	3	0	4	7	70	30	50	150	5
340505	POLLUTION CONTROL & EFFULENT TREATMENT	3	0	2	5	70	30	50	150	5

<b>Branch Code : 06 DIPLOMA IN CIVIL ENGINEERING (Semester IV)</b>										
340601	MECHANICS OF STRUCTURE - II	2	0	2	4	70	30	50	150	6
340602	SURVEYING - II	2	0	0	2	70	30	0	100	6
340603	SOIL ENGINEERING	2	0	2	4	70	30	50	150	6
340604	TRANSPORTATION ENGINEERING	4	0	2	6	70	30	50	150	6
340605	IRRIGATION ENGINEERING	4	0	0	4	70	30	0	100	6
340606	QUANTITY SURVEY & COSTING	2	0	0	2	70	30	0	100	6
340607	SURVEYING PRACTICE - II	0	0	4	4	0	0	100	100	6
340608	QUANTITY SURVEY & COSTING PRACTICES	0	0	4	4	0	0	100	100	6
<b>Branch Code : 07 DIPLOMA IN COMPUTER ENGINEERING (Semester IV)</b>										
340701	OPERATING SYSTEM	3	0	2	5	70	30	50	150	7
340702	COMPUTER ORGANISATION & ARCHITECTURE	4	0	0	4	70	30	0	100	7
340703	VISUAL BASIC	3	0	4	7	70	30	50	150	7
340704	RELATIONAL DATA BASE MANAGEMENT SYSTEM	3	0	4	7	70	30	50	150	7
340705	SYSTEM ANALYSIS DESIGN	3	0	4	7	70	30	50	150	7
<b>Branch Code : 09 DIPLOMA IN ELECTRICAL ENGINEERING (Semester IV)</b>										
340001	ENTREPRENEURSHIP DEVELOPMENT	3	0	0	3	70	30	0	100	9
340901	FUNDAMENTAL OF ELECTRONICS CIRCUITS	3	0	4	7	70	30	50	150	9
340902	ELECTRICAL MACHINE - II	4	0	4	8	70	30	50	150	9
340903	ELECTRICAL INSTRUMENTATION	4	0	2	6	70	30	50	150	9
340904	A. C. DISTRIBUTION & UTILIZATION	4	2	0	6	70	30	50	150	9
<b>Branch Code : 11 DIPLOMA IN ELECTRONICS AND COMMUNICATION (Semester IV)</b>										
Subject	Subject Name	Teaching Scheme(Hours)			Credits	Examination Marks			Total	Branch
341101	MICRO PROCESSOR & ASSEMBLY LANGUAGE PROGRAMMING	3	0	2	5	70	30	50	150	11
341102	ELECTRONICS INSTRUMENT & MEASUREMENTS	3	0	2	5	70	30	50	150	11
341103	INDUSTRIAL ELECTRONICS	4	0	4	8	70	30	50	150	11
341104	COMMUNICATION ENGINEERING - II	4	0	2	6	70	30	50	150	11
341105	TELEVISION ENGINEERING	4	0	2	6	70	30	50	150	11

<b>Branch Code : 13 DIPLOMA IN ENVIRONMENTAL ENGINEERING (Semester IV)</b>										
341301	STRUCTURAL DESIGN & DRAFTING	4	0	4	8	70	30	50	150	13
341302	WATER SUPPLY & SEWER SYSTEM	3	0	4	7	70	30	50	150	13
341303	ECOLOGY & ENVIRONMENTAL POLLUTION	4	0	4	8	70	30	50	150	13
341304	ESTIMATING & COSTING - I	3	0	0	3	70	30	0	100	13
341305	PRACTICES OF ESTIMATING & COSTING	0	0	4	4	0	0	100	100	13
<b>Branch Code : 16 DIPLOMA IN INFORMATION TECHNOLOGY (Semester IV) (revised)</b>										
341601	DATA COMMUNICATION & NETWORKS	4	0	2	6	70	30	50	150	16
341602	COMPUTER GRAPHICS	3	0	4	7	70	30	50	150	16
341603	SOFTWARE ENGINEERING	3	0	2	5	70	30	50	150	16
341604	SOFTWARE PRACTICES	0	2	2	4	0	0	100	100	16
340701	OPERATING SYSTEM	3	0	2	5	70	30	50	150	16
340703	VISUAL BASIC	3	0	4	7	70	30	50	150	16
<b>Branch Code : 17 DIPLOMA IN INSTRUMENTATION &amp; CONTROL ENGINEERING (Semester IV)</b>										
340001	ENTREPRENEURSHIP DEVELOPMENT	3	0	0	3	70	30	0	100	17
341701	PROCESS TECHNOLOGY	3	0	4	7	70	30	50	150	17
341702	PROCESS INSTRUMENTATION - I	4	0	4	8	70	30	50	150	17
341703	CONTROL SYSTEM COMPONENTS	3	0	4	7	70	30	50	150	17
341101	MICRO PROCESSOR & ASSEMBLY LANGUAGE PROGRAMMING	3	0	2	5	70	30	50	150	17
<b>Branch Code : 19 DIPLOMA IN MECHANICAL ENGINEERING (Semester IV)</b>										
340001	ENTREPRENEURSHIP DEVELOPMENT	3	0	0	3	70	30	0	100	19
341901	MANUFACTURING ENGINEERING - II	4	0	0	4	70	30	0	100	19
341902	METROLOGY & INSTRUMENTATION	4	0	0	4	70	30	0	100	19
341903	PLANT MAINTENANCE & SAFETY	3	0	2	5	70	30	50	150	19
341904	THEORY OF MACHINES	3	0	2	5	70	30	50	150	19
341905	MANUFACTURING PRACTICE - II	0	0	4	4	0	0	100	100	19
341906	MEASUREMENT PRACTICE	0	0	4	4	0	0	100	100	19

<b>Branch Code : 20 DIPLOMA IN MECHATRONICS ENGINEERING (Semester IV)</b>										
342001	CONTROL DEVICES	3	0	0	3	70	30	0	100	20
342002	CONTROL DEVICES PRACTICES	0	0	4	4	0	0	100	100	20
341901	MANUFACTURING ENGINEERING - II	4	0	0	4	70	30	0	100	20
341902	METROLOGY AND INSTRUMENTATION	4	0	0	4	70	30	0	100	20
341903	PLANT MAINTENANCE AND SAFETY	3	0	2	5	70	30	50	150	20
341904	THEORY OF MACHINES	3	0	2	5	70	30	50	150	20
341905	MANUFACTURING PRACTICE - II	0	0	4	4	0	0	100	100	20
341906	MEASUREMENT PRACTICE	0	0	4	4	0	0	100	100	20
<b>Branch Code : 21 DIPLOMA IN METALLURGY ENGINEERING (Semester IV)</b>										
340001	ENTREPRENEURSHIP DEVELOPMENT	3	0	0	3	70	30	0	100	21
342101	JOINING OF METALS	4	0	4	8	70	30	50	150	21
342102	IRON MAKING	3	0	0	3	70	30	0	100	21
342103	FOUNDRY TECHNOLOGY	4	0	4	8	70	30	50	150	21
342104	METALLURGICAL ANALYSIS	3	0	4	7	70	30	50	150	21
<b>Branch Code : 22 DIPLOMA IN MINING ENGINEERING (Semester IV)</b>										
342201	MINING SURVEYING - I	3	0	4	7	70	30	50	150	22
342202	MINING GEOLOGY - II	3	0	2	5	70	30	50	150	22
342203	SURFACE MINING	4	0	2	6	70	30	50	150	22
342204	MINING MACHINERY - II	4	0	2	6	70	30	50	150	22
342205	MINE SAMPLING, ASSAYING & MINERAL DRESSING	3	1	2	6	70	30	50	150	22
<b>Branch Code : 23 DIPLOMA IN PLASTICS ENGINEERING (Semester IV)</b>										
340001	ENTREPRENEURSHIP DEVELOPMENT	3	0	0	3	70	30	0	100	23
342301	POLYMER CHEMISTRY - II	3	0	2	5	70	30	50	150	23
342302	HYDRAULICS AND PNEUMATICS	3	0	4	7	70	30	50	150	23
342303	EXTRUSION TECHNOLOGY	3	0	4	7	70	30	50	150	23
342304	PROCESSING OF THERMOSETS	2	0	2	4	70	30	50	150	23
342305	INJECTION MOULD DESIGN	3	0	4	7	70	30	50	150	23

<b>Branch Code : 24 DIPLOMA IN POWER ELECTRONICS ENGINEERING (Semester IV)</b>										
340001	ENTREPRENEURSHIP DEVELOPMENT	3	0	0	3	70	30	0	100	24
342401	ELEMENTS OF POWER ELECTRONICS	4	0	4	8	70	30	50	150	24
342402	ELECTRICAL NETWORKS & CIRCUITS	3	0	2	5	70	30	50	150	24
340902	ELECTRICAL MACHINES - II	4	0	4	8	70	30	50	150	24
341102	ELECTRONICS INSTRUMENT & MEASUREMENTS	3	0	2	5	70	30	50	150	24
<b>Branch Code : 28 DIPLOMA IN TEXTILE PROCESSING TECHNOLOGY (Semester IV)</b>										
340001	ENTREPRENEURSHIP DEVELOPMENT	3	0	0	3	70	30	0	100	28
342801	TECHNOLOGY OF BLEACHING & FINISHING - II	5	0	0	5	70	30	0	100	28
342802	TECHNOLOGY OF DYEING - II	4	0	0	4	70	30	0	100	28
342803	TECHNOLOGY OF PRINTING - II	5	0	0	5	70	30	0	100	28
342804	PRACTICES IN BLEACHING & FINISHING - II	0	0	2	2	0	0	100	100	28
342805	PRACTICES IN DYEING - II	0	0	4	4	0	0	100	100	28
342806	PRACTICES IN PRINTING - II	0	0	4	4	0	0	100	100	28
342807	COLOUR SCIENCE	0	0	2	2	0	0	100	100	28
<b>Branch Code : 29 DIPLOMA IN TEXTILE MANUFACTURING TECHNOLOGY (SemesterIV)</b>										
340001	ENTREPRENEURSHIP DEVELOPMENT	3	0	0	3	70	30	0	100	29
342901	YARN MANUFACTURING TECHNOLOGY - II	4	0	2	6	70	30	50	150	29
342902	WEAVING TECHNOLOGY - II	4	0	2	6	70	30	50	150	29
342903	FABRIC STRUCTURE - II	4	0	2	6	70	30	50	150	29
342904	TEXTILE TESTING	3	0	2	5	70	30	50	150	29
342905	SPINNING AND WEAVING PRACTICE -II	0	0	4	4	0	0	100	100	29
<b>Branch Code : 50 DIPLOMA IN ARCHITECTURAL ASSISTANTSHIP (Semester IV)</b>										
345001	BUILDING CONSTRUCTION - II	2	0	0	2	70	30	0	100	50
345002	HISTORY OF ARCHITECTURE-II	3	0	0	3	70	30	0	100	50
345003	STRUCTURE - II	3	0	0	3	70	30	0	100	50
345004	BUILDING SERVICES - I	2	0	2	4	70	30	50	150	50
345005	BUILDING CONSTRUCTION DETAILING - II	0	0	4	4	0	0	100	100	50
345006	ARCHITECTURAL DESIGN - III	0	0	10	10	0	0	100	100	50
345007	COMPUTER AIDED DRAFTING	0	0	4	4	0	0	100	100	50

<b>Branch Code : 51 DIPLOMA IN COMPUTER AIDED COSTUME DESIGN &amp; DRESS MAKING (Semester IV)</b>										
345101	FABRIC SCIENCE	3	0	0	3	70	30	0	100	51
345102	BUSINESS MANAGEMENT	4	0	0	4	70	30	0	100	51
345103	CONSUMER EDUCATION & ENTREPRENEURSHIP	3	0	0	3	70	30	0	100	51
345104	DYEING & PRINTING	0	0	8	8	0	0	100	100	51
345105	LADIES APPAREL	0	0	6	6	0	0	100	100	51
345106	FASHION ILLUSTRATION-II	0	0	6	6	0	0	100	100	51
<b>Branch Code : 52 DIPLOMA IN CERAMIC TECHNOLOGY (Semester IV)</b>										
340001	ENTREPRENEURSHIP DEVELOPMENT	3	0	0	3	70	30	0	100	52
345201	FUELS AND FURNACES	3	0	0	3	70	30	0	100	52
345202	GLASS - II	3	0	4	7	70	30	50	150	52
345203	VITREOUS ENAMELS	3	0	2	5	70	30	50	150	52
345204	POTTERY - II	3	0	4	7	70	30	50	150	52
345205	REFRACTORY - II	3	0	2	5	70	30	50	150	52
<b>Branch Code : 53 DIPLOMA IN COMMERCIAL ART (Semester IV)</b>										
340001	ENTREPRENEURSHIP DEVELOPMENT	3	0	0	3	70	30	0	100	53
345301	ADVERTISING DESIGN	2	0	6	8	70	30	50	150	53
345302	PHOTOGRAPHY AND VIDEOGRAPHY	2	0	6	8	70	30	50	150	53
345303	ILLUSTRATION - II	1	0	6	7	70	30	50	150	53
345304	DESIGN MANAGEMENT & PROFESSIONAL PRACTICE	2	0	2	4	70	30	50	150	53
<b>Branch Code : 54 DIPLOMA IN COMMERCIAL PRACTICE (Semester IV)</b>										
340001	ENTREPRENEURSHIP DEVELOPMENT	3	0	0	3	70	30	0	100	54
345401	HUMAN RESOURCE MANAGEMENT - II	4	0	0	4	70	30	0	100	54
345402	MARKETING MANAGEMENT	4	0	2	6	70	30	50	150	54
345403	FINANCIAL ACCOUNTING - III	4	0	2	6	70	30	50	150	54
345404	BUSINESS LAW	3	0	2	5	70	30	50	150	54
345405	COMPUTER - IV	2	0	4	6	70	30	50	150	54



<b>Branch Code : 59 DIPLOMA IN TEXTILE DESIGNING (Semester IV)</b>										
340001	ENTREPRENEURSHIP DEVELOPMENT	3	0	0	3	70	30	0	100	59
345901	TEXTILE PROCESS - III	4	0	3	7	70	30	50	150	59
345902	DESIGN PERIPHERAL & PRACTICE	0	0	10	10	0	0	100	100	59
345903	COMPUTER AIDED TEXTILE DESIGN	0	0	10	10	0	0	100	100	59
<b>Branch Code : 60 DIPLOMA IN TRANSPORTATION ENGINEERING (Semester IV)</b>										
340602	SURVEYING - II	2	0	0	2	70	30	0	100	60
340603	SOIL ENGINEERING	2	0	2	4	70	30	50	150	60
340606	QUANTITY SURVEY & COSTING	2	0	0	2	70	30	0	100	60
340607	SURVEYING PRACTICE - II	0	0	4	4	0	0	100	100	60
340608	QUANTITY SURVEY & COSTING PRACTICES	0	0	4	4	0	0	100	100	60
346001	HIGHWAY ENGINEERING	3	0	0	3	70	30	0	100	60
346002	URBAN TRANSPORTATION PLANNING	3	4	0	7	70	30	50	150	60
346003	HIGHWAY ENGINEERING PRACTICE	0	0	4	4	0	0	100	100	60
<b>Branch Code : 81 DIPLOMA IN CIVIL ENGINEERING (DLM)(Semester IV)</b>										
320056	ENGINEERING MEASUREMENT - II	0	0	20	2	0	0	100	100	81
320005	NON CONVENTIONAL ENERGY SOURCES	0	3	0	3	70	30	0	100	81
340601	MECHANICS OF STRUCTURE - II	0	3	14	4	70	30	50	150	81
340602	SURVEYING - II	0	3	0	2	70	30	0	100	81
340607	SURVEYING PRACTICE - II	0	0	48	4	0	0	100	100	81
340603	SOIL ENGINEERING	0	3	18	4	70	30	50	150	81
<b>Branch Code : 82 DIPLOMA IN MECHANICAL ENGINEERING (DLM) (Semester IV)</b>										
320056	ENGINEERING MEASUREMENT-II	0	0	20	2	0	0	100	100	82
320005	NON CONVENTIONAL ENERGY SOURCES	0	3	0	3	70	30	0	100	82
331904	STRENGTH OF MATERIALS	0	3	20	5	70	30	50	150	82
341901	MANUFACTURING ENGINEERING-II	0	3	0	4	70	30	0	100	82
341905	MANUFACTURING PRACTICE - II	0	0	30	4	0	0	100	100	82
341902	METROLOGY & INSTRUMENTATION	0	3	0	4	70	30	0	100	82
341906	MEASUREMENT PRACTICE	0	0	24	4	0	0	100	100	82
<b>Branch Code : 83 DIPLOMA IN ELECTRICAL ENGINEERING (DLM) (Semester IV)</b>										
320055	WORK - SHOP	0	0	30	4	0	0	100	100	83
320005	NON CONVENTIONAL ENERGY SOURCES	0	3	0	3	70	30	0	100	83
340901	FUNDAMENTAL OF ELECTRONICS CIRCUIT	0	3	30	7	70	30	50	150	83
340902	ELECTRICAL MACHINE - II	0	3	40	8	70	30	50	150	83