



GUJARAT TECHNOLOGICAL UNIVERSITY

(Established by Government of Gujarat under Gujarat Act No..20 of 2007)

ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટી

(ગુજરાત સરકારના ગુજરાત અધિનિયમ ક્રમાંક : ૨૦/૨૦૦૭ દ્વારા સ્થાપિત)

Accredited with A+ Grade by NAAC

Revised Draft Teaching Scheme for Diploma Engineering 1st Semester (w.e.f. 2024-25)



Gujarat Technological University
Nr. Visat Three Roads, Visat - Gandhinagar Highway
Chandkheda, Ahmedabad – 382424 – Gujarat



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INDEX

S. No.	Name of Branches
1.	Electrical & Allied Branches
2.	Civil & Allied Branches
3.	Computer & Allied Branches
4.	Chemical & Allied Branches
5.	Mechanical & Allied Branches
6.	Textile & Allied Branches

Diploma Engineering (A.Y. 2024-25)						
Diploma in Electronics & Communication Engineering – Semester I (A.Y. 2024 - 25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Modern Physics	3	0	2	4
	PCC-01	Fundamentals of Electronics	3	0	2	4
	ESC-01	Fundamentals of Information and Communication Technology	0	1	4	3
	ESC-02	Fundamentals of Electrical Engineering	2	0	2	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Electrical Engineering Semester- I (A.Y. 2024 - 25)						
Subject Code	Subject Category	Subject Name	Scheme / Credits			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Engineering Chemistry	3	0	2	4
	PCC-01	DC Circuit	3	0	2	4
	ESC-01	Fundamentals of Information and Communication Technology	0	1	4	3
	ESC-02	Basics of Electronics	2	0	2	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Instrumentation & Control Engineering Semester I (A.Y. 2024 - 25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Modern Physics	3	0	2	4
	PCC-01	Fundamentals of Instrumentation & Control Engineering	3	0	2	4
	ESC-01	Basics of Information Technology Systems	2	0	2	3
	ESC-02	Instrumentation Workshop	0	1	4	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Power Electronics Semester I (A.Y. 2024 - 25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Engineering Chemistry	3	0	2	4
	PCC-01	Electrical and Electronics Workshops	0	2	4	4
	ESC-01	Engineering Graphics	2	0	2	3

	ESC-02	Fundamentals of Electrical Engineering	2	0	2	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Renewable Energy Semester I (A.Y. 2024 - 25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Applied Physics	3	0	2	4
	PCC-01	DC Circuit	3	0	2	4
	ESC-01	Fundamentals of Information and Communication Technology	0	1	4	3
	ESC-02	Basics of Mechanical Engineering	2	0	2	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Automation and Robotics Semester I (A.Y. 2024 - 25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Modern Physics	3	0	2	4
	PCC-01	Fundamentals of Electrical and Electronics	3	0	2	4
	ESC-01	Engineering Graphics	2	0	2	3
	ESC-02	Object Oriented Programming by using C++	0	1	4	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Bio-Medical Engineering Semester I (A.Y. 2024 - 25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Modern Physics	3	0	2	4
	PCC-01	Human Biology-I	2	0	4	4
	ESC-01	Fundamentals of Biomedical Engineering	2	0	2	3
	ESC-02	Basics of Medical Electronics	2	0	2	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21

Diploma Engineering (A.Y. 2024-25)						
Diploma in Civil Engineering – Semester I (A.Y. 2024-25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Applied Physics	3	0	2	4
	PCC-01	Civil Engineering Drawing	2	0	4	4
	ESC-01	Engineering Graphics	2	0	2	3
	ESC-02	Construction Material	2	0	2	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Environment Engineering – Semester I (A.Y. 2024-25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	0	0	3
	BSC-02	Applied Physics	3	1	0	4
	PCC-01	Water Supply and Sewerage System	3	0	2	4
	ESC-01	Engineering Graphics	2	0	2	3
	ESC-02	Basics of Mechanical and Electrical Engineering	0	1	4	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Mining Engineering – Semester I (A.Y. 2024-25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Applied Physics	3	1	0	4
	PCC-01	Mining Geology	3	0	2	4
	ESC-01	Engineering Graphics	2	0	2	3
	ESC-02	Introduction to Mining	3	0	0	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21

Diploma Engineering (A.Y. 2024-25)

Diploma in Information & Communication Technology – Semester I (A.Y. 2024-25)

Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Modern Physics	3	0	2	4
	PCC-01	Fundamentals of Electronics	3	0	2	4
	ESC-01	Fundamentals of Information and Communication Technology	0	1	4	3
	ESC-02	Web Development Practice	0	1	4	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21

Diploma in Computer Engineering Semester I (A.Y. 2024-25)

Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Modern Physics	3	0	2	4
	PCC-01	Computer Programming Fundamentals	3	0	2	4
	ESC-01	Computer Basics and Static Web Page Designing	0	1	4	3
	ESC-02	Basics of Electronics	2	0	2	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21

Diploma in Information Technology – Semester I (A.Y. 2024-25)

Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Engineering Chemistry	3	0	2	4
	PCC-01	Python Programming	3	0	2	4
	ESC-01	Introduction to I.T. Systems	2	0	2	3
	ESC-02	Web Development using PHP	0	1	4	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21

Diploma in Computer Science and Engineering Semester I (A.Y. 2024-25)

Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Modern Physics	3	0	2	4
	PCC-01	Computer Programming Fundamentals	3	0	2	4

	ESC-01	Computer Basics and Static Web Page Designing	0	1	4	3
	ESC-02	Basics of Electronics	2	0	2	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21

Diploma Engineering (A.Y. 2024-25)						
Diploma in Ceramic Technology – Semester I (A.Y. 2024-25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Applied Physics	3	0	2	4
	PCC-01	Ceramic Materials	3	0	2	4
	ESC-01	Engineering Graphics	2	0	2	3
	ESC-02	Introduction to Ceramic	3	0	0	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Chemical Engineering – Semester I (A.Y. 2024-25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Basic Chemistry	3	0	2	4
	PCC-01	Plant Utility	4	0	0	4
	ESC-01	Engineering Graphics	2	0	2	3
	ESC-02	Material Science and Technology	3	0	0	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Metallurgy Engineering – Semester I (A.Y. 2024-25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Applied Chemistry	3	0	2	4
	PCC-01	Introduction to Engineering Materials	4	0	0	4
	ESC-01	Engineering Graphics	2	0	2	3
	ESC-02	Metallurgy Engineering Workshop	0	1	4	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Plastic Engineering – Semester I (A.Y. 2024-25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Basic Polymer Chemistry	3	0	2	4
	PCC-01	Plastic Engineering Workshop	0	2	4	4
	ESC-01	Engineering Graphics	2	0	2	3

	ESC-02	Basics of Electrical and Electronics Engineering	0	1	4	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21

Diploma Engineering (A.Y. 2024-25)						
Diploma in Mechanical Engineering - A.Y. Semester- 1 (A.Y. 2024-25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Engineering Materials	3	0	2	4
	PCC-01	Elements of Mechanical Engineering	3	0	2	4
	ESC-01	Engineering Graphics	2	0	2	3
	ESC-02	Basics of Electricals and Electronics Engineering	0	1	4	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Mechanical Engineering (CAD/CAM) - A.Y. Semester-I (A.Y. 2024-25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Engineering Materials	3	0	2	4
	PCC-01	Elements of Mechanical Engineering	3	0	2	4
	ESC-01	Engineering Graphics	2	0	2	3
	ESC-02	Basics of Electricals and Electronics Engineering	0	1	4	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Automobile Engineering - A.Y. Semester-I (A.Y. 2024-25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Engineering Materials	3	0	2	4
	PCC-01	Basics of Automotive Science	3	1	0	4
	ESC-01	Engineering Graphics	2	0	2	3
	ESC-02	Computer Applications and Graphics	0	0	6	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Fabrication Technology - Semester-I (A.Y. 2024-25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Engineering Materials	3	0	2	4
	PCC-01	Fabrication Technology-I	3	0	2	4
	ESC-01	Engineering Graphics	2	0	2	3

	ESC-02	Computer Applications and Graphics	0	0	6	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Mechatronics Engineering - Semester-I (A.Y. 2024-25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Engineering Materials	3	0	2	4
	PCC-01	Elements of Mechatronics Engineering	3	0	2	4
	ESC-01	Engineering Graphics	2	0	2	3
	ESC-02	Basics of Electricals and Electronics Engineering	0	1	4	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21

Diploma Engineering (A.Y. 2024-25)						
Diploma in Textile Processing Technology - Semester I (A.Y. 2024-25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Basic Chemistry	3	0	2	4
	PCC-01	Elements of Textiles and Garment Technology	3	0	2	4
	ESC-01	Engineering Graphics	2	0	2	3
	ESC-02	Textile Fiber Science - I	2	0	2	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Computer Aided Costume Design & Dress Making (CACDDM)- Semester I (A.Y. 2024-25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Basics of Clothing & Wardrobe Planning	3	0	2	4
	BSC-02	Fundamental of Design	3	0	2	4
	PCC-01	Needle Art	3	0	2	4
	ESC-01	Basics of Fiber and Yarn Manufacturing	3	0	0	3
	ESC-02	Computer Application in Fashion Design	0	0	6	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Printing Technology - Semester I (A.Y.2024-25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Applied Physics	3	0	2	4
	PCC-01	Fundamentals of Printing	4	0	0	4
	ESC-01	Basic Graphic Design	2	0	2	3
	ESC-02	Printer's Science	2	0	2	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Textile Manufacturing Technology - Semester I (A.Y.2024-25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Applied Physics	3	0	2	4
	PCC-01	Textile Fiber Technology	3	0	2	4
	ESC-01	Spinning Technology I	2	0	2	3
	ESC-02	Weaving Technology I	2	0	2	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21
Diploma in Textile Design - Semester I (A.Y.2024-25)						
Subject Code	Subject Category	Subjects	Scheme/Credit			
			L	T	P	Cr

	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Fundamentals of Yarn & Fabric Technology	3	0	2	4
	PCC-01	Introduction to Fashion Design	2	0	4	4
	ESC-01	Basic Design Colour	0	0	6	3
	ESC-02	Fundamentals of Fibre Science	2	0	2	3
	HSMC-01	Communication Skills in English	2	0	2	3
	MNC- AU-02	Sports and Yoga	0	0	2	0
Total Semester-1 Credits						21