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



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

INDEX

S. No. Name of Branches					
1.	Electrical & Allied Branches				
2.	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	l-25)			
	Diploma in E	lectronics & Communication Engineering –	Semeste	r I (A.Y. 20	024 - 25)	
Cultinat Code	Cultinat Catanana	Cubinata		S	cheme/Cr	edit
Subject Code	Subject Category	Subjects	L	T	Р	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
		i i				0
	MNC- AU-02	Sports and Yoga Total Semester-1 Credits	0	0	2	
		Total Semester-1 Credits				21
	Di	ploma in Electrical Engineering Semester-	I (A.Y. 20	24 - 25)		
Cubiast Cada	Cubicat Catagami	Cubiast Nama		Sc	heme / Cr	edits
Subject Code	Subject Category	Subject Name	L	Т	Р	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
	1 CC 01	Fundamentals of Information and	,			
	ESC-01	Communcation 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 Se	emester I	(A.Y. 202	4 - 25)	
Cultinat Code	Cubicat Catagomi	Cubicata		S	cheme/Cr	edit
Subject Code	Subject Category	Subjects	L	T	Р	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 (Δ Υ 2024	- 25 \		
		T .	A. I . 2024		cheme/Cr	edit
Subject Code	Subject Category	Subjects	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
<u></u>	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
	WINC- AU-UZ	Total Semester-1 Credits	U	U		21
						21
	1	Diploma in Renewable Energy Semester I (A.Y. 2024			•••
Subject Code	Subject Category	Subjects			cheme/Cr	
-		Ladada Barana illa Farancia (Ladia)	L	Т	Р	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
	1 CC 01	Fundamentals of Information and				7
	ESC-01	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
	WINC AO 02	Total Semester-1 Credits	U	U		21
	Din		I / A V 1	0024 25 \		
	υipi I	loma in Automation and Robotics Semeste	ri(A.Y. 4		cheme/Cr	odi+
Subject Code	Subject Category	Subjects	L	<u>з</u> т	P P	Cr
		Induction Program with Essence of Indian	-	<u>'</u>	r	CI
	MNC-AU-01	Knowledge – 2 Weeks	0	0	0	0
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Modern Physics	3	0	2	4
	DCC 04	Fundamentals of Electrical and	2	_	2	4
	PCC-01	Electronics	3	0	2	4
	ESC-01	Engineering Graphics	2	0	2	3
	ESC-02	Object Orinted 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
	IVIIVC- AU-UZ	Total Semester-1 Credits	U	U		21
	Dip	loma in Bio-Medical Engineering Semeste	r I (A.Y. 2			
Subject Code	Subject Category	Subjects			cheme/Cr	
	, ,	-	L	Т	Р	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-01	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) n Civil Engineering – Semester I (A.Y. 202	24.25)			
		Civil Engineering = Semester 1 (A. f. 202	Scheme/	Cradit		
Subject Code	Subject Category	Subjects	L	T	Р	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
	WINCE 710 02	Total Semester-1 Credits				21
	Dialomo in Fau		2024 25\			
	Diploma in Env	vironment Engineering – Semester I (A.Y	Scheme/	Credit		
Subject Code	Subject Category	Subjects	L	T	Р	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. 20	024-25)			
			Scheme/	Credit		
Subject Code	Subject Category	Subjects	L	Т	Р	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 in Informat	tion & Communication Technology – Semest	er I (A.Y.			
Subject Code	Subject Category	Subjects		Schem	e/Credit	,
	Junjeet entegery	•	L	T	Р	Cı
	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 Elecronics	3	0	2	4
	FCC 01	Fundamentals of Information and	0	1	4	,
	ESC-01	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				2:
	Diploma	in Computer Engineering Semester I (A.Y. 20)24-25)			
Cubicat Cada	Cubicat Catagom	Cubicata		Schem	e/Credit	
Subject Code	Subject Category	Subjects	L	T	Р	С
	NANC ALL OA	Induction Program with Essence of Indian	0	0	0	
	MNC-AU-01	Knowledge – 2 Weeks	0	0	0	C
	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	C
	11110 710 02	Total Semester-1 Credits				2:
	Diploma in	Information Technology – Semester I (A.Y.	2024-25)		/o !!:	
Subject Code	Subject Category	Subjects		T	e/Credit	_
-			L	Т	Р	С
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	C
	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	C
		Total Semester-1 Credits				2
	Dinloma in Con	nputer Scinece and Engineering Semester I (Δ V 2024	-25)		
			2024		e/Credit	
Subject Code	Subject Category	Subjects	L	Т	P	С
	MNC-AU-01	Induction Program with Essence of Indian Knowledge – 2 Weeks	0	0	0	C
	BSC-01	Mathematics-I	3	1	0	4
	1220 01	madicinatics i			U	
	BSC-02	Modern Physics	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					

		Diploma Engineering (A.Y. 2024-25)				
	Diploma in	Ceramic Technology – Semester I (A.Y. 2024-25)			
Subject Code	Subject Category	Subjects		Schem	e/Cred	dit
		·	L	Т	Р	Cr
	MNC-AU-01	Induction Program with Essence of Indian	0	0	0	0
	BSC-01	Knowledge – 2 Weeks Mathematics-I	2	1	0	4
	BSC-01		3	0	2	4
		Applied Physics	-			
	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. 2024-2	5)			
Subject Code	Subject Category	Subjects		Schem	e/Cred	dit
		·	L	Т	Р	Cr
	NANC ALLOA	Induction Program with Essence of Indian				0
	MNC-AU-01	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 N	Metallurgy Engineering – Semester I (A.Y. 2024-2	25)			
Subject Code	Subject Category	Subjects		Schem	e/Cred	dit
			L	Т	Р	Cr
	MNC-AU-01	Induction Program with Essence of Indian	0	0	0	0
		Knowledge – 2 Weeks				
	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 ii	n Plastic Engineering – Semester I (A.Y. 2024-25)				
Subject Code	Subject Category	Subjects		Schem		
		Induction Program with Essence of Indian	L	T	P	Cr
	MNC-AU-01	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

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

		Diploma Engineering (A.Y. 2024-25)	/A V/ 222 -	251		
	Diploma in Me	chanical Engineering - A.Y. Semester- 1	(A.Y. 2024-			
Subject Code	Subject Category	Subjects			ne/Credit	_
		Industion Drogram with Forence of	L	Т	Р	Cr
	MNC-AU-01	Induction Program with Essence of	0	0	0	0
	DSC 01	Indian Knowledge – 2 Weeks Mathematics-I	3	1	0	4
	BSC-01		_	0	2	4
	BSC-02	Engineering Materials	3			
	PCC-01	Elements of Mechanical Engineering	3	0	2	4
	ESC-01	Engineering Graphics	2	0	2	3
		Basics of Electricals and Electronics	0	1	4	3
	ESC-02	Engineering	<u> </u>	_		
	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 Mechani	cal Engineering (CAD/CAM) - A.Y. Semes				
Subject Code	Subject Category	Subjects	Scheme/			
	,,	Ť	L	Т	Р	Cr
	MNC-AU-01	Induction Program with Essence of	0	0	0	0
		Indian Knowledge – 2 Weeks				
	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
		Basics of Electricals and Electronics	0	1	4	3
	ESC-02	Engineering				
	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 Au	tomobile Engineering - A.Y. Semester-I(A.Y. 2024-			
Subject Code	Subject Category	Subjects		Schem	ne/Credit	
Jubject Coue	Subject category		L	T	P	Cr
	MNC-AU-01	Induction Program with Essence of	0	0	0	0
		Indian Knowledge – 2 Weeks				Ŭ
	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		Schen	ne/Credit	
	Judgeet Category	-	L	Т	P	Cr
	MNC-AU-01	Induction Program with Essence of	0	0	0	0
	IVIIVE AU-UI	Indian Knowledge – 2 Weeks			<u> </u>	
	BSC-01	Mathematics-I	3	1	0	4
	BSC-02	Engineering Materials	3	0	2	4
						-

	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 N	lechatronics Engineering - Semester-I (A.)	Y. 2024-2	5)		
Subject Code	Subject Category	Cubiasta		Schen	ne/Credit	
Subject Code	Subject Category	Subjects	L	T	Р	Cr
	MNC-AU-01	Induction Program with Essence of	0	0	0	0
	WINC-AU-U1	Indian Knowledge – 2 Weeks	U	U	U	U
	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
		Basics of Electricals and Electronics	0	4	4	_
	ESC-02	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

	r	Diploma Engineering (A.Y. 2024-2 Diploma in Textile Processing Technology - Semes		2024-251		
			A.T.		Scheme/C	redit
Subject Code	Subject Category	Subjects	L	т	P	Cr
	AANG ALLOA	Induction Program with Essence of Indian			0	
	MNC-AU-01	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		2	
			1	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 Com	nputer Aided Costume Design & Dress Making (CA	CDDM)- Se	mester I	(A.Y. 2024	-25)
					Scheme/C	
Subject Code	Subject Category	Subjects	L	Т	P	Cr
		Induction Program with Essence of Indian				
	MNC-AU-01	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-			
Subject Code	Subject Category	Subjects			Scheme/C	
		ladication Decouple with Consequent ladica	L	Т	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian	0	0	0	0
	BCC 04	Knowledge – 2 Weeks	_	4	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
	Di	ploma in Textile Manufacturing Technology - Sem	ester I (A.)			
Subject Code	Subject Category	Subjects			Scheme/C	
	,	-	L	Т	P	Cr
	MNC-AU-01	Induction Program with Essence of Indian	0	0	0	0
		Knowledge – 2 Weeks				
	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
		10	2	0	2	3
	HSMC-01	Communication Skills in English	-		1	
		Sports and Yoga	0	0	2	0
	HSMC-01		-		1	0 21
	HSMC-01	Sports and Yoga	0	0	1	
Subject Code	HSMC-01 MNC- AU-02	Sports and Yoga Total Semester-1 Credits	0	0	1	21

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