Sr. No.	Name of Minor Group	Offered by following Department	Allowed as Minors for sudents of	Subjects	Subject code	L	Т	Р	С
1	Modern Vehicle Technology	Mechanical Engineering	All branches of Engineering	Automobile Systems	BTME19451	3	0	2	4
				Alternative Fuels and Power Systems	BTME19551	4	0	2	5
				Electric, Hybrid and Fuel cell Vehicles	BTME19651	4	0	2	5
				Smart Systems in Automobile	BTME19751	3	0	2	4
2	Computer aided Modeling and Simulation	Mechanical Engineering	All branches of Engineering	Industrial Drafting	BTME19452	2	2	4	6
				Solid Modelling	BTME19552	0	2	4	4
				Software simulation-1	BTME19652	0	2	4	4
				Software simulation-2	BTME19752	0	2	4	4
3	Alternate Energy Systems	Mechanical Engineering	All branches of Engineering	Thermodynamics and Heat Transfer	BTME19453	4	0	2	5
				Non-conventional Energy Systems	BTME19553	4	0	2	5
				Energy Management	BTME19653	4	0	0	4
				Biomass and Waste Management	BTME19753	4	0	0	4
4	Data Caissan	lufa on ation Task on land	All bosses as a f	Indiana di cata a da Autória a	DTE 4.10.45.1	2	0	2	4
4	Data Science	Information Technology	All branches of Engineering except those eligible for its Honors	Introduction to Artificial Intelligence and Machine Learning	BTEA19451	3	0	2	4
		Computer Engineering		Introduction to Data Science	BTEA19551	3	0	2	4
				Computational Data Analytics	BTEA19651	3	0	2	4
				Web Data Mining	BTEA19751	3	0	0	3
				Analyzing, Visualizing and Applying Data Science with Python	BTEA19851	3	0	2	4

5	Artificial Intelligence and	Information Technology	All branches of	Introduction to Artificial	BTEA19451	3	0	2	4
J	Machine Learning	information recimology	Engineering except	Intelligence and Machine	BIENISTSI	3			
			those eligible for its Honors	Learning					
		Computer Engineering		Introduction to Data Analytics	BTEA19552	3	0	2	4
		Electronics and Communications Engg		Deep Learning and Neural Network	BTEA19652	3	0	2	4
		COMMUNICATIONS ENERG		Special topics in Artificial	BTEA19752	3	0	0	3
				Intelligence Applications of Artificial Intelligence	BTEA19852	3	0	0	3
6	Virtual and Augmented Reality	Computer Engineering	All branches of Engineering except those eligible for its Honors	Computer Graphics for Virtual Reality	BTCO19454	3	0	2	4
				Concepts of Virtual and Augmented Reality	BTCO19554	3	0	2	4
				Scientific and Engineering Data Visualisation	BTCO19654	3	0	2	4
				Mathematical Modelling and Computer Aided Engineering	BTCO19754	3	0	0	3
				Mobile VR and AI in Moduley	BTCO19854	3	0	2	4
7	Cyber Security	Information Technology	All branches of Engineering except those eligible for its Honors	Information Theory for Cyber Security	BTEA19453	3	0	2	4
		Computer Engineering		Data Encryption and Compression	BTEA19553	3	0	2	4
		Electronics and Communications Engg		Steganography and Digital Watermarking	BTEA19653	3	0	0	3
				Security Assessment and Risk Analysis	BTEA19753	3	0	0	3
				Database Security and Access Control	BTEA19853	3	0	2	4

8	Internet of Things	Information Technology	All branches of Engineering except those eligible for its Honors	Introduction to Internet of Things	BTEA19454	3	0	2	4
		Electronics and Communications Engg		Introduction to Security of Cyber Physical Systems	BTEA19554	2	0	2	3
				Ubiquitous Sensing, Computing and Communication	BTEA19654	3	0	2	4
				Embedded Systems for IoT	BTEA19754	3	0	0	3
				IoT with Arduino, ESP, and Raspberry Pi	BTEA19854	3	0	2	4
9	Blockchain Technology	Information Technology	All branches of Engineering except those eligible for its Honors	Fundamentals of Blockchain	BTEA19455	3	0	0	3
		Computer Engineering		Smart Contracts and Solidity	BTEA19555	3	0	2	4
				Blockchain Platforms and Use cases	BTEA19655	3	0	2	4
				Blockchain Security and Performance	BTEA19755	3	0	2	4
				Blockchain and FinTech	BTEA19855	3	0	0	3
10	Industrial Automation	Instrumentation and Control	All branches of Engineering except IC	Industrial Measrument Techniques	BTIC19451	3	0	2	4
				Instrumentation system components	BTIC19551	3	0	2	4
				Process Control	BTIC19651	4	0	2	5
				Automation systems	BTIC19751	4	0	2	5
11	Medical Equipment	Instrumentation and	All branches of	Physiological Measurement	BTIC19452	4	0	2	5
	Technology	Control	Engineering	System					
				Biopotential Instrumentation	BTIC19552	4	0	2	5
				Biomedical signal processing	BTIC19652	4	0	2	5
				Medical Imaging System / MOOC- equivalent	BTIC19752	3	0	0	3

12	Electric Vehicle Technology	Electrical Engg.	All branches of Engineering except those eligible for its Honors	Fundamentals of Electric and Hybrid vehicle	BTEL19451	3	0	0	3
				Electrical Machines and Drives	BTEL19551	3	0	2	4
				Power Electronic Converters for EV	BTEL19651	3	0	2	4
				Energy Storage	BTEL19751	3	0	2	4
				Smart grid with EV	BTEL19851	3	0	0	3
13	Renewable Energy System	Electrical Engg.	All branches of Engineering	Renewable Energy Sources	BTEL19452	3	0	0	3
				Power Electronic Converters for Renewable Energy	BTEL19552	3	0	2	4
				Grid Integration of Renewable Energy Sources	BTEL19652	3	0	2	4
				Power Quality Issues and Mitigation Techniques	BTEL19752	3	0	2	4
				Smart Grid	BTEL19852	3	0	0	3
14	Robotics	Electronics and Communication	All branches of Engineering except those eligible for its Honors	Introduction to Robotics	BTEC19451	3	1	0	4
				Mechanics of Robots	BTEC19551	3	0	0	3
				Microprocessor & Embedded Systems	BTEC19651	3	0	2	4
				Control of Robotic Systems	BTEC19751	3	0	0	3
				Project in Robotics	BTEC19851	1	0	6	4
15	Diamond - Textile Industrial Automation	Electronics and Communication	All branches of Engineering	Automation for Diamond and Textile Industry	BTEC19452	3	0	2	4
				Robotics for Automation	BTEC19552	3	0	2	4
				Microcontroller for Project Engineering	BTEC19652	3	0	2	4
				Soft Computing Techniques	BTEC19752	3	0	2	4
				Project for Automation	BTEC19852	0	0	4	2

16	Structural Safety and Stability	Civil Engineering	All branches of Engineering	Behaviour Study of Structures	BTCL19401	4	0	2	5
			Linginieerinig	Quality Controls for Building	BTCL19501	4	0	2	5
				Maintenance of Building	BTCL19601	3	0	2	4
				Disaster Mitigation	BTCL19701	3	0	2	4
				Disaster Wintigation	B10213701			_	-
17	City Development	Civil Engineering	All branches of	New Avenues in Transportation	BTCL19402	4	0	2	5
			Engineering	Planning					
				Landuse Plannig for Beginners	BTCL19502	4	0	2	5
				Fundamentals of GIS, GNSS and Remote Sensing	BTCL19602	3	0	2	4
				Real Estate Planning and Development	BTCL19702	3	0	2	4
10	For the property I St. 1	Chill Francis and	All bassaches C	Marka Maria anno 1	DTC 40402	4		2	-
18	Environmental Engineering	Civil Engineering	All branches of Engineering	Waste Management	BTCL19403	4	0	2	5
				Environment Impact Assessment and Legislation	BTCL19503	4	0	2	5
				Environmental Health, Safety and	BTCL19603	3	0	2	4
				Management	2.0110000			_	
				Climate Change	BTCL19703	3	0	2	4
				_					
19	Geo-Environmental	Civil Engineering	All branches of	Basic Geo-Environmental	BTCL19404	4	0	2	5
	Engineering		Engineering	Engineering					
				Applied Geo-Environmental	BTCL19504	4	0	2	5
				Engineering Conceptual Environmental	BTCL19604	3	0	2	4
				Engineering	B1CL19004	3	"		4
				Geo-Environmental Engineering	BTCL19704	3	0	2	4
20	Green Technology &	Chemical Engineering	Mechnical, Textile, Civil	Green Engineering and	BTCH19451	3	0	0	3
	Sustainable Development			sustainability	BTCH19551	3	0	2	4
				Green Catalysis	BTCH19551 BTCH19552	3	0	0	3
				Cleaner Technology Cleaner Production practices in	BTCH19552 BTCH19651	3	0	2	4
				Chemical industries	P1C1113031	3		_	4
				Green Energy	BTCH19751	3	0	2	4
		1			3.013,31				•

21	Separation Technology	Chemical Engineering	Mechnical, Textile, Inst. &Control, Electrical	Introduction to separation processes	BTCH19461	3	0	0	3
				Membrane Separation Process	BTCH19561	3	0	2	4
				Bioseparation Processes	BTCH19562	3	0	0	3
				Gas Separation	BTCH19661	3	0	2	4
				Advanced Separation Techniques	BTCH19761	3	0	2	4
22	Textile Fibres	Textile Technology	All branches of	Introduction to Textile Fibres	BTTT19451	3	0	0	3
	Textile Fibres	Textile realitionary	Engineering	introduction to reacher libres	211120102	,			
				Physical properties of textile fibres	BTTT19551	3	0	2	4
				Manufactured Fibre Technology	BTTT19552	3	0	0	3
				High Performance & Speciality Fibres-I	BTTT19651	3	0	2	4
				High Performance & Speciality Fibres-II	BTTT19751	3	0	2	4
23	Fabric Formation	Textile Technology	All branches of Engineering	Weaving Preparation	BTTT19452	3	0	2	4
				Weaving Technology -i	BTTT19553	3	0	2	4
				Weaving Technology-II	BTTT19554	3	0	2	4
				Fabric Structure	BTTT19652	3	0	2	4
				Nonwoven	BTTT19752	3	0	0	3
24	Technical Textiles	Textile Technology	All branches of Engineering	Agrotech	BTTT19453	3	0	2	4
			_	Nanotechnology in Textile	BTTT19555	3	0	2	4
				Textile in Defence	BTTT19556	3	0	0	3
				Geotextiles	BTTT19653	3	0	0	3
				Textile for Industrial Applications	BTTT19753	3	0	2	4