

Gujarat Technological University												
Exit Courses for Bachelor of Engineering (BE) after 1st Year (Additional 6-8 Credits)												
Name of Company/Certificate Provider (Mechanical Engineering & Allied Branches)												
AERONAUTICAL ENGINEERING(01), AUTOMOBILE ENGINEERING (02),INDUSTRIAL ENGINEERING (15), MANUFACTURING ENGINEERING (34),MECHANICAL ENGINEERING (19),MECHATRONICS (20), PRODUCTION ENGINEERING (25),ROBOTICS AND AUTOMATION (41), METALLURGY (21), MINING ENGINEERING (22)												
S. No.	Title of Course	Mode of Delivery	No. of Theory hrs.	No. of Practical Hrs	Total Hrs of Course	Total Credits	Course Fee (INR)	Minimum Batch Size	Do the Courses have Specific Timelines?	Will No. of Hours and Credits Displayed on the Certificate Provided?	Application/Content link	Company Name
1	Cad Using Solidworks	Offline	6	54	60	2	8000	15	No	No		CIPET: IPT - Ahmedabad
2	Cad Using Siemens Nx	Offline	6	54	60	2	8000	15	No	No		
3	Cad Using CREO	Offline	6	54	60	2	8000	15	No	No		
4	Autocad - Mechanical	Offline	24	72	96	4	5900	25	2nd Monday of every month	Yes		Indo German Tool Room (IGTR), Vatva, Ahmedabad
5	Solid Works	Offline	24	72	96	4	15340	25	2nd Monday of every month	Yes		
6	Creo	Offline	24	72	96	4	15340	25	2nd Monday of every month	Yes		
7	3D Printing	Offline	24	72	96	4	15340	25	2nd Monday of every month	Yes		
Name of Company/Certificate Provider (ELECTRONICS & COMMUNICATION ENGINEERING & Allied Branches)												
ELECTRONICS & COMMUNICATION ENGINEERING (11), ELECTRONICS & COMMUNICATION (COMMUNICATION SYSTEM ENGINEERING) (54), ELECTRONICS ENGINEERING (10)												
S. No.	Title of Course	Mode of Delivery	No. of Theory hrs.	No. of Practical Hrs	Total Hrs of Course	Total Credits	Course Fee (INR)	Minimum Batch Size	Do the Courses have Specific Timelines?	Will No. of Hours and Credits Displayed on the Certificate Provided?	Application/Content link	Company Name
1	VLSI	Offline	24	72	96	4	14160	25	2nd Monday of every month	Yes		CIPET: IPT - Ahmedabad
2	Robotics and Automation	Offline	24	72	96	4	15340	25	2nd Monday of every month	Yes		
3	Artificial Intelligence (AI) for Real world Application	Online	60	30	90	5	8000	No	No	Yes	https://www.tcsion.com/courses/ibc/artificial-intelligence-real-world-application-course/?utm_source=gtu	TCSion
4	Machine Learning for Real-World Application	Online	60	30	90	5	8000	No	No	Yes	https://www.tcsion.com/courses/ibc/machine-learning-for-real-world-application-course/?utm_source=gtu	
5	Scientific Computational tools /Data Science this includes Scilab, GUI in Scilab and R programming	Online	12 hours 26 minutes	55	68	3	600 + GST	1	Minimum 2 weeks, maximum 4 weeks	Participation certificate will reflect the Training start and end date and online test certificate will reflect the credits and marks scored.	http://bit.ly/4cilyNs	Spoken Tutorial ,IIT Bombay
6	Electronics Design and Control Systems Toolkit this includes Arduino, eSim and OpenPLC with Ldmicro	Online	10 hours	57	67	3	600 + GST	1	Minimum 2 weeks, maximum 4 weeks	Participation certificate will reflect the Training start and end date and online test certificate will reflect the credits and marks scored.	http://bit.ly/4cilyNs	
7	Advanced Scripting Languages Toolkit this includes PERL, Python 3.4.3 and Ruby	Online	12 hours 8 minutes	58	70	3	600 + GST	1	Minimum 2 weeks, maximum 4 weeks	Participation certificate will reflect the Training start and end date and online test certificate will reflect the credits and marks scored.	http://bit.ly/4cilyNs	
Name of Company/Certificate Provider (Civil Engineering & Allied Branches)												
CIVIL ENGINEERING (06), ENVIRONMENTAL ENGINEERING (13)												
S. No.	Title of Course	Mode of Delivery	No. of Theory hrs.	No. of Practical Hrs	Total Hrs of Course	Total Credits	Course Fee (INR)	Minimum Batch Size	Do the Courses have Specific Timelines?	Will No. of Hours and Credits Displayed on the Certificate Provided?	Application/Content link	Company Name
1	Autocad - Civil	Offline	24	72	96	4	5900	25	2nd Monday of every month	Yes		CIPET: IPT - Ahmedabad
2	Revit Architecture	Offline	24	72	96	4	14160	25	2nd Monday of every month	Yes		
Name of Company/Certificate Provider (Electrical Engineering& Allied Branches)												
ELECTRICAL ENGINEERING (09), POWER ELECTRONICS / POWER ELECTRONICS ENGINEERING (24), SMART AND SUSTAINABLE ENERGY(50)												
S. No.	Title of Course	Mode of Delivery	No. of Theory hrs.	No. of Practical Hrs	Total Hrs of Course	Total Credits	Course Fee (INR)	Minimum Batch Size	Do the Courses have Specific Timelines?	Will No. of Hours and Credits Displayed on the Certificate Provided?	Application/Content link	Company Name
1	Introduction to Electric Vehicles	Offline	0	90	90	3	22500	10	No	Yes	https://drive.google.com/file/d/1k1Ibu6dfHDAH64CSV_Eq_00DBCn7_ol/view?usp=sharing	iACE by Maruti Suzuki
2	Basics of Electric Vehicles	Offline	0	90	90	3	22500	10	No	Yes	https://drive.google.com/file/d/1KL31ri_eT0uZ_3ETNNup380AdxLdQW/view?usp=sharing	
3	Electric & Hybrid Vehicle Technology	Offline	0	120	120	3	30000	10	No	Yes	https://drive.google.com/file/d/1HYO_MSI42X4GbEGr_bD4gWkLCOBnblC/view?usp=sharing	
4	Introduction to Automotive Manufacturing	Offline	0	90	90	3	22500	10	No	Yes	https://drive.google.com/file/d/1hq4EzLzOyF6rOKabQM-D3p9lDzsIm6x/view?usp=sharing	
5	The Design Thinking - Practitioner's Perspective course	Online	60	30	90	5	8000	No	No	Yes	https://www.tcsion.com/courses/ibc/design-thinking-practitioners-perspective-course/?utm_source=gtu	TCSION
6	Artificial Intelligence (AI) for Real world Application	Online	60	30	90	5	8000	No	No	Yes	https://www.tcsion.com/courses/ibc/artificial-intelligence-real-world-application-course/?utm_source=gtu	

7	Machine Learning for Real-World Application	Online	60	30	90	5	8000	No	NO	Yes	https://www.tcsion.com/courses/ihc/machine-learning-for-real-world-application-course/?utm_source=gtu	
8	Application of Deep Learning and Neural Networks	Online	60	30	90	5	8000	No	No	Yes	https://www.tcsion.com/courses/ihc/deep-learning-neural-networks-course/?utm_source=gtu	
Name of Company/Certificate Provider (Textile Engineering(29))												
S. No.	Title of Course	Mode of Delivery	No. of Theory hrs.	No. of Practical Hrs	Total Hrs of Course	Total Credits	Course Fee (INR)	Minimum Batch Size	Do the Courses have Specific Timelines?	Will No. of Hours and Credits Displayed on the Certificate Provided?	Application/Content link	Company Name
1	CAD Using Solidworks	Offline	6	54	60	2	8000	15	No	No		CIPET: IPT - Ahmedabad
2	Design & Manufacturing Through Cad/Cam Software (Solidworks, Siemens Nx, Creo & Ansys)	Offline	12	108	120	5	15000	15	No	No		
3	Solid Works	Offline	24	72	96	4	15340	25	2nd Monday of every month	Yes		Indo German Tool Room (IGTR), Vatva, Ahmedabad
4	ANSYS	Offline	24	72	96	4	22420	25	2nd Monday of every month	Yes		
5	3D Printing	Offline	24	72	96	4	15340	25	2nd Monday of every month	Yes		
6	The Design Thinking - Practitioner's Perspective course	Online	60	30	90	5	8000	No	No	Yes	https://www.tcsion.com/course/s/ihc/design-thinking-practitioners-perspective-course/?utm_source=gtu	TCSiON
7	Artificial Intelligence (AI) for Real world Application	Online	60	30	90	5	8000	No	No	Yes	https://www.tcsion.com/course/s/ihc/artificial-intelligence-real-world-application-course/?utm_source=gtu	
Name of Company/Certificate Provider (Instrumentation & Control Engineering& Allied Branches)												
BIOMEDICAL ENGINEERING (03),INSTRUMENTATION AND CONTROL ENGINEERING (17),ELECTRONICS AND INSTRUMENTATION ENGINEERING (47)												
S. No.	Title of Course	Mode of Delivery	No. of Theory hrs.	No. of Practical Hrs	Total Hrs of Course	Total Credits	Course Fee (INR)	Minimum Batch Size	Do the Courses have Specific Timelines?	Will No. of Hours and Credits Displayed on the Certificate Provided?	Application/Content link	Company Name
1	Solid Works	Offline	24	72	96	4	15340	25	2nd Monday of every month	Yes		Indo German Tool Room (IGTR), Vatva, Ahmedabad
2	Creo	Offline	24	72	96	4	15340	25	2nd Monday of every month	Yes		
3	Catia	Offline	24	72	96	4	17700	25	2nd Monday of every month	Yes		
4	NX CAD	Offline	24	72	96	4	15340	25	2nd Monday of every month	Yes		
5	Mastercam	Offline	24	72	96	4	15340	25	2nd Monday of every month	Yes		
6	Nx Cam	Offline	24	72	96	4	12980	25	2nd Monday of every month	Yes		
7	ANSYS	Offline	24	72	96	4	22420	25	2nd Monday of every month	Yes		
8	3D Printing	Offline	24	72	96	4	15340	25	2nd Monday of every month	Yes		
9	Autocad - Civil	Offline	24	72	96	4	5900	25	2nd Monday of every month	Yes		
10	3DS MAX	Offline	24	72	96	4	11800	25	2nd Monday of every month	Yes		
11	VLSI	Offline	24	72	96	4	14160	25	2nd Monday of every month	Yes		
12	Plc Programming	Offline	24	72	96	4	14160	25	2nd Monday of every month	Yes		
13	Scada	Offline	24	72	96	4	11800	25	2nd Monday of every month	Yes		
14	Robotics And Automation	Offline	24	72	96	4	15340	25	2nd Monday of every month	Yes		
15	Electrical Cad	Offline	24	72	96	4	9440	25	2nd Monday of every month	Yes		
16	Project Work On Ansys Software	OFFLINE	6	54	60	2	10000	15	No	No		Name of Company/Certificate Provider - CIPET: IPT - Ahmedabad
17	Programming & Operation Of Cnc Milling Machine	OFFLINE	8	64	72	3	10000	15	No	No		
18	Rapid Prototyping Using Fdm	OFFLINE	20	25	45	2	12000	15	No	No		
19	Operation & Programming Of Cnc - Edm & Wedm	OFFLINE	6	54	60	2	15000	15	No	No		
20	Cad Using Solidworks	Offline	6	54	60	2	8000	15	No	No		
21	Cad Using Siemens Nx	Offline	6	54	60	2	8000	15	No	No		
22	Cad Using Creo	Offline	6	54	60	2	8000	15	No	No		
23	Cad/Cam Using Creo	Offline	9	81	90	4	10000	15	No	No		
24	CAD/CAM -Siemens NX With Mold Design and Development	Offline	12	108	120	5	12000	15	No	No		
25	CAD/CAM SIEMENS NX	Offline	9	81	90	4	10000	15	No	No		
26	Cad/Cam Siemens Nx Interfacing With Vmc Machine	Offline	12	108	120	5	12000	15	No	No		
27	Vmc Programming Through Mastercam	Offline	9	81	90	4	10000	15	No	No		
28	Design & Manufacturing Through Cad/Cam Software (Solidworks, Siemens Nx, Creo & Ansys)	Offline	12	108	120	5	15000	15	No	No		
29	Introduction to Electric Vehicles	Offline	0	90	90	3	22500	10	No	Yes	https://drive.google.com/file/d/1K11bu6dfHDA1H64CSVEq_000DBCnz7_ol/view?usp=sharing	
30	Basics of Electric Vehicles	Offline	0	90	90	3	22500	10	No	Yes	https://drive.google.com/file/d/1K11bu6dfHDA1H64CSVEq_000DBCnz7_ol/view?usp=sharing	

31	Electric & Hybrid Vehicle Technology	Offline	0	120	120	3	30000	10	No	Yes	https://drive.google.com/file/d/1HVO-MSJ42X4GbEGr_bDE4pW8-CObNblC/view?usp=sharing	iACE by Maruti Suzuki	
32	Introduction to Automotive Manufacturing	Offline	0	90	90	3	22500	10	No	Yes	https://drive.google.com/file/d/1hg4fLzLxOyF6rQKgbQM-LD2p9lDsa1mfx/view?usp=sharing		
33	The Design Thinking - Practitioner's Perspective course	Online	60	30	90	5	8000	No	No	Yes	https://www.tcsion.com/course/s/hc/design-thinking-practitioners-perspective-course?utm_source=gtu	TCSION	
34	Artificial Intelligence (AI) for Real world Application	Online	60	30	90	5	8000	No	No	Yes	https://www.tcsion.com/course/s/hc/artificial-intelligence-real-world-application-course?utm_source=gtu		
35	Machine Learning for Real-World Application	Online	60	30	90	5	8000	No	No	Yes	https://www.tcsion.com/course/s/hc/machine-learning-for-real-world-application-course?utm_source=gtu		
36	Application of Deep Learning and Neural Networks	Online	60	30	90	5	8000	No	No	Yes	https://www.tcsion.com/course/s/hc/deep-learning-neural-networks-course?utm_source=gtu		

Name of Company/Certificate Provider (Chemical Engineering& Allied Branches)
BIOTECHNOLOGY (04),CHEMICAL ENGINEERING (05),FOOD ENGINEERING AND TECHNOLOGY (51),PLASTIC TECHNOLOGY (23),PLASTICS ENGINEERING (53),RUBBER TECHNOLOGY(26),CHEMICAL ENGINEERING (44)

S. No.	Title of Course	Mode of Delivery	No. of Theory hrs.	No. of Practical Hrs	Total Hrs of Course	Total Credits	Course Fee (INR)	Minimum Batch Size	Do the Courses have Specific Timelines?	Will No. of Hours and Credits Displayed on the Certificate Provided?	Application/Content link	Company Name	Branch
1	Fundamentals of programming to Application development this includes C and Cpp, Advanced Cpp, Android app using Kotlin	Online	6 hours 17 Minutes	54 hours	60 hours	2	600 + GST	1	No	Participation certificate will reflect the Training start and end date and online test certificate will reflect the credits and marks scored.	http://bit.ly/4cilyNs	Spoken Tutorial ,JIT Bombay	Chemical,Rubber,Plastic
2	Scientific Computational tools /Data Science this includes Scilab, GUI in Scilab and R programming	Online	12 hours 26 minutes	55 hours	68 hours	3	600 + GST	1	No	Participation certificate will reflect the Training start and end date and online test certificate will reflect the credits and marks scored.	http://bit.ly/4cilyNs		Chemical,Rubber,Plastic
3	Office Productivity Suite this includes LibreOffice Suite Calc 6.3, LibreOffice Suite Writer 6.3, LibreOffice Suite Impress 6.3, LaTeX	Online	9 hours 51 minutes	60 hours	70 hours	2	800 + GST	1	No	Participation certificate will reflect the Training start and end date and online test certificate will reflect the credits and marks scored.	http://bit.ly/4cilyNs		Chemical,Rubber,Plastic
4	Chemical/molecular visualization tools this includes GChemPaint, Avogadro, Jmol Application, UCSF Chimera	Online	8 hours 15 minutes	52 hours	60 hours	2	800 + GST	1	No	Participation certificate will reflect the Training start and end date and online test certificate will reflect the credits and marks scored.	http://bit.ly/4cilyNs		Chemical,Rubber,Plastic
5	Engineering Simulation and Design Tools this includes Osdag, OpenFOAM version 7, DWSIM and OpenModelica	Online	11 hours 33 minutes	59 hours	70 hours	3	800 + GST	1	No	Participation certificate will reflect the Training start and end date and online test certificate will reflect the credits and marks scored.	http://bit.ly/4cilyNs		Chemical,Rubber,Plastic
6	Chemical/Molecular simulation tools this includes Apps On Physics, CellDesigner, AutoDock4 and ChemCollective Virtual Labs	Online	7 hour 45 minutes	52 hours	60 hours	2	800 + GST	1	No	Participation certificate will reflect the Training start and end date and online test certificate will reflect the credits and marks scored.	http://bit.ly/4cilyNs		Chemical,Rubber
7	Chemical/molecular visualization tools this includes GChemPaint, Avogadro, Jmol Application, UCSF Chimera	Online	8 hours 15 minutes	52 hours	60 hours	2	800 + GST	1	No	Participation certificate will reflect the Training start and end date and online test certificate will reflect the credits and marks scored.	http://bit.ly/4cilyNs		Chemical,Rubber
8	Advanced Scripting Languages Toolkit this includes PERL, Python 3.4.3 and Ruby	Online	12 hours 8 minutes	58 hours	70 hours	3	600 + GST	1	No	Participation certificate will reflect the Training start and end date and online test certificate will reflect the credits and marks scored.	http://bit.ly/4cilyNs		Rubber
9	Graphics, Animation, CAD and Design includes GIMP, Inkscape, Blender, QCAD, Synfig 2D Animation	Online	14 hours 32 minutes	56 hours	70 hours	3	1000 + GST	1	No	Participation certificate will reflect the Training start and end date and online test certificate will reflect the credits and marks scored.	http://bit.ly/4cilyNs		Plastic

Name of Company/Certificate Provider (Computer Engineering& Allied Branches)
ARTIFICIAL INTELLIGENCE AND DATA SCIENCE(43), ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING(52), COMPUTER ENGINEERING(07), COMPUTER SCIENCE AND ENGINEERING(31),COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE) (46),COMPUTER SCIENCE AND DESIGN(49),COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) (42),COMPUTER SCIENCE AND ENGINEERING (INTERNET OF THINGS AND CYBER SECURITY INCLUDING BLOCK CHAIN TECHNOLOGY) (45),COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY) (48),INFORMATION AND COMMUNICATION TECHNOLOGY(32),INFORMATION TECHNOLOGY (16)

S. No.	Title of Course	Mode of Delivery	No. of Theory hrs.	No. of Practical Hrs	Total Hrs of Course	Total Credits	Course Fee (INR)	Minimum Batch Size	Do the Courses have Specific Timelines?	Will No. of Hours and Credits Displayed on the Certificate Provided?	Application/Content link	Company Name	
1	Fundamentals of programming to Application development this includes C and Cpp, Advanced Cpp, Android app using Kotlin	Online	6 hours 17 Minutes	54 hours	60 hours	2	600 + GST	1	No	Participation certificate will reflect the Training start and end date and online test certificate will reflect the credits and marks scored.	http://bit.ly/4cilyNs		

2	Web development tools this includes Bootstrap, CSS and HTML	Online	8 hours 36 minutes	52 hours	60 hours	2	600 + GST	1	No	Participation certificate will reflect the Training start and end date and online test certificate will reflect the credits and marks scored.	http://bit.ly/4cilyNs	Spoken Tutorial ,JIT Bombay	
3	Content Management Systems this includes Drupal, Joomla and Moodle Learning Management System	Online	11 hours 17 minutes	59 hours	70 hours	3	600 + GST	1	No	Participation certificate will reflect the Training start and end date and online test certificate will reflect the credits and marks scored.	http://bit.ly/4cilyNs		
4	Advanced Scripting Languages Toolkit this includes PERL, Python 3.4.3 and Ruby	Online	12 hours 8 minutes	58 hours	70 hours	3	600 + GST	1	No	Participation certificate will reflect the Training start and end date and online test certificate will reflect the credits and marks scored.	http://bit.ly/4cilyNs		