

Programme Core	Programme Elective	University Core	University Elective	Total Credits
58	40	70	12	180

Course Code	Course Title	Course Type	L	T	P	J	C
PROGRAMME CORE							
CSE1003	Digital Logic and Design	ETL	3	0	2	0	4
CSE1004	Network and Communication	ETL	3	0	2	0	4
CSE2001	Computer Architecture and Organization	TH	3	0	0	0	3
CSE2002	Theory of Computation and Compiler Design	TH	4	0	0	0	4
CSE2003	Data Structures and Algorithms	ETLP	2	0	2	4	4
CSE2004	Database Management Systems	ETLP	2	0	2	4	4
CSE2005	Operating Systems	ETLP	2	0	2	4	4
CSE2006	Microprocessor and Interfacing	ETLP	2	0	2	4	4
CSE3001	Software Engineering	ETLP	2	0	2	4	4
CSE3002	Internet and Web Programming	ETLP	2	0	2	4	4
CSE4001	Parallel and Distributed Computing	ETLP	2	0	2	4	4
EEE1001	Basic Electrical and Electronics Engineering	ETL	2	0	2	0	3
MAT1014	Discrete Mathematics and Graph Theory	TH	3	1	0	0	4
MAT2002	Applications of Differential and Difference Equations	ETL	3	0	2	0	4
MAT3004	Applied Linear Algebra	TH	3	1	0	0	4
Course Code	Course Title	Course Type	L	T	P	J	C
PROGRAMME ELECTIVE							
CSE1006	Blockchain and Cryptocurrency Technologies	TH	3	0	0	0	3
CSE1007	Java Programming	ETL	3	0	2	0	4
CSE3006	Embedded System Design	ETL	3	0	2	0	4
CSE3009	Internet of Things	ETP	3	0	0	4	4
CSE3011	Robotics and its Applications	ETP	3	0	0	4	4
CSE3013	Artificial Intelligence	ETP	3	0	0	4	4
CSE3018	Content Based Image and Video Retrieval	ETLP	2	0	2	4	4
CSE3020	Data Visualization	ETLP	2	0	2	4	4
CSE3021	Social and Information Networks	ETP	3	0	0	4	4
CSE3024	Web Mining	ETL	3	0	2	0	4
CSE3025	Large Scale Data Processing	ETLP	2	0	2	4	4
CSE3029	Game Programming	ETLP	2	0	2	4	4
CSE4003	Cyber Security	ETP	3	0	0	4	4
CSE4004	Digital Forensics	ETL	3	0	2	0	4
CSE4011	Virtualization	ETP	3	0	0	4	4
CSE4014	High Performance Computing	ETP	3	0	0	4	4
CSE4015	Human Computer Interaction	ETP	3	0	0	4	4

Course Code	Course Title	Course Type	L	T	P	J	C
CSE4019	Image Processing	ETP	3	0	0	4	4
CSE4020	Machine Learning	ETLP	2	0	2	4	4
CSE4022	Natural Language Processing	ETP	3	0	0	4	4
CSE4027	Mobile Programming	ETLP	2	0	2	4	4
CSE4028	Object Oriented Software Development	ETLP	2	0	2	4	4
Course Code	Course Title	Course Type	L	T	P	J	C
UNIVERSITY CORE							
CHY1002	Environmental Sciences	TH	3	0	0	0	3
CHY1701	Engineering Chemistry	ETL	3	0	2	0	4
CSE1001	Problem Solving and Programming	LO	0	0	6	0	3
CSE1002	Problem Solving and Object Oriented Programming	LO	0	0	6	0	3
CSE3099	Industrial Internship	PJT	0	0	0	0	2
CSE3999	Technical Answers for Real World Problems (TARP)	ETP	1	0	0	8	3
CSE4098	Comprehensive Examination	PJT	0	0	0	0	2
CSE4099	Capstone Project	PJT	0	0	0	0	20
ENG1011	English for Engineers	LO	0	0	4	0	2
HUM1021	Ethics and Values	TH	2	0	0	0	2
MAT1011	Calculus for Engineers	ETL	3	0	2	0	4
MAT2001	Statistics for Engineers	ETL	2	1	2	0	4
MGT1022	Lean Start-up Management	ETP	1	0	0	4	2
PHY1701	Engineering Physics	ETL	3	0	2	0	4
PHY1999	Introduction to Innovative Projects	ETP	1	0	0	4	2
EXC4097	Co-Extra Curricular Basket	CDB	0	0	0	0	2
EXC1001 - Service to the Society - ECA							
EXC1002 - Youth Red Cross - ECA							
EXC1002 - Red Cross - ECA							
EXC1003 - ABCD-AnyBody Can Dance - ECA							
EXC1004 - Entrepreneurs Cell - ECA							
EXC1004 - Building Entrepreneurship Competencies and Skills - ECA							
EXC1005 - Energy and Environmental Protection Club - ECA							
EXC1006 - Music - The Art of Culture - ECA							
EXC1007 - Sports for Healthy Life - ECA							
EXC1008 - Instrumentation for Engineers - ECA							
EXC1009 - Debating Skills - ECA							
EXC1010 - Mobility Engineering- Land, Air and Sea - ECA							
EXC1011 - Skills in Competitive Coding - ECA							
EXC1012 - Basics of Space Sciences - ECA							
EXC1013 - Roadmap to a Connected World - ECA							
EXC1014 - Dramatics Club - ECA							
EXC1014 - The Art of Acting - ECA							

Course Code	Course Title	Course Type	L	T	P	J	C
EXC1016	ASCE - VIT Student Chapter - ECA						
EXC1017	Health Club - ECA						
EXC1017	Health and Wellness - ECA						
EXC1018	IETE - Student Chapter - ECA						
EXC1018	Electronics and Telecommunication for Skill Development - ECA						
EXC1019	The Fine Arts Club - ECA						
EXC1019	Basic Art and Craft Techniques - ECA						
EXC1020	Skills on Creativity - ECA						
EXC1021	Computer Society of India - ECA						
EXC1021	Computer in Society - ECA						
EXC1023	Hindi Literary Association - ECA						
EXC1023	Hindi Arts and Literature - ECA						
EXC1025	Toastmasters International - VIT Chapter - ECA						
EXC1027	Power and Energy for Societal Development - ECA						
EXC1028	VIT Community Radio - ECA						
EXC1030	Make a Difference - ECA						
EXC1030	Child Empowerment and Development - ECA						
EXC1032	Fifth Pillar - ECA						
EXC1032	Building Blocks of Democracy - ECA						
EXC1033	Robotics for Engineers - ECA						
EXC1034	Techloop - ECA						
EXC1035	Association for Computing Machinery - ECA						
EXC1035	Computing in Science and Engineering - ECA						
EXC1049	Innovation for Engineering Applications - ECA						
EXC1054	The Art and Skills of Photography - ECA						
EXC1061	Skill Development in Manufacturing - ECA						
EXC1068	Discussion through Media - ECA						
EXC1069	Fep-Si - ECA						
EXC1070	Working to Engineer a Better World - ECA						
EXC1071	Culinary Crusade - ECA						
EXC1072	VIT Film Society - ECA						
EXC1072	The Art and Skills of Film Making - ECA						
EXC1075	The Institution of Engineers (India) - ECA						
EXC1075	ENGINEERING SKILLSET - ECA						
EXC1076	Tamil Arts and Literature - ECA						
EXC1077	National Cadet Corps (NCC) - ECA						
EXC1078	VIT Spartans - ECA						
EXC1078	Learning with Spartans - ECA						
EXC1079	Anokha - ECA						
EXC1079	Inception of Change - ECA						
EXC1080	American Society of Mechanical Engineers - ECA						
EXC1081	Open Source Development for Google Applications - ECA						
EXC1082	Telugu Literary Association - ECA						

Course Code	Course Title	Course Type	L	T	P	J	C
EXC1083	Mozilla Firefox - ECA						
EXC1083	Open Source User Interface - ECA						
EXC1084	Apple Developers Group - ECA						
EXC1084	IOS Platform - ECA						
EXC1085	Technology And Gaming Club (TAG) - ECA						
EXC1087	Engineering in Medicine and Biology - ECA						
EXC1088	Energy for Societal Development - ECA						
EXC1090	Economic Development and Commercial Sciences - ECA						
EXC1095	Skills in Financial Investment - ECA						
EXC1097	Practical Fundamentals of Chemical Engineering - ECA						
EXC1100	Experiential Learning of Energy Engineers - ECA						
EXC1101	Mathsomania - ECA						
EXC1102	Art of Research and Publication - ECA						
EXC1107	Skills on Chemical Engineering - ECA						
EXC1110	Engineering for Industrial Applications - ECA						
EXC1111	TechEd - ECA						
EXC1114	Communication in Technology and Networking - ECA						
EXC1120	Creativity Club - ECA						
EXC1121	Social Entrepreneurship - ECA						
EXC1124	Humanitarian Service - ECA						
EXC1127	Debating on Internal Issues - ECA						
EXC1129	Uddeshya - ECA						
EXC1129	Peer Educator Training Programme - ECA						
EXC1132	The way of Living - ECA						
EXC1134	Child Care and Education - ECA						
EXC1135	Kannada Arts and Literature - ECA						
EXC1157	Trekking Club - ECA						
EXC4097	Co/Extra Curricular - ECA						
FLC4097	Foreign Language Course Basket	CDB	0	0	0	0	2
ESP1001	ESPAÑOL FUNDAMENTAL - TH						
ESP2001	ESPAÑOL INTERMEDIO - ETL						
FRE1001	Français quotidien - TH						
FRE2001	Français progressif - ETL						
GER1001	Grundstufe Deutsch - TH						
GER2001	Mittelstufe Deutsch - ETL						
GRE1001	Modern Greek - TH						
JAP1001	Japanese for Beginners - TH						
RUS1001	Russian for Beginners - TH						
STS4097	Soft Skills B.Tech. / B.Des.	CDB	0	0	0	0	6
STS1001	Introduction to Soft Skills - SS						
STS1002	Introduction to Business Communication - SS						
STS1101	Fundamentals of Aptitude - SS						
STS1102	Arithmetic Problem Solving - SS						

Course Code	Course Title	Course Type	L	T	P	J	C
STS1201	Introduction to Problem Solving - SS						
STS1202	Introduction to Quantitative, Logical and Verbal Ability - SS						
STS2001	Reasoning Skill Enhancement - SS						
STS2002	Introduction to Etiquette - SS						
STS2101	Getting Started to Skill Enhancement - SS						
STS2102	Enhancing Problem Solving Skills - SS						
STS2201	Numerical Ability and Cognitive Intelligence - SS						
STS2202	Advanced Aptitude and Reasoning Skills - SS						
STS3001	Preparedness for External Opportunities - SS						
STS3004	Data Structures and Algorithms - SS						
STS3005	Code Mithra - SS						
STS3006	Preparedness for External Opportunities - SS						
STS3007	Preparedness for Career Opportunities - SS						
STS3101	Introduction to Programming Skills - SS						
STS3104	Enhancing Programming Ability - SS						
STS3105	Computational Thinking - SS						
STS3201	Programming Skills for Employment - SS						
STS3204	JAVA Programming and Software Engineering Fundamentals - SS						
STS3205	Advanced JAVA Programming - SS						
STS3301	JAVA for Beginners - SS						
STS3401	Foundation to Programming Skills - SS						
STS5002	Preparing for Industry - SS						
Course Code	Course Title	Course Type	L	T	P	J	C
BRIDGE COURSE							
ENG1002	Effective English	LO	0	0	4	0	2
ENG1702	Effective English	LO	0	0	4	0	2
Course Code	Course Title	Course Type	L	T	P	J	C
NON CREDIT COURSE							