Programme Core	Programme Elective	University Core	University Elective	Total Credits
60	38	70	12	180

Course Code	Course Title	Course Type	L	T	P	J	C
	PROGRAMME CORE						
MAT2002	Applications of Differential and Difference Equations	ETL	3	0	2	0	4
MAT3003	Complex Variables and Partial Differential Equations	TH	3	2	0	0	4
MAT3005	Applied Numerical Methods	TH	3	2	0	0	4
MEE1001	Engineering Drawing	ETL	1	0	4	0	3
MEE1002	Engineering Mechanics	TH	2	2	0	0	3
MEE1003	Engineering Thermodynamics	TH	2	2	0	0	3
MEE1005	Materials Engineering and Technology	ETL	3	0	2	0	4
MEE1007	Manufacturing Processes	ETL	2	0	2	0	3
MEE1032	Mechanics of Solids and Fluids	ETL	3	0	2	0	4
MEE1035	Automotive Electricals	TH	3	0	0	0	3
MEE1036	Automotive Chassis	ETL	3	0	2	0	4
MEE1037	Automotive Electronics	ETL	3	0	2	0	4
MEE2001	Machine Drawing	ETL	1	0	4	0	3
MEE2004	Mechanics of Machines	ETL	2	2	2	0	4
MEE2038	Thermal and Heat Transfer	TH	2	2	0	0	3
MEE2039	Automotive Transmission Systems	ETP	2	0	0	4	3
MEE3015	Automotive Engines	ETL	3	0	2	0	4

Course Code	Course Title	Course Type	L	T	P	J	C
	PROGRAMME ELECTIVE						
CHE2006	Fuels and Combustion	TH	3	0	0	0	3
MEE1013	Fuel Cells	TH	3	0	0	0	3
MEE1014	Industrial Engineering and Management	TH	3	0	0	0	3
MEE1024	Operations Research	TH	2	2	0	0	3
MEE1038	Solar Photovoltaic System Design	ETP	2	0	0	4	3
MEE1039	Automotive Fuels and Energy	ETL	3	0	2	0	4
MEE1040	Auto Certification and Homologation	TH	3	0	0	0	3
MEE1041	Automotive Safety Systems	TH	3	0	0	0	3
MEE1042	Ergonomics and Styling	TH	3	0	0	0	3
MEE1043	Design Failure Mode and Effects Analysis	TH	3	0	0	0	3
MEE2006	Machining Processes and Metrology	ETL	2	0	2	0	3
MEE2007	CAD/CAM	ETL	2	0	4	0	4
MEE2008	Product Design for Manufacturing	ETP	2	0	0	4	3
MEE2026	Turbo Machines	ETL	2	2	2	0	4
MEE2028	Automotive Aerodynamics	ETP	2	2	0	4	4

Course Code	Course Title	Course Type	L	T	P	J	C
MEE2040	Non-Destructive Testing	ETLP	2	0	2	4	4
MEE2041	Vehicle Body Engineering	TH	3	0	0	0	3
MEE2042	Two and Three Wheeler	TH	3	0	0	0	3
MEE2043	Vehicle Inspection and Maintenance	ETP	2	0	0	4	3
MEE2044	Instrumentation and Vehicle Diagnostics	TH	3	0	0	0	3
MEE2045	Automotive Control Systems	ETP	2	0	0	4	3
MEE2046	Automotive Braking Systems	ETP	2	0	0	4	3
MEE2047	Automotive Suspension and Steering Systems	ETP	2	0	0	4	3
MEE2048	Applied Hydraulics and Off Road Vehicles	TH	3	0	0	0	3
MEE2049	Manufacturing of Automotive Components	TH	3	0	0	0	3
MEE2050	Vehicle Dynamics	TH	2	2	0	0	3
MEE3016	Design of Chassis Components	ETP	2	2	0	4	4
MEE3017	Automotive HVAC	TH	3	0	0	0	3
MEE3018	Noise, Vibration and Harshness	TH	3	0	0	0	3
MEE4006	Computational Fluid Dynamics	ETL	2	2	2	0	4
MEE4008	Engine Testing and Certification	TH	3	0	0	0	3
MEE4009	Engine Design and Development	TH	2	2	0	0	3
MEE4010	Engine Emission and Control	TH	3	0	0	0	3
MEE4011	Advanced Automotive Power Plants	TH	3	0	0	0	3
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
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
MEE3099	Industrial Internship	PJT	0	0	0	0	2
MEE3999	Technical Answers for Real World Problems (TARP)	ETP	1	0	0	8	3
MEE4098	Comprehensive Examination	PJT	0	0	0	0	2
MEE4099	Capstone Project	PJT	0	0	0	0	20
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

Course Code	Course Title	Course Type	L	T	P	J	C
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							
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							

Course Code	Course Title	Course Type	L	T	P	J	C
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							
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							

Course Code	Course Title	Course Type	L	T	P	J	C
EXC4097 - Co/Extra Curricular - ECA							
FLC4097	Foreign Language Course Basket	CDB	0	0	0	0	2
ESP1001 - ESPANOL FUNDAMENTAL - TH							
ESP2001 - ESPANOL INTERMEDIO - ETL							
FRE1001 - Francais quotidien - TH							
FRE2001 - Francais 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							
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
Course Code	Course Title	Course Type	L	T	P	J	C
NON CREDIT COURSE							