

| Programn | ne Core | Programme Elective | University Core | University Electiv | ve To | otal Cr | edits | | |
|-------------|---------------------|--------------------------------|-------------------|--------------------|-------|---------|-------|---|---|
| | 60 | 38 | 70 | 12 | | | 180 | | |
| Course Code | Course [·] | Title | | Course Type | L | т | Р | J | С |
| | | | PROGRAMME CO | | | | | | |
| EEE1001 | Basic Ele | ectrical and Electronics Eng | | ETL | 2 | 0 | 2 | 0 | 3 |
| MAT2002 | Applicatio | ons of Differential and Differ | rence Equations | ETL | 3 | 0 | 2 | 0 | 4 |
| MAT3003 | Complex | Variables and Partial Differ | ential Equations | тн | 3 | 1 | 0 | 0 | 4 |
| MAT3005 | Applied N | Applied Numerical Methods | | тн | 3 | 1 | 0 | 0 | 4 |
| MEE1001 | Engineer | ing Drawing | | ETL | 1 | 0 | 4 | 0 | 3 |
| MEE1002 | Engineer | ing Mechanics | | тн | 2 | 2 | 0 | 0 | 3 |
| MEE1003 | Engineer | ing Thermodynamics | | тн | 2 | 2 | 0 | 0 | 3 |
| MEE1004 | Fluid Me | chanics | | ETL | 2 | 2 | 2 | 0 | 4 |
| MEE1005 | Materials | Engineering and Technolo | ду | ETL | 3 | 0 | 2 | 0 | 4 |
| MEE1007 | Manufact | turing Processes | | ETL | 2 | 0 | 2 | 0 | 3 |
| MEE2001 | Machine | Drawing | | ETL | 1 | 0 | 4 | 0 | 3 |
| MEE2002 | Strength | of Materials | | ETL | 2 | 2 | 2 | 0 | 4 |
| MEE2003 | Thermal | Engineering Systems | | ETL | 2 | 2 | 2 | 0 | 4 |
| MEE2004 | Mechanio | cs of Machines | | ETL | 2 | 2 | 2 | 0 | 4 |
| MEE2005 | Heat Tra | nsfer | | ETL | 2 | 2 | 2 | 0 | 4 |
| MEE2006 | Machinin | g Processes and Metrology | , | ETL | 2 | 0 | 2 | 0 | 3 |
| MEE3001 | Design o | f Machine Elements | | тн | 2 | 2 | 0 | 0 | 3 |
| Course Code | Course [·] | Title | | Course Type | L | т | P | J | С |
| | | PR | OGRAMME ELEC | CTIVE | | | | | |
| CHE2006 | Fuels and | d Combustion | | тн | 3 | 0 | 0 | 0 | 3 |
| EEE2007 | Electroni | cs and Microcontrollers | | ETP | 2 | 0 | 0 | 4 | 3 |
| EEE3001 | Control S | Systems | | ETL | 3 | 0 | 2 | 0 | 4 |
| MEE1008 | MEMS | | | тн | 3 | 0 | 0 | 0 | 3 |
| MEE1009 | New Pro | duct Development | | ETP | 2 | 0 | 0 | 4 | 3 |
| MEE1011 | Renewat | ble Energy Sources | | ETL | 2 | 2 | 2 | 0 | 4 |
| MEE1012 | Alternativ | ve Fuels | | ТН | 3 | 0 | 0 | 0 | 3 |
| MEE1014 | Industrial | I Engineering and Managen | nent | ТН | 3 | 0 | 0 | 0 | 3 |
| MEE1015 | Total Qua | ality Management and Relia | ability | ТН | 3 | 0 | 0 | 0 | 3 |
| MEE1016 | Lean Ent | erprises and New Manufac | turing Technology | ТН | 3 | 0 | 0 | 0 | 3 |
| MEE1017 | New Ven | ture Planning and Manager | ment | ETP | 2 | 0 | 0 | 4 | 3 |
| MEE1018 | Facilities | and Process Planning | | ТН | 3 | 0 | 0 | 0 | 3 |
| MEE1024 | Operatio | ns Research | | ТН | 2 | 2 | 0 | 0 | 3 |
| MEE1027 | Instrume | ntation and Control Enginee | ring | ETL | 3 | 0 | 2 | 0 | 4 |
| | | mation and Control Enginee | anny | | Ŭ | | | | |



| Course Code | Course Title | Course Type | L | т | Р | J | С |
|-------------|---|-------------|---|---|---|---|---|
| MEE1045 | Mechatronics Systems Design | ETP | 3 | 0 | 0 | 4 | 4 |
| MEE2007 | CAD/CAM | ETL | 2 | 0 | 4 | 0 | 4 |
| MEE2008 | Product Design for Manufacturing | ETP | 2 | 0 | 0 | 4 | 3 |
| MEE2009 | Tribology | ТН | 2 | 2 | 0 | 0 | 3 |
| MEE2010 | Design of Composite Materials | ТН | 2 | 2 | 0 | 0 | 3 |
| MEE2011 | Welding Engineering | ETP | 2 | 0 | 0 | 4 | 3 |
| MEE2012 | Manufacturing Automation | ETL | 3 | 0 | 2 | 0 | 4 |
| MEE2013 | Modelling and Simulation of Manufacturing Systems | ETP | 3 | 0 | 0 | 4 | 4 |
| MEE2014 | Metal Casting Technology | ETP | 2 | 0 | 0 | 4 | 3 |
| MEE2015 | Non Destructive Testing | ETL | 3 | 0 | 2 | 0 | 4 |
| MEE2016 | Rapid Manufacturing Technologies | ETP | 2 | 0 | 0 | 4 | 3 |
| MEE2019 | Materials Characterization Techniques | ETP | 2 | 0 | 0 | 4 | 3 |
| MEE2020 | Metal Forming Theory and Practice | ТН | 3 | 0 | 0 | 0 | 3 |
| MEE2022 | Power Plant Engineering | ТН | 3 | 0 | 0 | 0 | 3 |
| MEE2023 | Gas Dynamics and Jet Propulsion | ТН | 2 | 2 | 0 | 0 | 3 |
| MEE2025 | Fluid Power Systems | ETL | 3 | 0 | 2 | 0 | 4 |
| MEE2026 | Turbo Machines | ETL | 2 | 2 | 2 | 0 | 4 |
| MEE2067 | Computational Multibody Dynamics | ETP | 3 | 0 | 0 | 4 | 4 |
| MEE3002 | Finite Element Analysis | ETL | 2 | 2 | 2 | 0 | 4 |
| MEE3003 | Engineering Failure Analysis | ETP | 3 | 0 | 0 | 4 | 4 |
| MEE3004 | Internal Combustion Engines | ТН | 3 | 0 | 0 | 0 | 3 |
| MEE3005 | Refrigeration and Airconditioning | ТН | 3 | 2 | 0 | 0 | 4 |
| MEE3006 | Automobile Engineering | ETL | 2 | 0 | 2 | 0 | 3 |
| MEE3008 | Mechanical Vibrations | ETL | 2 | 2 | 2 | 0 | 4 |
| MEE3010 | Robot Dynamics and Applications | ТН | 3 | 0 | 0 | 0 | 3 |
| MEE4001 | Tool Design | ETP | 3 | 0 | 0 | 4 | 4 |
| MEE4002 | Advanced Machining Processes | ETP | 2 | 0 | 0 | 4 | 3 |
| MEE4003 | Micro and Nano Machining | ТН | 3 | 0 | 0 | 0 | 3 |
| MEE4005 | Surface Engineering | ТН | 3 | 0 | 0 | 0 | 3 |
| MEE4006 | Computational Fluid Dynamics | ETL | 2 | 2 | 2 | 0 | 4 |
| MEE4007 | Design of Transmission Systems | ETP | 2 | 2 | 0 | 4 | 4 |
| Course Code | Course Title | Course Type | L | т | Р | J | с |
| | UNIVERSITY CO | | | | | | |
| 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 |



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|---|---|-------------|---|---|---|-----------|----|
| HUM1021 | Ethics and Values | ТН | 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 | СDВ | 0 | 0 | 0 | 0 | 2 |
| | | CDB | 0 | 0 | 0 | 0 | 2 |
| | to the Society - ECA | | | | | | |
| EXC1002 - Youth R | | | | | | | |
| EXC1002 - Red Cro | nyBody Can Dance - ECA | | | | | | |
| EXC1003 - ABCD-A | | | | | | | |
| | Entrepreneurship Competencies and Skills - ECA | | | | | | |
| | and Environmental Protection Club - ECA | | | | | | |
| | The Art of Culture - ECA | | | | | | |
| | or Healthy Life - ECA | | | | | | |
| EXC1008 - Instrume | entation for Engineers - ECA | | | | | | |
| EXC1009 - Debating | g Skills - ECA | | | | | | |
| EXC1010 - Mobility | Engineering- Land, Air and Sea - ECA | | | | | | |
| EXC1011 - Skills in | Competitive Coding - ECA | | | | | | |
| EXC1012 - Basics o | f Space Sciences - ECA | | | | | | |
| EXC1013 - Roadma | p to a Connected World - ECA | | | | | | |
| EXC1014 - Dramati | cs Club - ECA | | | | | | |
| EXC1014 - The Art | of Acting - ECA | | | | | | |
| EXC1016 - ASCE - | VIT Student Chapter - ECA | | | | | | |
| EXC1017 - Health C | Club - ECA | | | | | | |
| EXC1017 - Health a | nd Wellness - ECA | | | | | | |
| | itudent Chapter - ECA | | | | | | |
| | ics and Telecommunication for Skill Development - ECA | | | | | | |
| EXC1019 - The Fine | | | | | | | |
| | t and Craft Techniques - ECA | | | | | | |
| EXC1020 - Skills on | • | | | | | | |
| | er Society of India - ECA | | | | | | |
| EXC1021 - Comput | * | | | | | | |
| | erary Association - ECA | | | | | | |
| | ts and Literature - ECA | | | | | | |
| | asters International - VIT Chapter - ECA | | | | | | |
| EXC1027 - Power a Report On : $17-03-20^{\circ}$ | nd Energy for Societal Development - ECA | | | | | ne 3 of 6 | |



| Course Code Course Title | Course Type | L | ТР | J | С |
|---|-------------|---|----|---|---|
| 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 | | | | | |
| 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 | | | | | |



| Course Code | Course Title | Course Type | L | т | Р | J | с |
|------------------------|---|-------------|---|---|---|---|---|
| EXC1110 - Engineeri | ng for Industrial Applications - ECA | | | | | | |
| EXC1111 - TechEd - | ECA | | | | | | |
| EXC1114 - Communi | ication in Technology and Networking - ECA | | | | | | |
| EXC1120 - Creativity | | | | | | | |
| EXC1121 - Social En | trepreneurship - ECA | | | | | | |
| EXC1124 - Humanita | rian Service - ECA | | | | | | |
| EXC1127 - Debating | on Internal Issues - ECA | | | | | | |
| EXC1129 - Uddeshya | a - ECA | | | | | | |
| EXC1129 - Peer Edu | cator Training Programme - ECA | | | | | | |
| EXC1132 - The way | of Living - ECA | | | | | | |
| EXC1134 - Child Car | e and Education - ECA | | | | | | |
| EXC1135 - Kannada | Arts and Literature - ECA | | | | | | |
| EXC1157 - Trekking | Club - ECA | | | | | | |
| EXC4097 - Co/Extra | Curricular - ECA | | 1 | | T | 1 | |
| FLC4097 | Foreign Language Course Basket | CDB | 0 | 0 | 0 | 0 | 2 |
| ESP1001 - ESPANO | L FUNDAMENTAL - TH | | | | | | |
| ESP2001 - ESPANO | L INTERMEDIO - ETL | | | | | | |
| FRE1001 - Francais | quotidien - TH | | | | | | |
| FRE2001 - Francais | progressif - ETL | | | | | | |
| GER1001 - Grundstu | fe Deutsch - TH | | | | | | |
| GER2001 - Mittelstuf | e Deutsch - ETL | | | | | | |
| GRE1001 - Modern C | Greek - TH | | | | | | |
| JAP1001 - Japanese | for Beginners - TH | | | | | | |
| RUS1001 - Russian f | or Beginners - TH | | 1 | | T | 1 | |
| STS4097 | Soft Skills B.Tech. / B.Des. | CDB | 0 | 0 | 0 | 0 | 6 |
| STS1001 - Introduction | on to Soft Skills - SS | | | | | | |
| STS1002 - Introduction | on to Business Communication - SS | | | | | | |
| STS1101 - Fundame | ntals of Aptitude - SS | | | | | | |
| STS1102 - Arithmetic | Problem Solving - SS | | | | | | |
| STS1201 - Introduction | on to Problem Solving - SS | | | | | | |
| STS1202 - Introduction | on to Quantitative, Logical and Verbal Ability - SS | | | | | | |
| STS2001 - Reasonin | g Skill Enhancement - SS | | | | | | |
| STS2002 - Introduction | on to Etiquette - SS | | | | | | |
| STS2101 - Getting St | tarted to Skill Enhancement - SS | | | | | | |
| STS2102 - Enhancing | g Problem Solving Skills - SS | | | | | | |
| STS2201 - Numerica | Ability and Cognitive Intelligence - SS | | | | | | |
| STS2202 - Advanced | Aptitude and Reasoning Skills - SS | | | | | | |
| STS3001 - Prepared | ness for External Opportunities - SS | | | | | | |
| STS3004 - Data Stru | ctures and Algorithms - SS | | | | | | |
| STS3005 - Code Mith | nra - SS | | | | | | |
| STS3006 - Prepared | ness for External Opportunities - SS | | | | | | |
| STS3007 - Prepared | ness for Career Opportunities - SS | | | | | | |
| STS3101 - Introduction | on to Programming Skills - SS | | | | | | |



| Course Code | Course Title | Cours | e Type 🛛 L | т | Ρ | J | С |
|-------------------|---|-----------------|------------|---|---|---|---|
| STS3104 - Enhand | ing Programming Ability - SS | | | | | | |
| STS3105 - Compu | tational Thinking - SS | | | | | | |
| STS3201 - Progra | mming Skills for Employment - SS | | | | | | |
| STS3204 - JAVA F | Programming and Software Engineering Fu | ndamentals - SS | | | | | |
| STS3205 - Advanc | ed JAVA Programming - SS | | | | | | |
| STS3301 - JAVA f | or Beginners - SS | | | | | | |
| STS3401 - Founda | ation to Programming Skills - SS | | | | | | |
| STS5002 - Prepari | ng for Industry - SS | | | | | | |
| Course Code | Course Title | Cours | e Type 🛛 L | Т | Р | J | с |
| | | BRIDGE COURSE | | | | | |
| ENG1002 | Effective English | LO | 0 | 0 | 4 | 0 | 2 |
| ENG1702 | Effective English | LO | 0 | 0 | 4 | 0 | 2 |
| Course Code | Course Title | Cours | e Type L | т | Р | J | с |
| | N | N CREDIT COURSE | | | | | |