



| 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 |
|---------------------------|---|-------------|---|---|---|---|---|
| <b>PROGRAMME CORE</b>     |   |             |   |   |   |   |   |
| BIT1004                   | Cell Biology and Biochemistry                         | ETL         | 3 | 0 | 2 | 0 | 4 |
| BIT2001                   | Analytical Bioinformatics                             | ETL         | 3 | 0 | 2 | 0 | 4 |
| CSE1003                   | Digital Logic and Design                              | ETL         | 3 | 0 | 2 | 0 | 4 |
| CSE1005                   | Software Design and Development                       | ETLP        | 2 | 0 | 2 | 4 | 4 |
| CSE2001                   | Computer Architecture and Organization                | TH          | 3 | 0 | 0 | 0 | 3 |
| 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 |
| 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 |
| <b>PROGRAMME ELECTIVE</b> |   |             |   |   |   |   |   |
| BIT1031                   | System Biology  | TH          | 3 | 0 | 0 | 0 | 3 |
| BIT2002                   | Biological Database                                   | ETP         | 3 | 0 | 0 | 4 | 4 |
| BIT2003                   | Genomics and Proteomics                               | ETP         | 3 | 0 | 0 | 4 | 4 |
| BIT3001                   | Computational Biology                                 | ETP         | 3 | 0 | 0 | 4 | 4 |
| BIT3002                   | Molecular Modelling and Drug Design                   | ETP         | 3 | 0 | 0 | 4 | 4 |
| BIT3003                   | Molecular Evolution and Phylogeny                     | TH          | 3 | 0 | 0 | 0 | 3 |
| CSE1004                   | Network and Communication                             | ETL         | 3 | 0 | 2 | 0 | 4 |
| CSE1007                   | Java Programming                                      | ETL         | 3 | 0 | 2 | 0 | 4 |
| CSE2002                   | Theory of Computation and Compiler Design             | TH          | 4 | 0 | 0 | 0 | 4 |
| CSE3003                   | Micro Kernel OS                                       | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE3004                   | Storage Technologies                                  | ETLP        | 2 | 0 | 2 | 4 | 4 |
| CSE3005                   | Advanced Computer Architecture                        | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE3006                   | Embedded System Design                                | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE3007                   | Foundation Skills in Product Development              | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE3008                   | Integrated Digital Design                             | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE3009                   | Internet of Things                                    | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE3010                   | Real Time Systems                                     | ETP         | 3 | 0 | 0 | 4 | 4 |



| Course Code | Course Title                            | Course Type | L | T | P | J | C |
|-------------|---|-------------|---|---|---|---|---|
| CSE3011     | Robotics and its Applications           | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE3012     | Algorithms for Computational Biology    | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE3013     | Artificial Intelligence                 | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE3014     | Bio Inspired Computing                  | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE3015     | Business Intelligence                   | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE3016     | Computer Graphics and Multimedia        | ETLP        | 2 | 0 | 2 | 4 | 4 |
| CSE3017     | Computer Vision                         | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE3018     | Content Based Image and Video Retrieval | ETLP        | 2 | 0 | 2 | 4 | 4 |
| CSE3019     | Data Mining                             | 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 |
| CSE3022     | Soft Computing                          | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE3023     | Speech Technology                       | 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 |
| CSE3026     | E-Learning Technologies                 | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE3027     | Electronic and Mobile Commerce          | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE3028     | Functional Programming                  | ETLP        | 2 | 0 | 2 | 4 | 4 |
| CSE3029     | Game Programming                        | ETLP        | 2 | 0 | 2 | 4 | 4 |
| CSE3030     | Open Source Software                    | ETLP        | 2 | 0 | 2 | 4 | 4 |
| CSE3031     | Software Testing                        | ETLP        | 2 | 0 | 2 | 4 | 4 |
| CSE3032     | Software Project Management             | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE3033     | Web Security                            | ELP         | 0 | 0 | 2 | 4 | 4 |
| CSE3034     | Nature Inspired Computing               | ETP         | 2 | 0 | 0 | 4 | 3 |
| CSE4002     | Adhoc Wireless Networks                 | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE4003     | Cyber Security                          | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE4004     | Digital Forensics                       | ETL         | 3 | 0 | 2 | 0 | 4 |
| CSE4005     | Green and Energy aware Computing        | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE4006     | Haptic Technology                       | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE4007     | Mobile Computing                        | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE4008     | Mobile Pervasive Computing              | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE4009     | Network Management System               | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE4010     | Parallel Algorithms                     | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE4011     | Virtualization                          | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE4012     | Digital Signal Processing               | ETP         | 3 | 0 | 0 | 4 | 4 |
| CSE4013     | Embedded Programming                    | ETLP        | 2 | 0 | 2 | 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  |
|---------------------------------------|--|-------------|---|---|---|---|----|
| CSE4016                               | Multi-Core Architecture and Operating System     | ETP         | 3 | 0 | 0 | 4 | 4  |
| CSE4017                               | Software Hardware Co-Design                      | ETP         | 3 | 0 | 0 | 4 | 4  |
| CSE4018                               | Advanced Analytics                               | ETLP        | 2 | 0 | 2 | 4 | 4  |
| CSE4019                               | Image Processing                                 | ETP         | 3 | 0 | 0 | 4 | 4  |
| CSE4020                               | Machine Learning                                 | ETLP        | 2 | 0 | 2 | 4 | 4  |
| CSE4021                               | Modelling and Simulation                         | ETP         | 3 | 0 | 0 | 4 | 4  |
| CSE4022                               | Natural Language Processing                      | ETP         | 3 | 0 | 0 | 4 | 4  |
| CSE4023                               | Pattern Recognition                              | ETP         | 3 | 0 | 0 | 4 | 4  |
| CSE4024                               | Advanced Java Programming                        | ETLP        | 2 | 0 | 2 | 4 | 4  |
| CSE4025                               | Design Patterns                                  | ETP         | 3 | 0 | 0 | 4 | 4  |
| CSE4026                               | Intelligent Tutoring Systems                     | 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  |
| CSE4029                               | Quantum Computing                                | ETP         | 3 | 0 | 0 | 4 | 4  |
| CSE4030                               | Abstraction and its Applications                 | ETP         | 3 | 0 | 0 | 4 | 4  |
| CSE4031                               | Game Theory                                      | ETP         | 3 | 0 | 0 | 4 | 4  |
| CSE4032                               | Search Technologies                              | ETP         | 3 | 0 | 0 | 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  |
| CBY4097                               | Chemistry / Biology - 2017 onwards               | CRB         | 0 | 0 | 0 | 0 | 4  |
| BIT1003 - Biology for Engineers - ETL |  |             |   |   |   |   |    |
| CHY1701 - Engineering Chemistry - ETL |  |             |   |   |   |   |    |
| 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                         |                                |             |   |   |   |   |   |
| Course Code   | Course Title                   | Course Type | L | T | P | J | C |
| <b>BRIDGE COURSE</b>  |                                |             |   |   |   |   |   |
| BIT1001   | Introduction to Life Sciences  | TH          | 4 | 0 | 0 | 0 | 4 |
| 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 |
|--------------------------|-----------------------------|-------------|---|---|---|---|---|
| MAT1001                  | Fundamentals of Mathematics | TH          | 3 | 2 | 0 | 0 | 4 |
| Course Code              | Course Title                | Course Type | L | T | P | J | C |
| <b>NON CREDIT COURSE</b> |                             |             |   |   |   |   |   |