FACULTY OF ENGINEERING AND SCIENCE

Units Offered – Semesters 1 & 2, 2025

(Undergraduate Programme)

(Rev.04 – changes are highlighted in vellow and/or refer to last page for revision note)

Date: Wednesday, January 22, 2025

| UNIT CODE | UNIT TITLE | SEM 1, 2025 | SEM 2, 2025 | REMARKS |
|----------------------|--|-------------------------|-------------|--|
| | | ENGINEERING FIRS | | |
| MATH1019 | Linear Algebra and Statistics for Engineers | | √ V | |
| INDE1001 | Engineering Foundations: Principles, | V | V | |
| | Design and Communication | | | |
| ELEN1000 | Electrical Systems | V | V | |
| MCEN1000 | Engineering Mechanics | V | V | |
| MATH1020 | Calculus for Engineers | V | V | |
| PRRE1003 | Resources, Processes and Materials Engineering | V | V | |
| COMP1005 | Fundamentals of Programming | V | V | |
| ELEN1002 | Sustainability and Renewable Energy | √ | V | Optional Unit |
| GEOL1007 | Planetary Science | | V | Optional Unit; Applies to |
| CHEM1000 | Principles and Processes in Chemistry | V | V | students enrolled in |
| CMPE1000 | Hardware Fundamentals | 7 | | Semester 2, 2024 onwards |
| ISAD1000 GEOL1008 | Introduction to Software Engineering Dynamic Earth | \ √ | | - |
| SPAT1007 | Fundamentals of Geographic Information Systems | V | | _ |
| BLDG1004 | Introduction to Management in Construction | √ | | |
| | DEPARTMENT: CHEMI | CAL AND ENERGY | ENGINEERING | |
| | HEAD OF DEPARTMENT: PR | | | |
| PROGRAMME: CH | EMICAL ENGINEERING | | | |
| CHEN2002 | Process Heat Transfer | √ | | |
| CHEM1000 | Principles and Processes in Chemistry | V | V | |
| CHEN2000 | Mass and Energy Balances | √ | V | |
| ENGR2000 | Fluid Mechanics | V | | Common Engineering Unit |
| CHEN3010 | Reaction Engineering | √ √ | | |
| CHEN3003 | Process Synthesis and Design | \ \ \ | | |
| CHEN3009 | Fluid and Particle Processes | 2/ | | |
| | | V | | |
| ENGR4000 | Engineering Industry Research Project 1 | N I | N I | |
| ENGR4001 | Engineering Industry Research Project 2 | N . | V | |
| CHEN4001 | Process Safety and Risk Management | V | | |
| CHEN4012 | Advanced Unit Operations | $\sqrt{}$ | | |
| CHEN2001 | Thermodynamics | | $\sqrt{}$ | |
| CHEM1002 | Reactivity and Function in Chemistry | √ | | |
| CHEN2003 | Process Mass Transfer | | $\sqrt{}$ | |
| CHEN2004 | Process Simulation and Data Analytics | | V | |
| CHEN3001 | Computational Transport Phenomena | V | V | |
| CHEN4016 | Engineering Economics, Management and Sustainability | | V | |
| CHEN3005 | Process Instrumentation and Control | | V | |
| CHEN4015 | Chemical Engineering Design Project | | V | |
| | ts Year 3 (please refer to Course Structure for | list of specialisations | offered): | |
| CHEN4020 | Carbon Management | \ | | SPUE-TRENT Transitional |
| 3112144020 | Car Don Management | , | | Energy Technologies Specialisation |
| CHEN4017 | Bioprocess Engineering | | √ | SPUE-TRENT Transitional Energy Technologies Specialisation |
| CHEN3013 | Sustainable Palm Oil Processing and Production | | $\sqrt{}$ | SPUE-ADMPR Advanced Materials and Processing Specialisation |

| UNIT CODE | UNIT TITLE | SEM 1, 2025 | SEM 2, 2025 | REMARKS |
|--|---|---|------------------|--|
| ENEN2001 | Solid and Hazardous Waste Management | | V | SPUE-WAWMG Water, Air and Waste Management |
| | | | | Specialisation |
| Specialisation Uni | ts Year 4 (please refer to Course Structure for | list of specialisations | offered): | |
| CHEN4019 | Electrochemical Storage and Conversion | | √ | SPUE-TRENT Transitional |
| | | | | Energy Technologies |
| | | | | Specialisation |
| CHEN4010 | Advanced Thermodynamics and Reactor | | $\sqrt{}$ | SPUE-ADMPR Advanced |
| | Engineering | | | Materials and Processing |
| | | | | Specialisation |
| CHEN4020 | Carbon Management | V | | SPUE-WAWMG Water, Air |
| | | | | and Waste Management Specialisation |
| ENEN3000 | Aerial Emissions and Abatement | | <u>√</u> | SPUE-WAWMG Water, Air |
| LINLINGOOD | Aeriai Linissions and Abatement | | v | and Waste Management |
| | | | | Specialisation |
| PROGRAMME: EN | IERGY ENGINEERING | | | Specialisation |
| | | 1 \ | | Shared unit with Chemical |
| CHEN2000 | Mass and Energy Balances | , | | Engineering |
| 0.12.12.000 | Wilder and Elife By Bulliness | V | | Shared unit with Electrical |
| ELEN2000 | Electrical Circuits | · | | and Electronic Engineering |
| | | V | | Shared unit with Chemical |
| CHEN2002 | Process Heat Transfer | | | Engineering |
| ENGR2000 | Fluid Mechanics | | | Common Engineering Unit |
| ENGR2002 | Introduction to Energy Engineering | | V | |
| LIVONZOOZ | mitroduction to Energy Engineering | | V | Shared unit with Chemical |
| CHEN2001 | Thermodynamics | | · | Engineering |
| ENGR2003 | Sustainable Energy Systems Engineering | | V | |
| MCEN2007 | Mechanics for Energy Engineering | | V | |
| | TROLEUM ENGINEERING | | · | |
| | | | | |
| PEEN3000 | Formation Evaluation | N | V | |
| PEEN3001 | Fundamentals of Reservoir Engineering | V | | |
| PEEN3008 | Advanced Reservoir Engineering | | V | |
| PEEN3002 | Petroleum Production Technology | | √ | |
| PEEN3005 | Petroleum Geology and Geophysics | $\sqrt{}$ | | |
| PEEN4003 | Advanced Drilling Engineering | | | |
| PEEN4004 | Numerical Reservoir Simulation | V | | |
| PEEN4011 | Petroleum Field Development Planning | | √ | |
| | DEPARTMENT: CIVIL AN | ID CONSTRUCTION | LENGINEEDING | |
| | | | | ON. |
| DD 0 CD 4 4 4 4 5 CU | HEAD OF DEPARTMENT: ASSOC | LIATE PROF. IR. DR | WONG KWONG SO | ON |
| | VIL AND CONSTRUCTION ENGINEERING | | I | |
| CSEN2000 | Civil Engineering Construction Materials | V | | |
| ENGR2000 | Fluid Mechanics | V | | Common Engineering Unit |
| CVEN2000 | Civil Engineering Drawing and Surveying | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | |
| STEN2005 | Structural Analysis of Determinate Structures | V | | |
| TREN3001 | Transportation Engineering and | V | | |
| INLINGOU | Earthworks | , | | |
| GEOT3002 | Geotechnical Engineering Analysis | V | | |
| CVEN4003 | Civil and Construction Engineering | V | V | |
| | Research Project 1 | | | |
| CVEN4004 | Civil and Construction Engineering | V | V | |
| | Research Project 2 | | | |
| CSEN3002 | Structural Actions and Steel Design | √ — — — — — — — — — — — — — — — — — — — | | |
| CSEN4003 | Civil Engineering Practices, Quality and | $\sqrt{}$ | | |
| | Legislation | | | |
| | Integrated Structural Design | V | | |
| STEN4003 | | $\sqrt{}$ | | |
| GEOT4002 | Geotechnical Design and Modelling | 1 | | |
| GEOT4002 STEN4004 | Advanced Structural Modelling | √ | | |
| GEOT4002 | Advanced Structural Modelling Structural Analysis of Indeterminate | V | V | |
| GEOT4002 STEN4004 STEN2006 | Advanced Structural Modelling Structural Analysis of Indeterminate Structures | √ | V | |
| GEOT4002 STEN4004 STEN2006 CVEN2001 | Advanced Structural Modelling Structural Analysis of Indeterminate Structures Water and Environmental Resources | √ | \ \ \ \ | |
| GEOT4002 STEN4004 STEN2006 | Advanced Structural Modelling Structural Analysis of Indeterminate Structures | √ | √ √ √ | |

| UNIT CODE | UNIT TITLE | SEM 1, 2025 | SEM 2, 2025 | REMARKS |
|----------------------|---|-------------------------|-------------|---|
| CSEN3000 | Civil Engineering Project and Cost Management | | V | |
| CVEN3002 | Hydraulics and Hydrology | | V | |
| CSEN3003 | Reinforced Concrete Design | | V | |
| CSEN4002 | Integrated Design and Construction | | \ \ \ \ \ | |
| TREN4002 | Traffic and Road Pavement Engineering | | 7 | |
| | | | N A | |
| STEN4005 | Advanced Concrete Design and Construction | 1 | <u> </u> | |
| BLDG2013 | Construction Plant and Equipment | list of specialisations | offered): | SPUE-CONEN Construction Engineering Specialisation; SPUE-INFST Infrastructure Specialisation |
| TREN4002 | Traffic and Road Pavement Engineering | | V | SPUE-CONEN Construction Engineering Specialisation |
| STEN3003 | Advanced Structural Analysis | V | | SPUE-STENG Structural Engineering Specialisation; SPUE-INFST Infrastructure Specialisation |
| STEN4006 | Structural Dynamics | | V | SPUE-STENG Structural Engineering Specialisation; SPUE-INFST Infrastructure Specialisation |
| ENEN3009 | Water and Environmental Engineering | | V | SPUE-INFST Infrastructure Specialisation |
| STEN4005 | Advanced Concrete Design and Construction | | V | SPUE-INFST Infrastructure Specialisation |
| ENEN4014 | Sustainable Urban Management and Planning | | V | SPUC-SUENV Sustainable Environment Specialisation |
| CHEN2000 | Mass and Energy Balances | V | | SPUC-PROEN Process Engineering Specialisation (Specialisation offered by Department Chemical and Energy Engineering) |
| CHEN2004 | Process Simulation and Data Analytics | | V | SPUC-PROEN Process Engineering Specialisation (Specialisation offered by Department Chemical and Energy Engineering) |
| MXEN2003 | Microcontroller Project | V | | SPUC-ROBAU Robot Automation Specialisation (Specialisation offered by Mechanical Engineering) |
| MXEN3000 | Mechatronics Design Project | | V | SPUC-ROBAU Robot Automation Specialisation (Specialisation offered by Mechanical Engineering) |
| MCEN2003 | Machine Dynamics | V | | SPUC-MEDVB Mechanical Dynamics and Vibration Specialisation (Specialisation offered by Department Mechanical and Mechatronic Engineering) |
| MCEN2002 | Fundamentals of Mechanical Design | | V | SPUC-MEDVB Mechanical Dynamics and Vibration Specialisation (Specialisation offered by Department Mechanical and Mechatronic |
| | VIRONMENTAL ENGINEERING | | | Engineering) |
| ENGR2000 | Fluid Mechanics | 1 | | Common Engineering Unit |
| ENGR2000 ENEN2004 | | 2 | | Common Engineering Unit |
| EINEINZUU4 | Water Resource Management and Treatment Principles | V | | |
| ENEN2002 | Energy Management and Climate Change | 2 | | |
| ENST2005 | Environmental Chemistry and Microbiology | V | | |
| ENEN2003 | Wastewater Treatment Principles and Design | | V | |
| ENST2006 | Environmental Monitoring and Analysis | | V | |
| ENEN2001 | Solid and Hazardous Waste Management | | 2 | |
| GEOT2000 | Principles of Geomechanics | | V | Shared unit with Civil and Construction Engineering |
| ENST3000 | Environmental Impact Assessment | V | | Students should complete 250 credits or equivalent |

| UNIT CODE | UNIT TITLE | SEM 1, 2025 | SEM 2, 2025 | REMARKS |
|--------------------|--|-------------------------|-------------|--|
| | | | | prior to enrolling into this unit |
| MGMT3000 | Engineering Management and Professional Practice | | V | Shared unit with Electrical and Computer Engineering |
| ENEN3000 | Aerial Emissions and Abatement | | $\sqrt{}$ | |
| CVEN3002 | Hydraulics and Hydrology | | V | Shared unit with Civil and Construction Engineering |
| ENEN4009 | Environmental Engineering Design | $\sqrt{}$ | | |
| ENEN4006 | Environmental Engineering Research Project 1 | V | V | |
| ENEN4007 | Environmental Engineering Research Project 2 | V | V | |
| ENEN4004 | Geoenvironmental Engineering | | V | |
| ENEN4003 | Environmental Integrated Design Project | | V | |
| ENEN4008 | Environmental Considerations in Construction | V | | |
| Specialisation Uni | ts Year 3 (please refer to Course Structure for | list of specialisations | offered): | |
| ENEN4014 | Sustainable Urban Management and Planning | | √ √ | SPUC-SUENV Sustainable Environment Specialisation |
| CHEN2000 | Mass and Energy Balances | V | | SPUC-PROEN Process Engineering Specialisation (Specialisation offered by Department |
| | | | | Chemical and Energy Engineering) |
| CHEN2004 | Process Simulation and Data Analytics | | V | SPUC-PROEN Process Engineering Specialisation (Specialisation offered by Department Chemical and Energy Engineering) |
| MXEN2003 | Microcontroller Project | V | | SPUC-ROBAU Robot Automation Specialisation (Specialisation offered by Mechanical Engineering) |
| MXEN3000 | Mechatronics Design Project | | V | SPUC-ROBAU Robot Automation Specialisation (Specialisation offered by Mechanical Engineering) |
| CSEN2000 | Civil Engineering Construction Materials | V | | SPUC-CIVEN Civil Engineering Specialisation |
| STEN2005 | Structural Analysis of Determinate Structures | | V | SPUC-CIVEN Civil Engineering Specialisation |
| STEN2004 | Structural Mechanics | | V | SPUC-CIVEN Civil Engineering Specialisation |
| COMP1002 | Data Structures and Algorithms | V | | SPUC-AIMLN Artificial Intelligence and Machine Learning Specialisation (Specialisation offered by Electrical and Computer Engineering) |
| ISYS2014 | Database Systems | | V | SPUC-AIMLN Artificial Intelligence and Machine Learning Specialisation (Specialisation offered by Electrical and Computer Engineering) |
| • | ts Year 4 (please refer to Course Structure for | list of specialisations | offered): | T |
| CHEN4020 | Carbon Management | V | | SPUC-SUENV Sustainable Environment Specialisation |
| ENEN4013 | Environmental, Social and Governance | | V | SPUC-SUENV Sustainable Environment Specialisation |
| CHEN3009 | Fluid and Particle Processes | V | | SPUC-PROEN Process Engineering Specialisation (Specialisation offered by Department Chemical and Energy Engineering) |
| CHEN4001 | Process Safety and Risk Management | | V | SPUC-PROEN Process Engineering Specialisation (Specialisation offered by Department Chemical and Energy Engineering) |
| TREN3001 | Transportation Engineering and Earthworks | V | | SPUC-CIVEN Civil Engineering Specialisation |
| CSEN3000 | Civil Engineering Project and Cost Management | | V | SPUC-CIVEN Civil Engineering Specialisation |
| COMP3010 | Machine Learning | V | | SPUC-AIMLN Artificial Intelligence and Machine Learning Specialisation |

| UNIT CODE | UNIT TITLE | SEM 1, 2025 | SEM 2, 2025 | REMARKS |
|----------------------|---|-------------------|-------------|---|
| COMP3009 | Data Mining | | V | (Specialisation offered by Electrical and Computer Engineering) SPUC-AIMLN Artificial Intelligence and Machine Learning Specialisation (Specialisation offered by Electrical and Computer Engineering) |
| | DEPARTMENT: ELECTRIC | | | |
| DDOCDANANE, DAA | HEAD OF DEPART CHELOR OF TECHNOLOGY (COMPUTER SYSTE) | TMENT: MR. TEREI | | |
| CMPE1000 | Hardware Fundamentals | VIS AND NETWORKIN | | |
| COMP1007 | Programming Design and Implementation | √ √ | \ \ | |
| MATH1019 | Linear Algebra and Statistics for Engineers | V | √ √ | Shared Unit with Engineering First Year |
| INDE1001 | Engineering Foundations: Principles, Design and Communication | V | V | Shared Unit with Engineering First Year |
| CMPE2000 | Data Communications and Network Management | V | | |
| ELEN2002 | Transmission and Interface Design | $\sqrt{}$ | | |
| ISEC2000 | Fundamental Concepts of Cryptography | $\sqrt{}$ | | Optional Unit |
| ISEC2001 | Fundamental Concepts of Data Security | | | Optional Unit / Elective Unit |
| COMP3001 | Design and Analysis of Algorithms | | | Optional Unit |
| ICTE3002 | Human Computer Interface | √ | | Optional Unit |
| ISAD1000 | Introduction to Software Engineering | √ | | Optional Unit |
| COMP2003 | Object Oriented Software Engineering | √ | | Elective Unit |
| CMPE3002 | Computer Technology Project 1 | V | V | |
| CMPE3003 | Computer Technology Project 2 | V | √ | |
| COMP2006 | Operating Systems | V | | |
| CNCO3000 | Distributed Networks | V | | |
| COMT3002 | Internet of Things Design and Communications | V | | |
| COMP1002 | Data Structures and Algorithms | | | |
| COMP2000 | Computer Systems | | | |
| ETEN1000 | Electronics | | V | |
| ISYS2014 | Database Systems | | | |
| COMP1000 | Unix and C Programming | | $\sqrt{}$ | |
| CMPE2003 | Microcomputers | | V | |
| MGMT3000 | Engineering Management and Professional Practice | | V | |
| CMPE3001 | Embedded Systems Engineering | | V | |
| CMPE3004 | Network Engineering | | V | 0 1 |
| ISEC3004 | Cyber Crime and Security Enhanced Programming | | V | Optional Unit |
| ISEC3005 | Cyber Security – Intrusion Detection | | $\sqrt{}$ | Optional Unit |
| | System and Incident Handling | | | |
| COMP2008 | Mobile Application Development | | V | Optional Unit |
| CMPE2002 | Requirements Engineering | | V | Elective Unit |
| ISEC1000 | Cyber Security Concepts | | V | Elective Unit |
| | CTRICAL AND ELECTRONIC ENGINEERING | | | |
| ELEN2000 | Electrical Circuits | V .1 | | |
| MATH2009 ETEN2001 | Calculus 2 Electronic Fundamentals | V | | |
| | | N al | | |
| CMPE2001 MXEN3004 | Foundations of Digital Design Dynamic Modelling and Control | N 2/ | | |
| ETEN3003 | Power Electronics | V V | | |
| ELEN3003 | Fundamentals of Engineering | ٧ | V | |
| LLL143002 | Electromagnetics | | Y | |
| EEET4000 | Engineering Research Project 1 | V | √ | |
| EEET4002 | Integrated Design Project | V | | |
| ETEN4001 | Industrial Automated Systems | V | | |
| EEET4001 | Engineering Research Project 2 | $\sqrt{}$ | V | |
| ELEN4006 | Smart and Micro Grids | $\sqrt{}$ | | From the old course |
| | | | | structure. Still offered in 2025 S1 (handbook) |
| ELEN4001 | Electric Power Generation, Transmission and Distribution | | V | From the old course structure. Still offered in 2025 S2 (handbook) |

| UNIT CODE | UNIT TITLE | SEM 1, 2025 | SEM 2, 2025 | REMARKS |
|---------------------|--|-------------------------|--------------------|--|
| MGMT3000 | Engineering Management and Professional Practice | | V | |
| ETEN2000 | Signals and Systems | | V | |
| ELEN3004 | Renewable Energy Principles | | V | |
| CMPE2003 | Microcomputers | | V | |
| ELEN2005 | Electrical Machines | | V | |
| COMT3000 | Communications Engineering | | $\sqrt{}$ | |
| ELEN4007 | Electrical Machines Drives and Control | | \ \ \ | |
| ELEN3001 | Power System Analysis | | N N | |
| | ts Year 3 (please refer to Course Structure for I | list of specialisations | offered): | |
| ISEC2001 | Fundamental Concepts of Data Security | √ √ | ojjereuj. | SPUC-CYBSE Cybersecurity Specialisation |
| ISEC1000 | Cyber Security Concepts | | V | SPUC-CYBSE Cybersecurity Specialisation |
| ENEN4014 | Sustainable Urban Management and Planning | | 1 | SPUC-SUENV Sustainable Environment Specialisation (Specialisation offered by Environmental Engineering) |
| ENGR2000 | Fluid Mechanics | V | | SPUC-MESYS Mechanical Systems Specialisation (Specialisation offered by Mechanical and Mechatronic Engineering) |
| MCEN2001 | Fundamentals of Thermodynamics | | V | SPUC-MESYS Mechanical Systems Specialisation (Specialisation offered by Mechanical and Mechatronic Engineering) |
| COMP1002 | Data Structures and Algorithms | V | | SPUC-AIMLN Artificial Intelligence and Machine Learning Specialisation |
| ISYS2014 | Database Systems | | V | SPUC-AIMLN Artificial Intelligence and Machine Learning Specialisation |
| Specialisation Unit | ts Year 4 (please refer to Course Structure for l | list of specialisations | offered): | |
| CHEN4020 | Carbon Management | √ | | SPUC-SUENV Sustainable Environment Specialisation (Specialisation offered by Environmental Engineering) |
| ENEN4013 | Environmental, Social and Governance | | V | SPUC-SUENV Sustainable Environment Specialisation (Specialisation offered by Environmental Engineering) |
| COMT3002 | Internet of Things Design and Communications | V | | SPUC-CYBSE Cybersecurity Specialisation |
| ISEC3005 | Cyber Security- Intrusion Detection System and Incident Handling | | V | SPUC-CYBSE Cybersecurity Specialisation |
| ISEC3002 | Penetration Testing and Defence | | V | SPUC-CYBSE Cybersecurity Specialisation |
| MCEN3002 | Applied Fluid Mechanics | | V | SPUC-MESYS Mechanical Systems Specialisation (Specialisation offered by Mechanical and Mechatronic Engineering) |
| COMP3010 | Machine Learning | V | | SPUC-AIMLN Artificial Intelligence and Machine Learning Specialisation |
| COMP3009 | Data Mining | | V | SPUC-AIMLN Artificial Intelligence and Machine Learning Specialisation |
| | CHELOR OF COMPUTING – SOFTWARE ENGIN | EERING MAJOR | | |
| COMP1007 | Programming Design and Implementation | V | V | |
| ISAD1000 | Introduction to Software Engineering | V | | |
| ISEC2001 | Fundamental Concepts of Data Security | $\sqrt{}$ | | |
| NPSC1003 | Integrating Indigenous Science and STEM | $\sqrt{}$ | | |
| CNCO2000 | Computer Communications | V | V | |
| COMP2003 | Object Oriented Software Engineering | | | |
| COMP2006 | Operating Systems | V | | |
| CMPE3008 | Software Engineering Testing | V | | |
| ISAD3000 | Capstone Computing Project 1 | V | V | |
| ICTE3002 | Human Computer Interface | | | |
| COMP3001 | Design and Analysis of Algorithms | V | | |
| EIT301 | Engineering Industrial Training | Year 2 Summer S | emester (December) | |
| | <u> </u> | J C | (= 300 | |

| UNIT CODE | UNIT TITLE | SEM 1, 2025 | SEM 2, 2025 | REMARKS |
|--------------------------------|---|----------------------|-------------------|--|
| ISEC2000 | Fundamental Concepts of Cryptography | $\sqrt{}$ | | Elective Unit Y3 S1 (Normal |
| | | | | Intake); Y3 S2 (Mid-Year) |
| COMP3010 | Machine Learning | \checkmark | | Elective Unit Y3 S1 (Normal |
| | | | | Intake); Y3 S2 (Mid-Year) |
| CNCO3003 | Mobile Cloud Computing | \checkmark | | Elective Unit Y3 S1 (Normal |
| | | I | | Intake); Y3 S2 (Mid-Year) |
| COMP2002 | Unix Systems Programming | V | | Elective Unit Y3 S1 (Normal |
| 001454000 | | 1 | | Intake); Y3 S2 (Mid-Year) |
| COMP1000 | Unix and C Programming | N | N | |
| COMP1002 | Data Structures and Algorithms | V | N I | |
| ISYS2014 | Database Systems | .1 | N | 61 111 11 111 |
| MATH1019 | Linear Algebra and Statistics for Engineers | V | V | Shared Unit with |
| CMPE2002 | Descriptions and Fracing spring | | | Engineering First Year |
| | Requirements Engineering | | \ \ \ | |
| COMP3008 | Distributed Computing | | V | |
| COMP2008 | Mobile Application Development | | V | |
| ISEC3004 | Cyber Crime and Security Enhanced | | V | |
| 10150001 | Programming | .1 | .1 | |
| ISAD3001 | Capstone Computing Project 2 | V | N I | |
| COMP3003 | Software Architecture and Extensible | | V | |
| | Design | | 1 | |
| COMP1006 | Foundations of Computer Science | | V | Compulsory Elective |
| COMP2005 | Computing Topics | | V | Elective Unit Y3 S2 (Normal |
| | | | | Intake) |
| COMP2000 | Computer Systems | | $\sqrt{}$ | Elective Unit Y3 S2 (Normal |
| | | | | Intake); Y1 S1 (Compulsory |
| | | | | Elective: Mid-Year) |
| ISEC1000 | Cyber Security Concepts | | $\sqrt{}$ | Elective Unit Y3 S2 (Normal |
| | | | | Intake) |
| ISEC3005 | Cyber Security- Intrusion Detection System | | V | Elective Unit Y3 S2 (Normal |
| | and Incident Handling | | | Intake) |
| PROGRAMME: BA | CHELOR OF COMPUTING – CYBER SECURITY M | 1AJOR | | |
| COMP1007 | Programming Design and Implementation | $\sqrt{}$ | | |
| ISAD1000 | Introduction to Software Engineering | | | |
| ISEC2001 | Fundamental Concepts of Data Security | | | |
| NPSC1003 | Integrating Indigenous Science and STEM | | | |
| CNCO2000 | Computer Communications | | V | |
| COMP2006 | Operating Systems | | | |
| COMP2002 | Unix Systems Programming | | | |
| ISEC2000 | Fundamental Concepts of Cryptography | | | |
| CNCO3003 | Mobile Cloud Computing | $\sqrt{}$ | | |
| COMP3010 | Machine Learning | $\frac{1}{\sqrt{1}}$ | | |
| ISAD3000 | Capstone Computing Project 1 | <u> </u> | \ \ | |
| ISAD3001 | Capstone Computing Project 2 | <u> </u> | 1 | |
| COMP1000 | | | 2/ | |
| | Unix and C Programming | | N A | |
| COMP1002 | Data Structures and Algorithms | | V | Chanad Hait with |
| MATH1019 | Linear Algebra and Statistics for Engineers | V | V | Shared Unit with |
| 10504000 | Cubon Soounita Company | | .1 | Engineering First Year |
| ISEC1000 | Cyber Security Concepts | | V | |
| COMP2005 | Computing Topics | | V | |
| ISYS2014 | Database Systems | | V | |
| ISEC3004 | Cyber Crime and Security Enhanced | | V | |
| | Programming | | 1 | |
| ISEC3002 | Penetration Testing and Defence | | V | |
| | Cyber Security- Intrusion Detection System | | V | |
| ISEC3005 | | | | |
| | and Incident Handling | | C | |
| EIT301 | Engineering Industrial Training | Year 2 Sum | imer Semester | |
| | | Year 2 Sum | mer Semester √ | Elective Y2 S1 (Mid-Year); |
| EIT301 | Engineering Industrial Training | Year 2 Sum | mer semester √ | Elective Y3 S2, Y2 S2 |
| EIT301 | Engineering Industrial Training | Year 2 Sum | nmer Semester | · · · · · · · · · · · · · · · · · · · |
| EIT301 | Engineering Industrial Training | Year 2 Sum | √ √ | Elective Y3 S2, Y2 S2 (Normal Intake) Elective Y3 S2, Y2 S2 |
| EIT301 COMP2000 COMP3003 | Engineering Industrial Training Computer Systems Software Architecture and Extensible Design | | √ | Elective Y3 S2, Y2 S2 (Normal Intake) Elective Y3 S2, Y2 S2 (Normal Intake) |
| EIT301 COMP2000 | Engineering Industrial Training Computer Systems Software Architecture and Extensible | Year 2 Sum | √ | Elective Y3 S2, Y2 S2 (Normal Intake) Elective Y3 S2, Y2 S2 (Normal Intake) Elective Y3 S1 (Normal |
| EIT301 COMP2000 COMP3003 | Engineering Industrial Training Computer Systems Software Architecture and Extensible Design | | √ | Elective Y3 S2, Y2 S2 (Normal Intake) Elective Y3 S2, Y2 S2 (Normal Intake) |
| EIT301 COMP2000 COMP3003 | Engineering Industrial Training Computer Systems Software Architecture and Extensible Design | | √ | Elective Y3 S2, Y2 S2 (Normal Intake) Elective Y3 S2, Y2 S2 (Normal Intake) Elective Y3 S1 (Normal |

| UNIT CODE | UNIT TITLE | SEM 1, 2025 | SEM 2, 2025 | REMARKS |
|----------------------|--|-------------------------|---------------------------------------|---|
| CMPE2002 | Requirements Engineering | | V | Elective Y2 S1 (Mid-Year) / Y2 S2; Y3 S2 (Normal Intake) |
| CMPE3008 | Software Engineering Testing | V | | Elective Y3 S1 (Normal Intake) |
| COMP2008 | Mobile Application Development | | V | Elective Y2 S1 (Mid-Year) / Y2 S2; Y3 S2 (Normal Intake) |
| COMP2003 | Object Oriented Software Engineering | √ | | Elective Y3 S1 (Normal Intake) |
| | DEPARTMENT: MECHANICA | | | |
| | HEAD OF DEPARTMENT: ASSO | CIATE PROF. DR M | OOLA MOHAN REDD | Y |
| | ECHANICAL ENGINEERING | | | |
| ENGR2000 | Fluid Mechanics | V | | Common Engineering Unit |
| MCEN2000 | Fundamentals of Strength of Materials | V | | |
| MCEN2003 | Machine Dynamics | V | | |
| MCEN2006 | Computer Aided Drawing and Engineering Modelling | V | | |
| ENGR2001 | Ethics and Sustainability in Engineering | | | |
| MCEN2004 | Manufacturing Processes | | | |
| MCEN2002 | Fundamentals of Mechanical Design | | | |
| MCEN2001 | Fundamentals of Thermodynamics | | V | |
| MCEN3004 | Advanced Strength of Materials | √ | | |
| MCEN3008 | Fundamentals of Heat Transfer | V | | |
| MCEN3009 | Linear Systems and Vibrations | √ √ | | |
| MCEN3003 | Applied Fluid Mechanics | ¥ | N N | |
| MCEN3002 MCEN3001 | Machine Design | | 1 2 | |
| | | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | |
| MCEN3007 | Exposure to Professional Engineering Practice | | ٧ | |
| MCEN4015 | Integrated Mechanical Design | V | | |
| MCEN4005 | Mechanical Engineering Research Project 1 | √ | , | |
| MCEN4006 | Mechanical Engineering Research Project 2 | | V | |
| For final year stud | lents only | | | |
| MCEN4005 | Mechanical Engineering Research Project 1 | $\sqrt{}$ | $\sqrt{}$ | |
| MCEN4006 | Mechanical Engineering Research Project 2 | $\sqrt{}$ | | |
| MCEN4015 | Integrated Mechanical Design | | | |
| MCEN4002 | Materials Engineering | V | | (Elective 1, Year 4 Semester 1) |
| MCEN4004 | Heat Transfer | V | | (Elective 2, Year 4 Semester 1) |
| MCEN4011 | Engineering Design Methodology | V | | (Elective 3, Year 4 Semester 1) |
| MCEN4010 | Professional Engineering Practice | | V | |
| BLAW2000 | Law for Engineers | | V | For any Mechanical students who are yet to |
| NACENIA004 | Industrial Fluid Machania | | V | take this unit (Elective 1 – Year 4, |
| MCEN4001 | Industrial Fluid Mechanics | | | Semester 2) |
| MCEN4008 | Finite Element Analysis | | V | (Elective 2 – Year 4, Semester 2) |
| MCEN4009 | Engineering Noise Control | | V | (Elective 3 – Year 4, Semester 2) |
| Specialisation Uni | ts Year 3 <i>(please refer to Course Structure for</i> | list of specialisations | offered): | |
| MCEN4013 | Advanced Refrigeration System Design | | | SPUE-COMEC |
| | Taranesa nemgeration system 2 cs.g.: | \checkmark | | Computational Mechanics Specialisation |
| MCEN4001 | Industrial Fluid Mechanic | | | SPUE-COMEC |
| | madatha mala meshane | | \checkmark | Computational Mechanics Specialisation |
| MCEN2003 | Machine Dynamics | V | | SPUC-ROBAU Robot |
| NAVENIZOGO | Microcontroller Project | | | Automation Specialisation |
| MXEN2003 | Microcontroller Project | $\sqrt{}$ | | SPUC-ROBAU Robot Automation Specialisation |
| MXEN3000 | Mechatronics Design Project | | V | SPUC-ROBAU Robot |
| NACENIACOS | Motorials Engines ving | -1 | | Automation Specialisation |
| MCEN4002 | Materials Engineering | V | | Mechanical Flexible |

| UNIT CODE | UNIT TITLE | SEM 1, 2025 | SEM 2, 2025 | REMARKS |
|--|---|---------------------------|--------------|---|
| ENCD2000 | El Mandonio de | V | | SPUC-MESYS Mechanical |
| ENGR2000 | Fluid Mechanics | | | Systems Specialisation SPUC-MESYS Mechanical |
| MCEN2001 | Fundamentals of Thermodynamics | | \checkmark | Systems Specialisation |
| WICLINZOOT | r undamentals of mermodynamics | | | SPUC-MEDVB Mechanical |
| | | $\sqrt{}$ | | Dynamics and Vibration |
| MCEN2003 | Machine Dynamics | | | Specialisation |
| | | | | SPUC-MEDVB Mechanical |
| | | | \checkmark | Dynamics and Vibration |
| MCEN2002 | Fundamentals of Mechanical Design | | | Specialisation |
| CHEN2000 | Mass and Energy Balances | V | | SPUC-PROEN Process |
| | | | | Engineering Specialisation (Specialisation offered by Department |
| | | | | Chemical and Energy Engineering) |
| CHEN2004 | Process Simulation and Data Analytics | | $\sqrt{}$ | SPUC-PROEN Process |
| | | | | Engineering Specialisation |
| | | | | (Specialisation offered by Department Chemical and Energy Engineering) |
| ENEN4014 | Sustainable Urban Management and | | $\sqrt{}$ | SPUC-SUENV Sustainable |
| | Planning | | | Environment Specialisation |
| | | | | (Specialisation offered by Environmental Engineering) |
| CSEN2000 | Civil Engineering Construction Materials | V | | SPUC-CIVEN Civil |
| 652112666 | Civil Engineering construction volucends | , | | Engineering Specialisation |
| | | | | (Specialisation offered by Civil and |
| CTENAGOE | Characterist Ameliais of Determinents | | | Construction Engineering) |
| STEN2005 | Structural Analysis of Determinate Structures | | V | SPUC-CIVEN Civil Engineering Specialisation |
| | Structures | | | (Specialisation offered by Civil and |
| | | | | Construction Engineering) |
| GEOT2000 | Principles of Geomechanics | | $\sqrt{}$ | SPUC-CIVEN Civil |
| | | | | Engineering Specialisation |
| | | | | (Specialisation offered by Civil and Construction Engineering) |
| CVEN2001 | Water and Environmental Resources | | $\sqrt{}$ | SPUC-CIVEN Civil |
| | | | | Engineering Specialisation |
| | | | | (Specialisation offered by Civil and Construction Engineering) |
| COMP1002 | Data Structures and Algorithms | | | SPUC-AIMLN Artificial |
| | g. | | | Intelligence and Machine |
| | | | | Learning Specialisation |
| | | | | (Specialisation offered by Electrical |
| ISYS2014 | Database Systems | | | and Computer Engineering) SPUC-AIMLN Artificial |
| | | | · | Intelligence and Machine |
| | | | | Learning Specialisation |
| | | | | (Specialisation offered by Electrical |
| ISEC2001 | Fundamental Concepts of Data Security | | | and Computer Engineering) SPUC-CYBSE Cybersecurity |
| 13202001 | Tundamental concepts of Data Security | • | | Specialisation |
| | | | | (Specialisation offered by Electrical |
| 10504000 | Cultura Consumitar Composata | | | and Computer Engineering) |
| ISEC1000 | Cyber Security Concepts | | V | SPUC-CYBSE Cybersecurity Specialisation |
| | | | | (Specialisation offered by Electrical |
| | | | | and Computer Engineering) |
| Specialisation Uni | ts Year 4 (please refer to Course Structure for | list of specialisations o | offered): | CDUE COLLEG |
| | | | | SPUE-COMEC Computational Machanics |
| | Finite Element Analysis | | V | Computational Mechanics Specialisation |
| MCEN4008 | THILL EIGHTCHE AHAIYSIS | | | Mechanical Flexible |
| MCEN4008 MCEN4011 | · | $\sqrt{}$ | | |
| MCEN4008 MCEN4011 MCEN4009 | Engineering Design Methodology | V | | Mechanical Flexible |
| MCEN4011 | · | V | √ √ | |
| MCEN4011 MCEN4009 | Engineering Design Methodology Engineering Noise Control | √ V | √ √ | Mechanical Flexible |
| MCEN4011 MCEN4009 | Engineering Design Methodology Engineering Noise Control | √ √ | √ √ | Mechanical Flexible SPUC-MESYS Mechanical |
| MCEN4011 MCEN4009 MCEN3002 | Engineering Design Methodology Engineering Noise Control Applied Fluid Mechanics | √ √ | √ √ | Mechanical Flexible SPUC-MESYS Mechanical Systems Specialisation SPUC-PROEN Process Engineering Specialisation |
| MCEN4011 MCEN4009 MCEN3002 | Engineering Design Methodology Engineering Noise Control Applied Fluid Mechanics | √ √ | √ √ | Mechanical Flexible SPUC-MESYS Mechanical Systems Specialisation SPUC-PROEN Process Engineering Specialisation (Specialisation offered by Department) |
| MCEN4011 MCEN4009 MCEN3002 CHEN3009 | Engineering Design Methodology Engineering Noise Control Applied Fluid Mechanics Fluid and Particle Processes | √ √ | √ √ | Mechanical Flexible SPUC-MESYS Mechanical Systems Specialisation SPUC-PROEN Process Engineering Specialisation (Specialisation offered by Department Chemical and Energy Engineering) |
| MCEN4011 MCEN4009 MCEN3002 | Engineering Design Methodology Engineering Noise Control Applied Fluid Mechanics | √ √ | √ √ | Mechanical Flexible SPUC-MESYS Mechanical Systems Specialisation SPUC-PROEN Process Engineering Specialisation (Specialisation offered by Department Chemical and Energy Engineering) SPUC-PROEN Process |
| MCEN4011 MCEN4009 MCEN3002 CHEN3009 | Engineering Design Methodology Engineering Noise Control Applied Fluid Mechanics Fluid and Particle Processes | √ √ | √ √ | Mechanical Flexible SPUC-MESYS Mechanical Systems Specialisation SPUC-PROEN Process Engineering Specialisation (Specialisation offered by Department Chemical and Energy Engineering) SPUC-PROEN Process Engineering Specialisation (Specialisation offered by Department) |
| MCEN4011 MCEN4009 MCEN3002 CHEN3009 | Engineering Design Methodology Engineering Noise Control Applied Fluid Mechanics Fluid and Particle Processes | √ √ | √ √ √ | Mechanical Flexible SPUC-MESYS Mechanical Systems Specialisation SPUC-PROEN Process Engineering Specialisation (Specialisation offered by Department Chemical and Energy Engineering) SPUC-PROEN Process Engineering Specialisation |

| UNIT CODE | UNIT TITLE | SEM 1, 2025 | SEM 2, 2025 | REMARKS |
|---|---|--------------------|-------------|---|
| | | | | (Specialisation offered by |
| ENENIA042 | Fruits are and all Carial and Carrana | | | Environmental Engineering) |
| ENEN4013 | Environmental, Social and Governance | | V | SPUC-SUENV Sustainable |
| | | | | Environment Specialisation (Specialisation offered by |
| | | | | Environmental Engineering) |
| TREN3001 | Transportation Engineering and | √ | | SPUC-CIVEN Civil |
| | Earthworks | | | Engineering Specialisation |
| | | | | (Specialisation offered by Civil and |
| CSEN3000 | Civil Engineering Project and Cost | | 1 | Construction Engineering) SPUC-CIVEN Civil |
| CSENSOOO | Management | | Y | Engineering Specialisation |
| | Wanagement | | | (Specialisation offered by Civil and |
| | | | | Construction Engineering) |
| COMP3010 | Machine Learning | $\sqrt{}$ | | SPUC-AIMLN Artificial |
| | | | | Intelligence and Machine |
| | | | | Learning Specialisation |
| | | | | (Specialisation offered by Electrical and Computer Engineering) |
| COMP3009 | Data Mining | | V | SPUC-AIMLN Artificial |
| CO1411 3003 | Batta William B | | , | Intelligence and Machine |
| | | | | Learning Specialisation |
| | | | | (Specialisation offered by Electrical |
| | | | | and Computer Engineering) |
| COMT3002 | Internet of Things Design and | V | | SPUC-CYBSE Cybersecurity |
| | Communications | | | Specialisation (Specialisation offered by Electrical |
| | | | | and Computer Engineering) |
| ISEC3005 | Cyber Security - Intrusion Detection | | V | SPUC-CYBSE Cybersecurity |
| | System and Incident Handling | | | Specialisation |
| | | | | (Specialisation offered by Electrical |
| PROGRAMME: M | ECHATRONIC ENGINEERING | | | and Computer Engineering) |
| MXEN2003 | Microcontroller Project | √ | | |
| MCEN2003 | Machine Dynamics | V | | |
| | | $\sqrt{}$ | | Shared unit with Electrical |
| ELEN2000 | Electrical Circuits | | | and Electronic Engineering |
| | | $\sqrt{}$ | | Shared unit with Electrical |
| CMPE2001 | Foundations of Digital Design | | | and Electronic Engineering |
| | | | $\sqrt{}$ | Shared unit with BTECH, B- |
| COMP1002 | Data Structures and Algorithms | | | COMP |
| | | | V | Shared unit with Electrical |
| ETEN2000 | | | | |
| | Signals and Systems | | | and Electronic Engineering |
| MXEN3000 | Mechatronics Design Project | | √ √ | and Electronic Engineering |
| | Mechatronics Design Project Ethics and Sustainability in Engineering | NT. ADDITED SCIEN | √ √ | and Electronic Engineering |
| MXEN3000 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTME | NT: APPLIED SCIEN | | and Electronic Engineering |
| MXEN3000 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMEN HEAD OF DEPARTMENT | | | and Electronic Engineering |
| MXEN3000 ENGR2001 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMEN HEAD OF DEPARTMENT | | | Shared unit with Bachelor |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMEN HEAD OF DEPARTM PLIED GEOLOGY Integrating Indigenous Science and STEM | TENT: PROF. M.V. I | | |
| MXEN3000 ENGR2001 PROGRAMME: AP | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMEN HEAD OF DEPARTM PLIED GEOLOGY Integrating Indigenous Science and STEM Fundamentals of Geographic Information | | | Shared unit with Bachelor |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 SPAT1007 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMENT HEAD OF DEPARTM PLIED GEOLOGY Integrating Indigenous Science and STEM Fundamentals of Geographic Information Systems | TENT: PROF. M.V. I | | Shared unit with Bachelor |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 SPAT1007 GEOL1008 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMEN HEAD OF DEPARTM PLIED GEOLOGY Integrating Indigenous Science and STEM Fundamentals of Geographic Information Systems Dynamic Earth | TENT: PROF. M.V. I | | Shared unit with Bachelor |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 SPAT1007 GEOL1008 MATH1013 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMEN HEAD OF DEPARTM PLIED GEOLOGY Integrating Indigenous Science and STEM Fundamentals of Geographic Information Systems Dynamic Earth Introductory Mathematics | TENT: PROF. M.V. I | | Shared unit with Bachelor |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 SPAT1007 GEOL1008 MATH1013 GEOL2008 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMEN HEAD OF DEPARTM PLIED GEOLOGY Integrating Indigenous Science and STEM Fundamentals of Geographic Information Systems Dynamic Earth Introductory Mathematics Field Geology Techniques | TENT: PROF. M.V. I | | Shared unit with Bachelor |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 SPAT1007 GEOL1008 MATH1013 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMEN HEAD OF DEPARTM PLIED GEOLOGY Integrating Indigenous Science and STEM Fundamentals of Geographic Information Systems Dynamic Earth Introductory Mathematics Field Geology Techniques Mineralogy and Geochemistry | TENT: PROF. M.V. I | | Shared unit with Bachelor |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 SPAT1007 GEOL1008 MATH1013 GEOL2008 GEOL2003 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMEN HEAD OF DEPARTM PLIED GEOLOGY Integrating Indigenous Science and STEM Fundamentals of Geographic Information Systems Dynamic Earth Introductory Mathematics Field Geology Techniques Mineralogy and Geochemistry Introduction to Geophysical Exploration | TENT: PROF. M.V. I | | Shared unit with Bachelor |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 SPAT1007 GEOL1008 MATH1013 GEOL2008 GEOL2003 GEOP2006 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMEN HEAD OF DEPARTM PLIED GEOLOGY Integrating Indigenous Science and STEM Fundamentals of Geographic Information Systems Dynamic Earth Introductory Mathematics Field Geology Techniques Mineralogy and Geochemistry Introduction to Geophysical Exploration Methods | TENT: PROF. M.V. I | | Shared unit with Bachelor |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 SPAT1007 GEOL1008 MATH1013 GEOL2008 GEOL2003 GEOP2006 GEOL2007 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMEN HEAD OF DEPARTM PLIED GEOLOGY Integrating Indigenous Science and STEM Fundamentals of Geographic Information Systems Dynamic Earth Introductory Mathematics Field Geology Techniques Mineralogy and Geochemistry Introduction to Geophysical Exploration Methods Structural Geology | TENT: PROF. M.V. I | | Shared unit with Bachelor |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 SPAT1007 GEOL1008 MATH1013 GEOL2008 GEOL2003 GEOP2006 GEOL2007 GEOL3012 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMEN HEAD OF DEPARTM PLIED GEOLOGY Integrating Indigenous Science and STEM Fundamentals of Geographic Information Systems Dynamic Earth Introductory Mathematics Field Geology Techniques Mineralogy and Geochemistry Introduction to Geophysical Exploration Methods Structural Geology Basin Dynamics | TENT: PROF. M.V. I | | Shared unit with Bachelor |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 SPAT1007 GEOL1008 MATH1013 GEOL2008 GEOL2003 GEOP2006 GEOL2007 GEOL3012 ERTH3001 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMENT HEAD OF | TENT: PROF. M.V. I | | Shared unit with Bachelor |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 SPAT1007 GEOL1008 MATH1013 GEOL2008 GEOL2003 GEOP2006 GEOL2007 GEOL3012 ERTH3001 GEOL3009 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMEN HEAD OF DEPARTM PLIED GEOLOGY Integrating Indigenous Science and STEM Fundamentals of Geographic Information Systems Dynamic Earth Introductory Mathematics Field Geology Techniques Mineralogy and Geochemistry Introduction to Geophysical Exploration Methods Structural Geology Basin Dynamics Climate and the Biosphere Field Studies of Sedimentary Basins | TENT: PROF. M.V. I | | Shared unit with Bachelor |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 SPAT1007 GEOL1008 MATH1013 GEOL2008 GEOL2003 GEOP2006 GEOL2007 GEOL3012 ERTH3001 GEOL3009 GEOL3003 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMEN HEAD OF DEPARTM PLIED GEOLOGY Integrating Indigenous Science and STEM Fundamentals of Geographic Information Systems Dynamic Earth Introductory Mathematics Field Geology Techniques Mineralogy and Geochemistry Introduction to Geophysical Exploration Methods Structural Geology Basin Dynamics Climate and the Biosphere Field Studies of Sedimentary Basins Hydrogeology and Engineering Geology | TENT: PROF. M.V. I | PRASANNA | Shared unit with Bachelor of Computing |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 SPAT1007 GEOL1008 MATH1013 GEOL2008 GEOL2003 GEOP2006 GEOL2007 GEOL3012 ERTH3001 GEOL3009 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMEN HEAD OF DEPARTM PLIED GEOLOGY Integrating Indigenous Science and STEM Fundamentals of Geographic Information Systems Dynamic Earth Introductory Mathematics Field Geology Techniques Mineralogy and Geochemistry Introduction to Geophysical Exploration Methods Structural Geology Basin Dynamics Climate and the Biosphere Field Studies of Sedimentary Basins | TENT: PROF. M.V. I | | Shared unit with Bachelor of Computing Shared unit with |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 SPAT1007 GEOL1008 MATH1013 GEOL2008 GEOL2003 GEOP2006 GEOL2007 GEOL3012 ERTH3001 GEOL3009 GEOL3003 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMEN HEAD OF DEPARTM PLIED GEOLOGY Integrating Indigenous Science and STEM Fundamentals of Geographic Information Systems Dynamic Earth Introductory Mathematics Field Geology Techniques Mineralogy and Geochemistry Introduction to Geophysical Exploration Methods Structural Geology Basin Dynamics Climate and the Biosphere Field Studies of Sedimentary Basins Hydrogeology and Engineering Geology | TENT: PROF. M.V. I | PRASANNA | Shared unit with Bachelor of Computing |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 SPAT1007 GEOL1008 MATH1013 GEOL2008 GEOL2003 GEOL2007 GEOL3012 ERTH3001 GEOL3009 GEOL3003 COMP1005 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMENT HEAD OF | TENT: PROF. M.V. I | PRASANNA | Shared unit with Bachelor of Computing Shared unit with |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 SPAT1007 GEOL1008 MATH1013 GEOL2008 GEOL2003 GEOP2006 GEOL2007 GEOL3012 ERTH3001 GEOL3009 GEOL3009 GEOL3003 COMP1005 GEOL1007 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMENT HEAD OF DEPARTN PLIED GEOLOGY Integrating Indigenous Science and STEM Fundamentals of Geographic Information Systems Dynamic Earth Introductory Mathematics Field Geology Techniques Mineralogy and Geochemistry Introduction to Geophysical Exploration Methods Structural Geology Basin Dynamics Climate and the Biosphere Field Studies of Sedimentary Basins Hydrogeology and Engineering Geology Fundamentals of Programming Planetary Science Fundamentals of Geology | TENT: PROF. M.V. I | PRASANNA | Shared unit with Bachelor of Computing Shared unit with |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 SPAT1007 GEOL1008 MATH1013 GEOL2008 GEOL2003 GEOL2007 GEOL3012 ERTH3001 GEOL3009 GEOL3009 GEOL3003 COMP1005 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMENT HEAD OF DEPARTN PLIED GEOLOGY Integrating Indigenous Science and STEM Fundamentals of Geographic Information Systems Dynamic Earth Introductory Mathematics Field Geology Techniques Mineralogy and Geochemistry Introduction to Geophysical Exploration Methods Structural Geology Basin Dynamics Climate and the Biosphere Field Studies of Sedimentary Basins Hydrogeology and Engineering Geology Fundamentals of Programming Planetary Science Fundamentals of Geology Introduction to Chemistry | TENT: PROF. M.V. I | PRASANNA | Shared unit with Bachelor of Computing Shared unit with |
| MXEN3000 ENGR2001 PROGRAMME: AP NPSC1003 SPAT1007 GEOL1008 MATH1013 GEOL2008 GEOL2003 GEOL2007 GEOL3012 ERTH3001 GEOL3009 GEOL3009 GEOL3009 GEOL3005 COMP1005 GEOL1007 GEOL1005 CHEM1003 | Mechatronics Design Project Ethics and Sustainability in Engineering DEPARTMENT HEAD OF DEPARTN PLIED GEOLOGY Integrating Indigenous Science and STEM Fundamentals of Geographic Information Systems Dynamic Earth Introductory Mathematics Field Geology Techniques Mineralogy and Geochemistry Introduction to Geophysical Exploration Methods Structural Geology Basin Dynamics Climate and the Biosphere Field Studies of Sedimentary Basins Hydrogeology and Engineering Geology Fundamentals of Programming Planetary Science Fundamentals of Geology | TENT: PROF. M.V. I | PRASANNA | Shared unit with Bachelor of Computing Shared unit with |

| UNIT CODE | UNIT TITLE | SEM 1, 2025 | SEM 2, 2025 | REMARKS |
|-----------|------------------------------------|-------------|-------------|----------------------------|
| ERTH2000 | Earth Resources and Sustainability | | V | |
| GEOL3001 | Tectonics and the Dynamic Earth | | V | |
| | | | V | Shared unit with Petroleum |
| PEEN3000 | Formation Evaluation | | | Engineering |
| GEOL3008 | Environmental Geoscience | | V | |
| GEOL3006 | Geoscience Project | V | V | |

Note for Revision 04:

- SPUC-SUENV Sustainable Environment Specialisation:
 ENST3008 Biodiversity Conservation is not offered in Semester 1, 2025.
- 2. <u>SPUE-WAWMG Water, Air and Waste Management Specialisation</u> CHEN3014 Waste and Wastewater Treatment Processes is not offered in Semester 1, 2025.