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| Programme Name | Bachelor of Science |
| Programme Description | The general aim of programme is to provide students with an extended foundation in physics and chemistry together with the ability to acquire extensive subject knowledge in the discipline that will underpin ongoing professional development, preparing graduates for further study in physics, Chemistry or another science or non-science related discipline or for a career in a physics related field or in other areas where the range of skills and knowledge acquired is needed or desirable. |
| Majors | Chemistry and Physics |
| Minimum Requirements | The minimum entry requirement for this programme is a pass (200/400) in form seven or foundation science programme, with emphasis on Mathematics, English and two science subjects Physics and Chemistry. Mature students with a minimum age of 23 years and relevant work experience may also be considered for candidature. |
| Duration | 3 Years on Full time |
| Programme Type | Bachelor of Science |
| College Name | College of Engineering, Science and Technology |
| Campus | Lautoka (Year 1 – 3 and Nabua Year 1) |
| Credit Points | 360 |

| Programme Structure | | |
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| Course Code | Course Title | Credit Points |
| | Year 1 Semester 1 | |
| PHY504Sem | Mechanics and Fluids (Compulsory) | 15 |
| CHM503Sem | General Chemistry | 15 |
| CIN506Sem | Computers Principles | 15 |
| LNG501Sem | English for Academic Studies | 15 |
| | Year 1 Semester 2 | |
| PHY505Sem | Electricity and Magnetism (Compulsory) | 15 |
| PHY510Sem | Oscillations, Waves and optics (Compulsory) | 15 |
| CHM504Sem | Organic Chemistry | 15 |
| ETH501Sem | Intermediate Ethics and Governance | 15 |
| | Year 2 Semester 1 | |
| PHY608Sem | Modern Physics (Compulsory) | 15 |

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| CHM604Sem | Environmental Physics* | 15 |
| CHM605Sem | Applied Mathematics and Quantum Chemistry* | |
| CHM606Sem | Food Chemistry* | |
| *Any one out of three Chemistry courses (CHM604Sem, CHM605Sem & CHM606Sem) | | |
| CHM506Sem | Biochemistry | 15 |
| CHM604Sem | Environmental Chemistry | 15 |
| Year 2 Semester 2 | | |
| PHY607Sem | Thermodynamics and Statistical Mechanics (Compulsory) | 15 |
| PHY604Sem | Astronomy | 15 |
| CHM602Sem | Physical Chemistry | 15 |
| CHM603Sem | Inorganic Chemistry | 15 |
| Year 3 Semester 1 | | |
| PHY704Sem | Quantum Mechanics and Atomic Physics (Compulsory) | 15 |
| PHY703Sem | Renewable and Sustainable Energy | 15 |
| CHM701Sem | Modern Instrumentation Methods & Techniques | 15 |
| CHM703Sem | Advanced Organic Chemistry** | 15 |
| CHM706Sem | Advanced Physical Chemistry** | |
| CHM707Sem | Advanced Inorganic Chemistry** | |
| **Any one out of three Chemistry courses (CHM703Sem, CHM706Sem & CHM707Sem) | | |
| Year 3 Semester 2 | | |
| PHY707Sem | Nuclear and Particle Physics (Compulsory) | 15 |
| PHY709SEM | Radiation Detection and Measurement | 15 |
| CHM704Sem | Chemistry of Materials and Polymers*** | 30 |
| CHM705Sem | Chemistry of Dyes and Pigments*** | |
| CHM708Sem | Medicinal Chemistry*** | |
| CHM709Sem | Chemical Analysis of Foods*** | |
| **Any two out of Four Chemistry courses (CHM704Sem, CHM705Sem, CHM708Sem and CHM709Sem) | | |
| Total Credit Points | | 360 |

| Course Prerequisite | | |
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| Course Code | Course Title | Prerequisite |
| PHY504Sem | Mechanics and Fluids (Compulsory) | Pass in year 13/Form 7 with chemistry or equivalent |

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| CHM503Sem | General Chemistry | Pass in year 13/Form 7 with chemistry or equivalent |
| CIN506Sem | Computers Principles | Pass in year 13/Form 7 with chemistry or equivalent |
| LNG501Sem | English for Academic Studies | Pass in Form 7/Foundation or equivalent |
| PHY505Sem | Electricity and Magnetism (Compulsory) | Pass in year 13/Form 7 with Physics or equivalent |
| PHY510Sem | Oscillations, Waves and optics (Compulsory) | Pass in year 13/Form 7 with Physics or equivalent |
| CHM504Sem | Organic Chemistry | Pass in year 13/Form 7 with chemistry or equivalent |
| ETH501Sem | Intermediate Ethics and Governance | Pass in Form 7/Foundation or equivalent |
| PHY608Sem | Modern Physics (Compulsory) | Any core 500 levels |
| CHM604Sem | Environmental Chemistry | CHM501 or CHM503/CHM504 |
| CHM605Sem | Applied Mathematics and Quantum Chemistry | CHM501 or CHM503/CHM504 |
| CHM606Sem | Food Chemistry | CHM501 or CHM503/CHM504 |
| CHM506Sem | Biochemistry | Pass in year 13/Form 7 with chemistry or equivalent |
| PHY607Sem | Thermodynamics and Statistical Mechanics (Compulsory) | PHY608SEM/Any 2 core 500 level |
| PHY604Sem | Astronomy | Pass in year 13/Form 7 with Physics or equivalent |
| CHM602Sem | Physical Chemistry | CHM501 or CHM503/CHM504 |
| CHM603Sem | Inorganic Chemistry | CHM501 or CHM503/CHM504 |
| PHY704Sem | Quantum Mechanics and Atomic Physics (Compulsory) | PHY608Sem/ Any 2 core 500 level |
| PHY703Sem | Renewable and Sustainable Energy | Pass in year 13/Form 7 with Physics or equivalent |
| CHM701Sem | Modern Instrumentation Methods & Techniques | CHM602/CHM603 |
| CHM703Sem | Advanced Organic Chemistry | CHM602/CHM603 |
| CHM706Sem | Advanced Physical Chemistry | CHM602 |
| CHM707Sem | Advanced Inorganic Chemistry | CHM603 |
| PHY707Sem | Nuclear and Particle Physics (Compulsory) | PHY704Sem/PHY608Sem |
| PHY709SEM | Radiation Detection and Measurement | PHY608Sem/PHY704Sem/Any 2 Core 500 Level |
| CHM704Sem | Chemistry of Materials and Polymers | CHM602/CHM603 |
| CHM705Sem | Chemistry of Dyes and Pigments | CHM602/CHM603 |
| CHM708Sem | Medicinal Chemistry | CHM602/CHM603 |
| CHM709Sem | Chemical Analysis of Foods | CHM602/CHM603/CHM606 |