**FACULTY OF SCIENCE**

**MODULES TO BE OFFERED IN AUGUST 2024 (SEM 1)**

**Major: Applied Physics**

|  |  |  |
| --- | --- | --- |
| **Code** | **Modules** | **MC** |
| SP-1204 | Classical Mechanics | 4 |
| SP-1205 | Experimental and Mathematical Skills in Physics | 4 |
| SP-2201 | Experiments in Physics | 4 |
| SP-2202 | Concepts in Modern Physics | 4 |
| SP-2302 | Electronics: Analogue and Digital | 4 |
| SP-2307 | Introduction to Computational Physics | 4 |
| SP-4301 | Characterisation And Evaluation of Materials | 4 |
| SP-4307 | Energy Generation, Storage and Distribution | 4 |
| SP-4310 | The Physics of Solar Cells | 4 |
| SP-4311 | Polymer Physics | 4 |

**FACULTY OF SCIENCE**

**MODULES TO BE OFFERED IN AUGUST 2024 (SEM 1)**

**Major: Biology**

|  |  |  |
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| **Code** | **Modules** | **MC** |
| SB-1201 | Diversity of Life | 4 |
| SB-1203 | Skills in Biological Sciences | 4 |
| SB-2201 | Plant Form and Function | 4 |
| SB-2203 | Animal Form and Function | 4 |
| SB-2211 | Genetics | 4 |
| SB-2323 | Tropical Tree Ecology and Conservation | 4 |
| SB-2401 | Plants and People | 4 |
| SB-2404 | Current Trends in Life Sciences | 4 |
| SB-4201 | Population Genetics Systematics and Evolution | 4 |
| SB-4301 | Conservation and Management of Living Resources | 4 |
| SB-4309 | Molecular Genetics | 4 |
| SB-4312 | Developmental Biology | 4 |
| SB-4317 | Climate Change Biology | 4 |
| SB-4319 | Tropical Parasitology | 4 |
| SB-4321 | Mycology | 4 |
| SB-4322 | Principles of Soil Science | 4 |
| SB-4332 | Principles of Oceanography | 4 |
| SB-4343 | Bioinspiration | 4 |

**FACULTY OF SCIENCE**

**MODULES TO BE OFFERED IN AUGUST 2024 (SEM 1)**

**Major: Chemistry**

|  |  |  |
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| **Code** | **Modules** | **MC** |
| SC-1221 | FUNDAMENTALS OF ORGANIC CHEMISTRY | 4 |
| SC-1281 | COMPUTING SKILLS FOR CHEMISTRY | 4 |
| SC-2212 | TRANSITION METAL CHEMISTRY | 4 |
| SC-2222 | FUNCTIONAL GROUPS IN ORGANIC CHEMISTRY | 4 |
| SC-2242 | CHEMICAL THERMODYNAMICS AND APPLICATIONS | 4 |
| SC-2261 | PRINCIPLES OF ANALYTICAL CHEMISTRY | 4 |
| SC-2401 | CHEMISTRY OF THE ENVIRONMENT | 4 |
| SC-2402 | BIOMARKERS, DISEASES AND DIAGNOSTICS | 4 |
| SC-4311 | SEMICONDUCTORS AS PHOTOCATALYSTS | 2 |
| SC-4319 | INORGANIC MATERIALS CHEMISTRY | 2 |
| SC-4325 | REACTIVE INTERMEDIATES IN ORGANIC SYNTHESIS | 2 |
| SC-4345 | EQUILIBRIUM ELECTROCHEMISTRY AND ION TRANSPORT | 2 |
| Sc-4346 | QUANTUM MECHANICS AND MOLECULAR SPECTROSCOPY | 2 |
| SC-4363 | MODERN ANALYTICAL TECHNIQUES | 2 |
| SC-4365 | ENVIRONMENTAL CHEMISTRY | 4 |

**FACULTY OF SCIENCE**

**MODULES TO BE OFFERED IN AUGUST 2024 (SEM 1)**

**Major: Geology**

|  |  |  |
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| **Code** | **Modules** | **MC** |
| SG-1203 | Introduction to Crystallography and Mineralogy | 4 |
| SG-1205 | Introduction to Geology | 4 |
| SG-2201 | Structural Geology | 4 |
| SG-2202 | Petrography of Igneous and Metamorphic Rocks | 4 |
| SG-2203 | Geochemistry | 4 |
| SG-4302 | Petroleum Geology | 4 |
| SG-4305 | Micropaleontology and Biostratigraphy | 4 |
| SG-4306 | Seismic Methods | 4 |
| SG-4312 | Igneous and Metamorphic Petrogenesis | 4 |
| SG-4314 | Engineering Geology | 4 |

**FACULTY OF SCIENCE**

**MODULES TO BE OFFERED IN AUGUST 2024 (SEM 1)**

**Major: Mathematics**

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| **Code** | **Modules** | **MC** |
| SM-1201 | Mathematical Methods for the Sciences | 4 |
| SM-1401 | Basic Calculus | 2 |
| SM-2201 | Ordinary Differential Equations | 4 |
| SM-2203 | Linear Algebra and its Applications | 4 |
| SM-2207 | Complex Analysis | 4 |
| SM-2301 | Combinatorics and Graph Theory | 4 |
| SM-2302 | Software for Mathematicians | 4 |
| SM-2311 | Engineering Mathematics | 4 |
| SM-4311 | Applied Mathematical Methods I | 4 |
| SM-4312 | Mathematical Modelling | 4 |
| SM-4313 | Mechanics | 4 |
| SM-4327 | Real Analysis | 4 |
| SM-4332 | Operations Research I | 4 |
| SM-4335 | Advanced Probability | 4 |
| SM-4336 | Operations Research II | 4 |
| SM-4337 | Applied Statistics | 4 |