

FACULTY OF SCIENCE

MODULES TO BE OFFERED IN JANUARY 2021 (SEM 2)

Major: Applied Physics

Module Code	Module Name	MC
SP-1202	Electricity and Magnetism	4
SP-1203	Thermal Physics and Optics	4
SP-1205	Experimental and Mathematical Skills in Physics	4
SP-2201	Experiments in Physics	4
SP-2203	Quantum Mechanics and Atomic Physics	4
SP-2204	Thermodynamics, Fluids and Statistical Mechanics	4
SP-2206	Condensed Matter Physics	4
SP-2305	Introduction to Materials Science	4
SP-3407	Introduction to Renewable Energy	4
SP-4290	Research Project	8
SP-4301	Characterisation and Evaluation of Materials	4
SP-4308	Nuclear and Particle Physics	4
SP-4310	Physics of Solar Cells	4
SP-4311	Polymer Physics	4

Major: Computer Science/Digital Science

Module Code	Module Name	MC
SS-1201	Programming Fundamentals 1	4
SS-1204	Computer Architecture And Organisation	4
SS-2201	Internet Programming And Development	4
SS-2202	Algorithms And Data Structures	4
SS-2203	Database Design	4
SS-2205	Computer Networks	4
SS-2206	Operating Systems	4
SS-2301	Introduction To Artificial Intelligence And Soft Computing	4
SS-4290	Project	8
SS-4306	Science Of Multimedia	4
SS-4307	Information Retrieval	4
SS-4310	Computer Security	4
SS-4314	Data Mining	4
SS-4315	Machine Learning	4
ZZ-1102	Programming Fundamentals	4
ZX-1201	Augmented And Virtual Reality	4
ZD-1201	Introduction To Data Analytics	4
ZS-1201	Introduction To Cybersecurity	4
ZC-2201	Database Design	4

Major: Biology

Module Code	Module Name	MC
SB-1202	Organisms And Environment	4
SB-2206 SB-2306	Principles Of Animals Physiology	4
SB-2207 SB-2307	Principles Of Plant Physiology	4
SB-2210	Cells, Biomolecules, And Microbiology	4
SB-2343	Introduction To Biochemistry	4
SB-2402	Discovering Science	4
SB-2405	Human Life And Environment	4
SB-4290	Research Project	8
SB-4302	Tropical Forest Ecology	4
SB-4310	Seed Plant Taxonomy And Diversity	4
SB-4311	Animal Behaviour	4
SB-4313	Aquatic Bioloby	4
SB-4314	Biotechnology	4
SB-4316	Economic Botany	4
SB-4330	Marine Pollution And Ecotoxicology	4
SB-4341	Advanced Biochemistry	4

Major: Mathematics

Module Code	Module Name	MC
SM-1202	Advanced Mathematical Methods For The Sciences	4
SM-1301	Discrete Mathematics	4
SM-1402	Basic Statistics	2
SM-2202	Multivariate Calculus	4
SM-2204	Numerical Analysis	4
SM-2205	Intermediate Statistics	4
SM-2303	History Of Mathematics	4
SM-2403	Introductory Statistics	2
SM-4290	Research Project	4
SM-4314	Applied Mathematical Methods	4
SM-4315	Dynamical Systems And Chaos	4
SM-4316	Fluids And Waves	4
SM-4325	Integral Equations	4
SM-4328	Introduction To Algebra And Number Theory	4
SM-4329	Numerical Approximation	4
SM-4331	Advanced Statistics	4
SM-4333	Financial Mathematics	4
SM-4334	Advanced Operations Research	4

Major: Chemical Sciences

Module Code	Module Name	MC
SC-1211	Fundamentals Of Inorganic Chemistry	4
SC-1241	Fundamentals Of Physical Chemistry	4
SC-1483	Chemistry In Everyday Life	4
SC-2224	Carbonyl Chemistry And Organic Synthesis	4
SC-2243	Chemical Kinetics And Photochemistry	4
SC-3262	Instrumental Methods Of Chemical Analysis	4
SC-3213	Organometallic Chemistry	4
SC-4290	Chemistry Project	8
SC-4317	Bio-Inorganic Chemistry	2
SC-4327	Bio-Organic Chemistry	2
SC-4328	Selected Topics In Advanced Spectroscopy	2
SC-4347	Surface Chemical Phenomena	2
SC-4366	Food Chemistry And Chemical Analysis Of Foods	2
SC-4368	Biosensors, Biochips And Nanobiotechnology	4

Major: Geology

Module Code	Module Name	MC
SG-1204	Introduction to Paleontology	4
SG-1206	Introduction to Sedimentology and Stratigraphy	4
SG-2204	Geophysics	4
SG-2205	Geological Mapping	4
SG-2206	Hydrogeology	4
SG-2306	Environmental Geology	4
SG-4307	Geotectonics	4
SG-4308	Well Log Analysis	4
SG-4310	Isotope Geochemistry and Geochronology	4
SG-4311	Ore Deposits and Economic Geology	4
SG-4201 / SG-4290	Final Year Project	8
SG-2403	Environmental Aspects of Earth Sciences	4
SG-5104	Petroleum Exploration	4
SG-5105	Formation Evaluation	4
SG-5103	Graduate Research Project (Semesters 1 and 2)	8
SG-5308	Production Geology	4
SG-5313	Introduction to Petroleum Engineering	4