

GRADUATE PROGRAMMES OPENED FOR 2021-2022

FACULTY OF SCIENCE & TECHNOLOGY

Taught Programmes

<u>Taught Programmes</u>	<u>Commencement Date</u>	
**Certificate in Applied Data Science	FT ONLY	Sept. 2021
** Certificate in Food and Agro-Processing Technology	FT ONLY	Sept. 2021
**Diploma in Food and Agro-Processing Technology	FT ONLY	Aug. 2021
**Diploma in Information Technology	FT/PT	Aug. 2021
**Diploma in Applied Data Science	FT/PT	Aug. 2021
**Master of Science in Food and Agro-Processing Technology	FT/PT	Aug. 2021
**Master of Science in Computer-Based Management Information Systems (CBMIS) (Joint with Mona School of Business and Management)	PT	Sept. 2021
** Master of Science – Applied Data Science	FT/PT	Sept. 2021
**Master of Science- Computer Science	FT/PT	Sept. 2021
**Master of Science in Occupational and Environmental Safety and Health (OESH)	FT/PT	Sept. 2021
**Master of Science - Agricultural Entrepreneurship	FT	Sept. 2021
**Master of Science – Medical Physics	FT/PT	Sept. 2021
**Diploma in Medical Physics	FT/PT	Sept. 2021
**Master of Science – Renewable Energy Management	FT/PT	Sept. 2021
**Master of Science – Renewable Energy Technology	FT/PT	Sept. 2021
**Master of Science – Advanced Electronic Systems	FT	Sept. 2021
**Master of Science - Biotechnology		Sept. 2021
**Master of Science – Mathematics	PT	Sept. 2021/Jan. 2022
** Master of Science – Enterprise Risk Management (Joint with Mona School of Business and Management)	PT	Sept. 2021
**Master of Science – Natural Resource Management: -Integrated Urban and Rural Environmental Management	PT only	Sept. 2021
-Marine and Terrestrial Ecosystems	PT only	Sept. 2021

Research Programmes

Master of Philosophy - Biochemistry	FT/PT	Sept. 2021
Doctor of Philosophy - Biochemistry	FT/PT	Sept. 2021
Master of Philosophy - Biotechnology	FT/PT	Sept. 2021
Doctor of Philosophy - Biotechnology	FT/PT	Sept. 2021
Master of Philosophy - Botany	FT/PT	Sept. 2021
Doctor of Philosophy - Botany	FT/PT	Sept. 2021
Master of Philosophy - Chemistry	FT/PT	Sept. 2021
Doctor of Philosophy - Chemistry	FT/PT	Sept. 2021
Master of Philosophy - Computer Science	FT/PT	Sept. 2021
Doctor of Philosophy - Computer Science	FT/PT	Sept. 2021

Master of Philosophy - Electronics	FT/PT	Sept. 2021
Doctor of Philosophy - Electronics	FT/PT	Sept. 2021
Master of Philosophy - Environmental Management	FT/PT	Sept. 2021
Doctor of Philosophy – Environmental Management	FT/PT	Sept. 2021
Master of Philosophy - Geography	FT/PT	Sept. 2021
Doctor of Philosophy - Geography	FT/PT	Sept. 2021
Master of Philosophy - Geology	FT/PT	Sept. 2021
Doctor of Philosophy - Geology	FT/PT	Sept. 2021
Master of Philosophy - Marine Sciences	FT/PT	Sept. 2021
Doctor of Philosophy - Marine Sciences	FT/PT	Sept. 2021
Master of Philosophy -Environmental Biology	FT/PT	Sept. 2021
Doctor of Philosophy -Environmental Biology	FT/PT	Sept. 2021
Master of Philosophy - Mathematics	FT/PT	Sept. 2021
Doctor of Philosophy - Mathematics	FT/PT	Sept. 2021
Master of Philosophy - Physics	FT/PT	Sept. 2021
Doctor of Philosophy - Physics	FT/PT	Sept. 2021
Master of Philosophy - Applied Physics	FT/PT	Sept. 2021
Doctor of Philosophy - Applied Physics	FT/PT	Sept. 2021
Master of Philosophy - Zoology	FT/PT	Sept. 2021
Doctor of Philosophy - Zoology	FT/PT	Sept. 2021
** Master of Philosophy in Occupational and Environmental Safety and Health (OESH)	FT/PT	Sept. 2021
** Doctor of Philosophy in Occupational and Environmental Safety and Health (OESH)	FT/PT	Sept. 2021

NOTES:

FT – Programme is offered on a Full-time basis

PT – Programme is offered on a Part-time basis

*****Full-Fee Paying Programmes***

INFORMATION

MPhil/PhD Biotechnology - A

Areas include: Molecular Biology, Plant Biotechnology/Biochemistry/Physiology, Medicinal Plant Biotechnology/Ethnobotany, Agricultural Biotechnology (plant tissue culture including micropropagation and biofarming; crop production and quality improvement; product development & value chain expansion), Biomedical Biotechnology, Nutraceutical Biotechnology, Microbial Biotechnology, Nutritional Biotechnology, Environmental Biotechnology, Molecular Plant Pathology, Molecular Virology, Nano-biotechnology.

MPhil/PhD Chemistry

Areas include: Bauxite/Alumina Chemistry, Catalysis, Chemical Education, Computer-assisted Chemistry, Electrochemistry, Food Chemistry, Inorganic Reaction Mechanisms, Metal Organic Framework Materials, Microbial Chemistry, Molecular Structure and Phase Transition, Nanomolecules, Natural Products, Nitrovasodilator Studies, Nutrient Pollution, Organic Synthesis, Organometallic Catalysis, Pesticide Degradation, Physical Chemistry of Interfaces, Pollution Chemistry, Quantum-dots, Structural Inorganic Chemistry, Structure and Properties of Electrochemical Interfaces, Supramolecular Chemistry, Surface Chemistry, Ultratrace Organic Toxin Analysis, Renewable Energy and Physical Organic Chemistry.

MPhil/PhD Computer Science

Areas include: Sensor Networks, Complex Systems Modeling, Real-Time Simulation, Software Engineering, Software Visualization, Human-Computer Interaction, Educational Technology, Knowledge-based Systems, Ontology and Data Mining.

MPhil/PhD Life Sciences (Botany and Zoology)

Areas include: Biodiversity and Conservation, Coral Reef Ecology, Entomology, Pest Management, Environmental Biology, Fish Biology, Freshwater Ecology, Fisheries and Aquaculture, Forest Ecology, Horticulture, Marine Ecology, Molecular Biology, Parasitology, Physiology, Experimental Biology, Plant Breeding, Plant Pathology, Plant Physiology, Terrestrial and Aquatic Ecology, Tissue Culture and Biotechnology, Virology.

MPhil/PhD Mathematics

Areas include: Linear Algebra, Algebra and Number theory, Applied Mathematics, Mathematics of Finance, Operations Research, Stochastic Differential/Difference Equations and Applications, Fluid Mechanics & Applied Statistics.

MPhil/PhD Physics and MPhil/PhD Electronics

MPhil/PhD in Physics, Electronics, Applied Physics, Applied Physics (Climate Studies), Applied Physics (Medical Physics) and Applied Physics (Alternative Energy).