

# GRADUATE PROGRAMMES OPENED FOR 2025-2026

## FACULTY OF SCIENCE & TECHNOLOGY

### Taught Programmes

	<u>Commencement Date</u>	
**Certificate in Applied Data Science	FT ONLY	Sept. 2025
** Certificate in Food and Agro-Processing Technology	FT ONLY	Sept. 2025
**Diploma in Food and Agro-Processing Technology	FT ONLY	Aug. 2025
**Diploma in Applied Data Science	FT/PT	Aug. 2025
**Master of Science in Food and Agro-Processing Technology	FT/PT	Aug. 2025
**Master of Science in Computer-Based Management Information Systems (CBMIS) (Joint with Mona School of Business and Management )	PT	Sept. 2025
** Master of Science – Applied Data Science	FT/PT	Sept. 2025
**Master of Science- Computer Science	FT/PT	Sept. 2025
**Master of Science in Occupational and Environmental Safety and Health (OESH)	FT/PT	Sept. 2025
**Master of Science - Agricultural Entrepreneurship	FT	Sept. 2025
**Master of Science in Clinical Medical Physics	FT	Sept. 2025
**Master of Science – Renewable Energy Management	FT/PT	Sept. 2025
**Master of Science – Renewable Energy Technology	FT/PT	Sept. 2025
**Master of Science – Advanced Electronic Systems	FT	Sept. 2025
**Master of Science - Biotechnology		Sept. 2025
**Master of Science – Mathematics	PT	Sept. 2025/Jan. 2026
** Master of Science – Enterprise Risk Management (Joint with Mona School of Business and Management)	PT	Sept. 2025
** Diploma in Natural Resource Management	PT	Sept. 2025
** Master of Science – Natural Resource Management	PT	Sept. 2025

### Research Programmes

Master of Philosophy - Biochemistry	FT/PT	Sept. 2025
Doctor of Philosophy - Biochemistry	FT/PT	Sept. 2025
Master of Philosophy - Biotechnology	FT/PT	Sept. 2025
Doctor of Philosophy - Biotechnology	FT/PT	Sept. 2025
Master of Philosophy - Botany	FT/PT	Sept. 2025
Doctor of Philosophy - Botany	FT/PT	Sept. 2025
Master of Philosophy - Chemistry	FT/PT	Sept. 2025
Doctor of Philosophy - Chemistry	FT/PT	Sept. 2025
Master of Philosophy - Computer Science	FT/PT	Sept. 2025
Doctor of Philosophy - Computer Science	FT/PT	Sept. 2025
Master of Philosophy - Electronics	FT/PT	Sept. 2025
Doctor of Philosophy - Electronics	FT/PT	Sept. 2025
Master of Philosophy - Environmental Management	FT/PT	Sept. 2025
Doctor of Philosophy – Environmental Management	FT/PT	Sept. 2025
Master of Philosophy - Geography	FT/PT	Sept. 2025
Doctor of Philosophy - Geography	FT/PT	Sept. 2025

Master of Philosophy - Geology	FT/PT	Sept. 2025
Doctor of Philosophy - Geology	FT/PT	Sept. 2025
Master of Philosophy - Marine Sciences	FT/PT	Sept. 2025
Doctor of Philosophy - Marine Sciences	FT/PT	Sept. 2025
Master of Philosophy -Environmental Biology	FT/PT	Sept. 2025
Doctor of Philosophy -Environmental Biology	FT/PT	Sept. 2025
Master of Philosophy – Oceanography	FT/PT	Sept. 2025
Doctor of Philosophy – Oceanography	FT/PT	Sept. 2025
Master of Philosophy - Mathematics	FT/PT	Sept. 2025
Doctor of Philosophy - Mathematics	FT/PT	Sept. 2025
Master of Philosophy - Physics	FT/PT	Sept. 2025
Doctor of Philosophy - Physics	FT/PT	Sept. 2025
Master of Philosophy - Applied Physics	FT/PT	Sept. 2025
Doctor of Philosophy - Applied Physics	FT/PT	Sept. 2025
Master of Philosophy - Zoology	FT/PT	Sept. 2025
Doctor of Philosophy - Zoology	FT/PT	Sept. 2025
** Master of Philosophy in Occupational and Environmental Safety and Health (OESH)	FT/PT	Sept. 2025
** Doctor of Philosophy in Occupational and Environmental Safety and Health (OESH)	FT/PT	Sept. 2025
Master of Philosophy – Pharmacognosy	FT/PT	Sept. 2025
Doctor of Philosophy – Pharmacognosy	FT/PT	Sept. 2025
Master of Philosophy – Ethnobotany	FT/PT	Sept. 2025
Doctor of Philosophy – Ethnobotany	FT/PT	Sept. 2025
Master of Philosophy – Ethnobiology	FT/PT	Sept. 2025
Doctor of Philosophy – Ethnobiology	FT/PT	Sept. 2025

***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: Cybersecurity, 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).

### **MPhil/PhD – Pharmacognosy**

The area includes either field and or laboratory-based research. The area of study looks at natural sources, like plants and fungi, to discover and develop new medicines. It examines their physical, chemical and biological properties to understand their therapeutic potential, integrating traditional knowledge with science to advance healthcare.

**MPhil/PhD – Ethnobotany and MPhil/PhD Ethnobiology**

The area applies tropical fieldwork methods to study local knowledge of Caribbean biodiversity.

Co-create research with community members that prioritizes their cultural traditions.