



THE UNIVERSITY OF THE WEST INDIES  
MONA, JAMAICA



**FACULTY OF PURE AND APPLIED SCIENCES,  
DEPARTMENT OF PHYSICS**

**MASTER/DIPLOMA IN MEDICAL PHYSICS**

## **OVERVIEW OF THE PROGRAMME**

The MSc/PgDip in Medical Physics is the first post-graduate degree programme of its kind in the Caribbean and is considered for graduates of the physical and engineering sciences who wish to specialise in clinical sciences, health physics or biomedical equipment industry. The programme is intended to prepare students for productive careers as medical and health physicists and is designed based on the requirements recommended by the American Association of Physicists in Medicine (AAPM). The programme aims to produce *Qualified Medical Physicists*, as defined by the AAPM, who are competent to practice independently in various subfields of Medical and Health Physics such as Diagnostic and Therapeutic Radiological Physics, Nuclear Medicine, Medical, Environmental and Industrial Health Physics.

## **PROGRAMME STRUCTURE**

The MSc programme will be offered full-time over 12 months (three semesters) or part-time for 24-months in line with the University's academic year. The curriculum consists of three modules: Level I (core), Level II (professional) and Level III (speciality & practical). Postgraduate Diploma (PgDip) programme includes the Level I and Level II courses over two semesters. Courses will be delivered in block mode on evenings and/or weekends to facilitate working professionals.

## **CAREERS IN MEDICAL PHYSICS**

There are various jobs for medical physicists in medical schools, hospitals, and clinics. Most of the jobs in medical physics are related to radiotherapy, diagnostic imaging and nuclear medicine. The medical physicists make a career as a consultant to hospitals and other users of their services. Many jobs involve teaching future medical physicists, resident physicians, medical students, and technologists who operate the various types of equipment used to perform diagnosis and treatment.

A career in health physics is dedicated to the safe use of X-rays, gamma rays, electron and neutron beams, and sealed radionuclide sources. A job in health physics also includes conducting radiation surveys with the appropriate instrumentation.

After successfully completing the Masters program, you can also apply for PhD level studies in related fields. For more information visit the links:

[http://www.aapm.org/medical\\_physicist/default.asp](http://www.aapm.org/medical_physicist/default.asp)

[http://www.physicstoday.org/jobs/career\\_resources/profiles/medical\\_physics\\_jobs](http://www.physicstoday.org/jobs/career_resources/profiles/medical_physics_jobs)

## **ENTRY REQUIREMENTS**

Applicants must possess a Bachelor of Science, Engineering or Medicine degree with at least Lower Second Class Honour level. Candidates who do not meet these criteria, but who have sufficient professional experience in a relevant area may also be admitted under special circumstances.

## **HOW TO APPLY**

The application forms can be obtained and submitted online at

<http://sas.uwimona.edu.jm:9010/>. For details visit the <http://www.mona.uwi.edu/postgrad/>.

## **CONTACT DETAILS**

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