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## MESSAGE FROM THE DEAN OF THE FACULTY OF MEDICAL SCIENCES

The Faculty of Medical Sciences is comprised of the School of Medicine, the School of Veterinary Medicine, the School of Advanced Nursing Education, the School of Pharmacy and the School of Dentistry which together offers a wide choice of both taught and research-based postgraduate degrees. These include a variety of Diploma, MSc, and DM programmes designed for medical practitioners wishing to deepen their knowledge or specialise in specific disciplines. Other taught programmes such as the MSc in Clinical Psychology are open to non-medical graduates. Also on offer for the first time are the Masters of Advanced Nursing and the Masters of Public Health. For graduates who wish to pursue research work, the Departments of Preclinical and Paraclinical Sciences in the School of Medicine and the School of Veterinary Medicine offer a range of MPhil and PhD programmes. The presence of five Schools provides excellent opportunities for cross-disciplinary research work.

Graduates interested in doing research in a multicultural environment will enjoy the stimulation involved in doing research in the Faculty.

**Professor Samuel Ramsewak – Dean**

## MESSAGE FROM THE DEPUTY DEAN, GRADUATE STUDIES AND RESEARCH, FACULTY OF MEDICAL SCIENCES

The Faculty of Medical Sciences has over the years sought to expand its postgraduate programme offering, the focus being on the development of a well-rounded graduate student who has a broad-based knowledge in his/her chosen field of study. The number of postgraduate programmes offered has steadily increased and this year the MSc. in Advanced Nursing and Masters of Public Health (MPH) have been introduced. Also for the second year running, postgraduate students will have the opportunity to further develop their research skills through a series of workshops facilitated by the Instructional Development Unit that will cover topics ranging from how to develop a conceptual framework to how to manage your supervisor. Our Faculty's research website ([www.sta.uwi.edu/fms/research](http://www.sta.uwi.edu/fms/research)) has been revamped and we encourage students to check it regularly for updates on research in the Faculty and information on scholarships and research funding. The number and size of scholarships available to students have been increased and there are currently more opportunities for research funding, so pursuing a graduate degree is now easier. Pick an area of study that you love and that you are willing to work hard at and you will find graduate studies to be both exciting and fulfilling.

**Dr. Christine Carrington – Deputy Dean**

## MESSAGE FROM THE POSTGRADUATE STUDENT REPRESENTATIVE, FACULTY OF MEDICAL SCIENCES

It gives me great pleasure to welcome both new and returning students to the Faculty of Medical Sciences. Congratulations on your decision to pursue graduate studies. The University's administration deserves credit for the increased emphasis that has been placed on supporting and encouraging graduate training and research. I urge you to make use of these opportunities. For most of us, this is a phase in our career where we broaden our knowledge base and fine tune laboratory, analytical, writing and presentation skills. While these are necessary and justifiable objectives, I think it is equally important to begin inculcating a disposition of service to our region. In a wider sense, we will all eventually represent The University of the West Indies and our respective disciplines, and we are likely to have the responsibility of making decisions. Let these actions reflect a culture of excellence. I wish you the very best in all your endeavours. Together we can build a stronger, more honourable and more effective Caribbean scientific community.

**Mr. Shamjeet Singh - Postgraduate Student Representative**  
**PhD student and Laboratory Technician**  
**Biochemistry Unit, Dept. of Preclinical Sciences**  
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#### DEPUTY DEANS

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### CENTRE FOR MEDICAL SCIENCES EDUCATION (CMSE)

The Centre for Medical Sciences Education (CMSE) is a physical and conceptual centre for harnessing and maximising the efficient and effective use of teaching, learning, technology, and educational research resources in the Faculty of Medical Sciences. The mission of the Centre is to provide academic, professional and technical resources towards promoting continuous improvement in curriculum planning, and the delivery of medical education programmes involving staff and students in the Faculty of Medical Sciences.

CMSE provides the five Schools of the Faculty with the following services: print and copy, videotaping, photography, medical illustration, graphic design and desktop publishing, technical assistance, website design, curriculum design, review and development, staff development workshops, assessments and evaluation, communication skills teaching, co-ordination of the Problem-Based Learning (PBL) and internal audit, monitoring and review.

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Lecturer, Measurements & Evaluation  
Mr. Bidyadhar Sa  
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## MEDICAL SCIENCES LIBRARY

Founded in 1989, the Medical Sciences Library comprises of five professional and thirty-one support staff. The Library provides services such as reference services, circulation services to both print and multimedia items, internet access; inter-library loans; photocopying, print and scanning. The Library has a collection of over 37,000 items, ranging from books and periodical volumes to multimedia items and newspaper subscriptions. Apart from hard copy items, the library also provides electronic resources in the form of online databases such as BioMed Central, Cochrane Library, EBSCOhost and OCLC FirstSearch. Special facilities include four seminar rooms, multimedia-equipped Group Viewing room and Computer Training room.

HEAD:

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## DEPARTMENT OF PRE-CLINICAL SCIENCES

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### ACADEMIC STAFF

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Professor & Unit Coordinator

Research interest: Applied and Clinical Neurobiology and experimental models of diabetes and metabolic syndrome

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Senior Lecturer

Research interest: Anatomical malformations in adults and children

**Rao, Suresh (M)**

MSc, PhD, FAGE Manipal

Senior Lecturer

Research interest: (i) Effect of Ultrasound on brain development and function (ii) Anatomical malformations

**Uche-Nwachi, Edward (M)**

BSc, MB, ChB, PhD Ife

Lecturer

Research interest: Birth defects: Experimental models

## BIOCHEMISTRY UNIT

**Carrington, Christine (F)**

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Research interest: Molecular Virology (esp. mosquito-borne viruses and virus evolution), Molecular Genetics, Phylogenetics, Emerging infectious diseases.

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Senior Lecturer

Research interest: Enzymes, Protein modelling, evaluation of antihypertensive and anticancer properties of plant extracts

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Lecturer

Research interests: Viral phylogenetics and cell culture

**Nayak, Shivananda (M)**

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Senior Lecturer

Research interest: Evaluation of plant extracts, Diabetes, Protein purification

**Ramdath, Dinesh (M)**

BSc, MSc Tor, PhD UWI

Professor

Research interest: Nutritional and biochemical risk factors of chronic diseases

## PHYSIOLOGY UNIT

### **Addae, Jonas I. (M)**

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Research interest: Intrinsic neuroprotective mechanisms in the brain

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### **Youssef, Farid (M)**

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Research interest: Clinical and Applied Neurobiology

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Research Interests: (i) Psychosocial issues in Primary Care

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### **Manohar, Jay (M)**

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Research Interests: (i) Provision of quality health care (ii) Use of computers in General Practice/Primary Care (iii) Use of services by adolescents

### **Olukoga, Abiodun (M)**

BSc., MBChB, MPH, MBA, MCom (Accounts), FMCPH

Lecturer

Research Interests: (i) Health Economics, (ii) Health

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### **Poon-King, Celia (F)**

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Lecturer

Research Interests: (i) Chronic Disease Epidemiology (ii) Public

Health (iii) GIS in Public Health

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Research Interests: molecular diagnostics and epidemiology of multi-drug resistant pathogens, nosocomial Infections and control,

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MD (LMCC) Dal Cida  
Part-time Senior Lecturer

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Part-time Senior Lecturer

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BSc, MB BS, DM UWI  
Professor (Anatomical Pathology)

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Lecturer (Anatomical Pathology)  
Research Interests: breast cancer, renal disease, wound healing and STI

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MB BS UWI, MRCPATH  
Lecturer (Anatomical Pathology)  
Research Interests: Prostate, cervical, colonic and breast cancer.

**Bhogai, V. S. (M)**

MD  
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BSc (Hons), MB BS, UWI, PhD, DABCC, SC (ASCP), MRO (AAMRO),  
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Research Interests: Alzheimer's disease, biomarker risk factors, epidemiology

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BSc, MSc, MPhil, PhD Ibadan  
Professor (Chemical Pathology)  
Research Interests: diabetes and metabolism and biochemical risk factors for diabetic complications.

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Senior Lecturer (Haematology)  
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Research Interests: Haematologic malignancies in Trinidad and Tobago and Antiphospholipid syndrome.

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Senior Lecturer (Immunology)  
Research Interests: The impact of Sahara dust on health of Caribbean peoples.

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Research Interests: Immunophenotyping and cell cycle analysis by Flow Cytometry.

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## DEPARTMENT OF CLINICAL MEDICAL SCIENCES

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Research interest: Metabolic Disease

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Associate Lecturer

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Professor & Unit Coordinator  
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Associate Lecturer

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Professor  
Research interests: (i) HIV/AIDS (ii) Fetal growth and maternal lipid metabolism (iii) Fetal basis of adult diseases (iv) Neurodevelopmental studies (v) Morbidities in the Neonatal period

**Balkaran, Beni Naraine (M)**

BSc Guy, MB BS Ban, MD (Paed) UWI  
Lecturer  
Research interests: (i) HIV (ii) Nephrology

**Henry, Gillian (F)**

MB BS UWI, FAAP  
Lecturer (on leave)

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MB BS, MRCP  
Part-time Lecturer

**Parag, Rajindra (M)**

MB BS, MRCP, MMSc  
Associate Lecturer

**Ramcharan, Jasmine (F)**

MB BS UWI, Dip (Child Health), MRCP  
Lecturer  
Research interest: Child Development

**Thomas, Rosemarie (F)**

BSc Toronto, MBBS UWI, Dip (Paed)  
Part-time Lecturer

**PSYCHIATRY UNIT**

**Hutchinson, Gerard (M)**

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Professor & Unit Coordinator

**Secretary: Ms. Isabelle La Roche**

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**Ramcharan, Celia (F)**

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Associate Lecturer

**Ramtahal, Indar (M)**

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Associate Lecturer

**Reid, Sandra (F)**

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Lecturer

**Remy, Lionel (M)**

BSc, MSc (Sp Ed), MSc (Psy Wk)  
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Associate Lecturer

**Sharp, Jacqueline (F)**

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Associate Lecturer

## RADIOLOGY & NUCLEAR MEDICINE UNIT

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BSc, MBBS, DM (Rad)  
Associate Lecturer

**Gardner, Sherrie-Ann (F)**

MBBS, MRCP, FRCR, CCST  
Lecturer  
Research interest: Interventional Radiology

**Khan, Omar (M)**

BSc, PhD Lond, MB, MSc Lond, DMRD Lond  
Lecturer  
Research interests: (Nuclear Medicine) (i) Single Photon  
Emission (ii) Computerized Tomography (iii) Contrast Media  
(iv) Biliary Kinetics

## DEPARTMENT OF CLINICAL SURGICAL SCIENCES

**Head: Professor Vijay Naraynsingh**

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## ACADEMIC STAFF CLINICAL TRAINING PROGRAMME – BAHAMAS

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**Chea, William (M)**

BSc, FRCSC  
Associate Lecturer, General Surgery

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DM Havana  
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**ANAESTHESIA & INTENSIVE CARE UNIT**

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(ii) Intensive Care (iii) Gender Issues in Medicine  
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MD, MB BS  
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Research interests: (i) post-operative pain relief (ii) benchmarking of intensive care services (iii) evaluation of surgical risk (iv) Approaches to improving ICU performance and overall management, and operating room utilisation, (v) POSSUM scoring for colorectal surgeries.

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**OBSTETRICS & GYNAECOLOGY UNIT**

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(iii) Compound fractures especially Gustillo-Anderson Type III  
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Research interest: Colorectal and hepatic surgery

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Research interest: Laparoscopic Surgery

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Research interest: Vascular and General Surgery

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**Juman, Solaiman (M)**

MB BS UWI, FRCS Ed, FRCS (Otol)  
Lecturer (Otorhinolaryngology)  
Research interest: ENT Disorders/Hearing loss in  
Steelpan players

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Associate Lecturer (Urology)

**Landreth-Smith, Barrie (M)**

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Research interest: Vascular surgery

**Maharaj, Rajendra P. (M)**

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Research interest: Ophthalmology/Vitreo-retinal surgery

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Professor (Surgery)  
Research interests: (i) Diabetic foot/lower limb ischaemia

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## SCHOOL OF PHARMACY

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#### ORAL BIOLOGY

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#### CHILD DENTAL HEALTH

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## DEPARTMENT OF CLINICAL VETERINARY SCIENCES

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**Garnesh, Thotta**  
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### AVIAN/EXOTICS UNIT

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**Miss Shelley Moore**  
Asst. Lecturer

**Ms Parbatee Siewdass**  
Contract Office

## FACULTY REGULATIONS

To be read in conjunction with Regulations for Postgraduate Degrees, The Manual of Procedures for Graduate Diplomas and Degrees, the Graduate Studies Guide for Students and Supervisors and the Thesis Guide.

### ADDITIONAL REQUIREMENTS FOR ADMISSION

#### QUALIFYING EXAMINATIONS

When an applicant's undergraduate qualifications are weak the Board may require the candidate to pursue qualifying courses and write Qualifying Examinations.

Heads of Departments should set out the qualifying courses recommended on the application form, which must be approved by the Campus Committee.

Qualifying courses must be extensive enough to remedy weaknesses in an applicant's academic record and to prepare the applicant for research work in the discipline.

The qualifying courses and the assessment procedure must be provided to the Campus Registrar. The Campus Registrar will supply this information to the applicant in the letter of admission.

A candidate for a Qualifying Examination will be registered as a qualifying student and for the individual courses. Such candidates may not register for a degree until such examinations have been passed.

The administration of the examination is the responsibility of the Campus Registrar.

Heads of Departments must ensure that the signed mark sheets are sent to the Chairman of the Campus Committee.

The results of all Qualifying Examinations shall be communicated to the candidate in writing.

### REQUIREMENTS FOR COMPLETION OF DEGREES

#### DEPARTMENTAL EXAMINATIONS

Candidates deemed acceptable for admission to graduate diplomas and degree programmes but deficient in the knowledge of some aspects of the field to be pursued or in statistics and research methodology, may be required to pursue courses from the undergraduate or graduate programmes or to follow a reading programme. MPhil and PhD candidates in the Departments of Preclinical Science and Paraclinical Sciences, and the School for Veterinary Medicine are also required to take a course in scientific critique and presentation which is also recommended for all research degree candidates. Candidates must pass the appropriate examinations before being allowed to write examinations for the degree or to submit any thesis, research paper, short dissertation or project report.

The procedures for the Departmental Examinations shall be the same as for Qualifying Examinations.

#### MPhil/PHD

Candidates shall register for the MPhil degree in the first instance, but a candidate may have his/her registration upgraded to a PhD degree, if in the opinion of the supervisor/s and of the Faculty Sub-Committee for Higher Degrees his MPhil thesis research work qualifies the candidate for a PhD registration.

In addition to completing departmental examination prescribed, MPhil candidates are expected to give two seminars, one in the middle of the course and the other at the end of the course before final submission of his thesis to the University. PhD candidates are expected to give three such seminars. These seminars will be judged by a panel of at least two examiners drawn from the same Faculty.

#### Doctor of Medicine (MD)

Assessment is done by thesis, prescribed by the appropriate regulations of The University of the West Indies for Doctoral theses. The thesis must embody a critical account of the results of personal observation or original research in any branch of knowledge related to the curriculum for the degree of Bachelor of Medicine and Bachelor of Surgery and should normally be submitted within five (5) years, but not less than three (3) years, of approval of the research proposal.

#### Doctor of Medicine (DM) Specialist Degree

Applicants to the Doctor of Medicine (DM) programmes are required to hold a medical degree with eligibility for registration in the country of study. The University's Regulations for Graduate Diplomas and Degrees apply to DM students, but there are also specific regulations governing the DM programme in each Speciality, e.g. All applicants must have a posting at a recognised hospital in the country of study.

#### TAUGHT GRADUATE COURSES FOR MPhil AND PhD STUDENTS

According to University regulations, candidates who are accepted into the MPhil programme will be required to register for taught graduate courses amounting to a minimum of 6 credits. Candidates gaining direct entry into the PhD programme are required to register for a minimum of 9 credits. Such candidates must pass all taught graduate courses before proceeding to their research project. In the Faculty of Medical Sciences these courses will normally include Statistics, Research Methodology and Scientific Presentation and Critique. Students, who enter either the MPhil or PhD degree, holding a taught Masters degree or Postgraduate Diploma, may be granted exemption from the course requirements of the research degree. However, such students may be asked, by the Department in which they are registering and with the approval of the Campus Committee, to take additional course credits, if such courses provide a specific knowledge-base or skill required for the proposed research degree.

Students who upgrade from the MPhil to the PhD, will be allowed to have their course credits added to the course requirements of the PhD.

## **SUPERVISION**

### ***Supervisor***

On the acceptance of an MPhil, PhD or MD candidate, the Department will nominate a supervisor and where necessary joint or co-supervisors for appointment by the Campus Committee.

The Chief Supervisor must hold a graduate degree of the same or higher level as the degree being supervised.

The designation 'Joint Supervisor' should be used in cases where University staff members are considered equally responsible to the Board for the supervision of the candidate, while the designation 'Co-Supervisor' should be applied to persons from outside the University who are assisting in the supervision of the candidate.

A topic which crosses the boundaries of Departments or Faculties will require the appointment of more than one Supervisor and consultation with those competent to jointly supervise such a topic should take place before the topic and the names of Supervisors are sent to the Board.

In THE event of a candidate wishing to do a research degree which is not readily identifiable with a particular Faculty or Department, the application of that candidate will be referred by the Campus Office for Graduate Studies & Research to the Dean of the School for Graduate Studies & Research, who, in consultation with the Campus Coordinator, will seek to ascertain whether it is feasible to empanel a Committee of Supervisors and whether there are adequate facilities available to support the proposed research, in order to determine whether the application should be approved. If it is determined that the application should be approved, the Dean will then return the application to the Campus Office for Graduate Studies & Research.

### ***Advisory Committee and Responsibilities of the Advisory Committee***

By the end of the first semester of registration an advisory committee will be assigned to each student reading for an MPhil PhD or MD degrees. The committee will be composed of three persons including the Supervisor. The committee may include no more than one person from outside the University.

## **GENERAL EXAMINATION REGULATIONS**

All examinations, whether by thesis or by written papers, are conducted on behalf of the Campus Registrar, who is responsible for setting and publishing the dates for each examination in consultation with Departments concerned, and for informing candidates of such dates.

Examination timetables should be published at least one month before the series of examinations begin. Notification of oral defence of a thesis should be provided at least two weeks before the examinations.

Candidates must submit theses, research papers and project reports for examination to the Campus Office for Graduate Studies and Research.

The transmission of theses and other examination papers to and from examiners is the responsibility of the Campus Registrar.

It is essential that graduate research students and their Supervisors have a shared set of expectations about all aspects of supervision, time frame for project execution, important milestones and the overall manner in which the research will be executed. The ground rules must be set early and the mutually agreed expectations made explicit. Graduate students must seek clarity from their Supervisors early on with respect to:-

- Supervisor availability, both for routine and non-routine contact
- The provision of feedback and advice
- The timelines for such advice

Similarly, Supervisors must be explicit with their students about:-

- The need for regular meetings
- The benefits of graduate level courses
- The need for mastery of methodological, writing and speaking skills
- The benefits of seminar and conference presentations
- The importance of publication
- The necessity for completion within the time limits

Supervisors, the Advisory Committee and research students must be very clear about:-

- The objectives and scope of the research project
- The financial, physical, human and intellectual resources available for executing the research project

The above are frequently the most difficult areas for the Supervisor and student to agree upon, but must be achieved through dialogue and reason early in the student's registration period in the University.

Graduate research students must be aware that there is no substitute to consistent, carefully planned, intelligent work in the pursuit of research excellence. Graduate students must show a commitment to the agreed objectives being pursued and must be supported at every step by their Supervisor. Graduate students must also be encouraged by their Supervisors to show independence of thought and action and to develop into first rate professionals themselves. They should be familiar with the rules and regulations of the University, work within deadlines and communicate regularly with their Supervisor and Advisory Committee members.

The main responsibilities of the Graduate Research Student are to:

1. Keep the schedule of meetings agreed to with the Supervisor(s) and/or Advisory Committee.
2. Take the initiative in raising with the Supervisor, problems or difficulties, however, elementary they may seem.
3. Seek guidance and comment on the research programme.

4. Accept and act on advice given by the Supervisor, unless the student, after careful consideration and discussion with the Supervisor, and for good reasons, decides otherwise.
5. Maintain good progress in one's research in accordance with the schedule agreed to with the Supervisor.
6. Assist the Supervisor and the Advisory Committee in the completion of the semester's progress report.
7. Pass creditably and at the first attempt any Departmental or Qualifying courses which may have been prescribed.
8. Give, and participate in, Graduate Research Seminars and other scholarly activities.
9. Make representation to the Head of Department if an effective working relationship is not established with the Supervisor or any member of the Advisory Committee or if, for reasons beyond the student's control, the work is not proceeding satisfactory. If the Supervisor is also the Head of Department, making such representation to the Dean of the Faculty and then to the Chairman of the Campus Committee, or with any member of the Campus Committee for Graduate Studies and Research.
10. Present written material as required by the Supervisor in sufficient time to allow for comments and discussion before proceeding to the next stage; for example, in the preparation of a thesis or project report.
11. Take responsibility for the final presentation of the thesis or project report in terms of writing, style, grammar, spelling, references, end/footnotes, and bibliography.
12. Submit a thesis, project report or dissertation within the time limits set by the University.
13. Familiarise himself/herself with the rules and regulations of the University, particularly the "General Regulations for Postgraduate Degrees" and its "Policy on Research Ethics" for example.

## POSTGRADUATE PROGRAMMES

\*DM in: Anaesthetics (Parts I, II, III)  
 Psychiatry  
 Obstetrics & Gynaecology (Parts I, II)  
 Radiology  
 Orthopaedics  
 Internal Medicine  
 Paediatrics (Part I, II, III)  
 Surgery  
 Urology  
 Emergency Medicine  
 Family Medicine  
 Ophthalmology (Part I, II, III)

\*\*MD in: Medicine (all clinical disciplines)

MSc in: Emergency Medicine  
 Clinical Psychology  
 Family Medicine  
 Advanced Nursing (MSN)  
 Public Health (MPH)

MPhil/PhD in: Biochemistry  
 Human Anatomy  
 Human Physiology  
 Human Nutrition  
 Molecular Genetics  
 Neuroscience  
 Pathology (Chemical Pathology,  
 Anatomical Pathology,  
 Haematology, Immunology,)  
 Microbiology  
 Pharmacology  
 Community Health  
 Veterinary Anatomy  
 Veterinary Clinical Medicine  
 Veterinary Microbiology  
 Veterinary Parasitology  
 Veterinary Pathology  
 Veterinary Physiology  
 Veterinary Public Health

Postgraduate Diploma in:  
 Family Medicine  
 Emergency Medicine

\*DM Doctorate in Medicine  
 A specialist qualification pursued part-time over 4 years

\*\*MD Doctorate in Medicine  
 A research degree requiring the completion of a thesis

## DEPARTMENT OF PRE-CLINICAL SCIENCES

The Department offers M.Phil. and Ph.D. degrees in Biochemistry, Human Anatomy, Human Nutrition, Human Physiology, Molecular Genetics and Neuroscience. Current areas of research include:

### MPHIL/PHD BIOCHEMISTRY

The postgraduate programme offers students the opportunity to do research in specific areas such as:

1. Mechanistic and conformational studies of cytochrome c-oxidase
2. Cytochrome c oxidase in neurological disorders of humans and animals.
3. Biochemical and nutritional risk markers for coronary heart disease, diabetes and other chronic diseases.
4. Calcium handling proteins in the diabetic heart.
5. Adiponectin, inflammatory markers and risk type II diabetes.
6. Anticancer and other medicinal properties of Caribbean plant extracts.

### MPHIL/PHD HUMAN ANATOMY

The postgraduate programme currently offers research in modern morphological and functional investigations of the brain in the normal and pathological conditions, for example, Alzheimer's disease and other mental disorders. Other specific areas include:

1. Vagal involvement in peripheral neuropathy associated with chronic diabetic states.
2. Effect of vagotomy on enteroendocrine cells in the gastrointestinal tract.
3. Anatomical studies of the Agouti (*Dasyprocta Leporina*) including (i) vagal innervation of the gastrointestinal, respiratory and cardiovascular organs, (ii) skull morphology and morphometry and (iii) the brain in stereotaxic coordinates.
4. Prevalence, ethnicity and polymorphism of anatomical variations and congenital malformations in Trinidad and Tobago.
5. Effects of diabetes mellitus on the reproductive organs of Sprague Dawley rats.
6. Effect of paw-paw seed extract on the histology and histochemistry of the testes in Sprague Dawley rats

### MPHIL/PHD HUMAN PHYSIOLOGY

Human Physiology is the study of the normal biological systems in the body. The subject covers both macro systems (for example, the heart and circulation) and Microsystems (for example, the function of cell membrane proteins in maintaining the electrical properties of the cell). The postgraduate programme offers research in:

The biological principles underlying learning and memory.

1. Intrinsic physiological mechanisms that protect the brain from certain neurological disorders such as

stroke, epilepsy, migraine and dementia.

2. Development of new diagnostic criteria for cardiovascular and autonomic nervous systems. Mechanisms underlying obstructive airway diseases.
3. Physiological actions of abused substances on the brain.
4. Effects of environmental pollutants on respiratory functions.
5. Development of non-invasive diagnostic criteria for diseases of the cardiovascular and autonomic nervous system.

### MPHIL AND PHD HUMAN NUTRITION

The postgraduate programme currently offers students the opportunity to do research on ethnic variability & nutrition-related chronic non-communicable diseases in Trinidad & Tobago.

### MPHIL AND PHD MOLECULAR GENETICS

Students have the opportunity to do research in areas such as:

1. Molecular epidemiology, evolution and phylogenetics of emerging and re-emerging pathogens (esp. dengue and other mosquito-borne viruses).
2. Evolutionary and ecological factors involved in emergence, dispersal and maintenance of viral pathogens, and in particular zoonotic and vector-borne RNA viruses.
3. Viral diversity in bats and bats as a source of emerging pathogens.

### MPHIL AND PHD NEUROSCIENCE

The postgraduate programme offers students the opportunity to do research on neurodegenerative disorders:

1. Evaluation of neuroprotective drugs using ischemia and other neurodegenerative models.
2. Protective effects of calorie restriction on aging and inflammation in the brain.
3. The roles of excessive calorie intake, metabolic disorder and diabetes on brain function.
4. Drug delivery systems for the treatment of neurodegenerative disorders.
5. The role of immune mechanisms of the central nervous system in the pathogenesis of neurodegenerative disorders.
6. Central nervous system development
7. Effects of ultrasound on brain development

In collaboration with the Psychiatric Unit Department of Medicine and the Department of Paraclinical Sciences:

1. Prevalence of dementia in Trinidad and the region.
2. Risk factors and Biomarkers associated with Alzheimer's disease and other dementias.
3. Dermatoglyphics in patients with bronchial asthma, pulmonary tuberculosis, schizophrenia, dementia and psychiatric disorders.

# DEPARTMENT OF PARA-CLINICAL SCIENCES

## POSTGRADUATE PROGRAMMES

The Department of Para-Clinical Sciences offers MPhil and PhD degrees in Pharmacology, Pathology (with specialisation in a specific sub-discipline), Microbiology and Community Health.

### MPHIL AND PHD PHARMACOLOGY

Pharmacology is the study of drugs and how they affect the body from drug-induced molecular and cellular reactions to the clinical evaluation of therapeutic efficacy. It focuses on drug use for the improvement of health and quality of life, for treatment and prevention of disease and also as research tools for the further exploration of body functions. MPhil / PhD training in the Pharmacology Unit aims to provide candidates with the requisite expertise in the concepts, approaches, and techniques of basic and clinical research and facilitates the development of independent investigators. The programme provides students with a solid foundation through coursework, research, and opportunities to develop communication and presentation skills.

Current research areas within the department include:

1. Preclinical investigation of local medicinal plants.
2. Modulation of drug-induced hepatotoxicity.
3. Obstructive respiratory disease
4. Clinical pharmacology of antimicrobial use and abuse
5. Cytochrome P4502D6 allele and genotype frequency in patients with major depression
6. Alcoholism risks and protective factors in Trinidad and Tobago
7. Alcohol challenge in the two major ethnic groups of Trinidad and Tobago.

In addition to completing the Faculty course requirements (see above), candidates other than those holding a BSc. Pharmacology or MB.BS are expected to complete a departmental course covering basic and systemic pharmacology, as well as basic sciences, including Biochemistry and Physiology, relevant to the understanding of pharmacological principles. As far as possible candidates will be provided with the opportunity to participate in at least two (2) laboratory rotations outside of their primary research; to include analytical techniques, animal experimentation, molecular biology or other relevant areas available within, but not restricted to, the Faculty of Medical Sciences. Candidates are encouraged to present or publish at least two (2) first-authored primary research papers in forums or peer-reviewed journals before submission of their thesis.

### MPHIL AND PHD PATHOLOGY

MPhil and PhD degrees in Pathology are available in the various sub-disciplines of Haematology, Chemical Pathology, Immunology and Anatomical Pathology.

1. Anatomical Pathology is concerned with the diagnosis of disease based on the gross, microscopic, and molecular examination of organs, tissues, and whole bodies. Current research resides in the areas of breast, colonic, prostate and cervical cancer, renal disease, wound healing and STI.
2. Chemical Pathology also known by the following names: Clinical Biochemistry and Clinical Chemistry is that branch of laboratory medicine in which chemical and biochemical methods are applied to the study of disease. The Chemical Pathology laboratory performs qualitative and quantitative analyses on body fluids such as blood, urine and spinal fluid among other materials. Chemical Pathology laboratory tests assist the physician in making a diagnosis. Current research areas include: research in diabetes, endocrinology and metabolism, risk factors and biomarkers in Alzheimer's disease, biomarkers in cardiovascular disease and drug abuse and the neonate.
3. Haematology is concerned with disordered physiology of haemopoetic systems and overlaps with oncology. Research is presently being conducted in the area of Haemoglobinopathies.
4. Immunology deals with the physiological functioning of the immune system in health and disease, in particular malfunctions of the immune system in immunological disorders. Research is presently being conducted in the area of the impact of Sahara dust on health of the Caribbean peoples as well as immunophenotyping and cell cycle analysis by flow cytometry.

### MPHIL AND PHD MICROBIOLOGY

Microbiology is a branch of laboratory medicine that has several specialties that includes bacteriology, virology, mycology and parasitology. It deals with nature, epidemiology, disease processes, clinical features, diagnosis, treatment and prevention of the infections caused by microorganisms. The MPhil and PhD programmes are geared towards producing clinical scientists or medical consultants who are capable of assisting physicians in the management of infections and who can assist and advise hospitals' infection control programme.

Current areas of research include:

1. molecular epidemiology and diagnostics,
2. antimicrobial resistance and nosocomial infections,
3. infection control and prevention.

In addition to the Faculty course requirements (see above) students may also be required to complete courses specific to their research areas. Students are expected to deliver seminars, be involved in journal clubs and grand rounds presentation and tutorials.

### MPHIL/PHD COMMUNITY HEALTH

Further information on the above-mentioned programmes degrees can be obtained from the Department of Para-Clinical Sciences.

## PROGRAMMES IN FAMILY MEDICINE

The department offers three part-time programmes in Family Medicine, a postgraduate diploma, an M.Sc and a DM. Candidates are normally first registered for the diploma (2 yrs) and on successful completion may progress to the MSc (1 additional year) and likewise to the DM (1 more year).

### DIPLOMA IN FAMILY MEDICINE

The programme is based on the principles of primary care medicine and the widely recognised professional characteristics of the primary care physician. It takes into account the health care requirements of the population and expressed needs of the general practitioners in the Caribbean for further professional education and advancement.

#### OBJECTIVES

- To provide education and training in family medicine relevant to the needs of the Caribbean community.
- To stimulate the professional development of the general practitioners based on their existing experience, and to enhance their competence and ability to function effectively and efficiently as primary care physicians in the reformed health sector.
- To provide continuing education base for the development of a career structure for primary care physicians.

The programme is ideally suited for:

- Primary care physicians working in the public health care system.
- Recent graduates working in a primary care setting who are considering a career in full time primary care.
- General practitioners who are interested in upgrading their skills.

#### QUALIFICATIONS FOR ENTRY

Candidates seeking entry to the Diploma programme in Family Medicine must possess an MBBS degree or equivalent from an approved university. In addition, applicants must have at least one year's clinical working experience, preferably in Primary Care.

### STRUCTURE OF THE PROGRAMME

Course	Title/Code	Year
MEDC6511	Learning & Teaching in Primary Care	1
MEDC6521	Evidence Based Medicine Part I	1
MEDC6512	The Consultation & Communication	1
MEDC6513	Medical Ethics & Doctor and Patient Relationship	1
MEDC6515	Health Promotion, Screening and Risk Management Issues in Primary Care	1
MEDC6516	Health Care of the Elderly	1
MEDC6517	Chronic Diseases in Primary Care	1
MEDC6522	Gender Issues in Health/Women's Health	2
MEDC6523	Sexualities and STD's	2
MEDC6524	Child and Adolescent Health	2
MEDC6525	Mental Health and Substance Abuse	2
MEDC6528	Forensic Medicine & Legal Issues in Primary Care	2
MEDC6529	Clinical Sessions (Part I & II)	1 & 2

#### WHO SHOULD CONSIDER THIS PROGRAMME?

- Primary care physicians working in the public health care system.
- Recent graduates working in a primary care setting who are considering a career in full time primary care.
- General practitioners who are interested in upgrading their skills.

#### FINAL EXAMINATIONS

All modules are assessed via examinations, except MEDC 6511, 6512, 6513, 6515 and 6517 which are assessed on the basis of student presentations and course assignments. Final examinations will be held at the completion of 24 months and represents the period previously known as the Postgraduate Diploma in Primary Care and Family Medicine.

Students who have successfully completed all modules and accumulated the required module credits will be allowed to sit the final examination. The final student assessment will comprise:

- Review of the student Portfolio containing all modules - 30% of the final mark
  - Assignments, reports and tutor comments
- Objective Structured Clinical Examination (OSCE) - 40% of the final mark;
- Written examination - 30% of the final mark.

To be successful, candidates are required to achieve a passing grade in all components of the examination. Further information can be obtained from the Family Medicine office.

## MSC IN FAMILY MEDICINE

### AIMS OF PROGRAMME

1. To train postgraduate students of medicine in a wide range of knowledge, skills and attitudes appropriate to the practice of Family Medicine in the Community;
2. To impart and enhance knowledge in the personal, family and social aspects of health, illness and disease;
3. To enhance professional competence, values and behaviours that are inherent to the discipline of Family Medicine;
4. To enhance the skills of critical reflection and assessment of professional activities, enabling them to meet the changing health needs of patients, families, and their communities, and the changing demands of health care in modern societies.
5. To promote skills in effective, continuing medical education, to revise past knowledge, and to keep abreast of advances in medical science and technology appropriate to primary care;
6. To enhance knowledge and skills in health promotion, disease prevention and risk management;
7. To eventually deliver such training through face to face and distance modes so as to cater for the educational needs of primary care physicians in the wider Caribbean.

### QUALIFICATIONS FOR ENTRY

Candidates must have completed the Diploma in Family Medicine in order to proceed to the MSc programme. The programme is open to medical practitioners who have qualified from a recognised University and are registered for practice within the country in which the training occurs.

### OUTLINE

Candidates are expected to complete the programme within 36 months (which includes the 24 months of the Diploma). In extreme individual circumstances, an extension of twelve months may be granted by the Faculty's Graduate Studies Sub-Committee. During this time students are expected to undergo attachments to accredited family practice units and other approved clinical facilities. The MSc will be granted after a thesis proposal and presentation/defense, and successful completion of course work, written and clinical examinations.

Students are expected to register for the following core courses:

- Research Methodology (MEDC 6310)
- Statistics (MEDC 6120)

Optional Courses (students must do two of the following depending on availability)

1. Counseling Skills for Primary Care Physicians (MEDC 6600)
2. Procedural Skills for Primary Care Physicians - minor surgical skills
3. Management Skills for the Primary Care Physician
4. Teaching and Learning in the Health Professions-an extension of the 5-week programme offered during the Diploma.
5. Evidence-Based Medicine Part II (MEDC 6802) - an extension on the 10-week programme offered during the Diploma.

### FINAL EXAMINATIONS

Students who have achieved pass marks for the coursework and the research project report will be allowed to undertake the final MSc examination. Student assessment will consist of-

- Module Examination Mark - 60% which consists of
- Research Proposal - 40% of the final mark
- Coursework - 20% of the final mark
- Written paper - 40% of the final mark

To be successful candidates are required to achieve a passing grade in all components of the assessment.

## D.M (DOCTOR OF MEDICINE : FAMILY MEDICINE)

### QUALIFICATIONS FOR ENTRY

Students will not be allowed to register for the DM in Family Medicine without first satisfactorily completing the MSc in Family Medicine.

### OUTLINE

This requires a fourth year of work, i.e. one additional year after the MSc. In this year participants are usually required to complete their MSc proposal. Although clinical work is a required part of the DM year, the major task is the actual data collection, data analysis and defense of the project in the final examination. University requirements also allow for an in-depth case book of at least 12 cases to be presented for the DM.

## MASTER OF PUBLIC HEALTH (MPH)

### AIMS AND OBJECTIVES

- To provide persons with the fundamental and critical skills for assessing community health problems and responding to public health challenges.
- To enable persons to use and apply principles, methods and analytical techniques of public health and allied disciplines for the improvement of population health and well-being.
- To enable persons to plan and manage public health programmes, develop and implement solutions to the public health problems, both within the context and settings of the Caribbean region and globally.

### QUALIFICATIONS FOR ENTRY

To be admitted to the prescribed course of study for the degree of Master of Public Health (MPH) candidates must either:

- Be registered medical practitioners, dental surgeons, or veterinary surgeons, with at least three years professional experience preferably in Public Health after successfully completing the final examination in their discipline; or
- Be graduates of an approved university with at least three years of relevant practical experience; or
- Hold an approved technical or professional qualification awarded by an approved body and approved by this university and have had at least five years relevant practical experience; or
- Have in the opinion of the University, other qualifications of special relevance to the course and in the opinion of the University, have had at least five years of relevant practical experience.

### **COURSE OF STUDY**

Candidates for the degree of Master of Public Health are required to follow the prescribed course of study by part-time attendance at the University for not less than two academic years and not more than four academic years. The required minimum time for completion of the degree of Master of Public Health is twenty-four (24) months.

Candidates may pursue studies over two to four academic years. Such candidates will need to organize their time and attendance schedules bearing in mind the usual times and offerings of courses.

Candidates for the degree of Master of Public Health are required to take core courses. Core courses provide fundamental instruction/training in the following areas:

- Biologic Basis of Health (required for students without a medical or related degrees) (0 credits)\*\*
- Biostatistics \* (with laboratory sessions) (4 credits)
- Research Methodology\* (3 credits)
- Environmental Health and Occupational Health I (3 credits)
- Epidemiology I (General Principles and Methodological issues) (3 credits)
- Health Economics I (3 credits)
- Integrated Team Experience (3 credits)
- Social and Behavioural Sciences I (3 credits)

\*Already being delivered at St. Augustine

\*\* Self-study course with examination

Core credits = 22

Additionally, candidates are required to take some advanced and elective courses, the choice of being made with the approval of the Department after considering the candidate's background, and subject to the availability of the course. A minimum of 10 students are required for a course to be offered.

These courses include areas such as:

- Chronic Diseases Epidemiology (3 credits)
- Disaster Preparedness and Management (3 credits)
- Financial Management (3 credits)
- Health Communication (3 credits)
- Infectious Diseases Epidemiology (3 credits)
- Monitoring and Evaluation (3 credits)
- Nutrition and Dietetics (3 credits)
- Qualitative Research (3 credits)
- Seminar courses (3 credits)
- Health Economics II (3 credits)
- Environmental Health and Occupational Health II (3 credits)
- Environmental Toxicology (3 credits)

Candidates are required to take courses totaling not less than 37 credits hours and are also required to submit a project report based on research in a chosen aspect of public health approved by the Unit of Public Health and Primary Care (see below). Further details regarding courses related to the degree programmes may be obtained from the department.

Candidates pursuing the Master of Public Health (MPH) degree are attached to a health or other institution approved by the Specialty Board for a period of six weeks during the 3rd semester of year 2, thereby fulfilling their field placement requirements (3 credits).

After completing the field placement, each candidate is required to submit a satisfactory report describing the experience, including engagement and work process; problems, challenges and strengths identified; solutions recommended, developed or implemented; lessons derived and insights gained.

The course of study for the Master of Public Health Degree includes supervised research work or applied practice cumulating in the submission of a project report. The topic and research/ practice area should be of public health relevance and must be approved by the student's supervisor. The report should provide evidence of the student's ability to effectively review relevant literature, to undertake independent research/ practice, to analyze data, and to present and discuss findings in a systematic and scholarly form. The project report should be of a satisfactory literary standard. The project report should not exceed 20,000 words and must follow the University's Guide for the preparation of Theses, Research Papers, and Project Reports (15 credits). This work will be examined by the external examiner.

The entire MPH course is under the general supervision of a coordinator nominated by the Unit and Deputy Dean for Graduate Studies and the Deans of the Faculty of Medical Sciences and Faculty of Science and Agriculture or persons nominated by them.

### **REGULATIONS AND ASSESSMENT PROCEDURES**

All Regulations and Assessment Procedures must be consistent with those provided in the University of the West Indies General Regulations for Postgraduate Degrees and Diplomas. Candidates must complete all modules to be eligible for the final exam. Candidates must pass all individual components of the final exam to be granted the degree of the MPH.

#### **Course Load/Semester: Part-Time/ Full-Time**

There will be 3 courses per semester and 3 semesters per year for 2 years part-time. Courses will be delivered 3 evenings per week from 4-7 pm for 10-13 weeks. Classes will also be held on Saturdays. Seminar series will require Sunday attendance. In order to qualify to sit the end of semester module examinations students must attend at least 75% of classes in each module.

#### **Number of Failures per Semester**

No more than 1 failure per semester is permissible, subject to review by the Board of Graduate Studies and Research.

### Re-Sit Examinations

Re-sit examination must be completed by the second week of the semester following that in which a candidate has failed one course.

No candidate will be permitted to repeat the examination in any one course on more than one occasion unless the Board of Graduate Studies and Research in any particular case otherwise decides.

Assessment procedures for courses, coursework, fieldwork, internships or other Modules will be assessed by course work and a written exam set and coordinated by the course coordinator. Continuous review and assessment of the candidate's performance is carried out and recorded every four months by his/her supervisor. Where assessments are found to be unsatisfactory, the Specialty Board may recommend one or more of the following:

- Counseling
- Remedial work
- Repeating unsatisfactory work
- Withdrawal from the course, if poor performance persists.

Fieldwork will be assessed by a report by the supervisor of the student, and a student report. After completing the field placement, each candidate is required to submit a satisfactory report describing the experience, including engagement and work process; problems, challenges and strengths identified; solutions recommended, developed or implemented; lessons derived and insights gained. For those individuals who only complete an enhanced report in lieu of a research project, this will be examined by the external examiner.

There will be a final exam consisting of 3 papers as now pertains in Mona. Candidates failing in a part of the examination may be referred in that part and may be re-examined in that part at the next opportunity, which will normally be one year later unless special re-sit examinations have been scheduled.

### Assessment procedures for Research Project

These will be assessed in 2 stages, first at the end of year 1 when the preliminary report on the proposal for the study is done and secondly on completion and write up of the report at the end of the second year. This project/report will be examined by an external examiner

### Time limits for completion

Research projects can be extended to a maximum of 1 year beyond the student's final exam. Students are expected to complete the MPH within 4 years.

## DEPARTMENT OF CLINICAL MEDICAL SCIENCES

The Department of Clinical Medical offers an MSc in Clinical Psychology and DM programmes in Internal Medicine, Paediatrics, Psychiatry and Radiology.

### The DMI Internal Medicine

#### INTRODUCTION:

The Doctorate in Internal Medicine (DM (Med.) or DM) is one component of a wider graduate programme in Internal Medicine (internal Medicine) delivered by the Faculty of Medical Sciences, University of the West Indies, St. Augustine. The full range of options for training in Internal Medicine includes:-

1. The D.M. programme in Internal Medicine - consisting of a full 4-year residency, including an optional elective period of one year. This programme is also offered at our sister Campuses, Mona, Jamaica and Cave Hill Barbados.
2. Modules in Internal Medicine - Practitioners from specialties outside Internal Medicine are allowed to access individual modules of the programme if desired ("selectives").

These programmes target doctors who have obtained an undergraduate degree in Medicine from a recognised University, and who have successfully completed their pre- registration training and are about to embark upon postgraduate training.

#### AIMS AND OBJECTIVES

1. The aim of the D.M. in Internal Medicine is to train doctors in the specialty of Internal Medicine to a level that allows them to provide clinical support and administrative leadership to their Medicine Departments. Successful D.M. candidates will practice at the level of consultants in (General) Medicine. The D.M. programme will accept candidates at House Officer level with minimal experience in Internal Medicine and achieve the above goal within the four-year training period.
2. To ensure that participants have an appreciation of personnel management, adult learning techniques, disaster management, financial management and quality assurance (including clinical and non-clinical audit).
3. To promote a culture of continuing professional development among Internists. This would include the use of Evidence Based Medicine, the production and maintenance of personal portfolios and fostering reflective learning in clinical practice.
4. To create a cadre of appropriately trained and certified Internists in Trinidad and Tobago, to fulfil local and regional needs.
5. To define, regulate and monitor standards related to the certification of individuals involved in the provision of medical care in Trinidad and Tobago and the region.
6. To encourage participants to develop a specialty interest.

### **ADMISSIONS**

Graduates of Medical Schools approved by the Medical Board of Trinidad and Tobago. Candidates **must** have successfully completed their internship and be fully registered with the Medical Board of Trinidad and Tobago.

### **Date of Entry**

The date of entry will normally be **January** or **July** and as determined by the date when the candidate begins to work in a recognised post in an accredited hospital. Application to enter the programme may be made before securing such a post. The applicant may then receive from the School of Graduate Studies and Research, on the recommendation of the Faculty Committee for Graduate Studies, provisional acceptance for entry to the programme contingent on the obtaining of an accredited post. After the successful applicant has secured an accredited post, the date of entry will be fixed by the School of Graduate Studies and Research.

The applicant will be informed of the date of entry by the relevant Campus Registrar. For the purposes of the above two paragraphs, the successful applicant must furnish evidence of being in a recognised post.

### **EXEMPTIONS:**

Candidates who have completed all or part of another graduate course in Internal Medicine or who have gained relevant experience at this level in a recognised institution may apply for exemption from that part of the D.M. programme. The specialty Board in Internal Medicine will consider such applications. Applications would be considered on an individual basis.

### **TRAINING**

The four-year D.M. programme is a full-time residency programme, of which approximately two thirds of this time is spent in Internal Medicine under the direct supervision of Internal Medicine consultants. The rest of the programme consists of rotations through acute specialties relevant to Internal Medicine.

Candidates are expected to rotate through the following subspecialties:

#### **Year I: Emphasis on General Internal Medicine**

General Internal/Pulmonary Medicine (3 months)  
General Internal/ Endocrinology/Metabolic Medicine (3 months)  
General Internal/ CVS (3 months)

#### **Year II: Emphasis on subspecialty care (10 weeks each)**

- CNS/Neurology
- Cardiology
- ICU
- Gerontology
- Haematology/Geintourinary Medicine (choose any 1)
- Gastroenterology
- Primary Adult Care 24 months (concurrent)
- Vacation leave (2 weeks every 6 months (concurrent)
- Pulmonology
- Gastroenterology
- Formulate a research proposal under supervision

While on secondment to the above specialties candidates will be under the direct supervision of the consultant in the specialty. Supervising consultants need not be a full-time academic staff member of UWI. They will, however, maintain their links with Internal Medicine through attendance at regular tutorials and training sessions for all D.M. candidates.

### **Year III**

During third year, candidates will have the opportunity to spend 12 months in an elective specialty of their choice in an approved training post in Trinidad or abroad. Alternatively, candidates could undertake a research project under an approved supervisor. High level research leading to peer-reviewed publications is highly recommended

### **Year IV**

The final year of training may be deferred by 1 year if the resident engages in a recognised research programme leading to a postgraduate academic degree in Medicine (MSc., MPhil, PhD)

During the fourth year (final year) the resident returns to the University Hospital for further intensive training in General Internal Medicine.

### **EVALUATION**

#### **A Six Monthly Evaluation of Residents**

Each resident in the DM (Medicine) programme will undergo formal assessment by Faculty every 6 months. Assessment will take the form of criterion-referenced clinical and oral examinations alternately and residents will not be allowed to progress in the programme unless performances are satisfactory. After each assessment the Programme Director or Head meets with each resident to provide feedback, identify weaknesses and suggest remedial action. Numeric, categorical and narrative assessment records will be recorded. In addition to the above the residents will be assessed by clinical consultants with whom they rotate using standardised qualitative instruments and would be included in progress reports.

#### **DM PART I EXAMINATION (MEDC 6655)**

Once the residents have progressed satisfactorily through the first 2 years of the training programme (including satisfactory clinical and oral half yearly evaluations) they will be allowed to take the Part I DM examination. This consists of a written examination (essay and multiple choice questions), and an objective structured clinical examination (OSCE). The candidate is required to pass both parts of this examination at the same sitting in order to progress to Part II.

### **DM PART II EXAMINATION (MEDC 6656)**

Years 3 and 4 will be assessed as per the protocols of the first 2 years. Only candidates who have obtained satisfactory reports at the end of the 4th year will be eligible for sit Part II examinations. This consists of two written papers (one essay and one multiple choice), a clinical examination (OSCE) and an oral examination. This examination is an "exit examination" with emphasis on a high level of competence in clinical skills, communications, problem solving as well as aptitude, attitude and knowledge so that to be successful the candidate must be capable of functioning at consultant level in the Caribbean context. Each candidate is required to pass each part of the clinical examination individually in order to obtain a passing grade.

### **HONOURS AND DISTINCTIONS**

These will be awarded using the process of criterion referencing.

### **OTHER EXAMINATIONS**

In recent times, several of the residents in the DM programme of Jamaica have taken the American College of Physicians examination. This is viewed as a most useful development as it allows the evaluation of residents by parallel programmes and also serves as a means of identifying subspecialty areas of weakness, which would benefit from remedial action.

DM graduates have also been very successful in the American Board of Internal Medicine examinations (having had to undergo further training within the U.S. system) and efforts are to be made to obtain for DM graduates some exemptions if they enter the U.S. residency system.

Graduates of the DM (Medicine) programme are now exempt from the Part I Membership Examination of the Royal College of Physicians of the United Kingdom, and DM graduates have previously demonstrated a very high success rate in the Part II component of this examination.

### **CURRICULUM**

The details of the Curriculum for the DM in Internal Medicine can be obtained from the Department of Medicine.

## **DM PAEDIATRICS**

### **I. PROGRAMME SUMMARY**

This is a four (4) year Professional and Research Training Programme for qualified medical practitioners. The trainee, on completion of the prescribed courses and passing the specified University examinations, shall be awarded the degree of Doctor of Medicine in Paediatrics and shall be able to practice as an independent consultant in Paediatrics and Child Health.

The programme consists of the following components:

#### **1. TRAINING**

- a) Clinical training in accredited Health institutions in Trinidad and Tobago under the supervision of consultants. This shall cover all the fields of Paediatric practice in Hospitals, Primary Health Care facilities and in the Community. The training is achieved while the trainee is actually delivering the service.
- b) Formal training in the format of seminars and courses most of which is conducted specifically to educate the trainees.
- c) The trainee should conduct a project under supervision and shall submit a report about it.

#### **2. EVALUATION**

- a) The trainee is continuously evaluated on a day-to-day basis by the consultant to whose unit he is assigned and who should submit a written report about the candidate once every three months.
- b) The trainee should complete a course book listing his clinical activities.
- c) The project report shall be assessed by examiners.

#### **3. EXAMINATION**

- a) The trainee is required to pass the Annual Clinical Examination.
- b) The trainee is required to pass the Part I Examination at the end of Year 2 and the Part II Examination at the end of Year 4.
- c) The trainee shall be admitted to the final examination after the project report has been accepted.

## **II. AIMS AND OBJECTIVES**

### **1. AIMS**

This four (4) year training programme aims to provide the trainee with the knowledge and skills to function competently in General Paediatrics at consultant level. This shall be achieved through adequate experience and training in preventive and curative child health, including the physical, intellectual, emotional and social aspects. Priority is accorded to the major health needs of children in the Caribbean.

**2. OBJECTIVES**

At the end of a successful training programme the trainee shall have obtained:

advanced training and experience in the diagnosis and management of sick children presenting with physical and psychosocial disorders.

experience and skills necessary to develop and maintain hospital and community based preventive and curative Child Health services, which are realistically related to the available resources.

the ability to develop, promote and maintain primary health care services for children and families.

training and experience in teaching Paediatrics and Child Health to medical students and graduates as well as other members of the health team.

training in the principles of applied research methodology.

adequate opportunities to develop leadership qualities with an objective and imaginative approach to Child Health problems within the context of the local customs and practices in Trinidad and Tobago, the Caribbean and internationally.

**III. COURSE OF STUDY**

**1. DM PART I (YEARS 1 & 2) (MEDC6617)**

**1.1 PART I - OBJECTIVES**

1.1.1 To achieve competence in the diagnosis and management of sick children in hospital through:

acquiring refined skills in history taking and physical examination of children from birth to end of puberty.

being familiar with the continuously changing process of growth and development of children.

obtaining competence in performing the essential diagnostic procedures.

being able to reach a diagnosis.

acquiring the ability to properly manage paediatric emergencies as well as the common acute and chronic paediatric problems.

1.1.2 Obtaining experience and skill in preventive Child Health Services in the hospital and in the community and acquaintance with the system of Primary Health Care as it pertains to children through:

a) participation in the delivery of routine preventive and curative services offered to children at Primary Health Care Centres for a defined training period.

b) Participation in all screening programmes.

**1.2 PART I - TRAINING**

1.2.1 The trainee shall go through rotations of three months such that at the end of the two years of Part I, he/ she should have spent the following periods in each of the Units listed.

General Paediatrics – three (3) rotations  
9 months

Neonatology – two (2) rotations  
6 months

Accident and Emergency – one (1) rotation  
3 months

Primary Health Care including both curative as well as preventative services – one (1) rotation  
3 months

Leave divided in periods of three (3) weeks every 6 months  
3 months

TOTAL 24 months

These rotations shall be spent only in units accredited for such by the Specialty Board in Child Health.

1.2.2 During the rotations the trainees are expected to be fully involved in the delivery of clinical services as directed by the Programme Director. This shall include at least a residential on call rota 1 in 4.

1.2.3 The trainees are expected to attend and participate in the postgraduate teaching activities that shall include:

- Seminar presentations on specified topics.
- Clinical case presentations.
- Clinical audit.
- Clinico radiological sessions.
- Clinico pathological conferences.
- Grand rounds.
- Death conferences.

1.2.4 Establish contact with Research Supervisor to begin discussions on the project.

1.2.5 Each trainee must keep his/her course book up to date with the necessary signatures.

1.2.6 Attend two accredited intensive courses of one week duration every year.

**2. DM PART II (YEARS 3 & 4) (MEDC6627)**

**2.1 PART II - OBJECTIVES**

- 2.1.1 To further develop the competence in the diagnosis and management of sick children through direct involvement in the delivery of clinical services along similar lines as in 1.2.1. with duties at Registrar level.
- 2.1.2 To develop expertise in teaching Paediatrics and Child Health through:
- a) training other candidates in the junior years and the interns working under his supervision.
  - b) demonstration of clinical skills to medical students.
  - c) involvement in health education activities.
  - d) delivering seminars to fellow candidates as part of the postgraduate activities.
- 2.1.3 To understand the principles of applied research through developing, conducting and reporting the programme project.
- 2.1.4 understand leadership abilities through being assigned the responsibility to supervise junior residents and interns and organising their timetables.

**2.2 PART II - TRAINING**

- 2.2.1 The rotations shall be in three month periods conducted in such a way that at the end of the 2 years the candidate should have spent the following periods in each of the units listed:
- General Paediatrics – three rotations 9 months
- Neonatology – one rotation 3 months
- Accident and Emergency – one rotation 3 months
- Elective (as specified in the regulation) - two rotations 6 months
- Leave – divided in periods of 3 weeks every 6 months 3 months
- Each of these shall be spent in an accredited Registrar post.

2.2.2 The candidates are expected to participate fully in the delivery of the clinical services and discharge the duties assigned to them by the Programme Director and the Clinical Supervisor. The duties shall include a residential, 1:4 on call rota.

2.2.3 The candidate shall actively participate in all the postgraduate teaching activities.

**IV. PROGRAMME REGULATIONS**

**1. QUALIFICATIONS FOR ADMISSION**

1.1 Candidates must be fully registered medical practitioners in one of the territories of the Commonwealth Caribbean, or in any country associated with The University of the West Indies where the facilities are approved by this institution for a part or the whole of the period of training.

1.2 Evidence of qualifications from an institution acceptable to the Faculty of Medical Sciences, The University of the West Indies, must be provided.

1.3 Candidates must have a minimum of one year's experience in the practice of paediatrics. A minimum of six months of this time should be spent in an appointment as a senior house officer or registrar (resident) level at an approved hospital under consultant supervision. Time spent in preventive paediatrics will be recognised for a portion or all of the remaining six months on the recommendation of an approved preceptor. Evidence of satisfactory completion of this twelve months period should be available on request as a prerequisite to sitting the examination.

1.4 Candidates should have attended an approved graduate course prior to the examination. This may be concurrent with the period of clinical training.

**2. DATE OF ENTRY**

2.1 The date of entry shall normally be the date when the candidate begins to work in a recognised post in a hospital accredited for postgraduate training in Paediatrics. The application to enter the programme may be submitted before securing such a post. The Faculty Committee for Graduate Studies may provide the applicant with a provisional acceptance for entry to the programme contingent on obtaining a recognised post. The Board of Graduate Studies and Research shall determine the applicant's date of entry.

2.2 After an application has been processed by the University, the applicant will be officially informed of the date of entry.

3. INTAKE

3.1. A maximum of 4 trainees shall be admitted every year.

4. VENUE

4.1. Neonatology  
Mount Hope Women's Hospital

4.2. General Paediatrics

- a) Wendy Fitzwilliams Children's Hospital at Eric Williams Medical Sciences Complex (minimum – one year)
- b) Paediatric Dept. at San Fernando General Hospital (maximum six months)
- c) Scarborough Hospital (maximum – 6 months)

4.3 PRIMARY HEALTH

- a) Arima Health Facility
- b) Couva Health Facility
- c) Chaguanas Health Facility
- d) Woodbrook Health Facility
- e) Princess Elizabeth Home, Port of Spain

4.4 Accident & Emergency (Paediatrics)

- a) Eric Williams Medical Sciences Complex
- b) San Fernando General Hospital

4.5 The trainee may be permitted to spend a maximum of six months elective period in one or more of the following areas during the third year with a minimum of one month in one discipline provided that the Specialty Board in Child Health has approved the posting beforehand.

- a) Basic Science
- b) Pathology
- c) Microbiology
- d) Dermatology
- e) Psychiatry
- f) Paediatric Surgery
- g) Child Guidance
- h) Research

4.6 In each of these rotations the consultant under whom the trainee works shall be assigned as his Clinical Supervisor.

5. PROJECT

5.1. The trainee will be required to submit one of the following at the end of the 3rd year of the programme.

- a) Report on a project of original research in a relevant child health problem.
- b) Published work in which the trainee has had a substantial contribution and that it shall be acceptable to the Specialty Board.
- c) A casebook of twenty cases with commentaries.

5.2 The trainee must make his choice and that choice shall be approved by the Specialty Board before the beginning of the 3rd year.

5.3 The Specialty Board shall nominate a supervisor for each trainee to guide him in the conduct of his work.

5.4 The work must be submitted to the Specialty Board at the end of the 3rd year.

5.5 The Specialty Board can:

- a) accept the report and the trainee will proceed to complete his training and apply for the examination.
- b) suggest modifications or additions to which the trainee must comply. He can proceed with the training but will not be allowed to write the Part II examination until he has carried out the modifications/additions to the satisfaction of the Specialty Board.
- c) reject the report in which case the candidate has to do his project all over again and submit his report. He can proceed with his training but shall not be allowed to write the Part II examination until his project has been accepted.

6. EXEMPTIONS

6.1. Applicants who have successfully completed one year or more as registered trainees in recognised postgraduate paediatric programmes (e.g. paediatric residency in U.S.A.) and that training was pursued within the last 3 years of application are eligible for exemption of up to one year from this training programme.

6.2. Applicants who already obtained the DCH from a recognised institution can be exempted of one year of training.

6.3. Applicants with completed qualifications from recognised professional or academic institutions (e.g. MRCPCH) may be exempted from Part I examination of the DM and the first two years of training.

6.4. The decision on exemptions and its duration shall be recommended by the Specialty Board to the Sub-committee in Graduate Studies in response to an application by the candidate. The Board also makes the relevant recommendation on which qualifications are accepted for 6:2 and 6:3 above.

## 7. ASSESSMENT

7.1. Course Book: is a full record of clinical training, kept by the trainee, containing the following details:

- a) The clinical rotations with dates, signed by the clinical supervisors.
- b) The procedures done by the trainee during his clinical rotation signed by his clinical supervisor.
- c) Courses and conferences accredited for training including names, dates and place of courses together with evidence of attendance.

### 7.2 Annual Clinical Examination

- a) The trainees shall undergo a clinical examination at the end of each year of training.

### 7.3 Continuous Assessment

- a) These are reports written by the clinical supervisor after every three-month clinical rotation.
- b) For the candidate to be promoted to the next year of training the Specialty Board must be satisfied that he has completed the training of the previous year satisfactorily by reviewing the course book, the result of the annual clinical examination and the continuous assessment report.

Must have satisfactorily attended at least 4 intensive courses.

## 8. EXAMINATIONS

8.1. The DM Paediatric examination consists of two parts. The trainee must obtain approval of the Specialty Board before he can be admitted to either of these parts.

### a) Part I Examination

Part I examination is held at the end of the second year.

The trainee must have completed the first part of the training course (2 years) to the satisfaction of the Specialty Board.

The trainee must have passed all his annual clinical examinations.

Part I examination consists of one MCQ paper, a clinical and oral examination.

Part I examination must be passed before proceeding to the second part of the course.

Any trainee failing the Part I examination on two occasions will be asked to withdraw from the programme.

### b) Part II Examination

Part II examination is held at the end of the second year of the second part of the course.

The trainee must have passed Part I examination unless he was exempted from that examination by Specialty Board.

Trainee must have completed the prescribed training for the second part of the course (2 years) to the satisfaction of the Specialty Board.

The trainee must have passed all the annual clinical examination.

The project must have been accepted by the Specialty Board.

The trainee must satisfy all The U.W.I. General Regulations.

Part II examination shall consist of two written papers, clinical examination and oral examination.

The Part II examinations should be attempted within one year of acceptance of the project report.

Only two attempts at the Part II examination are allowed.

## DM PSYCHIATRY

The DM Psychiatry is divided into three parts:

### Part I (MEDC6614)

During this period, which lasts twelve (12) months, the trainee works as a psychiatric resident at an approved general hospital. Instruction is given in the basic medical sciences (including Anatomy, Physiology) and in Neurology, Psychology and Psychiatry.

Admission to the examination at the end of Part I is subject to the Specialty Board receiving satisfactory reports from the trainee's academic and clinical Supervisors.

### Part II (MEDC6613) (Years II and III)

Admission to Part II of the Programme depends upon the candidate's performance in the Part I examination.

The trainee is normally required to spend six (6) months working in an approved psychiatry service of an approved general hospital.

During the first half of Year II of the programme, the trainee will submit to the Specialty Board, through his/her Supervisor, for the Board's approval, a proposal for a period to be undertaken during Part III of the programme.

### Part III (Year IV) (MEDC6604)

During this year the trainee continues to work under supervision in an approved psychiatric service.

At least six (6) months of this year must be spent in the Caribbean and the candidate's project must be Caribbean-related. The project report is presented at least three (3) months before the end of this period.

## 1. OBJECTIVES

- 1.1. This programme aims to produce, for the territories served by The University of the West Indies, individuals with sufficient knowledge and skill to fill consultant posts in the appropriate disciplines.
- 1.2. Trainees are eligible to take the examination leading to the DM degree in the disciplines after satisfactorily completing the training programme.
- 1.3. The postgraduate degree is awarded on satisfactory completion of the training programme, including passing the necessary examinations.

## 2. COURSE OF STUDY

- 2.1. The period of training for DM programmes will be a minimum of four (4) years.

- 2.2. Training will normally take place at the University Hospital of the West Indies or at institutions in the contributing territories recognised by the University for this purpose; but up to one year's elective period may be spent at institutions in or out of the Caribbean (approved by the appropriate Speciality Board) provided prior approval is obtained from the Board.

- 2.3. Each DM candidate must spend forty-six (46) weeks each year in the programme. Candidates can have a total of six (6) weeks leave per annum (three (3) weeks in every six (6) months).

## 3. EXEMPTION

- 3.1. Candidates who have completed periods of study in recognised hospitals or institutions may apply to the Specialty Board for exemption from the appropriate section of the programme.

- 3.2. Candidates who hold a postgraduate qualification in Psychiatry, or who have been undergoing training in a recognised Psychiatry programme, may apply for exemption from Part I DM (Psychiatry) Examination, and from up to two years participation in the programme.

## 4. ASSESSMENT

- 4.1. Trainees will be assessed at least annually. Those with unsatisfactory records will be encouraged to improve; but if poor performance persists they will not be allowed to complete the programme.

## 5. EXAMINATIONS DM PSYCHIATRY

There are examinations at the end of Years I, III and IV and these are normally held in September.

The Part I Examination is held at Year I and consists of two sections:

Section A: Basic Sciences (including Neuroanatomy and Neurophysiology)  
A written paper  
An oral examination

Section B (i) A written paper in Psychiatry and Neurology  
(ii) Clinical examinations in Psychiatry  
(iii) Clinical examinations in Neurology  
(The Specialty Board will decide whether a candidate who is not successful in the whole of Part I examination may continue in the programme. It will also decide whether the trainee must repeat instruction in the relevant section of the course before being allowed to re-sit the examination in that section.)

The Part II Examination is held at the end of Year III. Its scope is the whole area of Psychiatry and consists of:

- (i) Two written papers, which may include multiple-choice questions
- (ii) A clinical examination
- (iii) An oral examination

The Part III Examination is held at the end of Year IV. It constitutes the presentation and examination of the project report. Following submission, the Examiners may:

- (i) accept the work or
- (ii) rReject the work, in which case they will indicate what additional work or new work needs to be carried out and when it should be resubmitted.

## DM RADIOLOGY

### 1. COURSE OF STUDY

1.1. The DM (Radiology) Programme is divided into two parts:

- a) Part I (MEDC 6606) (minimum 45 weeks) consists of a course of study and Examination I Radiological Anatomy, Techniques and Practical Procedures, Radiography and Physics and Apparatus Construction.
- b) Part II (MEDC 6606) (minimum 135 weeks) is training in Diagnostic in the Department and institutions accredited for this purpose including Radiography, Computerised Tomography, Ultrasound, Nuclear Medicine and Magnetic Resonance Imaging.

### 2. ASSESSMENT

- 2.1. Trainees will be assessed at least annually. Those with unsatisfactory records will be encouraged to improve; but if poor performance persists, they will be required to withdraw from the programme
- 2.2. The candidates must have reached a satisfactory standard in each of the course assessment.

### 3. EXAMINATIONS

- 3.1. Part I Examination assesses knowledge and diagnostic skills in the topics described above. It is held at the end of the first year and consists of:
  - a) two written papers
  - b) an oral examination
- 3.2. Part II Examination is held at the end of the fourth year and covers the trainee's knowledge of the full range of diagnostic investigations and intervention procedures. It consists of:
  - a) two written papers
  - b) an oral and film-reading examination

### 4. EXEMPTION

- 4.1. Candidates who have completed periods of study in recognised hospitals or institutions may apply to the Speciality Board for exemption from the appropriate section of the programme.

### 5. QUALIFICATIONS FOR ENTRY

- 5.1. The applicant should be:  
A graduate in Medicine with acceptable qualifications of a University or a Medical School recognised by The University of the West Indies fully registered in the territory or territories in which training takes place.
- 5.2. Candidates applying for entry to the DM (Radiology) programmes must, in addition to the above requirement, have completed six (6) months in General Medicine, General Surgery or Child Health and have completed at least one year in a clinical position after the internship period.

## MSC CLINICAL PSYCHOLOGY

### AIMS

The general aim is to produce graduates with the theoretical knowledge and practical skills to work in a variety of roles and settings within the Caribbean.

### OBJECTIVES

At the end of the program candidates should have acquired and demonstrated substantial understanding of, and competence in the following areas:

- (a) the breadth of scientific psychology, its history of thought and development, its research methods, and its applications to the Caribbean situation. (To achieve this end, the students shall be exposed to the current body of knowledge in at least the following areas: biological aspects of behavior; cognitive and affective aspects of behavior, social aspects of behavior; history and systems of psychology in the Caribbean; psychological measurement; research methodology; and techniques of data analysis);
- (b) the scientific, methodological and theoretical foundations of practice in the substantive area(s) of professional psychology in which the program has its training emphasis. (To achieve this end, the students shall be exposed to the current body of knowledge in at least the following areas: individual differences in behavior; human development; dysfunctional behavior or psychopathology; and professional standards and ethics);

- (c) diagnosing or defining problems through psychological assessment and measurement and formulating and implementing intervention strategies (including training in empirically supported procedures). (To achieve this end, the students shall be exposed to the current body of knowledge in at least the following areas: theories and methods of assessment and diagnosis; effective intervention; consultation and supervision; and evaluating the efficacy of interventions);
- (d) issues of cultural and individual diversity that are relevant to all of the above; and
- (e) attitudes essential for life-long learning, scholarly inquire, and professional problem-solving as psychologists in the context of an evolving body of scientific and professional knowledge.

**ADMISSION REQUIREMENTS**

A Bachelors degree in Psychology or a related field from a recognised university with at least second class honours. Students must demonstrate aptitude in research/computer skills and have taken a number of core psychology courses including Introduction to Psychology, Abnormal Psychology, Statistics and Experimental Psychology.

This course of training extends over two (2) years full-time and consists of forty-eight (48) credits consisting of:

- 10 taught courses
- a seminar on Issues of Caribbean Psychology: Ethics and Professional Practice
- a research thesis supervised by a psychologist
- on-going psychologist-supervised practicum experiences

The curriculum which is outlined below, is highly structured, and is designed to maximise the development of professional skills while also developing the student's understanding of fundamental areas in the discipline of psychology.

**COURSE CODES AND CREDITS**

**YEAR I**

**Semester I**

Course Code	Course Title	Number of Credits
CLSY6100	Psychopathology	3 credits
CLSY6200	Psychological Assessment – Adult	3 credits
CLSY6300	Clinical Research Skills	3 credits
CLSY6400	Caribbean Psychology	3 credits
CLSY6501	Practicum I – Diagnosis and Assessment of Adult Psychopathology (1day per week)	1 credit

**Semester II**

Course Code	Course Title	Number of Credits
CLSY 6700	Caribbean Ethics and Professional Practice Seminar-I	1 credit
CLSY 6201	Psychological Assessment – Child	3 credits
CLSY 6101	Individual Psychotherapy – Research and Theory	3 credits
CLSY 6401	Issues of Human Development	3 credits
CLSY 6502	Practicum II – Diagnosis and Assessment of Adult and Child Psychopathology (2 days per wk (Summer Session)	2 credits

**Summer Session**

CLSY 6503	Practicum III (4 days per week)	(4 credits)
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**YEAR 2**

**Semester I**

Course Code	Course Title	Number of Credits
CLSY 6102	Applied Health Psychology	3 credits
CLSY 6103	Clinical Neuropsychology	3 credits
SW-64C	Group Therapy	3 credits
CLSY 6504	Practicum IV (2 - days per wk) (Can be taken in either Semester I or Semester II)	3 credits

**Semester II**

Course Code	Course Title	Number of Credits
CLSY 6800	Research Paper	6 credits
CLSY 6701	Caribbean Ethics and Professional Practice Seminar-II	1 credit

## DEPARTMENT OF CLINICAL SURGICAL SCIENCES PROGRAMMES

DM Anaesthetics, DM Obstetrics and Gynaecology, DM Orthopaedics, DM Surgery, DM Emergency Medicine, MSc Emergency Medicine and Diploma in Emergency Medicine.

### DM ANAESTHETICS

The Department offers a postgraduate degree course for a registered medical practitioner in an approved residency programme leading to the Doctorate in Medicine (Anaesthetics).

The course is intended to prepare candidates for consultant anaesthetic responsibilities including teaching and research. The four-year training required can be carried out at all Clinical Campuses of The University of the West Indies; or at one or more approved centres. The details of the examination regulations can be obtained from the Head of the Department.

In addition to the preparation for examination, the Department has a varied and interesting service commitment, including cardiac and neurosurgical anaesthesia, and is developing wider interests such as post-operative pain management and has the responsibility for the Intensive Care Unit at the Eric Williams Medical Sciences Complex. Research in progress utilises micro-computers for:

- Data Storage and Retrieval
- Myo-neural Blocking Agents
- Transcutaneous Nerve Stimulation
- Paediatric Anaesthesia
- Resuscitation Procedures

Requirements for:

DM Part I (MEDC6605) Must include at least 3 months in each of the following specialties – Paediatrics, Obstetrics & Gynaecology during the latter half of the 1<sup>st</sup> year.

DM Part II (MEDC6615) Not available in Nassau, Bahamas

DM Part III (MEDC6625) Must include no less than 6 months additional months in each of the aforementioned specialties as in Part I as well as Cardiac & Thoracic Anaesthesia, Intensive Care and Neurosurgery and Pain Management

### 1. QUALIFICATIONS FOR ENTRY

1.1. The applicant should be:

- a) a graduate in Medicine of a University or Medical School recognised by The University of the West Indies.
- b) registrable in the territory or territories in which training will take place/or registered with the General Medical Council (UK).

1.2. Normally candidates will be eligible for entry after completing their internship.

### 2. DATE OF ENTRY

2.1. The date of entry will normally be determined by the date when the candidate begins to work in a recognised anaesthetic post in an accredited hospital. A candidate may apply to enter the programme before securing a post. The candidate may then receive from the School for Graduate Studies and Research on the recommendation of the relevant Faculty Committee provisional acceptance for entry to the programme contingent on his obtaining an accredited post. After the candidate has secured an accredited post the School will approve the date of entry for Graduate Studies and Research.

2.2. The applicant will be informed of the date of entry by the relevant Campus Registrar.

2.3. For purposes of the above two paragraphs, a candidate must furnish evidence of being in a recognised post, and certification from his supervisor of satisfactory performance.

### 3. COURSE OF STUDY

3.1. The period of training will be a minimum of four years (see Exemptions) from the date of entry. At least three years of the course must be spent in the Commonwealth Caribbean. Throughout the course candidates must hold recognised posts in accredited hospitals or be on an “elective” approved by the Faculty Committee for Graduate Studies.

3.2. The program consists of three parts:

a. DM Part I - (MEDC 6605) is of one year's duration ending in an examination at the end of this period. The first year must be spent in an accredited hospital and in those hospitals where only adults are treated, candidates must spend no less than three months in Anaesthesia in an accredited paediatric hospital. Conversely, for candidates working in a hospital dealing with only paediatric patients no less than six months must be spent in Anaesthesia in an accredited adult or multidisciplinary hospital. Admission to the second part depends on a satisfactory performance in the Part I.

b. DM Part II - (MEDC 6615) of one year's duration. At the end of this year the Part II Examination will be held and entry to the third part of the course will depend on a satisfactory performance in this examination.

c. DM Part III - (MEDC 6625) is of two years duration. At least two years of this must be spent in an accredited hospital. This part of the program may include a period not exceeding one year spent as an elective, providing that approval has been obtained from the Faculty Committee for Graduate Studies and Board for Graduate Studies and Research beforehand. The elective year may be spent in a hospital which can provide the candidate with experience not readily available in the hospital to which he/she is employed.

3.3. At least six monthly assessments will be made on a candidate's performance in the course. Unsatisfactory performance will be reported to the Faculty Committee for Graduate Studies, which may advise the Committee for Graduate Studies and Research to extend the course of study beyond the normal time. Assessments will be made by the candidate's supervisor on prescribed "assessment forms" by the end of June or December each year.

3.4. All periods of satisfactory employment in a recognised post are cumulative towards the course requirements. Candidates not in a recognised post must apply to the Committee of Graduate Studies and Research to obtain Leave of Absence and must keep the Committee for Graduate Studies and Research informed of their situation. Leave of Absence must be approved by the Campus Committee for Graduate Studies on the recommendation of the Faculty Committee for Graduate Studies.

#### 4. EXEMPTIONS

4.1. Candidates who have completed periods of study or work experience in recognised hospitals or institutions in non-Commonwealth Caribbean (abroad) may apply to the Committee for Graduate Studies for exemption from an appropriate part of the course.

Exemptions in the programme can be recommended only after a period of review and assessment of the candidate performance within the programme. Candidates must have achieved the level at which proposed exemptions will put them.

4.2. Candidates who have spent up to three (3) months in Anaesthesia during the second internship year in an accredited hospital may at the discretion of the Faculty Committee for Graduate Studies, have all or part of this period applied towards their first year of training in the DM. However, this provision will no longer be applicable from the year 2005.

4.3. Candidates holding a qualification from an institution recognised by the UWI may apply and be granted exemption from the Part I examination.

4.4. Exemptions from Part II may be allowed to those who hold the Primary FFARCS/FRCA, Primary FFARCSI, Primary FFARACS or equivalent. Candidates who hold The Fellowship in Anaesthetics of the Irish, Australasian, or the certificate of the American Board of Anaesthesiology or the Fellowship in Anaesthesia of the Royal College of Physicians in Canada or such other degrees or diplomas as the University (the Faculty Committee of the for Graduate Studies) may from time to time accept, may be exempted from both the Parts I and II of the DM.

4.5. However, in order for such candidates to sit the Part III of the DM however, they will have to provide an acceptable case book/project report within six months of registration and acceptance for the course. The award of the DM (Anaesthetics) degree will be contingent on the acceptability of the casebook/project report and their passing the DM Part III examinations. For these candidates the process should normally be completed in one year.

4.6. All requests for exemptions should be made in writing by the candidate to the University Registrar through the Chairman of the Faculty sub-committee of the Board for Graduate Studies. This request will then be forwarded to the Board for Graduate Studies.

#### 5. CASE BOOK/PROJECT REPORT

5.1. All candidates must submit to the Faculty Committee for Graduate Studies, or Director of the Postgraduate program at least six months before the final (Part III) examination, either:

a) A casebook of twenty cases. These cases should illustrate the range of problems encountered in the practice of Anaesthesia and Intensive Care. At least one of them must reach the standard required.

OR

b) A project report must have been previously agreed on by the Sub-Committee for Graduate Studies and the work carried out under the guidance of a Supervisor recommended by the Board.

- 5.2. The format of the casebook must conform to university regulations dealing with the preparation of projects or dissertations. The cases must be typewritten and printed on one side only of good quality white bond paper (usually of 20 lb weight), 8" x 11" (Standard Letter Size), with a left hand margin of 2". The top, bottom and right hand margins should not be less than 1". The same grade of paper should be used throughout the thesis. Candidates are advised to discuss the preparation of case records with their Consultant or Supervisor while the book is in preparation and should not be delayed until it is completed. These cases offer the candidates the opportunity to study in detail conditions of their own choice and to express views based on personal investigation and on a review of the literature. These case reports could provide the opportunity for the candidate to put his clinical experience in the form of a research project which could be later developed for publication. From these records the examiners will assess the critical faculties, powers of observation and the level of evaluation of various techniques used in anaesthesia/intensive care, of the candidates.
- 5.3. The format of the project report must conform to University Regulations dealing with the preparation of projects or dissertations. The cases must be typewritten and printed on one side only of good quality white bond paper (usually of 20lb weight), 8" x 11" (Standard Letter Size), with a left hand margin of 2". The top, bottom and right hand margins should not be less than 1". The same grade of paper should be used throughout the thesis.
- 5.4. Following the submission of the work the examiners may:
- a) accept the work and the candidate proceed to the examination
- OR
- b) reject the work. They must then make the necessary recommendations as to the changes necessary to make the project acceptable. A date for resubmitting the work must also be given.
- 5.5. The case book, thesis or project report should be submitted for assessment at least six months before the date of the final examination. If the work is found to be unsatisfactory and requires major changes, the candidate will not be allowed to sit the final examination.
6. SYLLABUS
- 6.1. A detailed syllabus for the course is available from the Faculty Office or the respective UWI Anaesthetic and Intensive Care Departments/Units.
7. EXAMINATIONS
- 7.1. Examinations are in three parts, Part I, Part II and Part III (Anaesthetics). They are normally held twice per year in May/June and November/December at any one of the three university campuses. The hosting of the clinical and oral examination are done in turn by each campus.
- 7.2. The Part I examination is held at the end of the first year and comprises:
- a) A written paper and a multiple choice paper.
  - b) An oral examination.
- On successful completion of Part I the candidate must sit the Part II examination within two (2) years. Candidates will be invited to an oral examination at the discretion of the examiners. Candidates who fail the multiple-choice exams will not normally be invited for the oral examination.
- 7.3. The Part II examination is held at the end of the fourth year and comprises:
- a) Two written papers
  - b) A clinical examination
  - c) An oral examination
- 7.4. The Part III examination is held at the end of the fourth year and comprises
- a) Two written papers
  - b) A clinical examination
  - c) An oral examination
- 7.5. Candidates are normally expected to present themselves for the first examination being held following completion of their course. In exceptional circumstances (such as ill-health) a candidate may request permission from the Committee for Graduate Studies and Research to defer the date of the first sitting. Candidates must register for the examination at the appropriate time.
- 7.6. Should any candidate fail the Part II examination at the first attempt, completion of this must be within one calendar year of the first attempt.
- 7.7. No candidate will be allowed more than two attempts at any one examination.

- 7.8. Candidates must conform to the University's Regulations on Examinations for Higher Degrees.
- 7.9. The entire Part III must be completed within three years of successful completion of Part II
- 7.10. The third year is an elective year during which the candidate may consider travel abroad. A casebook or research project is done during this time in preparation for the final fourth year. This time in preparation for final fourth year. This will be a pre-requisite to sitting the Part III examination at the end of the fourth year.

## LIST OF ACCREDITED HOSPITALS

### BARBADOS

- Queen Elizabeth Hospital (QEH)

### JAMAICA

- University Hospital of The West Indies (UHWI)
- Kingston Regional Hospital (KRH)
- (Residents employed at this hospital must spend three months at Bustamante Hospital for Children (BHC) in the 1<sup>st</sup> year and six (6) months at UHWI in the 2<sup>nd</sup> or 4<sup>th</sup> years)
- Bustamante Hospital for Children (Residents employed to this hospital must spend six (6) months at UHWI or KRH during the 1<sup>st</sup> year, and a further six (6) months at UHWI in the 2<sup>nd</sup> or 4<sup>th</sup> years)
- Cornwall Regional Hospital (CRH) (accredited for six months during first year only).

### TRINIDAD/\*BAHAMAS

- Port of Spain General Hospital
- San Fernando General Hospital
- Eric Williams Medical Sciences Complex
- Mount Hope Women's Hospital
- Princess Margaret Hospital – Nassau

\* Bahamas is an affiliate of Trinidad & Tobago

## DM OBSTETRICS AND GYNAECOLOGY

This course of training extends over four (4) years and the Doctorate Degree makes the doctor eligible for consultant status in the sociality of Obstetrics and Gynaecology. The course requirements are similar to those for membership in the Royal College Obstetricians and Gynaecologist. Clinical work in the Department covers a wide range of operative procedures, medical and surgical disorders and obstetric abnormalities. There are organised ward rounds, tutorials, lectures and pathology and perinatal mortality conferences.

### 1. EXAMINATION

The examination consists of:

Part I (MEDC6630) Examination in the Basic Sciences of Physiology, Anatomy, Pathology, Embryology, etc.

Part II (MEDC6635) Written papers in Obstetrics and Gynaecology, Clinical and Oral Examinations and the presentation of a book case records and commentaries.

Further details on this programme are available from the Department of Clinical Surgical Sciences.

## DM (ORTHOPAEDICS)

The course is intended to prepare a candidate to work as an Orthopaedic consultant with adequate ability to impart teaching and conduct/guide independent research. The programme lasts for four and a half years and is divided into two parts:

Part I (MEDC6607) Eighteen (18) months devoted to various Pre-clinical subjects concerning Orthopaedics, Traumatology and General Principles of Surgery.

Part II (MEDC6619) Is devoted to various aspects of Orthopaedics, Traumatology and related subjects like Sports Medicine, Physiotherapy, Rehabilitation, Orthotics and Prosthetics. Students are required to write a casebook or thesis on any particular topic concerning Orthopaedics or Traumatology as part of their final assessment.

### 1. EXEMPTION

Exemption from Part I may be granted to the candidates depending upon their qualifications and experience.

### 2. EXAMINATION

Both parts of the DM (Orthopaedics) programme have separate examinations.

Further details on this programme are available from the Department of Clinical Surgical Sciences.

## DM SURGERY

### AIM

The programme's aim is to produce, for the territories served by The University of the West Indies, individuals with sufficient knowledge, skill and experience to fill Consultant posts in the appropriate disciplines. Trainees are eligible to take the examinations leading to the relevant DM degree in the discipline after satisfactorily completing the training programme. The postgraduate degree is awarded on satisfactory completion of the training programme and passing of the necessary examinations.

### 2. QUALIFICATIONS FOR ENTRY

#### 2.1. The applicant should be:

- a) a graduate in Medicine of a University or Medical School recognised by The University of the West Indies.
- b) fully registered in the territory or territories in which training will take place.

#### 2.2. Candidates applying for entry to the DM programme in Surgery must, in addition to the requirements set out in paragraph 2.1 have completed six months in an approved post, in Casualty or a similar Department, Surgery or Community Health, in an approved hospital.

#### Date of Entry - July 1 or January 1

The date of entry will normally be determined by the date when the candidate begins to work in a recognised post in an accredited hospital. A candidate may apply to enter the programme before (s)he secures such a post. (S)he may then receive from the School of Graduate Studies and Research provisional acceptance for entry to the programme contingent upon his/her obtaining an accredited post. After the candidate has secured such a post, the date of entry will be determined by the School of Graduate Studies and Research.

#### 2.3. After the application has been processed by the University, the applicant will be officially informed of the date of entry by the Campus Registrar.

### 3. COURSE OF STUDY

#### 3.1. The programme consists of two parts: The first part of the programme normally occupies two years. The Part I examination is taken at the end of this time, provided there have been satisfactory in-course assessments.

3.2. During the first part of the course, a maximum of six months may be spent in the Department of Preclinical Sciences (Unit of Anatomy, Biochemistry, or Physiology), in the Unit of Pathology, Department of Para-clinical Sciences, or in an approved research project, provided that prior approval has been obtained from the School of Graduate Studies and Research.

3.3. During the second part of the programme the trainee must submit one of the following at least six (6) months before the final (Part II) examination, either:

- a) a research project report; or
- b) a case book of twenty (20) cases with commentaries.

3.4. The alternative chosen must have been previously agreed to by the School of Graduate Studies and Research and the work carried out under the guidance of a supervisor approved by the Board. Following the submission of the work the examiners may:

- a) accept the work, and allow the candidate to proceed to examination or
- b) reject the work, and outline what additional or new work is required and when the work should be re-submitted.

3.5. Candidates must have reached a satisfactory standard during the in-course assessments before being allowed to enter for the Part II examination.

3.6. Before being admitted to the Part II examination, all trainees are required to submit a tabulation of all operations performed by them and certified by their supervisor during the period of training.

3.7. The period of training for the DM General Surgery will be a minimum of five (5) years following full registration, but a maximum of six months exemption during the first two years of these courses may be obtained following experience in an approved Casualty Department or similar hospital emergency facility.

3.8. During the first two (2) years of the programme in General Surgery the trainee will rotate through the following specialties:

General Surgery – six (6) months

Orthopaedics/A & E Surgery – six (6) months

Neurological Surgery – three (3) months

Cardiothoracic Surgery – three (3) months

Paediatric Surgery – three (3) months

An elective period of three (3) months may be spent repeating a weak rotation, or in a further period in General Surgery.

3.9 Training will normally take place at the Eric Williams Medical Sciences Complex or at the Port of Spain or San Fernando General Hospitals, or at institutions in the region recognised by the University for this purpose. However, an elective period of up to one (1) year may be spent at institutions within or without the Caribbean approved by the School for Graduate Studies and Research, provided that prior approval has been obtained from the Board. This elective period is limited to the penultimate year for trainees in General Surgery. Institutions may be recognised for part or all of the training programme. The Specialty Board in Surgery will keep a list of approved institutions and appointments for the guidance of candidates. This list will be updated from time to time as necessary.

3.10 Each DM candidate can have a total of six (6) weeks leave per annum three (3) weeks in every six (6) months).

3.11 Details of the programmes may be obtained from the Chairman of the Specialty Board or the School of Graduate Studies and Research.

#### 4. EXEMPTIONS

4.1. Candidates who have completed periods of study in recognised hospitals or institutions may apply to the School of Graduate Studies and Research for exemption from the appropriate section of the programme.

4.2. For trainees in the General Surgery programme, this will be in addition to any exemptions granted on the basis of experience in an approved Casualty Department or other hospital emergency facility (see paragraph 3.7)

4.3. Candidates who have been successful in the Fellowship or Membership examinations (Part I & II) of one of the Royal Colleges of Surgery and who have had experience acceptable to the School of Graduate Studies and Research may apply for exemption from part or all of the Part I DM examination. All the other training requirements must be fulfilled prior to being granted entry into Part II of the programme.

#### 5. ASSESSMENT

5.1. Trainees will be assessed at least semi-annually. Those with unsatisfactory records will be encouraged to improve; but if poor performance persists they will be asked to withdraw from the programme.

## DM UROLOGY

This course of training extends over five (5) year programme and provides structured training in the surgical sub-specialty that deals with the diagnosis and treatment of diseases and disorders affecting the male genitourinary system and female urinary tract. The training of a urological surgeon is aimed at producing a graduate who can perform and use appropriately the current techniques in general urology. Knowledge of available treatment options in more specialised areas such as urologic oncology, urogynaecology, andrology, renal transplantation and vascular access, reconstructive urology, paediatric urology and endourology/laparoscopy is also required. Further training in one or more of these is available by obtaining a fellowship at the end of general urological training.

### QUALIFICATIONS FOR ENTRY

Applications are invited for entry in September of each academic year from suitably qualified persons. Applicants should have:

- (i) at least one (1) year post internship with a registrable undergraduate degree.
- (ii) an interest in Urological Surgery including Endoscopic Urology.
- (iii) at least one (10 year's experience in General Surgery after internship.

All applicants must hold Medical Degrees registerable with the Medical Board of Trinidad and Tobago. Candidates with the Part I DM in Surgery or the F.R.C.S. Part II will be exempt from the Basic Medical Sciences Examination.

### COURSE OF STUDY

This programme spans five (5) years. The first two (2) years are the same as those for the DM General Surgery. The curriculum covers the following examinable areas:

Benign Prostatic Hyperplasia  
Andrology  
Bladder Dysfunction  
Trauma  
Female Urology  
Reconstructive Urology  
Oncological Urology  
Paediatric Urology  
Stones and Endourology  
Urinary Tract Infection  
Nephrology and Transplantation  
Applied Patho-Physiology, Nephrology, Transplantation and Principles of Urology  
Investigative & Technical Aspects

## PROGRAMMES IN EMERGENCY MEDICINE

**IMPORTANT NOTE:** The department offers three postgraduate programmes in Emergency Medicine, a Diploma, an MSc and a DM. New regulations governing the lengths and entry criteria for these programmes were pending approval at the time this booklet was prepared. Candidates should therefore contact the Department of Clinical Surgical Sciences for the most up to date information.

### DIPLOMA IN EMERGENCY MEDICINE

This programme is aimed at primary care physicians and others with a significant Emergency workload, but who are not planning a career as full time Emergency Medicine consultants.

1. AIMS
  - 1.1. This option is primarily aimed at specialists in other fields who are likely to have a substantial responsibility in Emergency Care (for example, District Medical Officers who have regular sessions in the peripheral Emergency Departments, or Paediatricians with fixed sessions in the Paediatric Emergency Department of the Children's Hospital.
2. ADMISSION CRITERIA
  - 2.1. Graduates of Medical Schools approved by the Medical Board of Trinidad and Tobago.
  - 2.2. Candidates must have completed at least 1 year in Emergency Medicine at an approved Department, and at least 12 months in acute specialties other than Emergency Medicine.
3. PROGRAMME STRUCTURE
  - 3.1. The Diploma in Emergency Medicine consists of the first eight (8) modules of the part-time MSc programme. These core modules include:
    - Principles of Emergency Medicine & Life Support 90 hours/ 6 credits
    - Toxicological and Environmental Emergencies 30 hours/2 credits
    - Paediatric Emergencies 60 hours/ 4 credits
    - Adult Medical Emergencies 60 hours/ 4 credits
    - Trauma Management 60 hours/ 4 credits
    - Behavioural and Psychiatric Emergencies 30 hours/ 2 credits
    - Management of the Acute Surgical Patient 30 hours/ 2 credits
    - Research Methodology and Critical Appraisal 30 hours/ 2 credits

### MSC IN EMERGENCY MEDICINE

This 3-year part-time programme is aimed primarily at more senior doctors who already have a clinical commitment to Emergency Medicine, and have significant prior experience in the specialty. It consists of 14 modules, which will be covered over a 3-year period, including all important areas in Emergency Medicine.

1. AIMS
  - 1.1. The aim of the MSc in Emergency Medicine is to equip senior doctors in Emergency Medicine with relevant training in the clinical and non-clinical aspects of Emergency Medicine. This would allow them to provide leadership, management and supervision for staff in their Departments and clinical care for acutely ill patients.
2. ADMISSION CRITERIA
  - 2.1. Graduates of Medical Schools approved by the Medical Board of Trinidad and Tobago.
  - 2.2. Candidates must have completed at least 1 year in Emergency Medicine at an approved Department, and at least 12 months in acute specialties other than Emergency Medicine.
3. PROGRAMME STRUCTURE
 

The Emergency Medicine programme has a total of 14 Courses. Approximately two (2) Courses will be offered each semester.

  - Introductory Module 15 hours/ 0 credits
  - Principles of Emergency Medicine & Life Support 90 hours/ 6 credits
  - Toxicological and Environmental Emergencies 30 hours/2 credits
  - Paediatric Emergencies 60 hours/ 4 credits
  - Adult Medical Emergencies 60 hours/ 4 credits
  - Trauma Management 60 hours/ 4 credits
  - Neurological, Ophthalmic and ENT Emergencies 30 hours/ 2 credits
  - Behavioural and Psychiatric Emergencies 30 hours/ 2 credits
  - Obstetric and Gynaecological Emergencies 30 hours/2 credits
  - Infectious, Immune and Haematological Emergencies 30 hours/2 credits
  - Research Methodology and Critical Appraisal 30 hours/2 credits
  - Educational Issues in Emergency Medicine 30 hours/ 2 credits
  - Management Issues in Emergency Medicine 30 hours/ 2 credits
  - Management of the acute surgical patient 30 hours/ 2 credits

## DM EMERGENCY MEDICINE

This is a full-time residency programme in Emergency Medicine lasting 4 years, offered to junior doctors who wish to specialise in Emergency Medicine, but have little or no prior clinical experience. Candidates must be working in a hospital in Trinidad recognised for graduate training.

### 1. AIMS

- 1.1. The aim of the DM in Emergency Medicine is to train doctors in the specialty of Emergency Medicine to a level that allows them to provide clinical support and administrative leadership to their Emergency Departments. Successful DM candidates will practice at the level of consultants and Emergency Medicine. The DM programme will accept candidates with minimal experience in Emergency Medicine and achieve the above goal within the four-year training period.

### 2. ADMISSION CRITERIA

- 2.1. Graduates of Medical Schools approved by the Medical Board of Trinidad and Tobago.
- 2.2. Candidates must have successfully completed their internship and are fully registered with the Medical Board of Trinidad and Tobago.

### 3. PROGRAMME STRUCTURE

- 3.1. The DM in Emergency Medicine is a full time residency programme, based on a comprehensive curriculum. Candidates will spend approximately half their time in Emergency Medicine, and will be expected to rotate through the following specialties during the programme:
  - Anaesthesia (3 months)
  - Surgery (3 months)
  - Adult Medicine (3 months)
  - Orthopaedics (3 months)
  - Paediatrics (3 months)
  - Obstetrics & Gynaecology / Psych (3 months)
  - Family Medicine (3 months)

### 4. TEACHING METHODS

- 4.1. DM candidates will be expected to cover their curriculum through a variety of educational opportunities. These would include:
  - Clinical supervision: The majority of clinical training in the DM programme will be facilitated through direct clinical supervision during normal work. Supervisors will include consultants in Emergency Medicine as well as those consultants in charge of candidates during their secondments to other specialties.
  - Weekly tutorials: All DM candidates will be expected to meet weekly for tutorials in Emergency Medicine, which would aim to cover the core curriculum over the first three years.

- Monthly tutorials: DM candidates will be required to attend monthly teaching sessions with candidates from the MSc programme. These tutorials will provide a systems-based approach to topics in Emergency Medicine and utilise a variety of educational tools including problem based learning, formal tutorials and skills labs.
- Other educational activities: Candidates will be expected to attend other educational activities during their course, including departmental teaching (both in Emergency Medicine and during secondments).
- Short Courses: DM candidates will be offered the opportunity to attend relevant short courses in emergency care, including the Advanced Life Support Courses (Cardiac, Paediatric and Trauma).

### 5. CURRICULUM

- 5.1. While the majority of teaching in the DM will be related to direct clinical supervision, the programme follows a fixed curriculum, which is the same as the DM programmes in Barbados and Jamaica.
- 5.2. The DM curriculum covers the following topics on a four-year rolling
  - teaching cycle:
  - Principles of Emergency Care
  - Major and Soft Tissue Trauma
  - Otolaryngologic Disorders
  - Ophthalmologic Disorders
  - Cardiovascular Disorders
  - Thoracic/Respiratory Disorders
  - Abdominal & Gastrointestinal Disorders
  - Urogenital Disorders
  - Obstetrics and Gynaecological Disorders
  - Infectious Diseases
  - Paediatric Disorders
  - Musculoskeletal Disorders
  - Toxicologic Emergencies
  - Neurologic Disorders
  - Environmental Emergencies
  - Immune System Disorders
  - Metabolic and Hormonal Disorders
  - Haematological Disorders
  - Dermatological Disorders
  - Psycho behavioural Disorders
  - Administration and Management
  - Emergency Medical Services
  - Physician Interpersonal Skills
  - Manipulative Skill

## DM OPHTHALMOLOGY

### AIMS

- To provide a programme that facilitates the acquisition of knowledge, understanding, skills and attitudes to a level appropriate to an ophthalmic specialist, who has been fully prepared to begin his/her career as an independent ophthalmologist.
- To promote the appreciation of audit and research

### COURSE OF STUDY

The six year programme is divided into 3 parts (Part I, Part II, Part III):

#### Part 1 (2 years)

This involves the basic sciences, including:

- anatomy of the eye, adnexae, visual pathways and associated aspects of head and neck and neuroanatomy. It will also include embryology
- physiology of the eye, adnexae and CNS, including general physiology (laws and phenomena). It will include organisation, function, mechanism of action, regulation and adaptations of structures and their components tissues relevant to the clinical methods of assessment (eg. acuity, visual fields, electrodiagnostics, intraocular pressure)
- medicine in association with ocular disease (Diabetes, Hypertension, Collagen Vascular disease, Rheumatology, Thyroid, Sickle cell Anaemia, etc)
- basic principles of Pathology (with emphasis on Ocular pathology), Microbiology, Biochemistry

Part 1 will be examined at the end of 2 years. Candidates will have to achieve an adequate standard of performance before they can proceed to the second part of the programme.

#### Part II (1 year)

This part covers:

- the optics, theory and practice of refraction (including contact lens),
- application of physical and physiological optics to clinical management,
- principles of instrumentation such as the direct and indirect ophthalmoscope, keratometers, focimeters, microscope.

During this period the candidate will continue to gain clinical and surgical ophthalmology skills.

Part 2 will be examined after 1 year. Candidates will have to achieve an adequate standard of performance before they can proceed to the final part of the programme.

#### Part III (3 years)

This final part consists of 3 years, at least 2 of which must be spent locally and an elective one year period which must be spent overseas. The candidate will be expected to cover all aspects of the medicine, therapeutics and surgery for the eye, adnexae and visual pathways. For specific diseases processes, they should be enhancing and consolidating their knowledge with respect to aetiology, pathogenesis, genetics, clinical manifestations, differential diagnosis, investigations and treatment options (medical and surgical). Enhancing surgical skills, audit and research will be emphasised. The candidate will be examined at the end of the three years.

### EXAMINATIONS

#### Part I

This exam will be undertaken after 2 years in the programme.

Section A: Principles of Ophthalmic Surgery

Section B: Anatomy of Head and Neck (including Embryology and Neuro anatomy)  
Basic Pathology, Microbiology, Biochemistry  
Physiology of eye, adnexae, CNS including related general physiology  
General Medicine in association with Ocular pathology

Candidates must pass Section A and pass at least 4 parts of Section B to qualify for entry into the second part of the programme.

Candidates who have not completed the Part 1 exam within one calendar year of the first sitting of the examination will normally be required to withdraw from the programme.

#### Part II

This exam will be undertaken at the end of the 3rd year in the programme.

Section A: Basic Optics (Principles of Instrumentation) & Theory of Refraction

Section B: Practical Refraction exam & OCSE

#### Part III

This exam will be undertaken at the end of the fellowship. This will consist of 2 parts:

- a. Papers : MCQs/ Essay
- b. Oral Examination

No candidate will be allowed more than 2 attempts at any one examination. The final Part III examination must be taken within one year of submission of the project or case book (20 cases).

#### Log Book:

All candidates must maintain a surgical logbook, which will be assessed annually.

**Casebook:**

Each candidate must collect 20 cases for the case book. These cases must cover the breadth of Ophthalmology including at least one case from each subspeciality:

1. Cataract and Refractive Surgery
2. Cornea
3. Glaucoma
4. Paediatrics
5. Uveitis
6. Orbit, Oculoplastics, Adnexal and Lacrimal
7. Neuro ophthalmology
8. Ocular motility/ Strabismus
9. Medical Retina
10. Surgical Retina

## SCHOOL OF PHARMACY

The University of West Indies has started BSc (Pharmacy) programme in 1995 to produce qualified Pharmacy graduates to practice Pharmacy in the Caribbean region. After considerable amount of service and experience, the department of Pharmacy is recently upgraded to an independent School. The school is currently in the process of developing MPhil and PhD degrees in Pharmaceutical Sciences and other postgraduate programmes. Although no graduate programmes are currently on offer, staff are involved in the supervision of students enrolled in MPhil and PhD programmes in Pharmacology.

## SCHOOL OF DENTISTRY

The School of Dentistry is well equipped with state-of-the-art dental equipment and has ample clinical teaching space; a computer assisted learning facility, lecture rooms and a student recreation room. Although the school does not currently offer any graduate programmes, staff are involved in research some of which is in collaboration with other departments and schools with graduate research programmes. Current research areas in the School of Dentistry include tooth wear in Caribbean populations, dental education, dental materials science, oral health needs in young children, children's emergency dental care, dental health education, oral health promotion and dental health of people with special needs.

In addition to its teaching function, the Dental Hospital provides emergency dental facilities, radiology and diagnostic examinations, the treatment of trauma, deformities and malignancies by means of oral and maxillo-facial surgery and extensive restorative dentistry. Specialised attention is given to children's dental problems with particular emphasis on orthodontics, preventive dentistry and community dental health education.

## SCHOOL OF VETERINARY SCIENCES

### POSTGRADUATE PROGRAMMES

The School of Veterinary Medicine offers postgraduate studies leading to MPhil and PhD degrees of Veterinary Anatomy, Veterinary Physiology, Veterinary Microbiology, Veterinary Pharmacology & Toxicology, Veterinary Public Health, Veterinary Pathology, Veterinary Parasitology and Veterinary Clinical Medicine. The degree programmes are primarily by research and guided studies with limited course work requirements where necessary. Current research interests include:

#### VETERINARY ANATOMY

- Neuropathological evaluation of swayback disease as compared with Alzheimer's disease
- Rabbits as an animal model for Alzheimer's disease
- Anatomical studies in the agouti.
- Distribution and types of congenital abnormalities in animals
- Gross anatomical studies of rare species of animals

#### VETERINARY MICROBIOLOGY

- Development of a nested-PCR method and the detection of *Bartonella* spp in blood
- Molecular diagnostics for Newcastle disease
- Enhancement of food safety programs in CARICOM through PCR- based diagnostics
- Isolation, characterisation and local production of novel *Bacillus thuringiensis* (BT) isolates with pesticidal properties
- Development of an in vivo system to monitor bacterial growth and colonisation

#### VETERINARY PARASITOLOGY

- Investigations into the phytoacaricidal action of Neem oil in *Boophilus microplus*

#### VETERINARY PATHOLOGY

- Hematological values in copper deficient sheep
- Studies on skeletal pathology of wildlife
- The role of pathology in forensic veterinary medicine
- The development and evaluation of health monitoring protocols for use in birds and reptiles
- Refinement of the use of field kits for use in the tropics

### **VETERINARY PHYSIOLOGY**

- Establishment of ELISA techniques to measure progesterone concentrations in samples
- Involvement of protein kinase C (pck) in the self priming of gonadotrophin-releasing hormone (GnRH)
- Grazing behaviour and physiological adaptability of large and small ruminants
- Attainment of puberty in buffalo heifers

### **Veterinary Public Health and Epidemiology**

- Isolation and characterisation of *E. coli* and *Salmonella* spp in pets
- Use of a rapid assay system for detection of *Campylobacter* spp prevalence in chickens from 'pluck shops'
- Evaluation of the efficacy of *Brucella abortus* vaccine strain RB51 in domestic water buffalos (*Bubalus bulbalis*).
- Subclinical mastitis and antimicrobial residues in dairy cows
- Bacterial aetiology of pneumonia
- Microbial quality of antimicrobial residues in table eggs
- Evaluation of the antibacterial activity of plant extracts
- Microbial quality of water supplied to urban and rural communities
- Epidemiology of zoonotic bacterial diseases
- Microbial quality of ready-to-eat foods of animal origin
- Food safety problems in the Caribbean
- A Study on Johne's disease (*Mycobacterium paratuberculosis*) in water buffalo using gamma interferon assay
- Comparison of the enzyme-linked immunosorbent assay (ELISA), gamma interferon assay and faecal examination in detecting subclinical infections by *Mycobacterium paratuberculosis*
- Toxoplasmosis in pregnant women and their offspring
- Dog bites in primary school children
- Use of herbal remedies in race horses

### **VETERINARY PHARMACOLOGY**

- Evaluation and standardisation of medicinal plants with varied biological activity

### **VETERINARY TOXICOLOGY**

- Evaluation of risk factors associated with selenium status in dairy cows

### **VETERINARY CLINICAL MEDICINE**

- *Campylobacter fetus* subspp *venalis* and *Trichomonas fetus* subspp *venalis* in some selected dairy herds

### **1. QUALIFICATIONS FOR ENTRY**

The following are eligible for admission to the MPhil degree programme.

1. Graduates of The University of the West Indies or of any other university, recognised for this purpose, holding the Doctor of Veterinary Medicine degree (DVM) or its equivalent.

2. Graduates of The University of the West Indies or of any other university, recognised for this purpose, holding first class or second class degrees (preferably second class upper degrees)
3. Applicants who do not satisfy the requirements outlined in nos. 1 and 2 (above) may be admitted to the MPhil programme only if they have passed prescribed qualifying courses. Such candidates may be admitted as qualifying students.
4. Only candidates who hold Doctor of Veterinary Medicine (DVM) degrees qualify for degrees in Veterinary Clinical Studies. Degrees in non-clinical areas are open to holders of Doctor of Veterinary Medical degrees (DVM) as well as holders of other suitable degrees, which must be obtained at the level of second class upper or first class. Those with second-class lower degrees may apply only if they have a minimum of B grade in the area of interest at the degree examination and are usually required to fulfil certain conditions.

### **MPhil PROGRAMMES COURSE OF STUDY**

- 1.1 Candidates for the MPhil degree are required to register for taught courses amounting to a minimum of six (6) credit hours. These courses normally include Biostatistics and Research Methodology, and any other courses that the supervisory committee may deem necessary for the candidate.
- 1.2 Candidates are required to present two (2) seminars before the completion of the MPhil degree programme, one in the first half of the course and the second at the end of the course based on their research. Attendance at postgraduate seminars is mandatory.

### **DURATION OF THE MPhil PROGRAMME**

- 1.3 The MPhil programme is offered to both full-time and part-time students. Full-time students are expected to complete the programme within 24 months of registration. Part-time students are expected to complete the programme within 36 months.

### **AWARD OF THE DEGREE**

- 1.4 The degree is awarded upon completion of the programme which includes the submission and successful defence of the MPhil thesis, and the successful completion of the coursework requirements.

## PHD PROGRAMMES

### ADMISSION INTO THE PHD PROGRAMME

- 2.1 Candidates for admission into the PhD programme should be: Holders of MPhil degrees of The University of the West Indies, or of any other University recognised by The University of the West Indies.
- 2.2 Holders of Masters of Science Degrees (MSc), by thesis, of The University of the West Indies or of any other University recognised for that purpose.
- 2.3 Candidates may have their registration upgraded from MPhil to PhD degrees, if the requirements of the upgrade are met. (The requirements are outlined in the regulations for postgraduate studies of The University of the West Indies).

### COURSE OF STUDY

- 2.4 The minimum duration of the programme is three calendar years (36 months) of full-time study or five calendar years (60 months) of part-time study.
- 2.5 Candidates are required to register for taught courses amounting to a minimum of nine (9) credit hours (credits gained prior to upgrade from MPhil to PhD contribute towards this total). The PhD programme is fundamentally a research degree however the supervisory committee may recommend some course work but this should not form a significant part of the programme.

### SEMINARS

- 2.6 Candidates are required to present at least three (3) seminars based on their research, before the completion of the programme. Attendance at postgraduate seminars is mandatory.

### AWARD OF THE DEGREE

- 2.7 The Degree is awarded upon the successful defence of the PhD thesis.

# SCHOOL OF ADVANCED NURSING EDUCATION

## MSC. ADVANCED NURSING (MSN)

The Master of Sciences in Advanced Nursing (MSN) degree programme is designed to meet the critical need for leaders, teachers and advanced clinicians in Nursing. The programme is structured around the major components of theory, research and clinical practice. The concepts of leadership, critical thinking, decision making, and planned change are integrated throughout the curriculum. The graduate nursing student at SANE will develop specific competencies through refinement of existing professional skills, expansion of the knowledge base for practice, and development of advanced proficiencies in particular areas of practice. The programme is offered full and part-time in modular format and includes different forms of Distance Education, print, media, teleconference, computer Assisted Instruction (CAI), mentoring and preceptor practicum.

### AIMS

- To utilise the multidisciplinary setting of the University to provide a broad-based liberal arts education for nurses.
- To engage Nursing students in in-depth analysis of nursing, health, and health related issues/problems of the region.
- To provide opportunities to develop advanced nursing expertise in the areas of clinical, education, leadership/management and research at the postgraduate level.
- To develop and implement staff development programmes.
- To provide opportunities to develop human resources for the sustainability of the nursing profession.
- To establish the organisational and administrative infrastructure for the sustainability and expansion of programmes in Nursing.
- To initiate and maintain affiliation with relevant regional and international agencies.
- To collaborate with other nursing/health and related institutions and agencies with a view to strengthening the health care services of the Caribbean.

### OBJECTIVES

- Upon successful completion of the MSN programme, the graduate will be able to:
- incorporate advanced knowledge and skills into practice as a nurse educator, nurse leader/manager, or a nurse practitioner/clinician;
- utilise research, advanced knowledge, and theories from nursing and other disciplines to improve nursing practice and nursing education, thus improving the quality of health care;
- contribute to the development of the scientific knowledge base in nursing by recognising researchable problems and participating in research to advance the practice of nursing;

- utilise leadership strategies to effect improvements in the health care system;
- contribute as leaders to the restructuring of professional nursing roles as health care needs emerge in society;
- apply theoretical concepts and research findings as bases for clinical organisational decision making in order to provide compassionate care, initiate change, and improve nursing practice;
- demonstrate proficient utilisation of research including the evaluation of research, problem identification within the clinical practice setting, awareness of practice outcomes, and the clinical application of research;
- develop an understanding of health care policy, organisation and health care financing in order to provide quality cost-effective care, participate in the design and implementation of care in a variety of health care systems, and assume a leadership role in the management of health care resources;
- integrate ethical principles, personal beliefs, and spiritual values to provide a framework for advanced nursing practice, and ethical decision-making as it affects the community, society, and health care delivery system;
- implement advanced nursing practice and work effectively in interdisciplinary relationships or partnerships, recognising the uniqueness and similarities among various health care providers;
- provide care that is culturally sensitive to individuals or population groups based on an understanding and appreciation for human diversity in order to encourage health promotion and wellness strategies that maximise one's quality of life;
- assume responsibility and accountability for the health promotion, risk reduction, assessment, diagnosis, and management of patient problems across the life span;
- interpret the global environment in which health care is provided and modify patient care and health care delivery in response to global environment factors;
- participate in political and professional organisation to influence health policy, improve health care, and advance the profession of nursing;
- engage in professional and personal activities that show evidence of a commitment to life-long learning and a contribution to society.

#### **ENTRY REQUIREMENTS**

The Master in Advanced Nursing (MSN) programme is available to general, psychiatric and midwifery trained nurses who are registered/licensed in their current jurisdiction of practice; can verify first registration/ licensure if it is different from that which is presently held, and qualify for registration/licensure in the region served by the University of the West Indies.

Candidates should have a total of three (3) years clinical experience post registration/licensure. Time spent on any educational programme is not included in this three (3) years practice requirement.

Candidates should also hold an undergraduate degree with not less than a Second Class Honours OR hold a postgraduate degree OR hold approved technical and/or professional qualification(s) awarded by an approved body and approved by this University and currently holds a position comparable for the area of the degree sought within the Regulations, all attempts will be made to facilitate the goals of the individual student, professional and career expectations, and employment realities.

**A candidate may be required to complete an entrance examination and/or attend an interview and/or have a period of orientation relevant to their programme of study before admission.**

#### **Selection of Applicants**

Students are admitted based upon their application for a particular plan of study.

- The selected applicants will be offered provisional or full admission and will be so advised and their respective programme of study outlined.
- Applicants requiring prerequisites will be provisionally admitted. Full admission status is achieved on successful completion of these courses within the specified time frame.
- Pre-requisite courses may be pursued by registering in the course(s). With the approval of the Director, a student requiring pre-requisite courses may have one opportunity to challenge a course(s). Such a student may be permitted to challenge by examinations three (3) to nine (9) credits, depending on the interpretation of his/her transcripts and the number of credits required.
- Students who perform successfully on the challenge examination(s) will be deemed to have satisfied the requirements of the respective course(s) and gain the relevant credit(s).
- Students who are successful on the challenge examination(s) will have the opportunity to register and successfully complete the required course(s) including coursework and examination(s).
- Challenge examinations are assigned a fee that is the responsibility of the student.
- Holding a Bachelor of Science in Nursing (BScN) Degree from an accredited programme or an accredited programme or a Registered Nurse (RN) with a Bachelor's degree in a health related field.

#### **PROGRAMME OVERVIEW**

The MSN requires a minimum of forty-four (credits) including a thesis or a research project. Whenever applicable, all prerequisite courses must be completed prior to full admission to the MSN programme.

Each candidate will select a major identified on their application. Common to all the majors are identified core courses, a total of twenty-two to twenty-four (22-24) credits with the Education and Leadership/Management majors having a total of twenty-two (22) credits. Students must successfully complete all core courses except the Research Project/Thesis, and an Elective and/or Independent Study prior to matriculating into their identified majors.

### TEACHING STRATEGIES

All courses will be presented using the “blended learning” approach that will utilise on-line and face-to-face techniques. Each student will be assigned a tutor/mentor who will provide academic supervision and advising throughout the programme.

### COURSE OF STUDY

## MSN PROGRAMME

Course Code	Course Title	Number of Credits
	Theoretical and Scientific Basis for the Advanced Practice	3
	Current Issues in Nursing and Health Care	2
	Methods of Clinical Research	2
	Research Project/Thesis	9
	Leadership and Fiscal Management of Healthcare Systems	2
	Cultural/Spiritual Aspects of Advanced Practice Nursing	2
	Elective	2-4
	Independent Study	2-4
	<b>Total Credits</b>	<b>22</b>

## MSN – EDUCATION PROGRAMME

Course Code	Course Title	Number of Credits
	Curriculum Development for Advanced Practice in Nursing Education	3
	Seminar in Education and Evaluation	2
	Teaching and Learning Strategies	3
	Nursing Education Practicum I	3
	Nursing Education Practicum II	3
	Instruction Application of Technology	3
	Theories and Concepts in Nursing Education	3
	Seminar in Nursing Education	2
	<b>Total Credits</b>	<b>22</b>

## MSN- LEADERSHIP/ MANAGEMENT PROGRAMME

Course Code	Course Title	Number of Credits
	Nursing Management of Clinical Systems	3
	Managing within Health care Organisations	3
	Nursing Management of Human Resources	3
	Introduction to Health care Financing	3
	Finance and Budgeting in Nursing Systems	2
	Nursing Leadership/Management Seminar	3
	Nursing Leadership/Management Practicum	5
	<b>Total Credits</b>	<b>22</b>

## REGULATIONS AND ASSESSMENT PROCEDURES

Candidates for the MSN degree may pursue the prescribed courses by either full-time or part-time study. The full-time option will consist of two regular semesters and one third semester or three regular semesters; and part-time option may be completed in two years but not more than five consecutive years.

- Full-Time Study: Candidates normally require a minimum of twelve (12) credits each semester, and will be required to complete all courses in a minimum of three (2) semesters and not more than four (4) semesters.
- Part-Time Study: Candidates normally require six (6) credits per semester, and will be required to complete all courses and a project, in a minimum of nine (9) semesters and not more than fifteen (15) semesters.
- Having successfully completed one (1) year of part-time study, the candidate may seek full-time registration for the ensuing year, showing where his/her circumstances now enables him/her to do so. The regulation for full-time study will apply.
- Registration for courses includes registration for examinations.
- Continuous assessment will be the major method of assessment for graduate education.
- Candidates will have coursework and final assessments by written, oral and practicum functional examination, with internal and external examiners appointed by the Faculty.
- The minimum pass of Grade B for each theoretical course and for each course with a practicum.
- Written papers as well as oral presentations will be the preferred form of theoretical examinations. With written tests, there will be clinical or practical examinations related to the major chosen.
- Students have only one (1) opportunity to repeat a failed course and must register for and pursue the course(s) when they are next available or normally given.
- Pre-requisites are to be successfully completed before proceeding to those which require them. Students are required to pass pre-requisites at a Grade B and are not allowed to re-sit.
- Neither full-time nor part-time students will be allowed to proceed to the Clinical/Practicum course unless they have successfully completed the required core courses.

A student pursuing nine (9) or more credits in any semester, and who is within five (5) points of the passing grade, that student may be offered an oral, written, or practical accelerated re-sit within a specified time. If the student accepts the option offered, his/her successful performance will earn the credits for the course. This offer will be based on consistent satisfactory work in the course including any practicum and recommendation of the academic staff directly involved in the teaching an examination of the course, and the external examiner where this applies. Passing the clinical component of a course is mandatory.

The student who does not accept the offer of accelerated re-sit or who is unsuccessful in the examination will repeat the course including the relevant course work and or examination when next available.

Students are required to pass in both written examinations and coursework at the first attempt. For a student who fails the coursework or written examination at the first attempt, the Board of Examiners shall recommend to the Campus Committee whether a second attempt should be permitted (Regulations 2, p.17). Normally passing of the coursework and written examinations are required for a student to proceed to a clinical/practicum course.

A student may be given:

- One opportunity to rewrite his/her proposal for the research project
- One opportunity to rewrite his/her research project
- One opportunity to repeat an oral presentation of the research project

Repeating courses, re-sitting examinations, rewriting research proposals and projects could have implications for the length and cost of the programme.

#### **Unsatisfactory Rate of Progress**

Students whose rate of progress is considered UNSATISFACTORY could be asked to withdraw.

Unsatisfactory rate of progress is defined as:

When a full-time student fails

1. More than two (2) courses in Semester I or
2. More than three (3) courses in Semester II or
3. Five courses between Semester I and II or
4. Any course with a practicum
5. Fails to adhere to professional nursing standards

OR

When a part-time student fails

1. The course(s) taken in Semester I or II, Year I or
2. One or more courses in any subsequent semester and before acquiring thirty (30) credits or
3. Any course with a practicum
4. Fails to adhere to professional nursing standards

A full-time student will be asked to withdraw if he/she fails more than three (3) courses in Semester I.

A part-time student will be asked to withdraw if he/she fails all courses taken in Semester I, Year I.

