MB BS Programme

Syllabus and Course Outline
Mona Curriculum, Revised August 2007, adopted and adapted for Cave Hill
Class of 2013, entering September 1, 2008

Programme Overview

The MB,BS programme is five years long, followed by twelve months devoted to supervised pre-registration house officer training (internship).

The five-year programme is divided into Stage 1 (Years 1-3) and Stage 2 (Years 4-5).

In Stage 1, the emphasis is on the basic medical sciences which are taught in a series of systems-based courses with preclinical-clinical integration of material. The first two years are fully semester-based with a series of parallel courses on aspects of community health and gradual introduction of training in clinical skills. To maintain the desired emphasis on clinical skills training which has always been a strength of the UWI medical tradition, year three includes part of the summer and includes a series of three rotating junior clerkships.

Students who successfully complete Stage 1 are awarded **the B MedSci degree**, and proceed into the final two years of undergraduate training. These consist primarily of hospital based clerkships although rotations include a clerkship in a rural community setting and an elective period in both years.

Year four comprises a series of rotations through specialty disciplines with an emphasis on special examination techniques and modes of investigation and ten weeks based entirely in the Departments of Pathology and Microbiology.

The final year of training is designed to prepare students for internship and includes clerkships in five major disciplines. This provides students with experience in the overall care and follow-up of patients with common and important conditions as they participate in all the activities of the clinical service to which they are attached.

The final year concludes with the sitting of the written and practical/clinical components of the final MB,BS Examination.

Stage 1, Years 1 -3

Aims

- To enable students to understand the development of man and man's relationship to society and the environment
- To provide a fundamental knowledge of molecular and cellular biology, genetics and human nutrition
- To provide a thorough and integrated knowledge of the structure and functioning of the human body in health and disease
- To promote personal development and the skills required to obtain information from and communicate effectively with patients and colleagues
- To enable students to carry out a full clinical examination and perform a defined set of simple invasive techniques

Courses & Clerkships

Year 1

Fundamentals of Disease and Treatment

Proposed Code: FNDT 1101
Credits: 6

Year 1, Semester 1

The aim of this course is to provide a background for the better understanding of the system-based courses that follow it. The multidisciplinary approach used and much of the content is basic to an understanding of disease states and how drugs work and it serves as an important introduction to the integrated approach used in the delivery of the other courses in Stage 1.

The content provides a foundation for understanding important basic disease processes such as infection, inflammation, genetic disorders, tumor pathology and disorders of growth and assists students to appreciate how these affect the different organ systems when these are taught later in the programme. It also introduces the chemical structures and families of drugs commonly used in the treatment of patients and how these work to modulate disease processes.

Meiosis to Man – Introduction to Embryology & Histology

Proposed Code: EMBY 1102
Credits: 2

Year 1, Semester 1

The primary aim of this course is to provide students with an understanding of the processes by which a single fertilized ovum develops into specialized tissues and organs to eventually form a complex multicellular organism. It covers the development and differentiation of cells, tissues and organs and provides a general view of human development and the structure of tissues and provides a basis for understanding the relationships and positions of normal adult structures. It serves as the framework for understanding the more detailed development, structure and functioning of body systems and the abnormalities which result from disorders of development.

Introduction to Molecular Medicine

Proposed Code: MMED 1103
Credits: 2

Year 1, Semester 1

The aim of this course is to introduce students to the principles of Molecular Biology and to show how they may be used to understand and treat human disease. It builds on the fundamentals of the structure and functions of nucleic acids and proteins and serves as an important foundation for understanding advances in genetics and developments in modern medical research.

It covers the development and differentiation of cells, tissues and organs and the medical aspects of genetics including population genetics. Molecular techniques used in diagnosis and treatment are presented and ethical implications surrounding the application of molecular biology to medicine are discussed.

The Locomotor System

Proposed Code: MSKL 1104
Credits: 3

Year 1, Semester 1

The aim of this course is to provide the student with a thorough knowledge base of the functional anatomy of the upper and lower limbs and of the spinal column as these relate to each other in health and disease.

As the first in a series of systems-based courses it provides a comprehensive and integrated approach to learning the structure and function of the human body and introduces the anatomical terminology required to describe relationships of structure. Through the use of illustrative cases and relevant pathophysiology, it also helps students to appreciate the features, diagnosis and management of the common clinical conditions that affect muscles, bones and joints.

Cell Biology

Proposed Code: CBIO 1201
Credits: 4

Year 1, Semesters 1 and 2

This Year 1 course addresses development and differentiation of the human body at the cellular level and how cells are organized to form tissues and organs. It provides a prologue to medically relevant cell types, embracing their biological properties, intracellular and surface features and how they generate energy for their cellular needs and includes an introduction to major biomolecules, enzyme inhibition and bioenergetics.

The course begins in Semester 1, continues into semester2 and is organized into 3 units:

Unit 1 - Introduction to Medical Microbiology

Introduces the medically important micro-organisms and parasites; It describes their similarities and the differences which make them susceptible to pharmacological agents and to detection using microbiological diagnostic techniques.

Unit 2 - Biomolecules & Biomembranes

Explores the components and functions of cells, organelles and biomembranes and allows students to understand the factors affecting their functions. The structures of different types of biomembranes found in cells are explained, along with their ability to react with an aqueous environment.

Unit 3 - Metabolism & Bioenergetics

Provides a framework for students to appreciate the mechanisms of intracellular and extracellular control at the metabolic level and explains the ways in which the body derives its requirements for energy and growth.

Introduction to Medical Practice – Unit 1

Proposed Code: IMEP 1201
Credits: 3 (pass/fail)

Year 1, Semesters 1 and 2

This is the first unit of a multi-faceted introductory course which spans the first two years of the programme and is designed to provide students with the foundation skills necessary for their later clinical and hospital-based clerkships.

Unit 1 aims to inculcate at an early stage the attitudes and behaviours appropriate to the practice of medicine. It emphasizes personal & professional development, an important theme running through the curriculum and encompasses communication skills, professional conduct, including deportment, patient confidentiality and includes a parallel course in basic pre-hospital management of common medical emergencies.

Health Care Concepts

Proposed Code: HCON 1203
Credits: 4

Year 1, Semester 2

This comprehensive course introduces students to basic issues related to health and illness and approaches to disease prevention. Relevant concepts are illustrated from an individual and lifecycle approach with an emphasis on sociological and psychological factors.

The course aims to create an awareness of the sociological factors influencing health and the provision of health care in the Caribbean and how personal attitudes and stereotyping may influence relationships with patients and coworkers.

By familiarizing students with the importance and levels of preventive measures it aims to foster an appreciation for health and illness issues from a sociological perspective.

It emphasizes the place of health education and health promotion in the practice of medicine and aims to create an awareness of the factors influencing approaches to the promotion and maintenance of health and wellbeing. The importance of health seeking and risk-taking behaviours and the physical, emotional and social stressors affecting the individual are explained.

It introduces the factors leading to normal physical, cognitive, social and emotional development in children and adolescents and emphasizes the importance of caring for the elderly with their special needs, health and disease patterns.

It aims to foster an understanding of the factors influencing human development, thinking and behaviour, to promote insight into personal attitudes and reactions and illustrate that psychiatric disorders may represent the culmination of a complex interaction of biological, psychological and social factors

Basic Haematology (Haematology and Reticulo-endothelial System)

Proposed Code: HAEM 1204
Credits: 2

Year 1, Semester 2

This course which is delivered by basic medical scientists and clinicians covers the normal constituents and functions of blood as part of the haematological system with its self-regulating mechanisms. It introduces abnormalities underlying common diseases that affect patient care and is an important foundation for both the clinical haematology course in Year 3 and the applied Pathology clerkship in Year 4.

The course covers normal haemostasis, blood groups and the pathophysiology of common haematological disorders. It highlights the principles of simple haematological investigations, their usefulness and limitations. The importance of proper collection, transport and storage of blood specimens is explained along with other measures needed for safe blood donation and transfusion of blood products.

The Respiratory System

Proposed Code: RESP 1206
Credits: 3

Year 1, Semester 2

The main aim of this system-based course is to provide students with an understanding of the normal anatomy and physiology of the respiratory system and how it is affected by common disease conditions.

This course addresses the normal and the abnormal structure and function of the human respiratory system, the mechanics of breathing and factors influencing breathing. Gaseous exchange in the lungs in health a disease is covered as well as important drugs used in the treatment of common respiratory illnesses. Aspects of the investigation and care of patients with respiratory disease are introduced to reinforce basic knowledge of the normal state and to highlight the importance of this knowledge to medical practice.

Neuroscience 1 – The peripheral nervous system

Proposed Code: NUSC 1204
Credits: 3

Year 1, Semester 2

The main aim of this course is to explain the role of the peripheral nervous system in controlling visceral and skeletal muscle functions and how it can be modulated for therapeutic benefits to the patient. It is the first of two encounters with the Neurosciences in Stage I of the MBBS programme.

Neuroscience is concerned with the study of the human nervous system which consists of two major divisions, the central nervous system (CNS) and the peripheral nervous system (PNS).

In this course, the anatomical organization, functions and regulatory mechanisms of the peripheral nervous system are presented. The content provides the foundation for understanding the neural regulation of the functions of peripheral organs, glands and tissues that are dealt with in later courses.

Year 2 (Upon Satisfactory Completion of Year 1 courses)

The Cardiovascular System

Proposed Code: CVAS 2102
Credits: 6

Year 1, Semester 2, Year 2 Semester 1

The aim of this course is to provide an overview of the normal and abnormal structure and function of the cardiovascular system. It covers the essential core of information that students are required to know about the cardiovascular system in order to begin their hospital based clinical training.

The course is integrated, so that whilst the teaching of Anatomy, Physiology, Pharmacology, Pathology and Microbiology of the cardiovascular system is emphasized, there is also exposure to introductory clinical knowledge which permits an appreciation of the clinical relevance of the disciplines mentioned.

The Digestive System

Proposed Code: DGST 2103
Credits: 6

Year 2, Semester 1

This course aims to provide students with a fundamental understanding of the gastrointestinal tract and its importance in the processes of digestion, absorption and excretion as well as the role it plays in homeostasis.

It covers the gross anatomy, embryology, histology and functional aspects of the gastrointestinal tract and its accessory organs including morphological concepts related to the processes of mastication, deglutition, motility and secretions, digestion, absorption and defaecation. It provides students with an appreciation of the important pathophysiology of the digestive system and highlights the basic scientific knowledge behind the principles governing the management of common disorders.

Health and the Environment

Proposed Code: HENV 2101
Credits: 3

Year 2, Semester 1

Building on the material introduced in the Year 1 Health Care Concepts Course (HCON 1103) concerning wellness and disease prevention, this course aims to provide students with an overview of the interrelationship between man and his environment, and of the environment as a major determinant of health.

It introduces students to disaster management in the Caribbean, including both natural and technological disasters. Emphasis is placed on credible disasters, the role of the physician in the overall management of disasters generally and specifically in the hospital setting.

In addition, a spectrum of important viral, bacterial and parasitic infections is included with emphasis on sources, routes of transmission, prevention and control.

The Endocrine System & Skin

Proposed Code: ENDC 2201
Credits: 3

Year 2, Semester 1

In both development and delivery, this course utilizes a multidisciplinary approach to the teaching of applied anatomy and physiology of the endocrine system and the skin. By combining clinical and pathological aspects, it provides relevance and a critical link between understanding the basic medical sciences in the normal state and applying this knowledge to diseases that affect patients.

The chemical structure, synthesis, mechanisms of action, and functions of hormones are illustrated along with the various regulatory mechanisms that affect their production. In addition, the content includes the structure and function of the skin and the medically important conditions affecting it.

Neuroscience 2 – The central nervous system

Proposed Code: NUSC 2203
Credits: 9

Year 2, Semester 2

The aim of this course is to equip students with comprehensive knowledge about the normal structure and functioning of the central nervous system and the important pathological conditions that affect it.

It takes an in-depth look at the structure and function of the central nervous system (the brain and spinal cord), and introduces students to important diseases affecting the central nervous system, the methods used in investigating patients, and the treatment modalities employed, including pharmacotherapy. Additionally, it covers important drugs acting on the central nervous system, the investigations used to aid clinical diagnosis and outlines the principles behind medical and surgical treatments of central nervous system disorders.

Introduction to Medical Practice – Unit 2

Proposed Code: IMEP 2202
Credits: 3 (pass/fail)

Year 2, Semester 2; Year 3, Semester 1

The main aim of this course is to prepare students for the junior clerkships in Year 3 by training them in the art and practice of clinical history-taking, writing case histories and carrying out a simple physical examination.

During a four week, full-time block, students receive a series of lectures/demonstrations which are followed by opportunities to interact individually and in small groups under supervision with patients on the general medical, surgical and paediatric wards. Students are expected to apply the principles of communication learned in Unit 1 in taking histories and to present their cases orally, one-on-one to senior teaching staff.

Where performance, attendance and/or participation is considered unsatisfactory or unsafe, students may be required to attend remedial sessions before being permitted to commence the junior clerkships in year 3.

Year 3

Clinical Haematology

Proposed Code: HAEM 3101
Credits: 4

Year 3, Semester 1

This course builds on the Year 1 course in basic haematology. It reviews the normal structure and function of the haematological and lymphoreticular systems including the spleen, thymus and lymph nodes and provides an important basis for moving on to the applied pathology clerkship component in Year 4.

Important disorders of the blood and lymphoreticular system are introduced along with methods of diagnosis and the principles of management. The causes and classification of common or important inflammatory and neoplastic conditions are highlighted and made relevant by means of illustrative cases.

Renal / Urinary & Reproductive

Proposed Code: UGEN 3101
Credits: 9

Year 2, Semester 2; Year 3, Semester 1

This course aims to provide students with sufficient knowledge of the macroscopic and microscopic structure of the genitourinary system to enable them to understand both normal human excretory and reproductive function and the effects of common clinical abnormalities on these systems.

Structurally, the course is delivered in two units over two semesters. The content required by students at the beginning of basic clinical skills training in the latter part Year 2 is covered first with the second unit delivered in the first semester of Year 3. It employs an integrated approach and provides a basis for students' understanding of the relevant anatomy of the excretory and reproductive systems and how these function in health and disease. By inclusion of relevant pathophysiology and case-based problems, it provides a foundation for appreciation of the features, diagnosis and management of common clinical conditions affecting these systems.

Human Nutrition

Proposed Code: NUTR 3102
Credits: 3

Year 3, Semester 1

This course is designed to acquaint medical students with the basic and essential concepts of nutrition in medicine. It aims to explain the role of nutrition in determining patients' wellbeing, its interaction with their medical/ surgical conditions(s), and how to apply simple therapeutic principles to improve their nutritional state.

It does not seek to create clinical nutritionists, but rather to instill in students the idea that nutrition is a theme with which they need to be concerned in every aspect of health and disease in patients with whom they come into contact.; and to create an awareness of when to refer for professional nutritional diagnosis or support.

Health Services Management

Proposed Code: HSMN 3104
Credits: 3

Year 3, Semester 1

This is a web-enhanced course designed to equip medical students with the basic skills, attitudes and competencies to be effective team members, leaders and managers. While integrating the theme of personal and professional development, it covers aspects of health services organization, management in the public and private sectors, with particular reference to management principles, policy formulation, planning and evaluation.

The management of resources of people, money and supplies, will include manpower planning, utilization and retention, financing and health care, accounting and management in health. Leadership and communication skills will be emphasized. The knowledge and skills gained in this course are designed to benefit students as they later assume managerial roles at all levels in the health sector.

Understanding Research

Proposed Code: URES 3103
Credits: 3

Year 3, Semester 1

Regardless of whether or not graduates become involved in health research, as practicing physicians, they will be faced with the difficulty of keeping up-to-date in their chosen field. In the face of a huge and expanding amount of new information, they will be required to locate current and reliable information from a variety of sources. The ability to interpret data and to separate what is reliable from what is not, i.e. valid evidence, is a skill that they must acquire.

This course aims to introduce students to the role of research in the practice of medicine, to encourage the judicious use of research information and to kindle an interest in knowledge creation (research). Students are expected to develop an enquiring attitude to the acquisition and use of the available evidence to inform health care delivery. It includes an introduction to basic epidemiology, the use and interpretation of biostatistics and an exploration of the tools used in carrying out health-related research.

Junior Medicine Clerkship

Proposed Code: MEDI 3202
Credits: 9

Year 3, Semester 2

This full-time, 8-week clerkship is one of three junior rotations which represent the students' first clinical 'apprenticeship' with the healthcare team. It builds on the skills taught in the Introduction to Medical Practice course in years 1 and 2, and is the first opportunity for the student to be fully assigned to medical patients as part of a team. It is intended to reinforce previous teaching and to provide the practical experiences necessary to enhance the students' basic clinical knowledge.

The clerkship is conducted at both the Kingston Public Hospital and the University Hospital of the West Indies. Students are assigned to patients admitted to their service and are given responsibility under supervision for aspects of their care. They keep written records, assist with day to day management and learn to interpret laboratory results. They attend ward rounds, participate in the discussion of management and spend time with the emergency duty team, participating in post call ward rounds where they are required to present cases they have clerked for admission.

Junior Surgery Clerkship

Proposed Code: SURG 3201
Credits: 9

Year 3, Semester 2

This full-time clerkship is designed to provide students with their first practical opportunity to participate in the care of surgical patients and to provide hands-on, supervised experience in history-taking and physical examination. Students are assigned in small groups to surgical firms at the Queen Eliizabeth Hospital.

Bedside teaching takes place in the wards, in the out-patient clinics and in the Accident & Emergency Unit where students practice the regular keeping of accurate records. They are shown how to use the information obtained from the history and physical examination to arrive at a working diagnosis and how laboratory investigations are used for confirmation and to assist in managing patients.

They are taught how to perform and assist in simple surgical procedures including venipuncture and the suturing of simple wounds and, as they begin to assume limited clinical responsibility for the care of surgical patients, they participate increasingly in the day-to-day responsibilities of patient care under the supervision of resident and senior teaching staff.

Aspects of Family Medicine

Proposed Code: AFAM 3203
Credits: 9

Year 3, Semester 2

Using a mix of community, hospital and ambulatory care experiences, this clerkship brings together three key disciplines community health, psychiatry and child health all of which are deemed important to the practice of family medicine. Structurally, the clerkship is delivered in two 4 week units - Community Health and Psychiatry in one block and Child Health in the other.

Unit 1 – Community Health and Psychiatry

This unit aims to provide students with an understanding of the factors affecting the delivery of health care to patients in the primary care setting and to help them to appreciate the role and functions of the health team in delivery of community mental health services. They participate in a family study, visiting a patient in their home, spend time with a general practitioner to observe ambulatory care and visit the Family Court and other institutions in the community. These activities help to integrate their interviewing skills, and allow them to appreciate the application of health promotion principles to individuals, families and communities.

The activities are reinforced during the rotation by seminars on social issues in health, human sexuality, complementary medicine, doctor patient relationship, ethics, mental illness and the family and familial factors in psychiatric epidemiology.

Unit 2: Child Health

In this Unit, students assume limited clinical responsibility for the care of children. They are assigned, in small groups, to patients admitted to the paediatric services at the Queen Elizabeth Hospital and practice the keeping of accurate medical records.

Practical 'bedside' teaching takes placeat the Queen Elizabeth Hospital and the Government's polyclinics. Student performance is assessed by the Academic staff to whom students are assigned as they participate in the day-to-day responsibilities of patient care, under the supervision of resident and senior teaching staff.

This provides the opportunity to practice history taking and physical examination techniques especially those more specific to children and to make clinical case presentations. Students are taught to use clinical data to arrive at a working or differential diagnosis and how laboratory investigations are used for confirmation and to assist in patient care.

Stage 2, Years 4-5

Aims

- To introduce students to common disease processes in both hospital and community based settings
- To continue development of the generic clinical skills at both individual (history taking & physical examination) and community (health promotion) level
- To demonstrate the essential role of the laboratory services in the provision of excellent health care
- To focus on professional development by exploration of the legal and ethical aspects of safe medical practice
- To encourage critical thinking and insight into the role of research in health care
- To develop competency in the basic technical skills required of all modern physicians

Courses & Clerkships

Year 4

Anaesthesia & Intensive Care

Proposed Code: ANES 4001
Credits: 6

Year 4 (rotating)

The aim of this rotation is to provide knowledge and understanding of the preoperative evaluation and preparation, intraoperative anaesthetic management and post-anaesthesia care of surgical patients and the principles of management of critically ill patients. It spans a 5-week period overlapping with a ten-week, part-time clerkship in ophthalmology.

The clerkship builds upon the triad of anaesthesia, i.e. amnesia, analgesia and muscle relaxation, or "balanced anaesthesia" that was introduced during Stage 1 Pharmacology lectures. Students observe the practice of anaesthesia utilising drugs and/or techniques which provide each of the three elements, while minimizing the risk of complications. Students participate in the conduct of general, regional and local anaesthesia in the operating rooms and begin to develop proficiency with airway management, manual ventilation and cardiopulmonary resuscitation.

Dermatology

Proposed Code: DERM 4003
Credits: 4

Year 4 (rotating)

The clerkship consists of a 5-week rotation shared with Otolaryngology. It aims to expose students to the language of Dermatology and how this is used, to teach them how to carry out a proper examination of the skin and to familiarize them with the diagnosis and principles of management of common dermatological disorders particularly those seen in the Caribbean.

Community Health – Public Health and Evidence Based Medicine

Proposed Code: COMH 4002
Credits: 6

Year 4 (rotating)

This clerkship focuses on developing students' ability to apply population-level information in the treatment of individuals, as well as on understanding of communities' health, illness, and health care so that they can better appreciate the public health and resource implications of caring for individual patients. Students participate in a five-week on-site clerkship that includes lectures, polyclinic experiences and field visits in health education and environmental health, a public health project and a quantitative research investigation.

Students observe real-life settings and the primary health care system aimed at helping them to (a) think critically, evaluate information and apply their knowledge to public health problems (b) conduct research related to health care issues in general and under-served populations in particular, and (c) plan, implement and evaluate group education activities and relate these to the broader concept of health promotion.

The rotation uses an interdisciplinary approach to health care that includes nursing, environmental health inspection, nutrition, health promotion and social work.

Emergency Medicine

Proposed Code: EMRG 4004
Credits: 9

Year 4 (rotating)

This clerkship consists of a five-week rotation in the emergency room and introduces students to the discipline of Emergency Medicine. It includes exposure to trauma patients and to a broad spectrum of medical and surgical emergencies.

The rotation is important to general training since the emergency room provides students with an opportunity to see patients with a large variety of presenting complaints and to function as a member of a resuscitation team with close interaction with academic and hospital consultants.

Students are trained to differentiate very ill patients from those requiring less urgent medical care, enabling them to institute immediate life-saving intervention without full background knowledge of the patient's medical history. It also trains them to evaluate the 'undifferentiated emergency' i.e. a patient who presents with illnesses injury involving differing specialties.

Obstetrics & Gynaecology Junior Clerkship

Proposed Code: OBGN 4006
Credits: 6

Year 4 (rotating)

This 5-week clerkship aims to equip students with the knowledge and practical skills required by a general practitioner in order to advise and provide care for patients in the period surrounding pregnancy and delivery. Contraceptive methods are also outlined in the family planning clinics.

The rotation involves bedside teaching with emphasis on how to take an obstetric history and to perform a vaginal and abdominal examination of a pregnant patient. Antenatal care, labour and delivery, including resuscitation of the newborn and post natal care of the mother are taught and students are expected to carry out five normal deliveries under supervision.

Ophthalmology

Proposed Code: OPTH 4007
Credits: 4

Year 4 (rotating)

The aim of this clerkship is to introduce students to common ophthalmic disease and the fundamentals of an eye examination. Students are exposed to clinical examples of many common eye diseases such as cataract and diabetic retinopathy which are frequently seen in the primary care setting. They are taught the appropriate use of ophthalmic diagnostic equipment, how to diagnose common ocular conditions and how to recognize ocular emergencies that require referral.

Medicine, Law & the Humanities

Proposed Code: MHUM 4005
Credits: 2

Year 4 (rotating)

This course comprises aspects of Medical Ethics, Law and Spirituality (50 %), the History of Medicine (25 %) and Personal Development (25 %).

It aims to increase students' knowledge and awareness of important bioethical principles and ethical issues in the practice of medicine and to increase their knowledge and awareness of the historical contribution of individuals and events to the development of medicine and the medical profession. It also aims to equip students with the knowledge, skills and attitude which will enable them to be better teachers and leaders by improving their communication and presentation sklills. .

Small group sessions cover aspects of Medical Ethics, Law and Spiritual aspects of health care; the History of Medicine, including Caribbean medicine; and personal development and communication skills. Assessment includes written tests and an essay on a medical history topic of choice.

Orthopaedics

Proposed Code: ORTH 4008
Credits: 6

Year 4 (rotating)

The primary aim of the clerkship is to introduce students to the specifics of the examination of all parts of the musculoskeletal system and to the principles of management of common orthopaedic conditions especially those resulting from trauma.

Students see and assist in reparative and reconstructive surgery, and observe the work of the physical therapist, occupational therapist, social worker and the patients themselves. They are made aware of the adjustments that have to be made in cases of spinal injuries and other disabilities due to trauma, etc., not only by the patient but also by the family and friends and will see persons with disabilities functioning in different capacities, through the Rehabilitation Therapy Department at the Queen Elizabeth Hospital.

Radiology

Proposed Code: RADL 4012
Credits: 4

Year 4 (rotating)

The aim of this clerkship is to enhance the students' general awareness of the role of radiology in the management of patients. It provides opportunities to demonstrate normal radiological anatomy and pathology and emphasizes the role of various diagnostic imaging modalities, their limitations and contraindications. It provides guidelines for the interpretation of common radiological abnormalities and enables students to appreciate the value of interventional procedures, the risks associated with radiological procedures and how these may be minimised with respect to medical staff and patients.

Otorhinolaryngology

Proposed Code: ORLG 4009
Credits: 4

Year 4 (rotating)

This clerkship aims to provide students with a broad, introductory knowledge of otolaryngology, including the subspecialties of head & neck cancer, laryngology, otology, endoscopic sinus surgery, maxillofacial surgery, and paediatric otolaryngology. Students are taught how to take a focused history and to perform a thorough head and neck physical examination. Review of important head and neck anatomy facilitates their understanding of the outpatient, operative and peri-operative management of common disorders affecting the ear, nose, throat and maxillo-facial regions.

Pathology/Microbiology Clerkship

Proposed Code: PAMB 4010
Credits: 15

Year 4 (rotating)

This clerkship is aimed at helping the student to understand how abnormal structure and function of organs contribute to the pathogenesis and manifestations of disease. Students are also exposed to the functioning of the clinical laboratories, which allows them to appreciate the role of the laboratory in assisting with clinical diagnosis.

This rotation embodies areas of overlap between the basic and clinical sciences and facilitates integration between Stage 1 and Stage 2. It is run in collaboration with the Departments of Pathology & Microbiology and incorporates the sub-disciplines of Anatomical Pathology (inclusive of histopathology, cytopathology, and autopsy pathology), Chemical Pathology and Haematology

Psychiatry

Proposed Code: PSYC 4011
Credits: 6

Year 4 (rotating)

This clerkship aims to provide students with an opportunity to learn basic skills in the evaluation and management of patients with psychiatric problems through an integrated process which incorporates supervised practical experiences, didactic learning, tutorials, seminars and field trips.

Students are assigned to firms on the psychiatric ward at the Queen Elizabeth Hospital, where they are taught the essential skills of taking a psychiatric history and performing a mental status examination. They are taught how to make common psychiatric diagnoses and to recommend appropriate investigations and treatment. They are encouraged to utilize a holistic approach to the practice of psychiatry using bio-psycho-social principles and are expected to function as part of teams comprised of other mental health professionals.

Year 4 Elective

Proposed Code: ELCT 4000
Credits: 4 (pass/fail)

Year 4 (rotating)

This short elective period aims to provide students with the opportunity to gain experience in an area of special interest. They may elect to spend this time in any medical specialty or subspecialty at, or outside of the University Hospital of the West Indies, including overseas. Students are required to submit requests for their elective for approval ahead of time. The objectives of the elective are agreed and an elective supervisor is assigned.

On completion of the elective, an assessment form, signed by the elective supervisor must be returned to the Faculty indicating that the student's attendance and participation has been satisfactory and that the agreed objectives have been met.

Year 5

Child Health Senior Clerkship

Proposed Code: PAED 5001
Credits: 18

Year 5 (rotating)

The aim of this final paediatric clerkship is to provide the student with the necessary knowledge, skills and attitudes that will allow him/her to be competent in providing care for children. On completion, students should demonstrate competence and confidence in their clinical encounters with infants and children and have developed a holistic approach to providing health care for children and their parents while enhancing their own personal and professional development.

Community Health Clerkship: Family Medicine

Proposed Code: COMH 5002
Credits: 18

Year 5 (rotating)

The clerkship emphasizes skills in communication and consultation while at the same time presenting a bip-psycho-social model for patient care. The students will spend the clerkship at the General Practice Unit, Edgar Cochrane Polyclinic or at another polyclinic where they will see patients under supervision, and attend tutorials**.** As apprentices in clinical settings, they are given the opportunity to integrate and apply the appropriate knowledge and skills in addressing community health problems and in caring for individuals in an ambulatory care setting.

Year 5 Elective

Proposed Code: ELCT 5000
Credits: 9 (Pass/Fail)

Year 5 (rotating)

This elective aims to provide students with a second opportunity to gain experience in an area of special interest and to explore possibilities for future practice. They are encouraged to spend this period at institutions outside of the University Hospital (including overseas) and to undertake small research projects. This usually requires that requests to the Faculty for approval be submitted well in advance of the start of the elective.

On completion of the elective, an assessment form, signed by the elective supervisor must be returned to the Faculty indicating that the student's attendance and participation has been satisfactory and that the agreed objectives, including completion of any research component, have been met.

Senior Medicine Clerkship

Proposed Code: MEDI 5003
Credits: 18

Year 5 (rotating)

The aim of this Clerkship is to provide an opportunity for students to perfect their clinical skills and to improve their competence and confidence in the investigation and management of patients. As the final medical clerkship it is designed to prepare students for their pre-registration internship experience and provides hands-on experience with emphasis on clinical, bedside teaching on ward rounds and in outpatient clinics.

Obstetrics and Gynaecology Senior Clerkship

Proposed Code: OBGN 5004
Credits: 18

Year 5 (rotating)

The aim of this clerkship is to provide students with the knowledge, competencies and attitudes that will allow them to be proficient in providing appropriate care of women with gynaecological conditions and in managing all stages of pregnancy and delivery.

They attend family planning clinics for tutorials on family planning procedures and are assigned in small groups to the antenatal ward, antenatal clinic, labour ward and postnatal clinics where they have the opportunity to examine and monitor patients and to perform deliveries under supervision. They assist at operative vaginal and abdominal deliveries and clerk and present patients on ward rounds.

They clerk emergency and elective admissions to the gynaecological services and present their histories and findings. They also attend the operating theatres to assist with gynaecological procedures and visit the oncology clinic to observe colposcopy and ultrasonography.

Senior Surgery Clerkship

Proposed Code: SURG 5005
Credits: 18

Year 5 (rotating)

This clerkship aims to equip the students with a general body of knowledge, skills, and attitudes that is required for recognition of surgical diseases and an understanding of the management of patients with those diseases treated by surgeons. It aims to provide an active learning environment by allowing students to participate in the management of patients and to facilitate a smooth transition into their next stage of training as interns.

The basic skills of history taking and examination are refined and emphasis is placed on the judicious use of appropriate investigations to manage patients in a cost effective manner.