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Graduate studies is the most exciting period of learning. Having acquired broad knowledge in your field of study, you now move into the challenging arena of specialization that requires critical thinking, exploration of concepts, meticulous research and innovative application of theories.

I therefore commend The School of Graduate Studies, Research and Entrepreneurship for publishing this Prospectus for our prospective graduate students who feel the urge to launch out on a journey of discovery and self-actualization. As the University of Technology, Jamaica seeks to strengthen its role as the intellectual driver of national and regional development, we encourage, promote and invest in groundbreaking research coupled with a robust academia. This is how we create solutions and make our noble institution relevant to the needs of our people.

Many new and pertinent post-graduate programmes are being offered in keeping with UTech’s commitment to provide each student with every opportunity to learn, grow, develop, and reach their full potential as a valued member of the UTech community, the nation and the global workforce.

As the University celebrates its 50th year in providing education and training, we encourage our students and members of staff to continue their pursuit of knowledge through post-graduate study and research.

In an increasingly competitive global environment, we are prepared for the next 50 years of success and even greater achievement.

PROFESSOR THE HONOURABLE ERROL MORRISON, OJ
PRESIDENT
I am pleased that you are considering the University of Technology, Jamaica (UTech) as the place to continue your education. Our mission is to promote life-long learning, personal development and service to the community. The University is at a crucial point in its history where it aims to contribute to national growth and development by soliciting answers to some of the societal problems facing our nation, through graduate studies and applied research.

In April 2007 the University established the ‘virtual’ School of Graduate Studies, Research and Entrepreneurship (SGSRE), to replace the Office of Research and Graduate Studies (ORGS). The SGSRE is committed to ensuring that graduate programmes are of an excellent standard. In addition, SGSRE is poised to provide support in research, publication, and is one of the University’s income-generating centres.

It is my strong belief that graduate research in all disciplines is crucial to the development of a vibrant economy and to the world at large. It produces the cadre of professionals necessary to build industry, government and educational institutions as well as entrepreneurship, which in turn boost national and regional development.

In our efforts to expand the boundaries of knowledge and confirm the importance of graduate study at the University, we have identified strategies to respond to the challenges and opportunities that lie ahead. These include entrepreneurial ventures based on needs assessment and research, research fellowships, identifying and supporting focused research areas specific to the University’s goals, performance monitoring, as well as providing linkages among graduate studies, research and consultancy.

I implore you to discover the exciting opportunities for training with people of varied backgrounds, experiences and intellectual interests here at UTech, and assure you that we are committed to ensuring that this institution meets both your present and future academic needs.

PROFESSOR GOSSETT OLIVER, J.P.
VP, School of Graduate Studies, Research & Entrepreneurship
Since 1958, The University of Technology, Jamaica, and its predecessor institutes, have developed professional and technological education programmes designed to meet the needs of society. In keeping with this tradition, the University has developed and is rapidly expanding graduate programmes that are of practical relevance to Jamaica.

The School of Graduate Studies, Research and Entrepreneurship (SGSRE) leads and manages the development and delivery of these graduate programmes in line with international standards and best practices. The School ensures that graduate programmes are driven by industry support and applied research. Strong emphasis is placed on higher degrees by research as a driving force for academic, scholarly and societal development. As such, the number of graduate programmes has increased significantly.

The Faculties

- **The College of Health Sciences** formerly the Faculty of Health and Applied Science has the only School of Pharmacy and Health Science in the Caribbean. It also has a Department of Mathematics and Science. The Faculty has enjoyed a long and enviable tradition of offering courses which satisfy the national and regional needs in Pharmacy, Nursing, Environmental Health, Medical Technology, Health Science, Dietetics and Nutrition, Child Care and Development, Applied Statistics, Applied Science, and Science and Education.

- **The Faculty of the Built Environment** is the home of the Caribbean's only School of Architecture and also the School of Building and Land Management. Both Schools deliver top class programmes in the areas of construction engineering, land economy and valuation surveying, geographic information sciences, quantity surveying, and urban and regional planning.

- **The Faculty of Business and Management** is the University's largest Faculty. Its School of Hospitality and Tourism Management delivers a significant percentage of the workforce in the local Hospitality industry, and its School of Business Administration produces work ready graduates for business. The
Faculty's main programme areas are: accounting, administrative management, finance, management, marketing, food service management and hospitality and tourism management.

- **The Faculty of Education and Liberal Studies** is comprised of the School of Technical and Vocational Education and the Department of Liberal Studies. The Faculty prepares competent technical and vocational teachers in nine areas of specialization – Business Studies, Office Systems and Technology, Computing with Accounting, Clothing Textile and Design, Family Studies, Food and Nutrition, Construction Technology, Electrical Technology, and Mechanical Technology. The Faculty also equips student-teachers with leadership, administration and supervisory skills. It also offers communication and general studies courses to the University. Practising professionals are offered graduate training in education, educational leadership, and workforce education.

- **The Faculty of Engineering and Computing** has a long standing tradition of working closely with industry to provide engineering and computing professionals. The Faculty is made up of the School of Engineering and the School of Computing and Information Technology. Main programmes areas are: Mechanical Engineering, Electrical Engineering, Chemical Engineering, Computing and Information Technology and Computer Studies. Most of the Faculty programmes are linked to national and international professional organizations.

- **The Faculty of Law** was established in 2008. At present, the Faculty offers a Bachelor of Law Degree. The Faculty seeks to offer a Masters of Law Degree that takes an innovative approach to education, training and professional practice reflected in areas such as entertainment law, sports law, and intellectual property that support the emerging dynamic growth sectors of the economy.

- **The Faculty of Science and Sports** is the University's newest Faculty. It replaces and builds on the former Department of Science and Mathematics. It will offer programmes at both the undergraduate and graduate levels. Through relevant research and consultancy work, the Faculty will continue to contribute to the development of science and technology within the society. It will offer solutions to problems in industry by contributing the services of appropriate consultancy teams. The Faculty is made up of the School of Natural and Applied Sciences, the School of Mathematics and Statistics and the School of Sport Sciences.
Course of Study Description

The Master of Science in Health Administration is an 18 month full time taught post-graduate degree specially designed for health professionals, healthcare executives and managers who desire to advance their educational and professional career in Health Administration. The course will incorporate taught modules, practical modules, local and overseas internships and a major research project. The course will foster interactions between candidates and experts from major health care organisations. All candidates will be required to complete a 3 month overseas internship at a preselected recognised Institution. The course will provide Health Administrators, Managers and Health Care Professionals with skills critical to the leadership and management of the health care systems in Jamaica and the Caribbean region.

Course of Study Design

Candidates will be required to earn 43 modular credits on a full time basis over a period of one and a half calendar years (5 semesters). The course will include extensive internship based experience that will enable graduates to develop advanced problem-solving skills and ability to translate theoretical knowledge into applied administrative and managerial practices. The course will offer specializations in:

- Health Care Marketing,
- Information Technology and Systems,
- Hospital Administration,
- Public Health Administration,
- Medical Administration and
- Nursing Administration
All candidates must offer to undertake the following:
1. All core modules comprising 16 modules
2. One module of a discipline-specific specialization
3. One elective module
4. An internship placement of 6 months with 3 months spent overseas and 3 months spent at a local institution (credits will not count towards the degree; however a pass grade is mandatory for award of degree).
5. A research project requiring written and oral presentation

**Entry Requirements**

- Admission will be open to graduates of University of Technology in the Health Sciences,
- Graduates of accredited degree programmes in medicine, nursing, dentistry, environmental/occupational health, pharmacy and other allied health professions from approved tertiary institutions;
- Admission may be considered for other degree level certificates from recognized institutions. Candidates admitted among this group may be required to complete some additional modules to augment their health Sciences background;
- Applicants should possess a minimum of a Second Class Honours Degree or equivalent. Applicants with a pass degree may be required to complete qualifying modules (as determined by the University).
- Prior Learning Assessment route of entry-applicants who have pertinent experience and present such portfolios would be eligible for entry upon review on a case by case basis.

**Course Structure**

**Semester 1**

<table>
<thead>
<tr>
<th>Modules</th>
<th>Lecture hours</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Epidemiology and Population Health</td>
<td>30</td>
<td>2</td>
</tr>
<tr>
<td>Study and Evaluation of the Caribbean Health System</td>
<td>23</td>
<td>1.5</td>
</tr>
<tr>
<td>Corporate Strategic Planning and Management in Health Care Organisations</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td>Organizational Theory, Practice and Development</td>
<td>30</td>
<td>2</td>
</tr>
<tr>
<td>Financial Management</td>
<td>30</td>
<td>2</td>
</tr>
<tr>
<td>Operations Management and Programme Planning and evaluation in Health Care</td>
<td>30</td>
<td>2</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>188</strong></td>
<td><strong>12.5</strong></td>
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### Semester 2

<table>
<thead>
<tr>
<th>Modules</th>
<th>Lecture hours</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Policy and Ethics</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td>Health Care Quality Improvement and Performance Management</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td>Health Care Law and Risk Management</td>
<td>30</td>
<td>2</td>
</tr>
<tr>
<td>Health Economics and the Dynamics of Public/Private Sector Markets in Health Care</td>
<td>30</td>
<td>2</td>
</tr>
<tr>
<td>Negotiation, Communication and Managing Change in the Health Care Environment</td>
<td>23</td>
<td>1.5</td>
</tr>
<tr>
<td>Health Care Beyond Boundaries</td>
<td>15</td>
<td>1</td>
</tr>
<tr>
<td>Understanding the Language of Medicine</td>
<td>15</td>
<td>1</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>203</strong></td>
<td><strong>13.5</strong></td>
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### Semester 3

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<thead>
<tr>
<th>Modules</th>
<th>Lecture hours</th>
<th>Practical</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advance Health Systems Research and Methods for Health Services Management and Policy</td>
<td>30</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Introduction to Decision Analysis, and Statistical Analysis in Decision Making</td>
<td>30</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td>Disaster Mitigation and Management in Health Care</td>
<td>15</td>
<td>45</td>
<td>2</td>
</tr>
<tr>
<td>Specialization (only one)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marketing</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Information Technology and Systems</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Principles and Practice of Hospital Administration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Principles and Practice of Public Health Administration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Principles and Practice of the Medical Administration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Principles and Practice of the Nursing Administration</td>
<td>45</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Electives (only one)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health Professional Leadership Seminar</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health Care Financing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mediation and Negotiation in Health Care</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Managing Across the Continuum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Health Care Perspective – National, Regional and International</td>
<td>45</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>165</strong></td>
<td><strong>90</strong></td>
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Semester 4

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<tr>
<th>Modules</th>
<th>Lecture hours</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internship (local)</td>
<td>480</td>
<td>None</td>
</tr>
<tr>
<td>Research Project (commences)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Semester 5

<table>
<thead>
<tr>
<th>Modules</th>
<th>Lecture hours</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internship (overseas)</td>
<td>480</td>
<td>None</td>
</tr>
<tr>
<td>Research Project (continues)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Course of Study Duration**

One and a half calendar year (5 semesters)

**The Application Process**

Application forms can be obtained from the Admissions unit or downloaded from the University's website: www.utech.edu.jm

**Contact Us**

**College of Health Sciences**
University of Technology, Jamaica
Tel: 927-1680-8 ext. 2315
Course of Study Summary

The MPH course of study is a 12 month full time taught post-graduate degree designed for health professionals who hold an accredited bachelor's degree in a health related field from a recognised institution and wish to advance and diversify their educational and professional career. The course will incorporate taught modules, practical modules, clinical clerkship and a research project. The course will offer specializations in Nutrition and Dietetics, Environmental/Occupational Health, Public Health Nursing, Health Services Administration, Child & Adolescence Health Development, Health Education, Epidemiology, and Reproductive Health.

Course of Study Design

The Master of Public Health Degree requires candidates to earn 40-modular credits offered in 1 calendar year, or 3 consecutive summer semesters or other arrangements that may be agreed upon. All students must offer to undertake the following:

- All UTech Public Health core modules comprising 5 modules,
- A UTech cross-cutting/interdisciplinary modules consisting of 4 modules
- A discipline-specific/specialization module to be determined by the respective specialization areas (one module),
- An elective module
- A course externship placement including pertinent field trips at designated sites
- A Public Health discipline-specific research project.

Entry Requirements

- Admission will be open to all UTech graduates in the Nursing, Pharmacy, D/N, EH, CCD, MT, and other Health Sciences, and Allied Health programmes.
• Graduates of accredited degree programmes in medicines, nursing, dental, environmental/occupational health, Pharmacy and other allied health professions from other recognized tertiary institutions.

• Admissions may be considered for all other degree level certifications from recognized institutions in other fields. Candidates admitted among this group may be required to offer some identified additional modules to augment their Health Sciences background.

• Applicants should have a minimum of a Second Class Honors degree or equivalent. Applicants with a Pass degree would be required to complete qualifying modules (as determined by the University).

• Prior Learning Assessment route of entry-applicants who have pertinent experience and present such portfolios would be eligible for entry upon review on a case by case basis

Curriculum

Semester 1

<table>
<thead>
<tr>
<th>Module</th>
<th>Hours</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Socio-Psychology for Public Health</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td>Health Policy &amp; Community Health Practice</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Health Sciences</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td>Epidemiology</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td>Biostatistics</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td>Applied Research Methods</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>270</td>
<td>18</td>
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Semester 2

<table>
<thead>
<tr>
<th>Module</th>
<th>Hours</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diversity and Cultural Influences in Public Health</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td>Health Education and Health Promotion</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td>Programme Planning &amp; P/H Management</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td>* Professionalism &amp; Leadership for P/Health</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td>*Info-Com Tech/Teledicine for P/H Professionals</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td>**Discipline Specific Module</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total (5 Modules only)</strong></td>
<td>225</td>
<td>15</td>
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</tbody>
</table>

* Elective: Candidates will be required to do only one module.

** Discipline Specific Modules: (Nutrition and Dietetics, Environmental/Occupational Health, Public Health Nursing, Health Services Administration, Child & Adolescence Health Development, Health Education, Epidemiology II, and Reproductive Health): Candidates will be required to do only one Discipline Specific Module.
Semester 3

<table>
<thead>
<tr>
<th>Modules</th>
<th>Hours</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Project</td>
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<td>4</td>
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<tr>
<td>Clinical Rotation</td>
<td>240</td>
<td>3</td>
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<td>Total</td>
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**The Application Process**

Application forms can be obtained from the Admissions unit or downloaded from the University's website: www.utech.edu.jm

**Contact Us**

College of Health Sciences  
University of Technology, Jamaica  
Tel: 927-1680-8 ext. 2315
Course of Study Description

The Post-Baccalaureate Doctor of Pharmacy (Pharm. D) is taught post-graduate degree designed for highly motivated pharmacists who hold an accredited bachelor’s degree in pharmacy and desire to advance their educational and professional career. The course will focus primarily on the therapeutic management of conditions associated with the human biological systems along with elective modules that are unique to the Caribbean region. As a post-baccalaureate degree, the advanced content of the UTech Pharm.D. course of study complements practice experience and fosters a higher level of competence and autonomy. The course will include extensive clinical training that will enable graduates to develop advanced analytical and problem-solving skills and the ability to translate theoretical knowledge into clinical applications.

Course of Study Design

The Pharm. D course of study is organized according to the human body systems and requires candidates to earn 78 modular credits on a part-time basis over a period of three calendar years. The course is designed to incorporate taught modules, practical modules, clinical clerkship and a research project. The course will place heavy emphasis on the therapeutic management of conditions associated with the following systems:

- Digestive system
- Neurological-Psychiatric Systems
- Structural / Protective Systems
- Circulatory System
- Cardiac System
- Respiratory System
- Renal System
- Endocrine System
Entry Requirements

- Applicants should be registered practicing pharmacists with a Bachelor in Pharmacy (B. Pharm.) or equivalent from an accredited institution.
- Applicants should have a minimum of a Second Class Honours degree. Applicants with a Pass degree would be required to complete qualifying modules (as determined by the University).
- Applicants should have at least one year experience as a practicing pharmacist.

Curriculum

YEAR 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Modules</th>
<th>Lecture hours</th>
<th>Tutorial hours</th>
<th>Laboratory hours</th>
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<tbody>
<tr>
<td>1</td>
<td>Foundation Module</td>
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<tr>
<td></td>
<td>Clinical Pharmacokinetics</td>
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<td>45</td>
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<tr>
<td></td>
<td>Journal Club /Literature analysis and drug use evaluation</td>
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<td>-</td>
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<td></td>
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<td>-</td>
<td><strong>45</strong></td>
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<td>2</td>
<td>Fluids, electrolytes and acid-base disorders</td>
<td>15</td>
<td>-</td>
<td>-</td>
<td>1</td>
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<tr>
<td></td>
<td>Pharmaceutical Care: Renal Disorders</td>
<td>30</td>
<td>15</td>
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<td>3</td>
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<tr>
<td></td>
<td>Pharmaceutical Care: Circulatory and Haematological Disorders</td>
<td>45</td>
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<td></td>
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<td>3</td>
<td>Advanced Research Methods and Biostatistics</td>
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<td>Pharmaceutical Care: Cardiovascular Disorders</td>
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<td>Pharmaceutical Care: Auto-Immune Disorders</td>
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## YEAR 2

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<th>Tutorial hours</th>
<th>Laboratory hours</th>
<th>Credits</th>
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<tr>
<td></td>
<td>Pharmaceutical Care: Digestive Disorders</td>
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</tr>
<tr>
<td></td>
<td>Pharmaceutical Care: Respiratory Disorders</td>
<td>30</td>
<td>15</td>
<td>–</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Drug Interactions</td>
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<tr>
<td>Semester 2</td>
<td>Pharmaceutical Care: Endocrine Disorders</td>
<td>30</td>
<td>15</td>
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<tr>
<td></td>
<td>Pharmaceutical Care: Men and Women Health</td>
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<td>–</td>
<td>–</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Pharmaceutical Care: Oncology</td>
<td>30</td>
<td>15</td>
<td>–</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Subtotal</strong></td>
<td><strong>90</strong></td>
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<td>–</td>
<td><strong>8</strong></td>
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<tr>
<td>Semester 3</td>
<td>Pharmaceutical Care: Dermatological Disorders</td>
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<tr>
<td></td>
<td>Pharmaceutical Care: Neurological and Psychiatric Disorders</td>
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<td>15</td>
<td>–</td>
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<tr>
<td></td>
<td>Pharmacoeconomics</td>
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## YEAR 3

### Course of Study Duration

Three (3) years.

### The Application Process

Application forms can be obtained from the Admissions unit or downloaded from the University’s website: www.utech.edu.jm

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<table>
<thead>
<tr>
<th>Semester</th>
<th>Modules</th>
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<th>Tutorial hours</th>
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<tr>
<td></td>
<td>Pharmaceutical Care: Infectious Diseases</td>
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Course of Study Description

The course is designed to offer advanced learners the opportunity to function in a multi-disciplinary environment in their exploration and confrontation of issues relating to the built environment. The learners will advance skills, knowledge, and competence in areas such as Geographic Information System (GIS), project management, site analysis, and urban design and the interconnected issues in the built environment in Jamaica and the wider Caribbean. The MSc in the Built Environment investigates the links between the environment and the learner who will develop analytical and professional skills to promote sustainable development in developed and developing countries.

Course of Study Design

The minimum period for the MSc degree course of study is four continuous semesters over eighteen (18) month period completing 40 credits. The course consists of a series of eight (8) “core” modules:

- Research and Statistical Methods
- Project Management Principles
- Urban Governance
- Seminar in the Built Environment and Society
- Sustainable Land Development and Management
- Principles of GIS
- Transportation and Traffic Management Principles
- Seminar Series (Professional Ethics, Proposal and Codes and Regulations, etc.).

Additionally, candidates will complete four specialist modules, and a mandatory study tour. Six modules are offered in each area of specialization.
with the option of doing any four. Students may choose to specialize in any of the following four areas:

- Urban Design
- Land Management
- Geomatics
- Construction Management

**Entry Requirements**

Applicants must satisfy a minimum GPA of 2.75 resulting in a lower second class honours (B/B+ Bachelor’s degree) from an accredited institution in a discipline related to the built environment, plus letters of recommendation from a former lecturer and an employer. The applicant should also prove two years work within a relevant field associated with the built environment. Finally, the decision for acceptance will be based on a satisfactory interview with a committee from the faculty.

**Course of Study Content**

All the core modules are compulsory, accounting for 20 credits of the course. The remaining twenty credits are available from four (12 credits) of the six module options offered in each specialization area, plus two (2) credits from the study tour and six (6) credits from the thesis or course work.

**Core Modules**

**Semester One**

- Research and Statistical Methods 3 credits
- Project Management Principles 3 credits
- Seminar: Built Environment and Society 2 credits
- Urban Governance 2 credits

**Semester Two**

- Sustainable Land Development and Management 3 credits
- Principles of GIS 3 credits
- Transportation Administration Policy 3 credits
- Seminar Series 2 credits
AREAS OF SPECIALIZATION

LAND MANAGEMENT

Modules
- Applied Zoning and Land Use
- Resource and Environmental Planning
- Applied Land Economics
- Real Estate Development & Investment
- Traffic and Transport Management Principles
- Sustainable Transportation Systems Planning
- Study Tour

GEOMATICS

Modules
- Spatial Analysis and Modeling in GIS
- Advances in Modern Land Administration
- Mobile GNSS & GIS Application
- Applied Remote Sensing
- Cadastral System Design Analysis
- Traffic Management and Analysis
- Study Tour

CONSTRUCTION MANAGEMENT

Modules
- Strategic Waste Management
- Building Services and Maintenance
- Building Economics
- Hazard Mitigation and Disaster Management
- Contracts Management
- Transportation Facilities: Design, Operation and Maintenance
- Study Tour
**Urban Design**

**Modules**
- Urban Design Theory and Practice
- Urban Design Studios 1
- Urban Design Studios 2
- Infrastructure of the Urban Environment
- Urban Geology and Geomorphology
- Architecture and the Environment
- Study Tour

**Course of Study Duration**

The minimum duration is eighteen (18) months full time.

**The Application Process**

Application forms can be obtained from the Admissions department or downloaded from the University's website: [www.utech.edu.jm](http://www.utech.edu.jm)

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**Contact Us**

Faculty of the Built Environment
Tel: 927-1680-8 ext. 2256/2190
512-2256/512-2190
Fax: 970-2242
Email: Dr. Robin Osborne,
rosborne@utech.edu.jm
Course of Study Description

The Master of Architecture course at the Caribbean School of Architecture is the only professional course in Architecture in the English Speaking Caribbean. The course is internationally accredited in all countries of the former Commonwealth, providing for our graduates a choice of locations from which to practice their profession.

The Master’s Degree course is a professional course designed for those who have made a commitment to become Architects. As a graduate course it calls for students who are mature and self-motivated. As a professional course it calls for a disciplined approach to designing, writing, time management, presentation skills and most especially in the level of thought.

The course aims to fulfill two complementary objectives. Firstly, to educate architects to a high professional level, and secondly, to develop for the student and for the School a strong research base. These aims are mutually supportive – by learning how to research the student tackles new tasks with more confidence.

Course of Study Design

The Master of Architecture course is designed to provide opportunities in both design and written work for students to pursue areas of their own interest. The course is offered over four full-time semesters, providing a suite of courses aimed at linking architectural design with the theoretical and philosophical underpinnings of the discipline, within the context of the Caribbean region.

Courses are structured within the subject areas of History & Theory, Technology, Design Studio, Management, and Independent Research.
Required courses are as follows:

**M.Arch. 1**

- Design Studio 18
- Philosophies in Architecture 6
- Architectural Management 3
- Construction, Structure & Services Integration 6
- Architecture & the Environment 3

**M.Arch. 2**

- Design Studio 20
- Research & Dissertation 8
- Architectural Management 3

Approximately 70% of the total 67 credit hours are assigned to Design Studios and Independent Research.

**Study Tour**

A major component of the course is the 2-week Study Tour to a major metropolitan centre, which offers participants an opportunity to locate the theoretical constructs of the urban environment within the constructed realities of established metropoles. Cities visited on recent tours have included Washington DC., Boston, Mexico City. Future plans include visits to Curitiba, Brazil, and Santiago, Cuba.

**Research**

The Research Division of the Caribbean School of Architecture is contributing to the development of Caribbean culture generally, and the art and profession of Architecture in particular. The emphasis of the School’s research agenda is on Caribbean issues. Research is carried out both within the School as part of, or independent of the curriculum, and outside the School under the auspices of the School.

Valuable areas of research include: Development Issues, Urban Settlement Upgrading; Housing Delivery Systems; Historical Studies; Landscape, Climate and resources; Construction cost Indexing; Conservation and Regeneration: A Caribbean architecture.
Entry Requirements

Prospective applicants must have a BA (Hons.) Degree in Architectural Studies or equivalent.

Course of Study Duration

Two years full time

Application Procedure

To complete the application process, prospective applicants should:

• Submit a completed application form for the year in which entry is sought to the Admissions Department, University of Technology Jamaica.

• Submit the following supplemental documents to the Office of the Caribbean School of Architecture (no later than June for entry in September):
  i) A compact-sized copy of your portfolio.
  ii) A statement of 500 words in support of your application to study to become a professional Architect.

Applicants who are graduates with First Class or Upper Second Class honours may be exempted from the interview process. However, graduates with Lower Second Class honours will be interviewed.

Contact Us

Caribbean School of Architecture (CSA)
Faculty of the Built Environment
237 Old Hope Road
Kingston 6, Jamaica
Tel: (876) 977-5944
Fax: (876) 927-1353
Email: csa@utech.edu.jm
Course of Study Description

The Master of Business Administration degree integrates a strong balance of theory and practice that will enable aspiring managers to develop comprehensive analytical, problem-solving and people skills that can be creatively applied in the business world.

Course of Study Design

The MBA course consists of eight core courses and five concentration/specialization courses for a total of 12 courses or 36 semester hours. After completing the core course requirements, students develop expertise and specific insights in an area of concentration listed below:

- Management
- Finance
- Marketing
- Entrepreneurship
- Hospitality and Tourism Management

The duration of the course of study is 18 months and the mode of delivery is alternate Saturdays or Sundays.

Entry Requirements

Matriculants are normally expected to be holders of an undergraduate degree with the equivalent of 2.70 GPA or equivalent in Business or other related fields.

Prospective students will be required to submit the following, in order to be considered for admission to the course:

- completed application form in duplicate
- official transcripts from previous institutions
evidence of technological skills as demonstrated by work experience or assessment during the application process
- two (2) years of professional work experience as demonstrated by a current resume/portfolio
- two (2) letters of recommendation (one from current supervisor)
- written personal statement of intent
- interview with the Graduate Studies Unit (FOBM)

Course of Study Content

Students may be required to take an Academic Writing course through the Continuing Education Unit as well as the following:
- Macroeconomics or Microeconomics
- Fundamentals of Accounting
- Financial Management
- Statistics
- Core Course Requirement
- Core courses are the same for all specialization options. They are:
  - Managerial Accounting
  - Managerial Finance
  - Corporate Strategy
  - Economics for Strategic Decisions
  - Marketing in a Dynamic Environment
  - Managerial Decision Analysis
  - Business and Professional Ethics
  - Corporate Information Strategy and Management

Concentration Areas

In addition to the compulsory core courses, participants are required to take four courses (12 credit hours) in the area of their concentration.

MBA General Management (12 credits)

Participants who select this option will be equipped with a broad range of skills that will allow them to compete and manage in a dynamic, global business environment.
MODULES

- Leadership and Strategy Implementation
- Organizational Development & Change Management
- International Business
- Human Resource Management/Labor Relations

FINANCE SPECIALIZATION (12 CREDITS)

The courses in the MBA Finance degree specialization will prepare participants for both the national and international financial arena.

MODULES

- Financial Markets, Instruments and Institutions
- Financial Management of Multinational Corporations
- Investment Analysis and Portfolio Management
- Capital Budgeting and Long-term Financing Decisions

ENTREPRENEURSHIP SPECIALIZATION (12 CREDITS)

In this specialization, participants are provided with the skills to launch a new business and function successfully in an established corporation that employs entrepreneurial management strategies.

MODULES

- Fundamentals of Entrepreneurship
- Organizing and Operating a Small Business
- Entrepreneurial Financial Management
- Entrepreneurial Management and Venture Capital

MARKETING SPECIALIZATION (12 CREDITS)

This concentration focuses on the various strategies, processes and practical applications in meeting market demands and satisfying customer needs. Participants practice skills in various industries from both domestic and multinational perspectives.
**Modules**

- Global Marketing Strategy
- Marketing Research and Analysis
- Strategic Marketing
- Service Marketing

**Course of Study Duration**

Eighteen (18) month part time, with classes on the weekends

**The Application Process**

Applications are usually open from November to January of each year and can be obtained from the University’s Admissions office or the Graduate Unit of the Faculty of Business and Management

**Contact Us**

Research and Graduate Studies Unit  
Faculty of Business & Management  
Jamaica Institute of Management  
47 Hope Road, Kingston 10  
Tel: (876) 927-9704  
Email: tfrancis@utech.edu.jm
Master of Science in Finance course provides a superior education in all aspects of financial management by developing critical, scholarly and professional skills in all major fields of finance for students who aspire to have a career in the financial sector, profit and non-profit institutions. The course will permit participants to acquire advanced analytical skills while simultaneously developing social judgment in financial management to equip them to advance to high level positions in the finance industry.

The MSc in Finance course consists of 12 modules comprising of 8 core courses and 4 electives in two areas of specializations. The concentration areas are:

- International Banking
- Investment

Persons who are required to pursue remedial courses will do them in addition to the MSc in Finance courses. The modules will be taught in the evenings, during weekends and in two blocks of four to five days in the summer. State-of-the-art, modern day trading strategies will be incorporated in the course to enhance the capabilities of the finance graduate.

Matriculates are normally expected to be holders of an undergraduate degree with the equivalent of 2.70 GPA, or equivalent, in Business or other related fields.

Applicants to this course should have graduated from an undergraduate degree course and have adequate background in the areas of microeconomics,
macroeconomics, financial accounting and statistics. Applicants lacking these prerequisites will be given the opportunity to pursue preparatory modules before commencing this course of study.

Prospective participants will be required to submit the following, in order to be considered for admission to the course of study:

- official transcripts from previous institutions
- evidence of technological skills as demonstrated by work experience or assessment during the application process
- two (2) years of professional work experience as demonstrated by a current resume/portfolio
- two (2) letters of recommendation (one must be academic)
- written personal statement of intent

Prospective students will be interviewed by the Graduate Studies Unit (FOBM). In addition, applicants must meet all of the following requirements:

- School of Graduate Studies, Research & Entrepreneurship (SGSRE) requirements. Applicants must meet the requirements for entry into the SGSRE of the University of Technology, Jamaica. These include a four year bachelor’s degree or its equivalent from accredited institutions.
- Professional Experience. Applicants are usually expected to have at least two years of full-time work experience in finance.

Course of Study Content

CORE CURRICULUM

The MSc Finance course begins with an intense, core curriculum. Over the first semester term, participants will master fundamental techniques in financial statement analysis, financial modeling, stock and firm valuation, statistical analysis, regression analysis, and time series analysis.

Moving beyond the traditional lecture format, participants will practice techniques through software applications during regular class meetings and in weekly review and practice sessions during which they will learn extensive applications of techniques with widely-used software packages and real data.

CORE COURSES

- Quantitative Methods of Finance
- Commercial Bank Management
- Finance and Professional Ethics
Multi-National Financial Management
Corporate Strategy
Strategic Marketing
Financial Modeling
Small & Medium Enterprise Financing

**Concentrations**

(A choice of any four modules with each concentration)

**MSc Finance – Investment**

- Financial Economics
- Financial Markets and Institutions
- Financial Risk Management
- Investment & Portfolio Management.
- Human Resource Management
- International Monetary Economics

**MSc Finance – International Banking**

- International Monetary Economics
- International Bank Management
- Financial Statement Analysis
- Human Resource Management
- Financial Risk Management
- Credit Analysis

**Course of Study Duration**

- One year full-time
- Eighteen (18) months part-time

**Application Process**

Applications are usually open from November to February of each year and can be obtained from the University’s Admissions office or the Graduate Unit of the Faculty of Business and Management.
Contact Us

Research and Graduate Studies Unit
Faculty of Business & Management
Jamaica Institute of Management
47 Hope Road, Kingston 10
Tel: (876) 927-9704
Email: tfrancis@utech.edu.jm
Course of Study Description

The Postgraduate Diploma in Education aims at equipping instructors at the post-secondary and tertiary levels with pedagogical skills in their area of specialization. The course focuses on sensitizing educators to the effect of the quality of the instructional process on learning outcomes. Integral to the process are professional perspective, attitudes and ethics and their contribution to the totality of instructional performance.

Course of Study Design

The course runs from June of the initial year to August of the following academic year. It is designed in two consecutive summer modules, with an intervening practicum to facilitate teachers'/lecturers’ participating in the course with minimum disruption of their substantive teaching positions. It provides the opportunity to fuse theory and practice under formal supervision.

Each summer module runs for eight (8) weeks from mid-June to mid-August and requires full time attendance.

There is also a project/study to be completed by August of the second summer. Students are expected to work on the project in the period between the two summers modules. The study should be a meaningful situational analysis resulting in a proposed solution for an educational problem, based on the individual’s teaching experience and workplace frame of reference.

Entry Requirements

- At least a first degree or the equivalent from a recognized, accredited institution.
- Evidence of teaching at the required level for a minimum of one year.
• Evidence of being able to provide a teaching time-table to meet Practicum requirements of twelve (12) hours weekly, in an appropriate specialization at the required level

**Course of Study Content**

The course comprises 8 modules, a practicum exercise and a research project giving a total of 30 credits.

**Course Description**

*Educational Psychology*

This course provides the theoretical framework which undergirds the practical and technological aspects of teaching. Topics include: Theories of Learning, Motivation and Learning, Intelligence and Learning Styles and Managing the Learning Environment.

*Education and Society*

This course focuses on the dynamics and interaction between educational institutions and their social context. Topics include: Relations between Education and Society, Classical Sociological Theories of Schooling and Education and the Link between Education and National Development.

*Assessment of Learning Outcomes*

This course provides the foundation for a performance-oriented approach to teaching and learning. Topics include: Testing Theory, Measuring Achievement, and Interpreting and using Test Results.

*Instructional Methodology*

This course develops students’ skills for effective planning and delivery of courses at the college level, in keeping with the principles and practice of their area of specialization. Emphasis is placed on developing active learning experiences for adult learners, and using technology to enhance those learning experiences. Topics include: Teaching with Technology, Online Teaching, Teaching using Case Studies, the Lecture Method, and Planning for Delivery.

*Adolescent and Adult Education*

This course addresses the special needs of adult learners. Students develop competence in planning and conducting learning situations for the adolescent
and adult learner using appropriate learning methods and teaching strategies. Topics include: The Nature and Characteristic of Adolescent and Adult learners, Perspectives and Theories of Adult Learning, and Facilitating Adult Learning.

**Curriculum Development**

This course enables participants to analyse critically the philosophical, theoretical and practical issues pertinent to curriculum planning, development and implementation in various curriculum designs at the secondary and tertiary levels. Topics include: Foundations of Curriculum Planning, The Role of Philosophy in Curriculum Planning Process and Curriculum Design Alternatives.

**Research Methods**

This course prepares students to undertake research. It introduces participants to the basic knowledge and skills needed to identify and define suitable research topics. Topics include: The Role of Research in Training and Development, Principles of Scientific Research, Ethical Responsibilities of the Researcher, Quantitative Research, Qualitative Research, Methods and Techniques used in Educational Research, Investigation, Analysis and Reporting of a Formal Research Study useful in Education and Training.

**Professional Development Seminar**

This series of seminars encourages participants to reflect on various issues related to the teaching profession and to assess their own thoughts and behaviours in light of the topics discussed.

**Practicum**

The practicum is schedule for January to April after the first instructional module. Participants are supervised during their regular teaching schedule by mentors who guide the process and monitor and assess the progress of the participants. Mentors provide in lesson preparation and presentation.

**Structure of Courses**

**Module I (1st Summer)**

- Education and Society
- Assessment of Learning Outcomes
• Instructional Methodology
• Research Methods
• Practicum

**Module II (2nd Summer)**

• Adolescent & Adult Education
• Curriculum Development
• Educational Psychology
• Professional Development
• Final Project

**Contact Us**

Graduate Studies Unit
Faculty of Education and Liberal Studies
University of Technology, Jamaica
237 Old Hope Road
Kingston 6
Tel: 927-1680-8 exts.3138, 2415
Fax: 977-5704
Email: ksalmon-ferguson@utech.edu.jm
Course of Study Overview

The Masters in Educational Leadership and Management is designed to strengthen the leadership capacity of practising educational leaders and develop the leadership capabilities of emerging and aspiring leaders to meet the challenges of the contemporary educational environment. It is intended to serve practitioners in middle and senior management roles from all levels of the educational system who wish to proceed beyond a first degree while maintaining their jobs.

Career Outcomes

A Masters degree in Educational Leadership and Management positions practising and aspiring educators to assume a variety of leadership roles in education and training. These include: principals, vice-principals, department heads, programme directors, senior teachers, managers in secondary and tertiary institutions, education officers and others who hold academic management positions in educational organizations and agencies.

Course of Study Design

The course is designed for delivery to a cohort of part-time students over 24 months. Classes will be delivered on selected Fridays and Saturdays throughout the year. In addition, participants will attend for five weeks during the traditional summer school holiday periods.

The course comprises 36 credits as follows:

- a non-credit writing module
- five core courses – 15 credits
Course of Study Content

ACADEMIC WRITING SEMINAR

This module is designed to prepare students for writing at the graduate level. It aims to facilitate the development of strong analytical skills essential to academic writing. Areas to be covered include characteristics of academic writing, summary writing, critical analysis, APA referencing and language structures. Some issues related to the presentation of research papers such as writing the literature review and the findings will also be addressed.

It is a non-credit module that is a requirement for all masters students in the Faculty.

EDUCATIONAL LEADERSHIP: THEORIES AND PERSPECTIVES

This course introduces participants to a range of educational leadership theories. You will be encouraged to think about how you can use theory and research to improve your practice. Key areas include: The nature of educational leadership; Trait, Skills and Situational Approaches; Transformational leadership; Ethical leadership; Team leadership; Developing leadership skills.

INSTRUCTIONAL LEADERSHIP AND SUPERVISION

This course focuses on the educator as the leader of teaching and learning. It is designed to assist participants to develop a community of learners. Key areas include: Curriculum planning and development; Supervising and evaluating; Teaching and learning; Student needs, growth and development; Professional growth and development.

MANAGING EDUCATIONAL RESOURCES

This course focuses on the educator as leading the organization. It addresses the human and technical skills needed for financial, facility and human resource management in the educational environment. Topics include: Accountability; Strategic development plans; Budgeting; Securing, allocating
and managing resources; Staff deployment and delegation; Personnel recruitment and induction.

**Leading and Managing Change and Improvement in Education**

This course introduces participants to theories and applications for managing change and innovation that lead to improved performance. Topics include: The nature of change and transition; Building vision; Motivation and team building; Employee empowerment; Quality management; Performance measurement.

**Quality Assurance for Educators**

This course introduces the principles and practice of quality assurance management for those who have responsibility for programmes in schools and other educational settings. Topics include: Principles of quality improvement; Defining and measuring quality; Quality assurance tools in education; Standards and regulatory bodies; sustainability of quality assurance.

**Research Methods**

This course is designed to prepare you for undertaking meaningful individual research at the postgraduate level. It introduces you to basic knowledge and skills that will assist you in identifying and defining suitable research topics, and in planning and conducting research to improve the practice of education and training.

**Descriptive and Inferential Statistics**

This course addresses the techniques employed in the collection, organization and interpretation of numerical data for making effective decisions in education and development. It offers an understanding of empirical methods in the behavioural disciplines.

**Practicum in Educational Leadership**

This practical experience component is designed to provide you with an opportunity to initiate, implement and evaluate an intervention or change project aimed at improving your work environment. It further provides an opportunity for you to engage with private and public sector managers as well as university staff and your peers as advisors.
Special Features

- A range of elective courses: e.g. Law for Educators and Human Resource Management & Development for Educators.
- A practicum that encourages application of theory and principles
- Integration of technical and managerial skills with discussion of issues related to educational values and ethics

Entry Requirements

Admission to the Master of Education degree requires that you have a Bachelor's degree with a minimum grade point average of 2.7. You should be working in an educational or training institution or agency and have at least two years experience in a context that requires you to carry out leadership and management roles. In addition, you will be required to submit transcripts and satisfy an interview.

Contact Us

Graduate Studies Unit
Faculty of Education and Liberal Studies
University of Technology, Jamaica
237 Old Hope Road
Kingston 6
Tel: 927-1680-8 exts. 6010, 2415
Fax: 977-5704
Email: defrancis@utech.edu.jm
Course Overview

The MSc in Workforce Education and Development (WED) course is designed to accommodate individuals preparing for responsibilities in human resource development, training management and supervision in education, health, business, industry, government and other fields.

This flexible and comprehensive course successfully combines theory and practice, enabling participants to make meaningful application in a dynamic work environment. Highly qualified and competent staff provides a stimulating learning experience. Course delivery is shared by Faculty from UTech and adjunct faculty from other universities. The degree is awarded by UTech.

Course Design

The course is designed to run for 20 months, from January of the initial year to August of the next. Each module runs over seven consecutive days, excluding Sundays from 8:30 a.m. to 4:30 p.m. each day. Modules are scheduled at approximately six to eight-week intervals.

Course Content

The MSc (WED) course is modular in design, and comprises 11 courses and a research paper, giving a total of 40 credit hours. A credit hour equals 15 hours.
**Module Descriptions**

**Academic Writing Seminar**

This module is designed to prepare students for writing at the graduate level. It aims to facilitate the development of strong analytical skills essential to academic writing. Areas to be covered include characteristics of academic writing, summary writing, critical analysis, APA referencing and language structures. Some issues related to the presentation of research papers such as writing the literature review and the findings will also be addressed. *It is a non-credit module that is a requirement for all masters students in the Faculty.*

**Foundations of Work Education – 3 credits**

The module covers historical and philosophical foundations of work education. It includes the nature and role of education in preparing people for the world of work, with emphasis on the Caribbean.

**Occupational Analysis and Curriculum Development – 3 credits**

The systems approach to curriculum development will be introduced. This includes analyzing occupations, specifying objectives and developing curricula in education, training and development.

**Characteristics of the Clientele – 3 credits**

The module provides familiarization with the characteristics and programming needs of clientele served by various education and work-related programmes.

**Research Methods – 3 credits**

Research methods and techniques in identifying suitable research topics, planning, investigating and reporting of formal research will be covered in this module.

**Assessment of Learner Performance – 3 credits**

This module emphasizes the inter-relatedness of objectives and outcomes through the assessment process. The terminologies, concepts and methods of achievement and performance testing are covered.
**Training Systems Management – 3 credits**

The module gives insight and understanding into the administration and management of organizational training. Important competencies include the process of planning, organizing, staffing, budgeting, programming and evaluating a training organization.

**Programme Evaluation for Work Education – 3 credits**

The rationale and techniques for results-based evaluation of training and educational programmes are covered. Particular emphasis is placed on identifying training impact on evaluation outcomes.

**Administration and Supervision – 3 credits**

The module explores the nature function and techniques of administration and supervision of education course of studies for work.

**Individual Research – 8 credits**

The research process involves the selection and investigation of a research topic, culminating in a paper satisfying the research requirement for a Master of Science in Workforce Education and Development degree.

**Descriptive and Inferential Statistics – 3 credits**

Methods and concepts introduced in this course will be applicable to empirical research in all behavioural disciplines. Topics covered will stress the understanding, application, and interpretation of concepts. Software packages in statistics will also be introduced.

**Comparative Education in Workforce Training and Development – 2 credits**

Analysis of different educational programmes in workforce training and development will be covered in this module. Detailed topics include: historical and contemporary technical and vocational education, traditional and electronic classrooms, technical and vocational education in developed and under-developed countries.
**Trends and Issues in Quality Systems Management – 3 credits**

The module addresses trends and issues relevant to quality management. It focuses on the model requirements of the ISO-9000:2000 series, with specific emphasis on internal audits, documentation, implementation and registration. Learning activities will include the development of a quality manual with elements as defined in ISO-9000/2000.

**Entry Requirements**

A Bachelor degree with a minimum GPA of 2.7 or a lower second class honours. Persons below this requirement may be admitted as unclassified students but must obtain at least a B average over the first 12 semester hours.

Applications are generally open November to January. An application form can be obtained from the University’s Admissions Office on the presentation of the receipt for the application fee. The application form should be returned to the Admissions Office by the last working day in January. Late applicants are processed depending on the availability of spaces. Qualified applicants will be accepted on a first come basis. Persons intending to register for the course are advised to apply without delay for transcripts supporting their applications. Transcripts are to be forwarded by the institutions to:

**The MSc WED. Coordinator**
Postgraduate Office
Faculty of Education and Liberal Studies
University of Technology, Jamaica
237 Old Hope Road
Kingston 62
Jamaica

**Contact Us**

**Graduate Studies Unit**
*Faculty of Education and Liberal Studies*
University of Technology, Jamaica
237 Old Hope Road
Kingston 6
Tel: 927-1680-8 exts.2453, 2414
Fax: 977-5704
Email: jhall@utech.edu.jm
Course of Study Overview

The Masters of Arts in International Service is offered in collaboration with the International Partnership for Service-Learning, New York and the University of Roehampton, England (awarding institution).

These service-learning courses unite academic study and community service, so that the service makes the study immediate and relevant and the study relates to and supports the service.

Course of Study Design

Each course is equivalent to 4 U.S. credits, which are transferred to The University of Roehampton, Surrey, England. In addition to the required courses, MA students also begin their thesis preparation in Jamaica, for completion of the course of study by July of the following year at Roehampton.

Course of Study Content

CORE COURSES – ACADEMIC SUBJECTS

SOCIAL & CULTURAL HISTORY – 4 CREDITS

This course covers the history of Jamaican society and culture. The course objectives are: (1) to understand the link between European/North American economic policies and Jamaican economic, political, social and cultural development. (2) To analyze the role of race/colour, class and gender in defining a Jamaican national identity. Topics include European mercantilism and Slavery, Plantation Society and Culture, Self-Government and Independence, Globalization and Mass Media.
CONTEMPORARY CONDITIONS IN JAMAICA – 4 CREDITS

This course examines the Jamaican Family and community through a study of demographics, gender issues, housing, social networks, volunteerism/social change, employment, and other areas. It further explores social forces inclusive of economics and education that affect quality of life and contemporary conditions on the island. Students explore: The structure of the Jamaican economy and its historical development, the positions and relationships within the labour force in the light of the evolution of work and the preparation for work.

CULTURAL CONTEXT THROUGH LANGUAGE & LITERATURE – 4 CREDITS

This course is designed to assist students in developing an appreciation of Caribbean literature as expressions of Caribbean people. The course should also increase students' knowledge of the culture of the region as revealed in various literary and cultural works. Students are encouraged to read prose and poetry, view films and plays, and listen to popular music, recognizing all these as expressions that mirror Caribbean life. The course objectives are:

- To develop an awareness and appreciation of different literary forms in the Caribbean.
- To understand the impact of the history of the region as it is reflected in the literature and language.
- Appreciate the complexity of the Jamaican language context
- Identify major themes emerging in Caribbean literary and artistic forms
- Recognize these major themes as mirrors of Caribbean society
- Generate research on related topics and works

INTRODUCTION TO RESEARCH – THESIS IDENTIFICATION

This module encourages students to develop research and observational skills that will enable them to make the most of their time spent in the developing world. It will enable them to:

- Identify, critically review and select from a range of research tools for research on issues of development, social and political change.
- Develop, further, their observational skills and learn to apply them in cross-cultural settings.
- Identify, gather, and organize data in many forms as they apply to research in developing states.
Gain further field experience and training regarding case-study research, structures and semi-structured interviewed.

Learn and apply appropriate survey techniques, as they relate to research in the developing world.

**Service Oriented Courses**

*Case Study Credits – 4*

This course requires students to study the agency where they are serving from a micro perspective. Students must analyse the agency’s development in response to community needs, compare its mission, programmes and structures to the response that might be made to a similar problem in their home countries and cultures, and suggest opportunities for increased service to the community by the agency in the future.

**Reflection**

Each student is placed in an established service agency in the community, to serve under professional direction for about fifteen hours per week during the semester. Placement is done based on the student’s interest and skills and on the needs of the agency. No academic credit is given for the service itself. Rather, the service becomes an important resource for learning about the culture and is used, along with readings, class lectures, discussions and other experiences in producing the papers and assignments for the academic courses in an integrated way.

Students maintain a reflective journal based on the text “A Hero’s Journey”. The entries in these journals serve to stimulate discussions with a resource person on a weekly basis to ensure the understanding of contextual issues.

Some of the organizations in which the students are placed in Jamaica are:

- Cornerstone Ministries
- Women’s Centre of Jamaica Foundation
- Habitat for Humanity (Jamaica)
- Musgrave Home for Adolescent Girls
- Young Men’s Christian Association
- Young Women’s Christian Association
- The Jamaica Red Cross
- Jamaicans for Justice
- Foundation for International Self Help (F.I.S.H)
- Learning for Earning Activity Programme (L.E.A.P) Centre
- Glenhope Place of Safety
School of Hope for the Mentally Ill and Physically Challenged
Mustard Seed Community
Girls Town Jamaica
Maxfield Park Children’s Home
National Children’s Home

Contact Us

Graduate Studies Unit
Faculty of Education and Liberal Studies
University of Technology, Jamaica
237 Old Hope Road
Kingston 6
Tel: 927-1680-8 exts. 2414, 2419
Fax: 977-5704
Email: conyefulu@utech.edu.jm
Course of Study Description

The University of Technology, Jamaica offers four possibilities for graduate degrees by research:

- MPhil
- MPhil with transfer to PhD
- PhD

MPhil

Undertaking an MPhil Degree involves:

- Critically investigating and evaluating an approved topic.
- Demonstrating and understanding of research method appropriate to the chosen field.
- Presenting and defending a substantial thesis by oral examination of the examiner's satisfaction.

PhD

Undertaking a PhD degree involves:

- Critically investigating and evaluating an approved topic, with the investigation resulting in an independent, original and significant contribution to knowledge.
- Demonstrating an understanding of research methods appropriate to the chosen field.
- Presenting and defending a substantial thesis by oral examination to the satisfaction of the examiners.

PhD course of studies for students based overseas

Students may register for a research degree on the basis that they will conduct part of their work somewhere other than in Jamaica. Students who are registered on this non-resident basis must be able to visit UTech for on
average at least six weeks per year. An external supervisor of appropriate academic standing will need to be appointed in the student’s home country in addition to the student’s supervisor here.

There are also opportunities for international students to undertake a collaborative PhD programme offered by the University in collaboration with the student’s home university. Further details on these courses can be obtained from the SGSRE.

**Entry Requirements**

The normal entry requirement for the degree of MPhil, or MPhil with the intention of transferring to a PhD, is a first-class or second-class honours degree, or equivalent qualification. Applicants will be considered on their merits and in relation to the nature and scope of the work proposed. Applicants will be required to provide the names of two academic referees.

The normal entry requirement for the degree of PhD is a Masters Degree in a discipline which is appropriate to the proposed research and which has included research training and a research project. In exceptional cases, applicants who have a good honours degree (or equivalent) may apply for direct registration to the PhD if they have appropriate research or professional experience at graduate level which has resulted in published work, written reports or other appropriate evidence of accomplishment.

**MPhil / PhD Course of Study Diet Structure**

<table>
<thead>
<tr>
<th></th>
<th>MPhil</th>
<th>PhD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Dissertation</td>
<td>22 Credits</td>
<td>64 Credits</td>
</tr>
<tr>
<td>* Core Modules</td>
<td></td>
<td></td>
</tr>
<tr>
<td>– Research Methodology</td>
<td>3 Credits</td>
<td>3 Credits</td>
</tr>
<tr>
<td>– Advanced Statistics</td>
<td>3 Credits</td>
<td>3 Credits</td>
</tr>
<tr>
<td>Research Project – Specific Modules</td>
<td>9 Credits</td>
<td>12 Credits</td>
</tr>
<tr>
<td>3 Modules (3 credits each)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research Seminar</td>
<td>3 Credits</td>
<td>8 Credits</td>
</tr>
<tr>
<td>(1 per semester)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Conference Paper/</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Refereed Journal Paper</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>40 Credits</td>
<td>90 Credits</td>
</tr>
</tbody>
</table>

*Core modules are a function of the discipline*
The Research Project

- The research project, above all, should strive to provide high quality applied research for the real world – research that can improve the quality of people’s lives.
- Research students will be given the opportunity to work with individuals who are at the forefront in research in their field of interest.
- The research degree is designed to foster explicit links between research and professional practice and development.
- The research degrees provide a framework in which specific taught elements appropriate to graduate study can be combined with a substantial piece of original research.
- Research-specific taught courses will vary according to the nature of the individual research project.

Supervision

Every research student is supervised by a team consisting of a main supervisor and at least one other supervisor. The supervision team will have expertise in the relevant research area and experience of successfully supervising research degree candidates to completion of their degrees. The team should preferably include an external supervisor in order to make use of expertise and facilities available in other educational establishments or in industrial, commercial, professional and research organizations. Such collaboration also serves to broaden the perspective of the research. The Supervisory team must be chaired by the research student’s main supervisor.

Research Training

All Faculties run research methodology courses and seminars, often in the evenings or at lunchtime to facilitate students’ participation. The SGSRE also organizes a University-wide induction and research training course in general skills for research students, which cover topics such as:

- Time and project management
- The student/supervisor relationship
- Written an oral presentation skills
- Preparing for the oral examination
- Career development
Funding Support

It is expected that the majority of the students pursuing research degrees should be sponsored by an end user of the likely outcome of the research project. Sponsorship can take the form of members of staff seeking funds from donor agencies.

Research degrees fees are based upon the following:

- A limited number of published research papers will be paid for by SGSRE for each student.
- Collaboration with other universities for specific taught modules and usage of specialized equipment.
- Ancillary studies fees
- Research supervision time
- Payment of Adjunct Professor
- University administrative costs

Mode of Study: Full-Time or Part-Time

Candidates may register for a research degree on a full-time or a part-time basis.

Full-time students are normally expected to complete an MPhil degree within two years minimum or four years maximum and a PhD degree within three years minimum or six years maximum. Part-time students may take up to four years minimum to complete an MPhil and up to six years to complete a PhD.

Contact for further information

For further information or an informal discussion of research opportunities available in a particular subject area please contact the relevant Faculty Graduate Studies Coordinators or the SGSRE at:

School of Graduate Studies, Research and Entrepreneurship
University of Technology, Jamaica
237 Old Hope Road
Kingston 6, Jamaica
Tel: 927 – 1680-9 (Ext. 3139 / 3204)
Fax: 977 – 0606
Email: sgsre@utech.edu.jm
PHD IN HOSPITALITY AND TOURISM MANAGEMENT

Offered in collaboration with Oklahoma State University (taught programme)

Contact
Research and Graduate Studies Unit
Faculty of Business & Management
Jamaica Institute of Management
47 Hope Road, Kingston 10
Tel: (876) 927-9704
Email: nswaby@utech.edu.jm

MPHIL / PHD IN ENGINEERING

Specializations

• Chemical Engineering
• Electrical Engineering
• Mechanical Engineering

MPHIL / PHD IN COMPUTING

MPHIL IN INFORMATION SYSTEMS

Contact
Research and Graduate Studies Unit
Faculty of Engineering and Computing
University of Technology, Jamaica
237 Old Hope Road
Kingston 6
Tel: (876) 927-1680 ext. 2158
Email: fakinladejo@utech.edu.jm
Course of Study Description

The graduate program in pharmaceutics is designed to develop independent, creative scientists and professionals with adequate knowledge and skill base that can be applied in academic and industrial research and development. A major objective of this program is to produce the much needed man power for the Pharmacy course of the University of Technology, Jamaica and similar institutions in the Caribbean. It will also provide the highly skilled personnel required for the expansion of pharmaceutical and related products manufacturing, analysis, testing, validation and control in line with the WHO, OECD, ISO, World Bank and the International Regulatory requirements.

The course is packaged to develop suitably qualified candidates in advanced theory and practice of dosage form research and development, design, formulation, manufacturing control and analysis.

Course of Study Design

The MPhil Pharmaceutics course is comprised of forty-two (42) credits, 20 of which shall be taught modules and twenty-two (22) credits of research. The Ph.D. course consists of 92 credits, 20 of which is taught module credits and seventy-two (72) credits of research. Taught modules shall be delivered over the first two semesters. Modules offered may be subject to the available faculty in a semester/session. The summary of the structure is as follow:

**M. Phil. Course of Study**

(a) Twenty (20) credits of taught module

(b) Twenty-two (22) credit hours of research including four (4) credits of seminar in Pharmaceutics

**Ph. D. Course of Study**

(a) Twenty (20) credits of taught module

(b) Seventy-two (72) credit hours of research including eight (8) credits in seminar in Pharmaceutics
Entry Requirements

Candidates seeking admission to the M.Phil program in Pharmaceutics (Pharm. Tech. option) must possess a Bachelor’s degree in Pharmacy while those seeking admission to the M.Phil program in Pharmaceutics (Pharm. Analysis. option) must possess B.Sc. degree in Chemistry or Biochemistry of the University of Technology, Jamaica or any other recognized institution. Candidates shall either possess a taught Masters degree in Pharmacy including a research component or at least a Second Class Upper division or with a GPA of 3.0 or its equivalent.

Modules Summary

<table>
<thead>
<tr>
<th>Module Title</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Dosage form design and development</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Advanced Dispersed System and Stability of Pharmaceutical Preparations</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Pharmacometrics and Experimental Design</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Advanced Laboratory Based Research</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Advanced in Technology of Solid Dosage forms</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Modern Separation Techniques and Pharmaceutical Analysis</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Seminar and Directed Reading (1, 2 &amp; 3)</td>
<td>1</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>Total</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>M.Phil. Thesis</td>
<td>22</td>
<td>Continuous</td>
</tr>
<tr>
<td>Ph.D. Thesis</td>
<td>72</td>
<td>Continuous</td>
</tr>
</tbody>
</table>

Module Description

Principles of Dosage Form Design and Development (3 credits)

This module covers the basic composition of dosage forms, pre-formulation studies of factors influencing choice of dosage form, selection of formulation additives, ascertaining compatibility between active and additives, physicochemical properties of drug and additives that influence successful formulation in a safe, effective, stable and acceptable dosage forms.
**Dispersed Systems and Stability of Pharmaceutical Preparations (3 credits)**

A study of preparation and stabilization of colloidal and coarse dispersions, suspension, emulsion (including multiple phase emulsions), liposome-based formulations, surface and interfacial phenomena, rheology of dispersed systems.

**Pharmacometrics and Experimental Design (3 credits)**

Theoretical domains of research. Design of experiments – Systematic and randomized experimental designs, complete and incomplete block designs, parallel and cross-over designs, factorial experiments. Advanced methods of literature review and information gathering, assessment of research papers, organization of literature information. Research proposals and grants applications.

Review of data organization and analytical techniques, presentation of data, measures of central tendency (location) and dispersion, descriptive and inferential statistics, hypothesis testing, with emphasis on application of computer programs in analysis of parametric and non-parametric statistical data.

Report writing and communication of research findings.

**Advanced Laboratory Based Research (2 credits)**


**Advanced Technology of Solid Dosage Forms (4 credits)**

Powder handling and micromeritics, fundamental and derived properties of powders, formulation and manufacture of powder, capsule and tablet dosage forms. Concept of powder granulation – direct compression, dry and wet granulation, double compression or slugging. Encapsulation/microencapsu-
lation, coating and compression, end-point determination of pharmaceutical processes and the concept of machine instrumentation. Common problems encountered in solid dosage processing, and approaches to solving them. Quality control of solid pharmaceutical dosage forms – conventional and unconventional tests (disintegration, dissolution, crushing strength, friability, etc). Concepts of in vitro/in vivo correlations

**Seminar and Directed Reading (1 Credit)**

Seminars on review of literature related to students research topic and/or recent developments in pharmaceutical sciences that will guide the development of research proposal, identifying research questions and setting-up research hypothesis. Also, on topics relating to experimental design, methodology and proposed data analysis techniques. Weekly presentation of literature/research finding is also encouraged between student and supervisor to serve as foundation for the graded departmental seminars. At least one graded seminar must be presented each semester.

**Modern Separation Techniques and Pharmaceutical Analysis (4 Credits)**

This covers theory and application of separation techniques for low molecular substances such as drugs, larger molecular weight compounds such as biopolymers (e.g. proteins, DNA), chromatographic techniques, percolation, maceration, etc. Assay techniques for sensitive and accurate measurement of drugs and metabolites in biological matrices and application in Biopharmaceutics and pharmacokinetics.

Students will be exposed to a number of instrumental methods and their applications in pharmaceutical product analysis. Instruments to be discussed include UV-visible spectrometry, IR spectroscopy, HPLC, H-NMR & carbon 13 NMR, AAS, DSC/DTA. Biological methods of drug analysis – antimicrobial assays, immunoassays (EIA, ELISA)

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**Contact Us**

Dr Cliff Riley  
Faculty of Health and Applied Science  
University of Technology, Jamaica  
237 Old Hope Road, Kingston 6, Jamaica  
Tel: 927-1680-8 ext. 6287  
Email: criley@utech.edu.jm
Upcoming Graduate Programmes

DOCTOR OF BUSINESS ADMINISTRATION 2010.

General Contact
School of Graduate Studies, Research and Entrepreneurship
University of Technology, Jamaica
237 Old Hope Road
Kingston 6, Jamaica
Tel: 927-1680-9 (Ext. 3139, 3204)
Fax: 977-0606
Email: sgsre@utech.edu.jm

The Graduate Application Forms are available at the Admissions Unit or can be downloaded from the University website, www.utech.edu.jm