About FENC

In 1998 the University of Technology, Jamaica (UTech) was reorganized into five Faculties. Emerging from the rationalization of the university's academic and administrative units, the Faculty of Engineering and Computing (FENC) became an entity. FENC comprises the following schools:

- School of Engineering
- School of Computing and Information Technology

FENC is the second largest such faculty in the Caribbean region and it is also the second largest faculty within UTech.

Vision Statement

To be the preferred partner in providing education and training for engineering and computing scholarship in Jamaica and the Caribbean.

Mission Statement

Build an education and training framework that responds to local and regional needs by:

- Promoting excellence in staff, students and graduates.
- Emphasizing quality in teaching and research.
- Developing relevant curricula based on student-centred learning concepts.
- Fostering innovative use of technology in teaching methods and laboratory exercises.

- Maintaining a strong commitment to research, service and teamwork.
- Developing applied research projects for industrial renewal.
- Building collaboration with engineering and computing training institutions locally and internationally.

ENGINEERING & COMPUTING

Updated: February 2018

Application & Registration

1. Applications should be made on the prescribed form, which is available at the Student Affairs Office.

2. Course Participants are encouraged to register in advance by completing and submitting the application form

3. Final Payments should be made at least **two weeks** before commencement of the course. Payments are accepted in Cash, Debit/Credit Cards, or Manager's Cheques.

Cancellation

1. Courses may be cancelled where enrolment is insufficient, in which case, a refund of course fees will be made.

2. Student cancellation must be received one (1) week prior to the commencement of the course, failing which the individual or sponsor will be held responsible for the payment of fees.

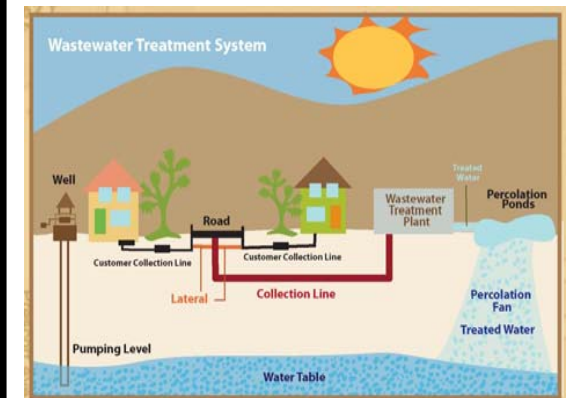## Contact

Student Affairs Office

Faculty of Engineering & Computing

University of Technology, Jamaica

237 Old Hope Road, Kingston 6

Phone: (876) 970-5163, 970-5165

University of Technology, Jamaica

Faculty of Engineering & Computing

Wastewater Management Training

"Solution Driven, Development Bound"

OBJECTIVE

Participants will cover the requirements for operator licensing under the Natural Resources Conservation (Wastewater and Sludge) Regulations 2013 which came into effect on April 24th, 2013. The programmes have been developed in partnership with National Water Commission, Jamaica and in collaboration with the Caribbean Regional Fund for Wastewater Management .

This training programme supports the following wastewater groups:
- Operators
- Managers
- Engineers
- Laboratory technicians
- Any government agency/officer in the management of the wastewater treatment system and utilities plants.

PRE-REQUISITES

Given the wide divergence in experience, education and skill sets of the trainees, a Prior Learning Assessment (PLA) exercise will be conducted for all trainees. The PLA will be a collaborative effort between UTech and the trainee's supervisor and will seek to match job descriptions with current qualifications and skill sets required so that deficiencies can be identified. Based on the findings of the PLA, trainees may first be channelled into one or more of the foundation courses.

Note: Foundation Mathematics & English are pre-requisites to Foundation Information Technology and Water Sciences

FOUNDATION COURSES

Course	Duration (Hours)
Foundation Mathematics	20
Foundation English	40
Foundation Information Technology	30
Foundation Water Sciences	20

COURSE OUTLINES

OPERATORS

	Hours
Wastewater Public Health & Environment	10
Introductory Water Microbiology	15
Environmental Engineering & Service Seminar	24
Plant Health & Safety	15
Reuse: Wastewater & Bio solids	15
Wastewater & Sludge Treatment Systems	26
Plant Preventative Maintenance	23
CSU Certification Exams	
Total Hours	**128**

MANAGERS

	Hours
Wastewater Public Health & Environment	10
Plant Health & Safety	15
Plant Preventative Maintenance	23
Environmental Engineering & Service Seminar	24
Reuse: Wastewater & Bio solids	15
Wastewater & Sludge Treatment Systems	26
Water & Wastewater Treatment Plant Operations Management	12
Legislative Framework For Wastewater	8
CSU Certification Exam	
Total Hours	**133**

ENGINEERS

	Hours
Wastewater Public Health & Environment	10
Introductory Water Microbiology	15
Environmental Engineering & Service Seminar	24
Plant Health & Safety	15
Reuse: Wastewater & Bio solids	15
Wastewater & Sludge Treatment Systems	26
Plant Preventative Maintenance	23
Hydraulics & Water Loads	15
Process Control Systems	12
Water & Wastewater Treatment Unit Design	20
Legislative Framework For Wastewater	8
Certification Exam	
Total Hours	**183**

REGULATORS/AGENCIES

	Hours
Wastewater Public Health & Environment	10
Introductory Water Microbiology	15
Environmental Engineering & Service Seminar	24
Plant Health & Safety	15
Reuse: Wastewater & Bio solids	15
Wastewater & Sludge Treatment Systems	26
Plant Preventative Maintenance	23
Legislative Framework For Wastewater	8
Water And Wastewater Testing	20
CSU Certification Exam	
Total Hours	**156**

LABORATORY TECHNICIAN

	Hours
Wastewater Public Health & Environment	10
Laboratory Safety	8
Introductory Water Microbiology	15
Water & Wastewater Testing	20
Plant Health & Safety	15
Wastewater & Sludge Treatment Systems	26
Certification Exam	
Total Hours	**104**

INSTRUCTIONAL/LEARNING APPROACHES

The Training Program will provide accessible training for sustainable water and wastewater operation and management using not only traditional classroom interaction, but also on-site hands-on practical laboratory exercises along with online approaches to facilitate delivery of a synchronised learning experience.

CERTIFICATION

Programmes will facilitate training and re-certification as required by governmental and regulatory agencies Additionally:
- Trainees who obtain an overall mark of 60% or higher will be awarded a "certificate of competence" from UTech
- Participants are registered to challenge the California State University (CSU) exams in water and wastewater operator and management training. Exams have to be completed within a 6 month period. Successful candidates will gain CSUS's Continuing Education Units (CEU). These CEU credits are transferable to other academic institutions
- Recertification will be done every 12 months via an online examination