



University of Technology, Jamaica

Caribbean Sustainable Energy & Innovation Institute
and
Faculty of The Built Environment



Master of Science

**SUSTAINABLE ENERGY AND
CLIMATE CHANGE**



PROGRAMME **INTRODUCTION**

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The multidisciplinary Masters degree is responsive to the global drivers for sustainable development linked to Energy and Climate Change solutions. The curriculum integrates multiple disciplines such as; engineering, natural and social sciences, humanities and the built environment. The MSc. in Sustainable Energy and Climate Change is consistent with global trends for carbon economic growth, innovation and green business development.

EXPECTED **OUTCOMES**

Upon completion graduates should be:



Critical thinkers who apply scientific principles to develop & implement policies, regulatory frameworks and standards for effective management and governance.

Able to articulate linkages between sustainable energy and climate change for a more holistic approach to energy and find solutions to minimize the region's dependency on



Able to use the tools and methods learned in the course of studies to set up and develop innovative green businesses.

Be transformative leaders for sustainable development.





COURSE **STRUCTURE**

Ten (10), Three (3) credit modules consisting of eight (8) compulsory modules and a choice of two (2) electives from the list, based on experience and interest.

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1

Research Methodologies

2

Sustainability of Energy Systems

3

Climate Change and Sustainable Lifestyles

4

Energy and Environment Policies, Regulations and Economics

5

Green Business and Green Growth

6

Energy and Environmental Data Management

7

Energy Management in Buildings and Industry

8

Green Entrepreneurship and Innovation

ELECTIVES

Students will select any two (2) of the following electives, based on area of interest, experience and qualification. Selection will be made after completion of the first six (6) modules.

- Solar PV Design and Implementation
- Ocean Resources Management
- Sustainable Transport
- Bio-Based Economy
- Smart Grid and Grid Management
- Sustainable Community Development
- Integrated Water Resources Management
- Climate Change and Sustainable Planning

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- ✓ 160 HOURS OF INTERNSHIP
Placement in appropriate organisation for application of learned skills
 - ✓ INNOVATION FOCUSED RESEARCH PROJECT
Ready for information and appropriately pitched



ENTRY

REQUIREMENTS

A BSc/BA with at least a 2.7 GPA in related disciplines
(engineering, natural sciences, social sciences).



OR

Any degree plus three years of **work experience**
in a related industry/field.



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ALSO CONSIDERED:

Five years of management level experience in the built environment, engineering or energy; disaster preparedness and mitigation, or the environment.

MODE OF DELIVERY



Classes will be delivered in a blended mode of face-to-face contact and online hours in order to facilitate the maintenance of full time employment.

DURATION: *20 months*



APPLICATION

INFORMATION

Find [application information and form](#) at:

www.utechjamaica.edu.jm/admissions/enrolment/graduate-students



CAREER OPPORTUNITIES FOR GRADUATES

A degree for
opportunities in an



Policy Development and
Analysis in Energy



Energy Demand Forecasting
and Low Carbon
Development



Energy
Management



Renewable Energy
Developers



Climate Change
Specialists



Disaster Risk
Managers



Sustainable Transportation
Planners



Sustainable Urban Planners
and Developers



Green Business
Entrepreneurs

**APPLY
TODAY**



FOR ADDITIONAL
INFORMATION

INSTITUTE ADMINISTRATOR

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ADMINISTRATIVE SUPPORT

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