THE UNIVERSITY OF THE WEST INDIES

INTERNATIONAL SCHOOL FOR DEVELOPMENT JUSTICE

MSc Sustainability and Data Analytics

- ✔ **Master of Science**
- ✔ **Postgraduate Diploma**
- ✔ **Postgraduate Certificate**

- Offered by: International School for Development Justice (ISDJ)
- Campus: Global Campus
- Delivery Mode: 100% Online | Asynchronous Learning
- Duration: 14 Months (Full-time) or 24 Months (Part-time)

Academic Aims and Objectives

The certificate, diploma, and MSc Sustainability and Data Analytics aim to produce graduates who are competent in using data science and its related skills to solve real-world problems related to the SDGs and move the world to a more sustainable future.

Goals

This programme aims to:

- Provide an understanding of sustainability, identifying opportunities for data science solutions and econometrics for sustainability analysis.
- Equip students with advanced machine learning concepts, real-world data analysis, and data manipulation skills.
- Help students develop practical data analysis, communication, visual presentation, dashboard building, research methods, and problem-solving abilities for a sustainable future.
- Cover research methods, sustainability research (e.g. Sustainable Development Goals), critical evaluation, and problem-solving abilities.

Objectives and Learning Outcomes

At the end of this programme, students will be able to:

- Evaluate sustainability and challenges and communication of opportunities for data science/machine learning.
- Explain machine learning and its application to sustainability issues.
- Communicate machine learning model results to stakeholders.
- Write Python programs for data manipulation and visualization of sustainability data.
- Build data dashboards using Excel and Google Sheets

- Interpret architecture diagrams for data pipelines.
- Apply machine learning concepts to address issues in sustainability.
- Write technical documents for effective communication of research findings.
- Interpret official publications and research using descriptive statistics and distributions.
- Implement econometric techniques in Python for real-world data analysis.

Career Pathways

Graduates of the programmes in Sustainability and Data Analytics will be prepared for leadership roles in:

- **Sustainability Analytics:** Data analysts, sustainability consultants, and ESG (Environmental, Social, Governance) analysts in corporations and consulting firms
- **Environmental Data Science:** Climate data scientists, environmental modelers, and conservation data specialists
- **Policy and Development:** Data advisors for international development organizations, NGOs, and government agencies focused on SDG implementation
- **Research and Academia:** Sustainability researchers, research analysts, and academic positions in data-driven sustainability studies
- **Social Impact Organizations:** Data strategists for social enterprises, impact measurement specialists, and program evaluation analysts
- **Corporate Sustainability:** Sustainability managers, corporate social responsibility analysts, and business intelligence specialists focused on sustainable practices

Entry Requirements

Degreed Applicants: At least a bachelor's degree or equivalent from a university or college acceptable to The University of the West Indies, with at least a GPA of 2.5.

OR

Pass-Degreed Applicants: Students with pass degrees will be considered if they have at least two (2) years of post-degree work experience, particularly in a related field.

OR

Technical and/or professional qualification(s) awarded by an approved body recognised by The University of the West Indies and having a minimum of two (2) years' experience.

Alternative Entry

Non-Degreed or Certified Applicants: Applicants who do not meet the standard academic requirements may be considered based on:

- An interview with a select panel of the Campus Entrance Committee
- Significant relevant professional experience (minimum 5 years) in sustainability, data analysis, or related fields
- Professional certifications in data analytics, sustainability, or related areas
- Completion of the pre-programme qualifying course

Additional Requirements

- Proficiency in English (IELTS 6.5 overall with no band below 6.0, or equivalent)
- Basic familiarity with spreadsheet software (Excel/Google Sheets)
- Access to a computer with internet connectivity for online learning
- Current CV/resume

Programme Structure

Stackable Credentials

The programme offers flexible pathways to accommodate different career stages and learning goals:

Applicants can apply for direct entry to:

- Postgraduate Certificate and ladder up to the Postgraduate Diploma and then to the MSc

  OR
- Postgraduate Diploma and then to the MSc

  OR
- MSc

Master of Science (36 credits)
(includes 12 credits from PgCert or 21 credits from PgDip

Postgraduate Diploma (21 credits)
(includes 12 credits from Postgraduate Certificate

Postgraduate Certificate (12 credits)

Programme Components

Master of Science (36 credits)

- Six 3-credit core courses (18 credits)
- Four 3-credit elective courses (12 credits)
- One 6-credit final project course (6 credits)

Postgraduate Diploma (21 credits)

- Five 3-credit core courses (15 credits)
- Two 3-credit elective courses (6 credits)

Postgraduate Certificate (12 credits)

- Four 3-credit core courses

Why Choose This Programme?

- **Industry-Relevant Skills:** Master in-demand tools including Python, machine learning frameworks, and data visualization platforms
- **SDG-Focused Curriculum:** Directly aligned with the United Nations Sustainable Development Goals for maximum real-world impact
- **Flexible Learning:** 100% online delivery allows you to study while maintaining professional commitments
- **Practical Application:** Project-based learning with real sustainability datasets and case studies
- **Global Perspective:** Learn alongside international peers and engage with global sustainability challenges
- **Career Advancement:** Laddered qualification structure allows you to earn credentials while progressing toward the full MSc
- **Expert Faculty:** Learn from experienced practitioners and academics at the forefront of sustainability and data science

Application Process:

- Complete the online application form via the ISDJ website
- Upload required documents (transcripts, CV, personal statement, references) to Qualification Check™
- Verify your identification also at Qualification Check™
- Pay the non-refundable application fee
- Attend an online interview (if required)
- Receive admission decision within 3-4 weeks

Required Documents:

- Certified copies of academic transcripts and certificates
- Two reference letters
- Current CV/resume
- Proof of English language proficiency (if applicable)
- Copy of passport or national ID

Key Themes & Learning Outcomes

The Opportunity:

Organizations worldwide need professionals who can analyze sustainability data AND understand what it means. Most data scientists don't know SDGs. Most sustainability experts can't code. **You'll do both.**

This programme directly advances

SDG 13 (Climate Action),

SDG 9 (Innovation), and

SDG 17 (Partnerships)

Four Capabilities That Set You Apart

1. Sustainability Data Translator

Transform ESG commitments into actionable intelligence. Build machine learning models that predict climate risks, optimize impact investments, and guide executive decisions worth millions.

2. Technical Mastery Employers Demand

Master Python, machine learning, econometrics, and dashboard building—the exact skills in sustainability job postings. Graduate with a portfolio of working models and code repositories to showcase in interviews.

3. Real-World Problem Solver

Apply data science to challenges that matter: measuring SDG impact, tracking net-zero progress, forecasting climate risks, proving ROI on sustainability initiatives. Work on problems organizations will pay to solve.

4. Influential Communicator

Present findings to boards, write reports that influence policy, build visual narratives that drive change. Technical brilliance only matters if you can make stakeholders act on it.

Mode of Delivery

- The programmes will be delivered asynchronously online
- Flexible access for working professionals worldwide
- Minimizes disruption to work and family life

Who Should Apply?

This programme is ideal for:

- Health professionals, policy makers, and government workers
- IT professionals entering the health field
- NGO staff and development practitioners
- Recent graduates with a background in health, social sciences, or information technology
- Anyone seeking to lead digital transformation in the health sector

Programme Fees (USD)

Graduate Programmes	Fees
Masters (Direct Entry)	$10,000.00
Pg Diploma (Direct Entry)	$7,500.00
Pg Certificate (Direct Entry)	$3,500.00
Pg Diploma (if applicant holds *certificate)	$4,500.00
Masters (if applicant holds the *certificate)	$9,000.00
Masters (if applicant holds the *diploma)	$4,500.00

*Must correspond to higher level programme for which you are applying.

Sustainability and Data Analytics Programmes

Graduate Certificate	Graduate Diploma	Master
12 Credits	21 Credits	36 Credits
Introduction to Python and the SDGs	Introduction to Python and the SDGs	Introduction to Python and the SDGs
Introduction to Mathematics of Machine Learning	Introduction to Mathematics of Machine Learning	Introduction to Mathematics of Machine Learning
Introduction to Data Wrangling	Introduction to Data Wrangling	Introduction to Data Wrangling
Machine Learning Basics	Machine Learning Basics	Machine Learning Basics
	Introduction to Econometrics for Sustainability	Introduction to Econometrics for Sustainability
	2 Electives	Research Methods
		4 Electives
		Final Project in Sustainability

Contact Information

Programme Enquiries:

Email: admissions.isdj@uwi.edu

Technical Support:

Email: helpdesk.isdj@uwi.edu

Website: www.uwi.edu/isdj/

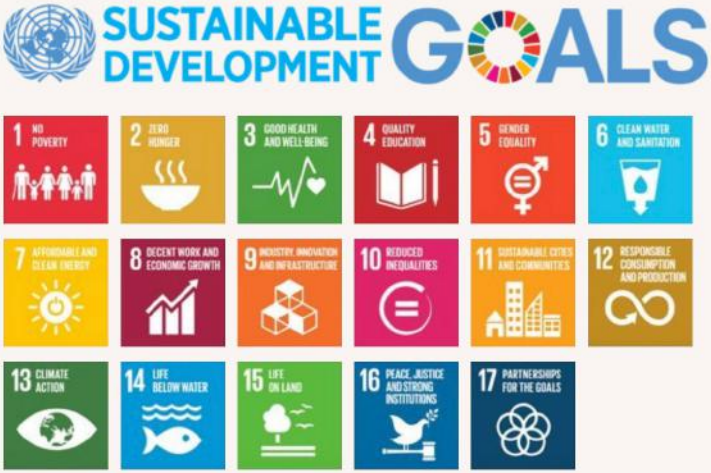
Social Media:

Follow us for programme updates, student stories, and industry insights

@ISDJUWI

Become a leader in advancing peace, justice, and strong institutions for sustainable development. Contribute to achieving SDG 16 in the global South. Apply today!

Apply for the Programme: Sign Up!



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ACCREDITATION BOARDS

The following accreditation agencies have granted the Campus, and by extension, the ISDJ, mutual recognition of the accreditation decision by the BAC:

Grenada National Accreditation Board

Higher Education Licensing Board, Anguilla

National Accreditation Board of St. Vincent and the Grenadines

National Accrediting Board, Dominica

St. Christopher and Nevis Accreditation Board

Technical and Vocational Education and Training and Accreditation Unit, St. Lucia

National Accreditation and Equivalency Council of The Bahamas

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