<div class="printBefore">
<h1 class="pageTitle">FIN41910 Green Data Science</h1>
<h2>Academic Year 2019/2020</h2>

This module provides students with a comprehensive understanding of data science concepts and applications to the field of sustainable finance and business. The module introduces students to the data value chains underpinning sustainable finance and business decision making, to the statistical techniques for modelling the impacts and progress towards the Sustainable Development Goals (SDGs) and to data driven approaches to identifying green- washing in environmental reporting. The module will also critically review whether and how new financial technologies (such as AI or blockchain) may be used to solving sustainable development issues. The module features seminars from data science professionals working on sustainable development issues, as well as a practical data science group project.

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What will I learn?

Learning Outcomes:

On successful completion of this module students should be able to:

- 1. Explain how different statistical techniques can be applied to the modelling and monitoring of SDGs.
- 2. Demonstrate a comprehensive understanding of the practical implementation of green data science projects.
- 3. Critically evaluate data completeness and coverage on SDGs.
- 4. Implement data processes and robustness checks for Anti-Green-Washing.
- 5. Critically assess whether and how new financial technologies may be applied to the field of sustainable development.

How will I learn?

Student Effort Hours:

Student	Hours
Effort Type	
Lectures	24
Autonomous	136
Student	
Learning	
Total	160

Am I eligible to take this module?

<div class="subHeadCB">Requirements, Exclusions and Recommendations</div>

Not applicable to this module.

<div class="subHeadCB">Module Requisites and Incompatibles</div>

Not applicable to this module.

How will I be assessed?

Assessment Strategy

Description	Timing	Open Book	Component	Must Pass	% of Final
		Exam	Scale	Component	Grade
Assignment:	Throughout	n/a	Pass/Fail	No	10
Online python	the Trimester		Grade Scale		
introductory					
course					
Essay: 3,000	Week 8	n/a	Graded	No	50
word essay					
on a current					
topic in green					
data science					
Group	Week 11	n/a	Graded	No	40
Project:					
Group data					
project					

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<div class="row"> <div class="col-sm-6"><span class="subHeadCB">Carry forward of passed components </span> Yes</div> </div>
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What happens if I fail?

Resit In	Terminal	
	Exam	
Summer	Yes - 2 Hour	

Assessment feedback

Not yet recorded

Reading List

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<h1 class="printOnly"> UCD Course Search

Green Data Science (FIN41910) </h1><h3 class="printOnly">Academic Year 2019/2020</h3>The information contained in this document is, to the best of our knowledge, true and accurate at the time of publication, and is solely for informational purposes. University College Dublin accepts no liability for any loss or damage howsoever arising as a result of use or reliance on this information.</m>

<h4 class="noPrint">Green Data Science (FIN41910)</h4>

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  <dt>Subject:</dt>
  <dd>Finance</dd>
  <dt>College:</dt>
  <dd>Business</dd>
  <dt>School:</dt>
  <dd>Business</dd>
  <dt>Level:</dt>
  <dd>4 (Masters)</dd>
  <dt>Credits:</dt>
  <dd>7.5</dd>
  <dt>Trimester:</dt>
  <dd>Spring</dd>
  <dt>Module Coordinator:</dt>
  <dd>Dr Theodor Cojoianu</dd>
  <dt>Mode of Delivery:</dt>
  <dd>Not yet recorded</dd>
<dt>Internship Module:</dt><dd>No</dd>
<dt>How will I be graded?</dt>
<dd>Letter grades </dd>
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