



Fundamentals in Environment and Sustainability

Francisco Ferreira, Course Coordinator

Maria Godinho, Teaching Assistant

Myself

- **Francisco Ferreira**
- Environmental Engineer
- Associate Professor with the NOVA School of Sciences and Technology (www.fct.unl.pt/)
- Air quality and Climate researcher (CENSE) (www.cense.fct.unl.pt/)
- Extra: President of ZERO (www.zero.org)



Teaching Assistant

- **Maria Godinho**
 - Bsc Industrial Engineering and Management, Instituto Superior Técnico
 - Msc Management Engineering, Politecnico di Milano
 - Sustainability Consultant, Systemic (<https://www.systemic.pt/>)
 - Teaching Assistant, NOVA SBE
 - As a consultant I support companies on the transition for a more sustainable way of doing business.
 - Most of my work concerns circular economy, carbon footprint calculation, green logistics and impact measurement.
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- **Part A: Concepts**

- Water
- Earth
- Air

- **Part B: Tools and Practices**

- Manage a limited planet
 - Sustainability assessment and reporting
 - Impact assessment
 - Innovative and collaborative tools
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Date	Parts	Themes	Responsability
05/02/2025	A- Concepts	Living in the Environment	Francisco Ferreira
12/02/2025	A- Concepts	WATER - Water resources (the water cycle; water management)	Paulo Diogo
26/02/2025	A- Concepts	WATER - Water resources (the urban cycle)	Leonor Amaral
05/03/2025	A- Concepts	EARTH - Solid waste	Mário Ramos
12/03/2025	A- Concepts	AIR – Assuring air quality for all	Francisco Ferreira
17/03/2025	A- Concepts	AIR – Climate change, evidences, drivers and mitigation	João Pedro Gouveia
25/03/2025	A- Concepts	Mid-term (1st) test	Francisco Ferreira
02/04/2025	A- Concepts	EARTH - Soil, ecosystems and biodiversity	Nazaré Couto
09/04/2025	B - Tools and Practices	How to manage a physically limited planet?	Patrícia Fortes
23/04/2025	B - Tools and Practices	Environmental Impact Assessment & Strategic sustainability assessment	Tomás Ramos
30/04/2025	B - Tools and Practices	Sustainability pathways and assessment	Rita Lopes
07/05/2025	B - Tools and Practices	Group work presentations	Francisco Ferreira
14/05/2025	B - Tools and Practices	Innovative tools for environmental management	Theo Fernandes
22/05/2025	B - Tools and Practices	Final (2nd) test (exam date)	Francisco Ferreira

Programme

Grading

- **45%** - Two multiple choice tests under moodle (first one, Mid-term period most of “Concepts” part (50% out of 45% or 22.5% out of total grade), and other in the exam date for the left-over of the “Concepts” part and all “Tools and Practices” part (50% out of 45% or 22.5% out of total grade); no discounted questions; corrected to maximum right answers within the test by the class
 - **March 25th** (mid-term) / **May 22nd** (exam date)
 - **45%** - Group work (up to four members) (Presentation 15% (1/3) of final grade)
 - Individual mid-term meeting between TA and each group
 - Group and topic deadline: **Feb. 26th**; Presentation: **May 7th**; Deadline: **May 12th**
 - **10%** - 75% of the best grades of simple group or individual assignments delivered at the end of each class; best 9 assignments out of 12
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Support

- All materials in moodle including general (old...but legally free 😊) textbook (password – “EnvSust”)
 - No Teams support
 - Contacts:
 - Francisco Ferreira ff@fct.unl.pt (preferably) or francisco.ferreira@novasbe.pt (coordination) + videoconferencing on demand
 - Maria Godinho maria.godinho@novasbe.pt (TA)
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Mentimeter

Where do you come from?

