Nottingham Business School Nottingham Trent University

Mainstreaming the Sustainable Development Goals (SDGs) in universities

Dr Petra Molthan-Hill

Professor of Sustainable Management and Education for Sustainable Development and Co-Chair UN PRME Working Group on Climate Change & the Environment, former Lead of NTU's Green Academy, Nottingham Trent University











Introduction

Dr Petra Molthan-Hill is Co-Chair of the United Nations Principles for Responsible Management Education (PRME) Working Group on Climate Change and Environment and Professor of Sustainable Management and Education for Sustainable Development (ESD) at Nottingham Business School, Nottingham Trent University, UK. She is an international multi-award-winning expert for Climate Change Mitigation Tools, Greenhouse Gas Management and ESD and leads the 'Climate Literacy Training for Educators, Communities, Organizations and Students' (CLT-ECOS) distributed worldwide.

She has worked with organizations from SMEs to bigger organizations like the NHS on how to reduce GHG emissions and is lead author of the 'Handbook of Carbon Management. A Step-by-Step Guide to High-Impact Climate Solutions for Every Manager in Every

Function 'https://www.routledge.com/The-Handbook-of-Carbon-Management-A-Step-by-Step-Guide-to-High-Impact-Climate/Molthan-Hill-Winfield-Howarth-Mazhar/p/book/9781032227603

https://mitsloan.mit.edu/centers-initiatives/sustainability-initiative/beyond-ivory-tower-professor-who-shows-en-roads-to-everyone











The NTU Green Academy aims

to ensure everyone at NTU is

able to acquire the skills and

knowledge necessary to shape a more sustainable future and

contribute to a better world!







NTU Green Academy











































TRENT UNIVERSITY









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@NTUGreenAcademy

#BeTheChange

#GlobalGoals





















WILLATS, J., ERLANDSSON, L., MOLTHAN-HILL, P., DHARMASASMITA, A. and SIMMONS, E., 2018. A university wide approach to integrating the sustainable development goals in the curriculum – a case study from the Nottingham Trent University Green Academy. In: W. LEAL FILHO, ed., Implementing sustainability in the curriculum of universities: approaches, methods and projects. World sustainability. Berlin: Springer, pp. 63-78.



The Sustainable Development Goals at Nottingham Trent University integrated since 2016



Curriculum Refresh

The SDGs were embedded in the university-wide course evaluation process Curriculum Refresh in 2016.

Student Outreach

Seeking feedback from students on how they would like to embed the SDGs in their courses

Staff development

Online course for staff on how to embed and teach the SDGs

NTU and SDG 13
CLT-ECOS

Future Thinking Learning Room

An online resource library containing resources, estate and community case studies and examples of good practice, all linked to the SDGs

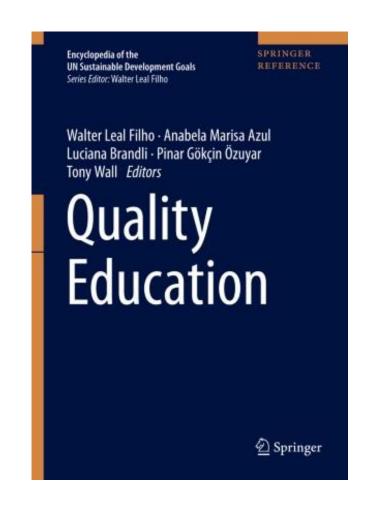
Sustainability in Practice

Getting students to reflect on interdisciplinary collaboration using the SDGs

Transformative Education to Address All the SDGs

What kind of education do we need to address the SDGs?

- A focus on learners values orientation, skills development and motivation.
- Preparing learners to take transformative actions in both formal and informal educational settings.
- One that recognises educations importance to bring about a planetary response to climate and ecological breakdown.
 - Including not only transforming the learners to respond to the crisis's but examines and transforms the frames in which education institutions currently exist within.





Odell V., Molthan-Hill P., Martin S., Sterling S., (2019) <u>Transformative Education to Address All</u>
 Sustainable Development Goals

Visual Displays of the SDGs on Campus



NTU Global Week: SDG 14 and Ocean Plastic

Fashion Revolution week: the SDGs and our clothing impact





ODELL, V., MOLTHAN-HILL, P., ERLANDSSON, L. and SEXTON, E., 2019. <u>Visual displays of the sustainable development goals in the curricular and extra-curricular activities at Nottingham Trent University - a case study.</u>

Sustainability in Practice (SiP) online

- Short online module available to all our students and staff through our VLE since 2013
- Provides a foundational knowledge of sustainability and the climate and ecological emergency
- Three themes: Clothing, Energy or Food
- 4 online sessions (2-4 hours in total)
- Upon completion: certificate and (Undergraduate students only) HEAR entry and Bronze Sustainability Employability Award.





The UK parliament declared a climate emergency in 2019, the first government to do so. You can view the related Climate & Ecological Emergency Bill online of. The climate emergency is one of the greatest challenges humanity has ever faced. All sectors of society need to work together to overcome this threat and create a better world for all. The textile industry is one of the major contributors to the changing climate, and if the industry continues on its current path, by 2050, it could use more than 26% of the worlds carbon budget.

The Climate Emergency

SiP Structure

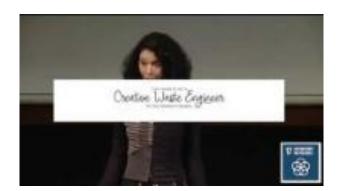
	Торіс	Aim	Activities and reflection
Session one	Student experience of sustainability	Engage students on a personal level	Sustainability skills inventory, exploring personal values, thematic issues (clothing, energy, food), and the climate & ecological emergency. Flipgrid video activity (optional)
Session two	Sustainability and the academic disciplines	Facilitate disciplinary understanding of sustainability	Planetary boundaries, discipline specific resources, place-based learning activity to explore SDG progress in home nation / hometown.
Session three	Connections between disciplines; systems thinking and identifying challenges	Facilitate interdisciplinary and holistic understanding of sustainability	Product life cycles, Long-term thinking, indigenous wisdoms, exploring mindsets, multiple choice quiz on SDGs and SiP theme.
Session four	Global and local solutions, individual agency	Identify disciplinary/ interdisciplinary solutions to sustainability challenges and explore own agency.	Linear and circular systems, doughnut economics, interconnectedness, leadership styles, local and global sustainability solutions, Flipgrid video activity (optional), sustainability skills inventory.



End Assessment: Multiple-Choice Assessment

Optional extras: Accompanying workbook to explore personal values, mindsets and leadership styles; 'Sustainable Solutions' video competition (Session 4).

SiP Student Outputs

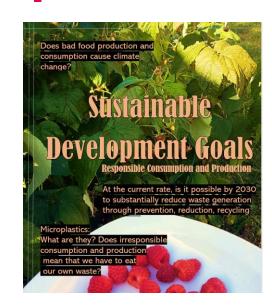


Video



36-hour Game Jam





Flipbook

Moodboard



What Did I Do?

These screenshots show some of the illustrated method of make for the Bodice I produced as part of this project. It shows how I made it, using the mannequin for fittings and where I used the recycled materials that are hidden inside.

Artefact







Research Poster

Aim

NMR Spectroscopy for control of protein Adulteration by Melamine in Foods, especially infant formulas.

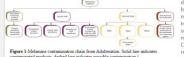
Method targeted screening and Quantitative analysis as well as the importance of

THE GLOBAL GOALS Introduction

Explain the potential of the Nuclear

Magnetic Resonance (NMR) for Non

- . Melamine is an organic compound (CAS # 108-78-1) used as fire retardant or for production of melamine-formaldehyde resins (thermoset) for many industrial applications.
- Because of its 67% nitrogen by mass content, it is used as Adulterant in Milk, Infant formulas, candies and other food products(Figure 1).12 Addition of 1% of melamine can falsely increase protein content by 4.16%.1
- Although short-term lethal dose is comparable to table salt, it can cause urinary tract stones⁴ and be fatal for infants in some cases. In 2008, nearly 50 000 people were hospitalized in China during a safety incident of adulteration in infant formulas.^{1,2}
- Adulteration of food should be stopped with regards to Sustainability Development Goals (2, 3) and this will be only possible with global partnership (17) based on Figure 3.
- WHO pressures for new methods for food control⁵, therefore, ¹H NMR at 400 MHz method provided on this poster was developed and it can straightforwardly distinguish melamine-contaminated foods and provide quantitate measurements using integration.



Melamine recommendation of the WHO for infant formulas was set to 1mg/Kg in 2010.5 After evaluation of the method, its sensitivity was sufficient for screening purposes(Figure 2). However, it could have been improved by optimized sample extraction or preconcentration. Melamine concentration in contaminated infant formula was

Results and Discussion

determined to be 412 mg/kg, this was a lower result than measured by the reference method (SPE-LC/MS/MS). The precision of the method showed a 3.2% variation (n=9). In addition, richness of data made it possible to determine higher

sucrose content or lactose free infant formulas from the screening

Figure 2-Comparison of melamine-contaminated sample from Sanlu (China) with the

ence distribution of collection of infant formulas (measured in DMSO-d, at

Considering all facts, 400 MHz NMR in the current form has sufficient results to be used as a screening method for Melamine contamination as a very low amount of melamine is admissible

NOTTINGHAM

Comparison with other techniques

In comparison with Near IR spectroscopy, NMR can provide much richer information, selectivity and sensitivity is more advance too.1 Although, 400 MHz NMR has sufficient Limit of Detection (LOD), more expensive 700 MHz NMR (HRMAS), have LOD of nearly 0.69 mg/kg in the matrix, this is exceptional in comparison with 400 MHz NMR's LOD of 33.26 mg/kg. However, SPE-LC/MS/MS has even better LOD of 0.005 mg/kg, but more laborious sample preparation is necessary.

Conclusion

In conclusion, the 400 MHz NMR method was developed and used for non-targeted screening and quantification of infant formulas. Obtained results of melamine were much higher than safety recommendations of WHO.5 Method required only simple sample pre-treatment. Analysis of abnormal peaks in spectra and overall quality of infant formula was also possible using this method. Therefore, to protect the health of the people and safety of the food, World Health Organization urges for the global control system which should be developed against intentional adulteration.5



Figure 3-Global distribution of melamine-contaminated products as published on national official web sites. Light shading indicates countries that reported melamine findings in products. Dark shading indicates countries to which import of contaminated products

On Completion of SiP, student participants gain ...

- A certificate to demonstrate understanding of sustainability.
- Credits towards the NTU Employability Sustainability Award level Bronze – this helps students to understand connections between sustainability and employability.
- For undergraduate students, SiP is added to the Higher Education Achievement Report (**HEAR**) which is a UK initiative to record students' most prestigious extra-curricular achievements.
- Best videos are shortlisted for an Award (entry is optional)



Feedback from students

I highly recommend that everyone at NTU despite their academic discipline should take this course Good eye opener and mindset re-shaper

I am more aware of food waste and try to minimize it as much as possible

SiP broadened my horizons and significantly changed my mentality about who I am and how should I live to be useful to others and make a better environment

I have started to share my knowledge with my friends and my family

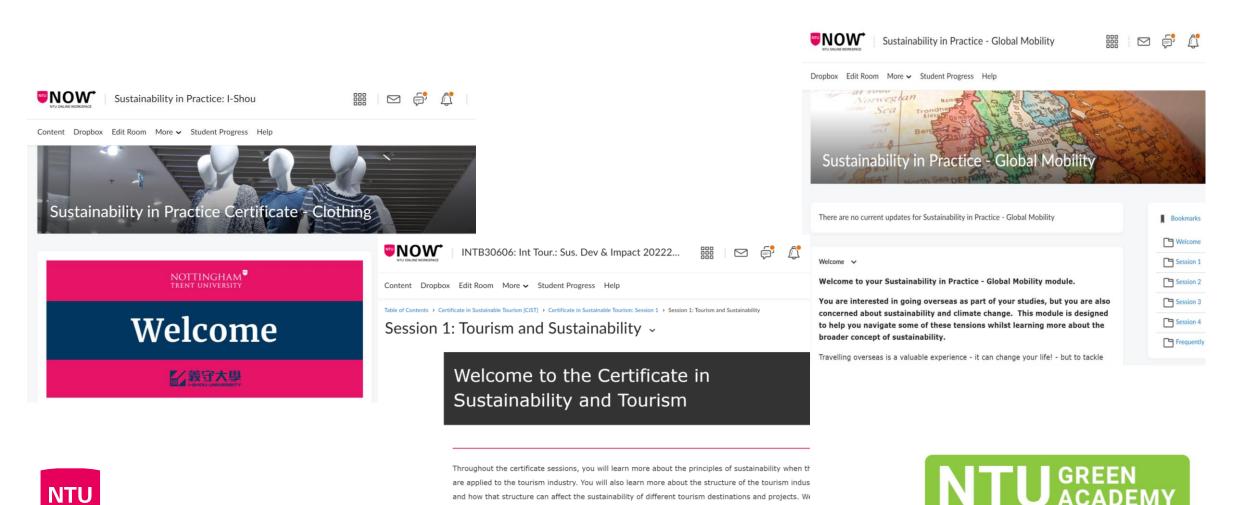
I will apply the knowledge learnt to my Marketing course

I will keep an eye on my carbon footprint and sustainable actions of businesses

Thank you so much for this amazing course!



Tailored versions of Sustainability in Practice



examine the interlinkages between different types of businesses that service the tourism industry an

To get started, please watch the following video produced by the Travel Foundation which explains the

how they approach sustainability.

Sustainability in Curriculum Refresh

2015-2018



Curriculum Refresh 2015-18

Eight expectations for all courses:

- Employability
- Success for All
- Student-staff research
- Internationalisation
- Sustainability
- Tutorials
- Personalisation
- •NTU Digital Framework.







Sustainability aspects of Curriculum Refresh

Action	ES404 We will continue to be recognised as a leading exemplar of an environmentally responsible and sustainable organisation.
Ref	Item
F1	Students explore how aspects of the discipline contribute to one or more of the Sustainable Development Goals.
	The course provides opportunities for students to explore the potential of their discipline to interconnect with other disciplines
	or areas of expertise and make creative leaps forward. (Knowledge and understanding)
F2	The course examines relationships between environmental, social and economic systems from local to global level.
	(Knowledge and understanding)
F3	Leadership for sustainable development is encouraged through challenging assumptions and negotiating alternatives to
	unsustainable current practices, especially within the student's own discipline. (Skills)
F4	The course encourages systems thinking in terms of recognising connections and interactions between factors and
	understanding that actions often have multiple consequences. (Skills)
F5	The course encourages commitment to lifelong learning about adapting to future challenges of meeting social and
	environmental responsibilities. (Attributes)
F6	The course facilitates and supports dialogue and debate on critical issues related to global social responsibility within the
	wider sustainability agenda, fostering respect for different values and world views. (Attributes)
F7	The course encourages the capacity for independent, evidence-based integrated thinking as the foundation for developing
	their personal ethical code. (Attributes)
F7	The course encourages the capacity for independent, evidence-based integrated thinking as the foundation for deve



Mapping Exercise

100% of NTU courses integrated one or more SDGs

83% integrated two or more SDGs

2% integrated all 17 SDGs

Social SDGs were the most integrated followed by Economic then Environmental

56% of courses incorporated the SDGS as a major theme (spanning modules / levels of study)

77% of courses integrated SDGs into professional practice

41% of courses included SDGs as an assessment topic

38% of courses included SDGs as a student research topic













































Sustainability and the SDGs in the Course Design Process

New and re-validating courses 2020 onwards



Examples of NTU Course Features

Course requirements

Personalisation



Multidisciplinary

learning

Discovery

Interdisciplinary Learning Course requirements

Work like experience



Communication and Collaboration

Active collaborative learning

Course requirements

Education for Sustainable Development

Discovery

Place-based learning

Course requirements

Global Learning

Discovery

Problem-based learning

Communication and Collaboration

Negotiation



Support offer for Course Teams

Resource hub including asynchronous training

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Education for Sustainable Development Guidance

March 2021

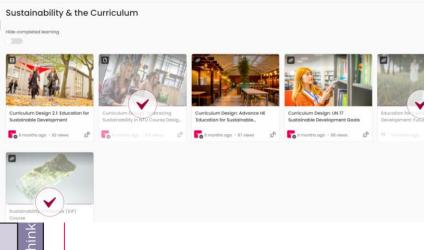
Guidance documents





	Competency	A student who displays this competency can:	Ci
SO	Systems thinking competency	 recognise and understand relationships analyse complex systems consider how systems are embedded within differscales deal with uncertainty 	Si
אווסייונים שלי שוו שם	Anticipatory competency (Future thinking)	 understand and evaluate multiple outcomes create their own visions for the future apply the precautionary principle assess the consequences of actions deal with risks and changes 	
	Critical thinking competency	 question norms, practices and opinions reflect on one's own values, perceptions and actions take a position in the sustainable development discourse 	

Experts



Bespoke support offer from Green Academy team



Sustainability at NBS

- Sustainability is part of everything we do at NBS
 - Education
 - Research
 - Partnerships
 - Operations
- Sustainability contributes to experiential learning, personalisation, employability and internationalisation agenda
- Solving sustainability challenges at the same time
- NBS follows a systematic approach to integrating sustainability and SDGs in business education



Our Holistic Approach to Embedding Sustainability and SDGs

1. Mainstreaming the UN Sustainable Development Goals

 Through platform-wide personalisation modules at all UG and PG levels

2. Broadening the UN Sustainable Development Goals

 Going a step further to integrate SDGs in discipline specific modules and moving beyond what is required at minimum

3. Enriching the Curriculum: Continuing Professional Development (CPD)

• Embedding sustainability and SDGs into extra-curricular CPD opportunities within and outside the core curriculum



Mainstreaming

17/10/2023









Mainstreaming

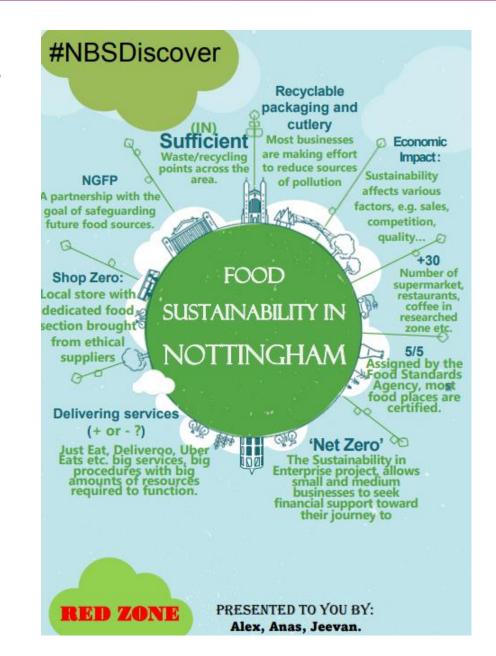
- Sustainability is mainstreamed through compulsory personalisation modules
- Both UG and PG level personal development modules

NBS Personal Devel	opment Modules
Undergraduate: First year (level 4)	Personal and Academic
	Development
Undergraduate: Second year (level 5)	Employment and Enterprise
Undergraduate: Final year (level 6)	Developing Professional Impact
	Sustainability in Enterprise Project
Postgraduate: (level 7)	Professional Practice
Postexperience: (level 7)	Personal and Professional Leadership Development

Personal and Academic Development (PAD) #NBSDiscover

- c2000 first year UG students undertake an induction project based on a sustainability related issue
 - #NBSDiscover (2018): Plastic Waste
 - #NBSDiscover (2019, 2020): Fast Fashion
 - #NBSDiscover (2021, 2022): Food Waste
- Students work in small groups to 'discover Nottingham, discover NBS and discover business'
- Students are inspired through keynote guest speakers and resource bank to raise awareness
- Forms the basis of an assessed report within the Year 1 module (PAD)

Student Output



















Sustainability in Enterprise Project

- Initially, part of £3.9m ERDF funded Sustainability in Enterprise (SiE) project
- Final year consultancy module as an alternative to the Research Project
- Involves carbon management and sustainability consultancy group project with SMEs
- C280 students supported c70 businesses/projects in two years
- Makes sustainability education more practical
- Findings and recommendations via poster presentation and a report
- Experiental learning, employability, personalisation opportunities



SiE: Low Carbon Conference







Broadening

17/10/2023









Broadening

- Going further to integrate discipline specific aspects of sustainability
- An area of significant importance and sustainability is multifaced
- Disciplinary provision needs reorientation in business education



Corporate Governance and Accountability

The Accounting Environment

International Development Economics

Enterprise in Practice

Essentials of Business Development

- Theoretical understanding of corporate governance and sustainable finance
- Case studies to connect sustainability to business dilemmas and opportunities
- Students prepare posters on companies dealing with SDGs
- Students embrace theory around SD, TBL, SDGs and stakeholder theory
- Engage with ESG reports and how companies report on sustainability objectives
- Students use En-ROADS to develop their group's vision for climate action
- Examine problems confronting the developing world and solutions to support SDGs
- Covers theories of economic growth, inequality, poverty, malnutrition, population growth and trade policy
- Students study theories related to ethical business, sustainability, and social entrepreneurship, and apply in seminars
- In assessment, students interview real SMEs (commercial and social enterprises) to find out about their ethical/sustainable practices.
- Students map company practices against SDGs in value chain using case studies

UN SDGs Mapping

Mapping offered module level insights and identified best practice of broadening the SDGs.

Helps in reorientation of education and inclusion of SDGs in the educational process.

Mapping the UN Sustainable Development Goals (SDGs)

Please complete form and email to muhammadusman.mazhar@ntu.ac.uk

Fill the section below for one module of your choice which you see as the most advanced with regards to the integration of the SDGs: Context (tick or highlight all that are relevant) Level of study □ Undergraduate year 1 (level 4) □ Undergraduate year 2 (level 5) □ Undergraduate year 3/4 (level 6) □ Postgraduate (level 7) □ Postgraduate (level 7) □ Postgraduate (level 7) □ Case study used in teaching □ Module content □ Teaching method/s □ Module content □ Teaching method/s □ Module sassessment □ Research or research-informed teaching (see back of page) □ Continuing Professional Development (CPD) activities □ Other Which of the Sustainable Development Goals does this relate to? 1 WORTH
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highlighted above, please tell us which module):
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/ We are looking for good practice case studies for the PRME report, can we use yours: Yes/No

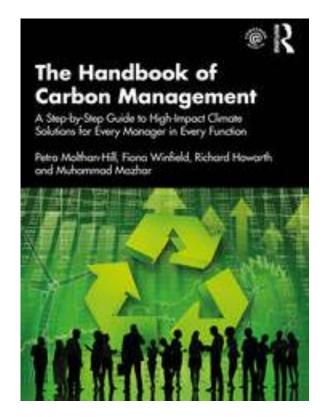
Themes in different disciplines

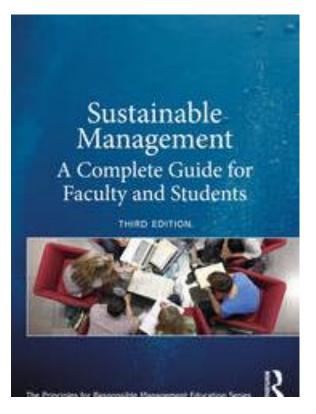
- Accounting & Finance governance, integrated reporting, carbon accounting
- HRM responsible management principles, equality & diversity, ethical working conditions, fair wages
- Marketing responsible consumption, green washing, brand communication
- Economics economic inequality, poverty, circular economy
- Management & Strategy sustainable operations, carbon management, sustainable supply chain, responsible sourcing, environmental or eco innovation

What else could you do? Integrate into every discipline/function

https://www.routledge.com/Sustainab le-Management-A-Complete-Guidefor-Faculty-and-Students/Molthan-Hill/p/book/9781032253756

https://www.routledge.com/The-Handbook-of-Carbon-Management-A-Step-by-Step-Guide-to-High-Impact-Climate/Molthan-Hill-Winfield-Howarth-Mazhar/p/book/9781032227603







Enriching the Curriculum: Continuing Professional Development (CPD)

17/10/2023









Sustainability in Practice (SiP)

- Online SiP Certificate is offered to all students and staff since 2013-14.
- Energy, Food and Clothing as themes
- Four online sessions and an assessment to demonstrate how students would solve a sustainability challenge within their discipline.
- SiP is unique in its interdisciplinarity, breadth of access, personalised assessment and focus on SDGs.
- In 2020/2021, SiP was integrated as an essential learning package for all NBS UG students
- SiP is entered on students' HEAR (Higher Education Achievement Record) and has annual awards
- In the last three academic years, 2625 NBS students have completed SiP.

Student Challenges & Competitions

- GeeBiz (Global Enterprise Experience)
- Universities Business Challenge (UBC) Global Masters Challenge
- Global University Climate Forum
- ArcGIS StoryMaps Competition for Sustainable Development Goals
- Institute of Business Ethics (IBE) Student Essay Competition
- PRME UK and Ireland Responsible Business and Management Writing Competition









Community Engagement and Volunteering

- Volunteering Opportunities
- Student Volunteering Network
- Clicksilver Connections
- Foodshare Allotment Volunteers
- NTU Enactus for social enterprise projects
- NTU Sustainability Society
- NBS Give Back Week with a series of volunteering opportunities

NTU Sustainability Employability Award

- Employability award, launched to coincide with COP26
- Aims to expand knowledge and recognises appropriate experience
- Incorporates the existing Sustainability in Practice certificate, as developed by NTU Green Academy



Events & Conferences

- NTU Green Week and Sustainability Action Week
- NBS Global Responsibility Week
- NTU and NTSU Climate Change Summit
- EAUC Global Climate Conference
- Student Sustainability Forum
- Getting to Net Zero Carbon Event
- Climate Literacy Training





Engaging and Supporting Faculty

17/10/2023









Governance and Structure

- Academic Lead for PRME
- Sustainability Coordinator
- Departmental Sustainability Representatives
- Quality and Standards
- Accreditations and Reviews
- NTU Sustainable Academic Forum
- Sustainability represented in NBS committees and forums, e.g., Themed School Exec., School Academic Standards and Quality Committee (SASQC), advisory board, Periodic Course Reviews (PCRs).

Resources & Support

- NTU ESD Intranet Central database
- VLE Learning Room on 'Future Thinking'
- Thrive
- Online SDGs course for academics
- One to one support and Drop-ins
- Staff Development sessions Purple Wednesdays
- SDGs Online Resource Database by Taylor and Francis <u>https://www.taylorfrancis.com/sdgo/?context=sdgo</u>
- SDG Library Academy
 https://sdgacademylibrary.mediaspace.kaltura.com/

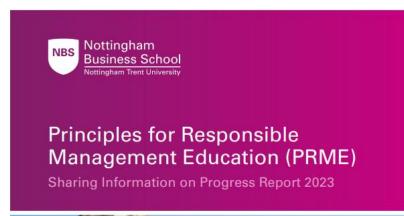






NBS PRME Report 2023 Published

Available on NBS website





PRME

What if every recruit into corporations from the world's business schools was qualified as Carbon Literate?

an initiative of the United Nations Global Compact



This training was developed by Nottingham Business School (Nottingham Trent University) in collaboration with the UN PRME Champions, Oikos International and the Carbon Literacy Project.

The aim of this project is to get academics, students and others Carbon Literate within a short time frame and to get as many people as possible actively involved in embedding climate solutions in their own life and work. In order to do so we have chosen a train-the-trainer approach, so we will offer regional events inviting all the universities and business schools in the vicinity to train academics and students there so that they can become trainers in their own institution and/or get involved in training others in other regions of the world.



Carbon Literacy Training for Educators, Communities, Organizations and Students (CLT-ECOS)



Climate change mitigation focused on solutions



Interactive **virtual** teaching material



MIT Sloan & Climate Interactive Simulation En-ROADS



Certificates for you and your students

Please contact <u>petra.molthan-hill@ntu.ac.uk</u> for more info on this or the more specific training for business schools mentioned earlier.



Get the certificate and be part of a community....



Take our free Climate Literacy & Action Training in November (on fixed days, virtual, interactive):

On behalf of the **UN PRME Working Group on Climate Change & Environment and QS Impact**, we would like to invite you to join our upcoming Climate Literacy & Action Training CLT-ECOS.

Please register here:

https://www.unprme.org/prme-working-group-on-climate-change-and-environment/prme-climate-literacy-training

Nottingham
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In your own time....

Free online course:

https://www.futurelearn. com/courses/climateliteracy-and-action-forall



Nottingham
Business School
Nottingham Trent University

Please pass on or do yourself®

https://www.futurelearn.com/microcredentials/climatesolutions-for-a-net-zero-future

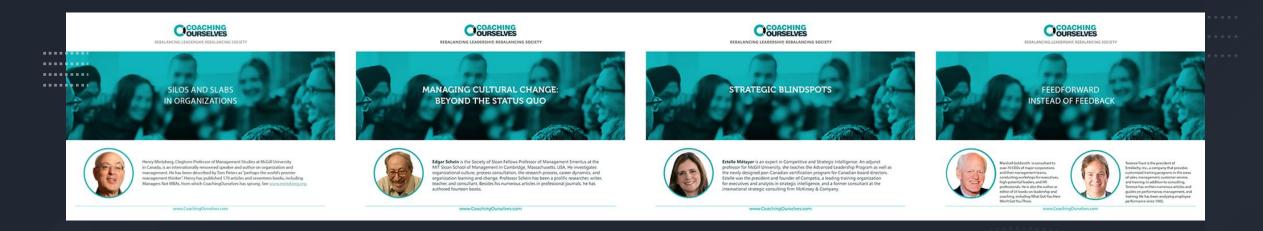
Climate Solutions: Using Your Influence in the Workplace for a Net Zero Future

Explore impactful climate solutions to apply in your workplace and beyond to help your organisation and society achieve net zero.









CoachingOurselves is...

- a company co-founded in 2008 by Professor Henry Mintzberg and Phil LeNir.
- a library of ~100 peer learning discussion guides available on important organizational and management themes.
- small groups of employees getting together, live or virtually, for 90-minutes of self-directed or facilitated learning and insight sharing.
- a collaboration with 60+ management and business school thinkers across the globe who author our peer learning discussion guides based on their own research, seminars, and workshops.
- www.coachingourselves.com

CoachingOurselves Topic: Climate Actions for Every Employee

Awareness of sustainable development issues with environmental and social impacts is now integral for quality organizational leadership.

Use the CoachingOurselves peer learning discussion guide "Climate Actions for Every Employee" in your peer learning programs to help your leaders, managers, and individual contributors understand how their small individual actions have multiple benefits for their workplace, home, and communities. Catch the message of possibility and get all employees involved in actively supporting your organization's sustainability goals.

Theme areas: transportation, energy, food, coffee, and natural carbon capture options.

Contact Warren@coachingourselves.com for more details.



Pass it on



Questions?

Any further questions? Please contact:

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