

# GRADUATE CERTIFICATE IN SUSTAINABILITY

STRATEGY, ENERGY, ENVIRONMENT & CIRCULARITY



## Shaping a Greener Future

**SSG Funded Course Up to 90%**



# Embrace a Sustainable Future with Graduate College@NTU

## Graduate Certificate in Sustainability- Strategy, Energy, Environment & Circularity



**CEL010 - Corporate Sustainability: Introduction**



**CEL011 - Carbon Neutrality- Solving the Energy Puzzle**



**CEL012 - Electrification & Waste Heat Recovery**



**CEL013 - Environmental Issues & Sustainability in Water & Waste Management**



**CEL014 - Circular Economy - Enabling a Sustainable Future**



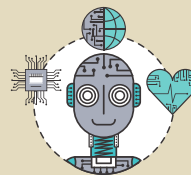
### Benefits of Joining Sustainability Programme



**Being the Driving Force of Singapore Green Plan 2030 in your Organisation**



**Empowering with New Knowledge & make Meaningful Impact**



**Exposing to the Latest Practices & Advanced Technologies**



**Enhancing your Employability in the Green Sector**

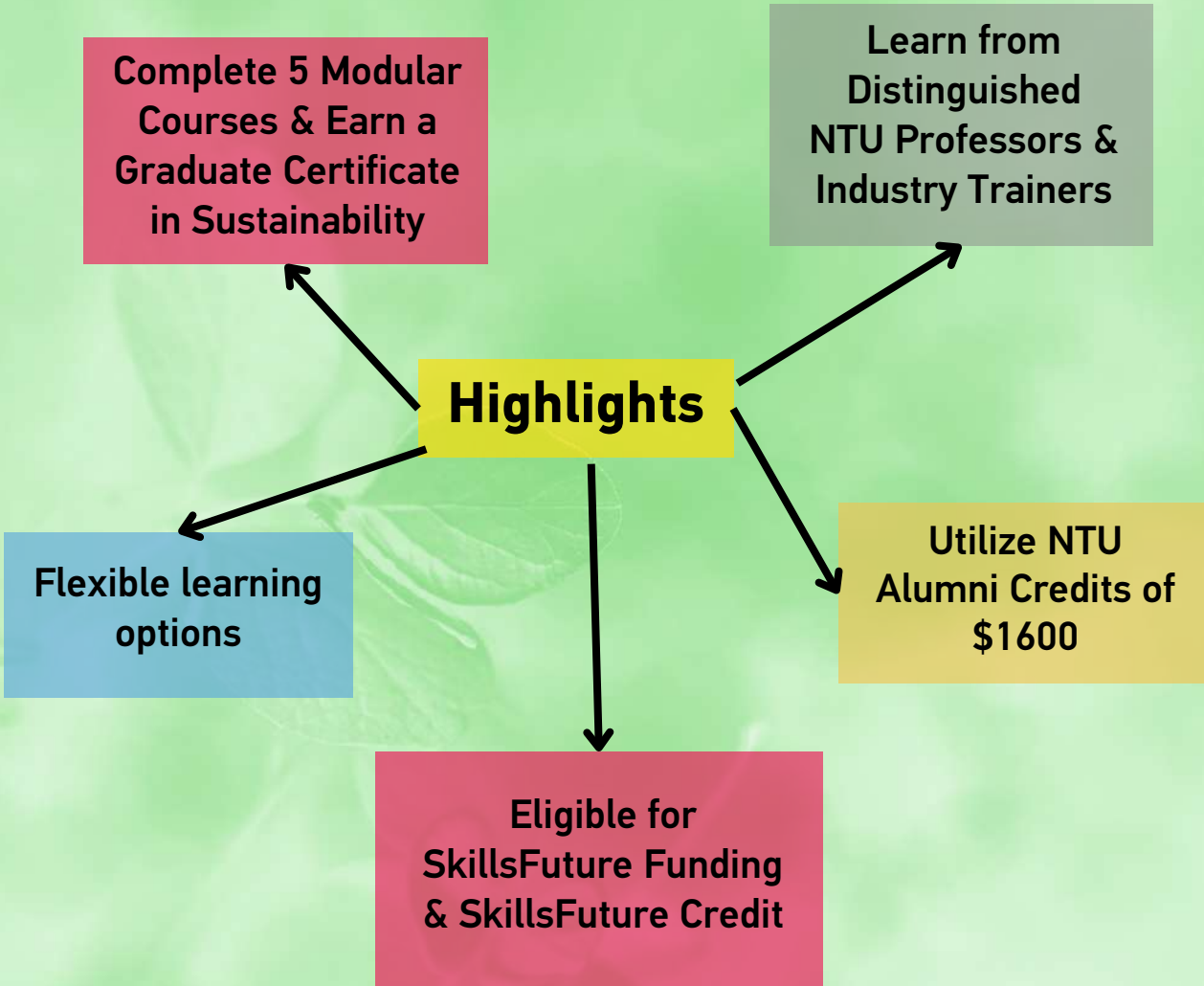


### Who should attend

- Mid-level Executives, Managers, Professionals, Engineers, Business leaders, Entrepreneurs.
- Mid-career individuals who want to acquire new skills in the green economy.



# Advance your Career in Sustainability Sector





## **Graduate Certificate in Sustainability- Strategy, Energy, Environment & Circularity**

### **CEL010 - Corporate Sustainability: Introduction**

#### **Introduction**

With the need to achieve net-zero by 2050 to address climate change and avoid global temperature increase beyond 2 degree Celsius; Corporate sustainability and responsibility have become key concerns for the board members, shareholders as well as market regulators.

The aim of this course is to provide participants with a basic understanding of the strategies, concepts and innovations required to make an organization more sustainable and socially responsible in its operations.

#### **Topics covered**

- Introduction to corporate sustainability, strategic framework for implementing sustainable business practices, lean and green operations, product and process design, circular economy, and responsible sourcing.

#### **Featuring our Distinguished Trainer**



**Prof S. Viswanathan**  
**College of Business**  
**(Nanyang Business**  
**School)**  
**Director, Centre of**  
**Business**  
**Sustainability (CBS)**

#### **Course Overview**

**Duration: 2 Days**

**Time: 9am-5.30pm**

**Credit: 1 AU**

**Fee: \$2,592**

**\*Nett Fee: S\$297.60 (after 90% funding & GST)**

**\*Terms and Conditions Apply**



**Scan for Registration & more details**



<https://www.ntu.edu.sg/pace/programmes/detail/cel101-corporate-sustainability-introduction>



## Graduate Certificate in Sustainability- Strategy, Energy, Environment & Circularity

### CEL011 - Carbon Neutrality- Solving the Energy Puzzle

#### Introduction

The course aims to share current facts and knowledge about energy and how to optimize energy supplies and uses in order to reach carbon neutrality.

After taking the course, learners will be equipped with carbon neutrality mindset towards a more sustainable environment.

#### Topics Covered

- Introduction to Sustainability and Carbon Neutrality
- Energy: Towards an electricity-powered world
- Renewables Energies: Carbon footprint, Photovoltaics, Concentrated Solar Power
- Nuclear Power: Nuclear Basics, Present and future technologies
- Electrification & Sobriety
- Energy Transition

#### Featuring our Distinguished Trainer



**Prof Claude Guet**  
Visiting Professor  
at the School of  
Physical and  
Mathematical  
Sciences (SPMS)

#### Course Overview

Duration: 4 Days

Time: 9am-5.30pm

Credit: 2 AU

Fee: \$3,564

\*Nett Fee: S\$409.20 (after 90% funding & GST)

\*Terms and Conditions Apply

Scan for Registration & more details



<https://www.ntu.edu.sg/pace/programmes/detail/cel011-carbon-neutrality-solving-the-energy-puzzle>





## Graduate Certificate in Sustainability- Strategy, Energy, Environment & Circularity

### CEL012 - Electrification & Waste Heat Recovery

#### Introduction

The course aims to provide learners with a well-rounded understanding of electrification and its various facets. You will get to appreciate the importance of developing waste heat recovery practices.

#### Topics Covered

A\*Star Innovation Factory - Electrified Road Systems

- Electrification issues and challenges
- Identify Waste Heat Recovery
- Land and Air systems
- Electrical power system used in Aerospace and Electric vehicles
- Power conversion issues and practices
- Different methods for charging electricity

Visit to Rolls Royce's Lab - Electrification on Aerospace Industry & Waste Heat Recovery

#### Featuring our Distinguished Trainers



Dr Tan Yen Kheng  
Senior Research Engineer  
Singapore Institute of  
Manufacturing Technology  
(SIMTech)



Prof Amit Kumar Gupta  
Rolls-Royce Electrical (RRE)  
Director  
Chief of Rolls-Royce Electrical  
Rolls-Royce Singapore Pte Ltd.

#### Course Overview

Duration: 2 Days

Time: 8.30am-4.30pm

Credit: 1 AU

Fee: \$1,782

\*Nett Fee: S\$204.60 (after 90% funding & GST)

\*Terms and Conditions Apply



Scan for Registration & more details



<https://www.ntu.edu.sg/pace/programmes/detail/cel012-electrification-waste-heat-recovery>



## **Graduate Certificate in Sustainability- Strategy, Energy, Environment & Circularity**

### **CEL013 - Environmental Issues & Sustainability in Water & Waste Management**

#### **Introduction**

The course aims to share the facts and knowledge in the water and waste management field. You'll grasp the latest trends and methods that shape your perspective on environmental engineering, gaining profound insights into present-day eco-challenges.

#### **Topics Covered**

- Environmental issues and challenges.
- Practices of pollution abatement for water and land.
- Emerging contaminants, impact, and adaptation/mitigation solutions.
- Sources of waste and their management methods.
- Concepts and principles in environmental health, safety & management approaches
- Interpret sustainability concepts and give examples of sustainability practices.

#### **Featuring our Distinguished Trainers**



Prof Zhou Yan  
School of Civil and  
Environmental Engineering



Asst Prof Fei Xunchang  
School of Civil and  
Environmental Engineering

#### **Course Overview**

Duration: 4 Days

Time: 9am-5.30pm

Credit: 2 AU

Fee: \$3,564

\*Nett Fee: S\$409.20 (after 90% funding & GST)

\*Terms and Conditions Apply

Scan for Registration & more details



<https://www.ntu.edu.sg/pace/programmes/detail/cel013-environmental-issues-and-sustainability-in-water-and-waste-management>





## Graduate Certificate in Sustainability- Strategy, Energy, Environment & Circularity

### CEL014 - Circular Economy - Enabling a Sustainable Future

#### Introduction

The course aims to inspire learners to take action in their different stakeholders' role to accelerate the circular and carbon neutral economy.

#### Topics Covered

- What is More Sustainable?
- Linear vs Circular Economy
- Global Policy and Corporate Strategy Today
- Circularity in all sectors
- Design out waste & Waste as a resource and Technology Innovation
- Business Model & Product as Service
- Standardization and Certification
- Entrepreneurship
- Sharing your innovative idea

#### Featuring our Distinguished Trainer



**Assoc Prof Liu Lerwen**  
NTU Entrepreneurship  
Academy

#### Course Overview

Duration: 6 Days

Time: 9am-5.30pm

Credit: 3 AU

Fee: \$7,776

\*Nett Fee: S\$892.80 (after 90% funding & GST)

\*Terms and Conditions Apply

Scan for Registration & more details







**Funding and Registration Enquiries**

email: [pace@ntu.edu.sg](mailto:pace@ntu.edu.sg)



 [https://www.ntu.edu.sg/pace/programmes/  
stackable-certificates/graduate-certificate](https://www.ntu.edu.sg/pace/programmes/stackable-certificates/graduate-certificate)

**Enquiries on Courses**

email: [lisa.wahet@ntu.edu.sg](mailto:lisa.wahet@ntu.edu.sg)



 <https://www.ntu.edu.sg/graduate-college>

**Join us on this sustainability journey and be the driving force into a brighter, greener future!**



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