

# IoT, Big Data and AI: Innovating STEM Teaching Through Strengthening Teacher Professionalisation

## Thematic Training Session #1: “Understanding Education for Sustainable Development (ESD)” Monday, 04 October 2021 | 13:30 – 15:00 (CEST)

Join Us at the Thematic Training Session:

<https://zoom.us/j/437007825?pwd=K2I2QU1FdWFkN3YzWEFwNzMrUjBFUT09>

Password: classnet

### Introduction

Education is the most powerful means to raise awareness and knowledge about pressing global challenges that concern sustainability, amongst them climate change and global warming, environmental degradation, or demographic changes. Therefore, for more than two decades, UNESCO has been promoting Education for Sustainable Development (ESD) to ensure that generations of today and tomorrow grow up with the mindset to value and practice the habit of living sustainably from an early age on. In the context of integrating ESD in formal education sectors, secondary-level education is considered as a crucial education stage to introduce ESD. This is because at this education level learners start to develop relevant life skills, attitudes, and values that have long term impact in their adult lives. This means that to prepare future generations with mindsets required for sustainable lifestyles, teachers at the secondary education level bear a great responsibility.

The Thematic Training Session #1 on “*Understanding Education for Sustainable Development (ESD)*” is designed to help participants build a knowledge foundation on the origins and framework of ESD and identify its relevant concepts and initiatives. It will focus on the importance of ESD within the larger context of the UN Agenda 2030 and the Sustainable Development Goals (SDGs), and its implications on education, especially at the secondary-level education. The session will also encourage participants to take part in team exercises to deepen their understanding and to reflect on their roles as educators to explore possibilities and challenges of implementing ESD in their classrooms/schools.

### About the Speakers & Facilitators



**Ms Leonie Nagarajan**  
Director, Education Department  
Asia-Europe Foundation (ASEF)

As the Director of the Education Department, Ms Nagarajan is responsible for leading the department in the conceptualisation and execution of a programme portfolio covering 51 countries across Asia and Europe. Her work addresses education policies and higher education cooperation, activities in the field of lifelong learning as well as experiential learning and skills development for young people. Her professional career covers the fields of international relations, communication, and public affairs. She has a Master's degree in Communication Sciences with minors in Cultural and Political Sciences from the Free University and the Humboldt University of Berlin.



**Ms Jyoti RAHAMAN**  
Project Executive, Education Department  
Asia-Europe Foundation (ASEF)

Ms Rahaman leads the research, policy & programme development of projects under the ASEF's Teaching and Learning Programme and co-coordinates the ASEF Classroom Network (ASEFClassNet) Project. Prior to joining ASEF, she worked with the Education Policy Unit Team at the UNESCO HQ in Paris and the Norwegian Centre for ICT in Education in Oslo. She obtained her Erasmus Mundus Joint Master Degree (EMJMD) on Education Policies for Global Development from the Autonomous University of Barcelona, University of Oslo and University of Malta. Her dissertation explored the challenges of innovating learning environment in schools to prepare learners for the 4th Industrial Era.

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## Recommended Reading List

- 1) "What is ESD?" UNESCO  
<https://en.unesco.org/themes/education-sustainable-development/what-is-esd>  
<https://en.unesco.org/themes/education-sustainable-development>
- 2) "Education for Sustainable Development" (UNESCO & OECD)  
<https://www.oecd.org/env/outreach/Presentation%20by%20Bernard%20Combes%20UNESCO.pdf>
- 3) "Issues and Trends in Education for Sustainable Development (ESD)," UNESCO (2018)  
<https://unesdoc.unesco.org/ark:/48223/pf0000261445>
- 4) "Integrating Education for Sustainable Development (ESD) in Teacher Education in South-East Asia: A Guide for Teacher Educators" by UNESCO Bangkok (2018)  
<https://bangkok.unesco.org/sites/default/files/2018-10/265760E.pdf>
- 5) "A Decade of Progress on Education for Sustainable Development: Reflections from the UNESCO Chairs Programme," UNESCO (2017)  
<https://unesdoc.unesco.org/ark:/48223/pf0000252319>
- 6) "UNESCO Global Action Programme (GAP) on ESD," UNESCO (2016)  
<https://unesdoc.unesco.org/ark:/48223/pf0000246270>
- 7) "Textbooks for Sustainable Development: A Guide to Embedding" by UNESCO  
<https://unesdoc.unesco.org/ark:/48223/pf0000259932>
- 8) UNESCO List of Resources on ESD:  
<https://www.dropbox.com/s/tcmtzaoo916b22z/ESD%20Publications%20Flyer.pub.pdf?dl=0>

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