SST201e Sustainable Society Through Innovative Technology

Level: 2

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY SEMESTER

E-Learning: BLENDED - Learning is done MAINLY online using interactive study materials in Canvas. Students receive guidance and support from online instructors via discussion forums and emails. This is supplemented with SOME face-to-face sessions. If the course has an exam component, this will be administered on-campus.

Synopsis:

SST201e Sustainable Society Through Innovative Technology introduces students to sustainability and explores how today's human societies can prevail in the face of global change, ecosystem degradation and resource limitations. It will focus on key knowledge areas of sustainability theory such as population growth, climate change energy, agriculture, water and food production. In each Unit, students will learn how technological innovation can solve the different types of resource limitations and pollution problems to create a sustainable ecosystem on Earth.

Topics:

- Sustainable Society
- Technology
- Human Population
- Fossil Fuel and Nuclear Energy
- Renewable Energy
- Water
- Soil
- Food Production
- The Environment and Human Health
- Climate Change
- Pollution
- Sustainable Cities

Learning Outcome:

- Discuss the history of technology in the development of human civilizations.
- Use case studies to demonstrate the ideas and practices of sustainability.
- Examine how industries, from a technological perspective, have changed significantly in the past two decades because of changes in technology
- Explain the concept of sustainable development to technologies that could meet current and future human needs.
- Apply skills of inquiry, including research, in the analysis of sustainability issues.
- Debate critically the different technologies at different scales of analysis that impact society.

Assessment Strategies:

Continuous Assessment Component	Weightage (%)
PRE-CLASS QUIZ	2

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QUIZ	8
GROUP BASED ASSIGNMENT	16
Sub-Total	**30**

Examinable Component	**Weightage (%)**
Written Exam	70
Sub-Total	**70**

Weightage Total	**100**