

DOS3714

Module Title: Sustainable Operations Management
Duration: 08 Aug 2022 – 11 Nov 2022
Semester: Semester 1, Academic Year 2022/2023
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MODULE DESCRIPTION

Focus on reducing environmental impact not only allowed companies to comply with increased regulations but also to reduce their costs, to improve the quality of their products and to enhance the reputation of their brands. The objective of this course is to study how a company can use its operations to improve environmental performance and contribute to business success at the same time. Students will learn how citizens, governments, customers and employees are creating pressures for more sustainable development and how operations managers are responding to these pressures with waste reduction, pollution prevention, and product stewardship. Students will also study specific tools and methods such as environmental management systems (EMS), life cycle analysis (LCA), green buildings, green purchasing, design-for-environment (DFE), recycling, remanufacturing, servitization, and industrial symbiosis. Through the course students will also learn how to craft a successful strategy for sustainable operations by incorporating it into a company's business strategy, improvement planning, product and process design, supply management, risk management and both internal and external reporting systems.

LEARNING OBJECTIVES

In this course students will internalize concepts and practice skills that will enable them to:

- Develop strategies for sustainable operations
- Define and assist in operations improvement projects for waste reduction, pollution prevention or product stewardship
- Assist in launching sustainable operations programs in a wide range of industries and organization

READINGS

Cases and reading materials will be provided.

PREREQUISITE

DAO2703/DSC2006 – Operations and Technology Management

ASSESSMENTS

Component	Weightage
Class Participation (Individual)	15%
Assignments (Group)	30%
Project Presentation (Individual)	5%
Project Report (Group)	20%
End-of-semester Assessment (Individual)	20%
Peer Evaluation	10%
Total	100%