SEDV 621: ENVIRONMENTAL MANAGEMENT TOOLS IN THE ENERGY SECTOR

This course examines environmental management challenges and issues faced by the energy sector and discuss key environmental tools that are required to address these issues through a portfolio of management techniques. Topics include environmental management, strategic planning, and policies; sustainable development and the organization, innovation, life cycle assessment; and management processes including audits, development of indicators and reporting, environmental accounting; and economic instruments.

Instructor:
TBD

Course Objective:
Environmental management is linked with issues regarding sustainable economic growth, ensuring fair and equitable distribution of resources, and conserving natural resources for future generations. Implementing an Environmental Management Systems (EMS) has become a crucial consideration for large organizations, including the energy sector.

This course will examine environmental management challenges and issues faced by the energy sector and discuss key environmental tools that are required to address these issues through a portfolio of management techniques. The course will offer insight to practitioners and professional students as to such tools that have been developed, how they are implemented and the barriers that can impact on their effectiveness.

The course will also focus on the key tools of corporate environmental management systems and standards such as environmental policies, guidelines and charters, environmental auditing, life-cycle assessment, the measurement of environmental performance, and environmental reporting. Case studies are presented to demonstrate examples of companies that have implemented their own EMS, the different approaches that they have taken and the resulting issues that have emerged.

Learning Outcomes:

- Understand the basic principles of business and management with emphasis on environmental management.
- Describe general context of all the key tools of corporate environmental management systems and standards.
- Distinguish between the implementation of operational, tactical, and strategic decisions within an organization and how they can be used to help attain environmental goals.
- Perform a comprehensive analysis of the role of business in safeguarding the environment,
- Apply the course material to the business organization,
- Analyze case studies that present challenges to companies in terms of environmental management and suggest methods for improvement.
- Develop strategies for corporate environmental management.