



Module Structure

Module Title : Environmental and Sustainability Management

Module Code: HTMM301

Programme of Study/Year of Study : Hospitality and Tourist Management/Year 3

Group : HTMIII **Semester :** Fall

Number of Hours Taught : 2 hours per week **ECTS :** 3

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Pre-requisite(s) :

Module Rationale

This course aims to provide the necessary information and knowledge to the students about the environmental aspects and impacts of the hospitality and tourism sector. Through this course students will understand the environmental issues which concern the hospitality and tourism industry and will acquire the necessary knowledge to enable them to adopt best environmental practices during the exercise of their profession. Students will understand issues related to the concept of sustainable development and the sustainable functioning of the hospitality and tourism industry will be established.

Aims

The main objective of this course is to give students all the necessary information which will help them to understand the environmental aspects associated with the hospitality and tourism sector. Students upon completion of this course should be able to understand all issues they will face as professionals in the

workplace, as well as the general environmental policy adopted by the hospitality and tourism industry. The students will understand the importance and the scientific background of simple environmental issues facing in the hospitality and tourism industry as well as the existing environmental legislation that they should implement in their work.

Intended Learning Outcomes

Upon successful completion of the program participants must be able to:

1. Be aware of the impact of the operation of hospitality and tourism sector on the environment
2. Acquire and enhance environmental awareness and realise the importance of adopting sound environmental practices when practicing their duties
3. Identify the sources of energy consumption in the hospitality and tourism industry
4. Gain a sense of the cost of energy consumption and the role that they may have to achieve in substantial savings.
5. Learn the best practices followed by the hospitality and tourism industry, the hotel units and promoted by the state for energy saving and production of green energy
6. Have insight and understanding of the quantities of water required in the hospitality and tourism sector, as well as the sources of water consumption
7. Know and learn about best practices in hospitality and tourism sector for saving water and to adopt them
8. Be familiar with the existing legislation on water quality
9. Be familiar with the technologies to improve water quality and their importance for health and quality
10. Understands the sources and the volume of waste produced by the hospitality and tourism industry
11. Be familiar with best practices in waste management in the hospitality and tourism sector
12. Be aware of the importance and the general content of environmental management systems
13. Learn about the implementation of environmental management systems in the hospitality and tourism sector
14. Understand the importance of achieving environmental objectives, and to acquire the necessary understanding and consciousness to assist in the professional environment to achieve this
15. Perceive the connection of quality management systems with environmental issues
16. 16. Understand the definition of sustainability and adopt sustainability practices through their daily practice

Delivery Methods:

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| 1. | Audio-visual presentation |
| 2. | Written or oral exercises |
| 3. | Discussion between trainers and trainees |
| 4. | Case studies, practical exercises. |
| 5. | Presentations from guest lecturers |

Assessment

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| 1. | Coursework 30% |
| 2. | Midterm exam 30% |
| 3. | Final exam 40% |

Module Requirements

Refer to the student manual for the demands of the course.

Module Plan and Content

Week	Dates	Topics to be Covered	Reference Chapter / Material
1.	02/10-05/10	<ul style="list-style-type: none"> • Introduction • Environmental problems on our planet • Environmental aspects of the hospitality and tourism sector. 	Section 1: Introduction
2.	08/10-12/10	<ul style="list-style-type: none"> • Environmental aspects and impacts of the Hotel and tourism industry • Introduction in identifying environmental effects • Case studies: Sustainable and unsustainable hotels • Definitions of sustainability and environmental management • Introduction to the sustainability principles and the environmental standards in the tourism industry - • Sustainability principles and practices – Case study Practical implementation of environment in Hotels and tourism 	Section 2 – Sustainability and Environmental Management
3.	15/10-19/10	<ul style="list-style-type: none"> • Energy consumption in hospitality and tourism industry • Impact of energy consumption on the environment and the economy • Eco labeling in energy consuming appliances • Energy – definitions, consumption in the industry, impact of excessive consumption • Energy Efficiency and Energy costs – calculating the cost of energy • Energy savings, eco labeling, best practices for energy saving in units • First assignment – delivery and interpretation 	Section 3: Energy Management in the hospitality and tourism industry
4.	22/10-26/10	<ul style="list-style-type: none"> • Renewable energy sources - Definition • Renewable energy technologies appropriate for the building sector, pros and cons • Simplified technical and financial analysis of renewable energy technologies applications • Case study: Photovoltaic installation in hotel 	Section 3: Energy Management in the hospitality and tourism industry
5.	29/10-02/11	<ul style="list-style-type: none"> • Ecological footprint • Carbon footprint of different products in the hospitality sector • Introduction to climate change and why carbon is an important emissions gas • Process involved in an energy management programme – Energy Efficient Technologies and Smart meters 	Section 4 - Resource Management ***F&B environmental management in hotels***
6.	05/11-09/11	<ul style="list-style-type: none"> • Water management • The need to consider water availability in the hospitality development process. 	Section 5 Water Management

Week	Dates	Topics to be Covered	Reference Chapter / Material
		<ul style="list-style-type: none"> Water quality and threats to it Water conservation measures and techniques in hotels. Examples of modern water-saving technology. Case studies from the hotel industry. Revision for midterm exams 	
7.	12/11-16/11	<ul style="list-style-type: none"> Midterm exam 	
8.	19/11-23/11	<ul style="list-style-type: none"> Water cost – simple way of calculating the cost Ways of processing, recycling and reuse of water at hospitality and tourism units Secondary and tertiary treatment, rainwater collection and reuse of grey water Water quality legislation on the protection and water management and on water pollution Case study: Letter from 2070 Revision for midterm exams 	Section 5 Water Management
9.	26/11-30/11	<ul style="list-style-type: none"> The impacts of waste on the environment – Various forms of waste – Types of waste. Waste in the hospitality industry – Waste management Waste hierarchy (reduce, reuse, recycle) – How waste can be reduced. Zero waste to landfill Case studies from the hotel industry on waste management Waste mapping – Saving money and improving the environment. Composting: The process – Composting FAQs Second Assignment Handout 	Section 6: Waste management in the hospitality and tourism industry
10.	03/12-07/12	<ul style="list-style-type: none"> Waste management best practices Sorting at source, recycling and reuse of waste The role of the visitor to the proper management of waste Waste management best practices in hospitality and tourism units 	Section 6: Waste management in the hospitality and tourism industry
11.	10/12-14/12	<ul style="list-style-type: none"> Environmental Management Systems – importance for in the hospitality and tourism industry Structure of an environmental management system Environmental aspects of environmental management systems Quantitative objectives and environmental policy The active role of the manager in the achievement of the environmental objectives of an organisation Examples of environmental practices arising from environmental management systems in the hospital- 	Section 7 Environmental Management Systems

Week	Dates	Topics to be Covered	Reference Chapter / Material
		ity and tourism <ul style="list-style-type: none"> • Impact of adoption of environmental management systems 	
12.	17/12-21/12	<ul style="list-style-type: none"> • Eco tourism – Agro tourism • Sustainable tourism – Green hotels • Sustainable tourism initiatives • International Hotel Environment Initiative • Summary for the exams 	
13.	07/01-11/01	<ul style="list-style-type: none"> • Second assignment delivery • Revision for final exams 	

Essential Reading

1. Kirk, D. (2010). Environmental management for hotels. Taylor & Francis.
2. Sloan, Philip et al. *Sustainability in the Hospitality Industry*. Routledge, 2013
3. The International Tourism Partnership, *Environmental Management for Hotels- The Industry Guide to Sustainable Operation 3rd Edition*, 2008

Additional Reading

Refer to the students' manual for the module requirements.

