

<b>Course Unit Title</b>	<b>MEM 514 Environmental Management</b>
<b>Programme of study</b>	MSc in Engineering Management
<b>Lecturer</b>	Dr.-Ing. Paris A. Fokaides
<b>Type of course unit</b>	Compulsory
<b>ECTS</b>	7
<b>Year of study:</b>	1
<b>Semester(s) offered</b>	Spring Semester 2012
<b>Course content</b>	<ul style="list-style-type: none"> <li>▪ Introduction to sustainable development</li> <li>▪ Management of main environmental sources (water, air, waste, energy)</li> <li>▪ Holistic environmental management through tailored systems</li> </ul>
<b>Course modules:</b>	<p><u>1. Sustainable Development policies</u></p> <ul style="list-style-type: none"> <li>▪ Integrated environmental policy in the EU</li> <li>▪ The role of legal principles in environmental management</li> <li>▪ Valuation of sustainable development policies</li> </ul> <p><u>2. Water Management</u></p> <ul style="list-style-type: none"> <li>▪ Water resource management and policy</li> <li>▪ Water quality control</li> <li>▪ Wastewater treatment plants</li> <li>▪ Integrated policy approach to water supply management</li> </ul> <p><u>3. Air Quality Control</u></p> <ul style="list-style-type: none"> <li>▪ Air quality control practices</li> <li>▪ Monitoring air quality in urban areas</li> <li>▪ Sustainable mobility: Mitigation of traffic originated pollution</li> </ul> <p><u>4. Waste Management</u></p> <ul style="list-style-type: none"> <li>▪ Waste management practices</li> <li>▪ Integrated waste management technologies</li> <li>▪ Economic analysis of waste management systems</li> </ul> <p><u>5. Energy efficiency and renewables</u></p> <ul style="list-style-type: none"> <li>▪ Renewable Resources</li> <li>▪ Eco-Building</li> <li>▪ Energy Policy</li> </ul> <p><u>6. Environmental management systems</u></p> <ul style="list-style-type: none"> <li>▪ Reasons for implementing an Environmental Management System (EMS)</li> <li>▪ EMS planning steps and key elements</li> <li>▪ Scope and main stages of ISO 14000</li> <li>▪ PDCA concept in ISO 14000</li> <li>▪ Environmental objectives and targets, system review</li> </ul>
<b>Textbooks:</b>	Clini, C., Musu, I., & Gullino, M. L. (2008). Sustainable development and environmental management. Springer.
<b>Instruction language</b>	English
<b>External reference</b>	<a href="#">link</a>