

Date:	Examination No.:	Version:13/9/2021	Start: 1/9/2021
Module Name - Code	Environmental Engineering- 1115		
Module Language:	English		
Responsible:	Mohammad Abdulrazzaq Sultan		
Lecture (s):	Mohammad Abdulrazzaq Sultan / MSc		
College:	College of Engineering – Salahaddin University		
Duration:	15 week – Fall Semester		
Course outcomes:	<p>The objective of this course is.</p> <ul style="list-style-type: none"> ● To be familiar with Environmental aspects ● To be familiar with all kind of pollutions in term of, Air, Soil and Water ● To calculate the volume of the pollution amounts in term of wastes (Air and solids) ● To be able to carry out the assessments of provided projects regarding the environment. <p>To be familiar with the climate change and the impact of environmental aspects</p>		
Course Content:	<p>Environmental protection is an important issue for society today as scientific research provides evidence of increasing global warming, ozone depletion and higher levels of pollution. You will learn how to design, develop and evaluate structures, equipment and systems to provide practical solutions to problems caused by increasing consumption and waste, and the potential threats to biodiversity. Projects include learning how to clean up toxic material that has seeped into the ground and designing an effective wastewater treatment plant. Tougher environmental regulations and efforts to prevent problems before they occur are just two examples of the increasing challenges environmental engineers are exposed to. The main theoretical aspects are"</p> <ul style="list-style-type: none"> ▪ Air Pollution. ▪ Water Pollution ▪ Solid Waste Management ▪ Noise Pollution ▪ EIA ▪ Sustainability 		

Literature:	<ul style="list-style-type: none"> • Main Reference Introduction to Environmental Engineering, 4th Edition 2008 By: Mackenzie L, Davis , and David A. Cornwell • Further books Environmental pollution, Awareness and control, By Esber I. Shaheen Environmental Engineering and sanitation by Joseph A. Salvato Environmental Engineering by Gerard Kiely Introduction to Environmental Engineering and science by Gilbert M. Masters 								
Type of Teaching:	2 hrs. theory per week 1 hr. tutorial per week								
Pre-requisites:	NONE								
Frequency:	Yearly in spring semester								
Requirements for credit points:	<p>For the award of credit points, it is necessary to pass the module exam. The module exam contains: A mid-term exam, class room activities, quizzes, Seminars and final exam on June. So, the final grade will be based upon the following criteria:</p> <table border="1" data-bbox="1010 711 1402 972" style="margin-left: auto; margin-right: auto;"> <tr> <td>Mid-term exam</td> <td>25%</td> </tr> <tr> <td>Activities and Quizzes</td> <td>15%</td> </tr> <tr> <td>Final exam</td> <td>60%</td> </tr> <tr> <td>Total</td> <td>100%</td> </tr> </table> <p>Student's attendance is required in all classes.</p>	Mid-term exam	25%	Activities and Quizzes	15%	Final exam	60%	Total	100%
Mid-term exam	25%								
Activities and Quizzes	15%								
Final exam	60%								
Total	100%								
Credit point:	4								
Grade Distribution:	The Grade is generated from the examination result(s) with the following Annual Effort (w): 40% Final Exam (w): 60%								
Work load:	The workload is 90h. It is the result of 45h attendance and 45h self-studies.								