

Sub.	Course Description – توصيف مقرر دراسي	الموضوع	 كليات المعرفة ALMAAREFA COLLEGES
Date		التاريخ	

Course Code & No	ENGR 402		رقم المقرر ورمزه
Course Name	Environmental Impacts of Engineering		اسم المقرر
Credit Hours	2 (2+1+0)		عدد الساعات المعتمدة
Pre-requisite	PHYS102, CHEM101, Completed level 6		المتطلب السابق

General Description	توصيف عام
<p>This course gives an introduction to the impact of engineering activities on the environment. It gives basics of ecosystems, environmental balance, type of pollution and its sources, limits on pollutants; in addition to fundamentals of Environmental Impact Assessment (EIA). Pollution control technologies.</p>	

Course Objectives	أهداف المقرر
<p>To get students acquainted with environmental problems resulting from nature and human, and solutions to prevent them</p> <p>By the end of the course, each student should be able to</p> <ul style="list-style-type: none"> Recognize the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, Identify and analyse environmental problems both natural and human-made, Evaluate the relative risks associated with these problems, and Examine alternative solutions for resolving and/or preventing them. 	

Course Outlines	مفردات المقرر
<ul style="list-style-type: none"> Earth Systems and Resources The Living World Population Land and Water Use Energy Resources and Consumption Pollution Global Change 	

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References	المراجع
Required Textbooks Living in the Environment by G. Tyler Miller Jr. and Scott E. Spoolman, 17th edition, 2012, Brooks/Cole Cengage Learning.	
Essential References Materials	