

SEMESTER	DEPARTMENT	COURSE TITLE
<i>Third</i>	<i>General Engineering</i>	<i>Environmental Issues</i>
COURSE CODE	HOURS: 2	COURSE SPECIFICATIONS
<i>EG 309</i>	UNITS : 1	<i>Theoretical Contents</i>
<p>1. Environment Terminology.</p>		
<p>2. Climate Change Definition and Diagrams:</p> <ul style="list-style-type: none"> ➤ Emission Gasses. ➤ Global Warming. ➤ Green house effect. 		
<p>3. Clean Development Mechanism and Kyoto protocol (CDM):</p>		
<p>4. Environment Impact Assessment of New Electrical Projects (EIA):</p> <ul style="list-style-type: none"> ➤ Site selection. ➤ EIA programmer. ➤ Environment Statement and Mitigation process. ➤ Power Stations EIA ,local Environment Examples 		
<p>5. New Technologies and Renewable Energy:</p> <ul style="list-style-type: none"> ➤ Wind farm . ➤ Photo voltaic . ➤ Hybrid systems application. ➤ Bio gas plant. 		
<p>6. Environment Moldings and Calculation Examples:</p> <ul style="list-style-type: none"> ➤ Electrical design of Green home . 		

- Electrical pollution; Electromagnetic wave effect.
- Low Frequency; 0 - 200 HZ.
- Infrasound < 20 HZ.
- Calculations of power stations Emissions.

References:

1. ISO 9613 : Part 2 , 1996 , *Acoustic – Outdoors* .
2. Sassi, Yousef 2010 : *EIA of Derna Proposed Wind Farm* : Dar Alfatel , Benghazi .
3. UNEP 2012: *United Nation Environment Programme* .