

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