Environmental pollution Fourth year Semester 1 Credit Hour: 2 hrs. Code: CHM 479 Type:CR

1-Air pollution

* Definition.

* Atmospheric chemistry (cycles and residence time).

*Types and sources of air pollution.

- Particulates (soot, smoke, ash, dust, and other solids).
- Gases (carbon, nitrogen, sulfur, ozone, and CFCs).
- * Other pollutants (mercury, lead, cadmium, zinc and arsenic).

* Acid rain.

2- Water pollution

* General principles.

- * Geochemical cycles.
- * Residence time.
- * Point and non point pollution sources.
- * Industrial pollution.
- * Inorganic pollutants.
- * Organic compounds.
- * Thermal pollution.
- * Eutrophication.
- * Ground water pollution.

3- Agricultural pollution

- * Fertilizers.
- * Sediment pollution.
- * Herbicides and pesticides.
- * Dredging.

4- Indoor pollution.

* The causes of recent indoor pollution.

*The hazards.

*The risks of Radon.

- 5- The global warming (climate change).
- 6- The treatments and the way to minimizing pollution:
- *Incineration.
- * Deep well disposal.
- * Municipal waste disposal.
- * Open dumps. And sanitary land fills.

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