

COURSE CODE: ENS-101
COURSE NAME: Introduction to Environmental Science
CREDIT HOURS: Theory = 3 Practical = 0 Total = 3
CONTACT HOURS: Theory = 48 Practical = 0 Total = 48
PREREQUISITE: None
MODE OF TEACHING: Three hours of lecture per week

Course Description:

The objective of this course is to provide orientation on the evolution and scope of this emerging discipline and to motivate them to think beyond basic sciences to decision sciences. After completing this course, the students are expected to learn the importance of Environmental Science in human life, its relationship with various segments of society and sectors of development. The students are also expected to become familiar with current national, regional and global challenges for sustainable development.

TOPICS COVERED:

Week	Topic
1	Basic principles: about convergence of ecology with economic and sociology to evolve as environmental science, its nature, history, scope and the contribution to society
2	Basic principles: about convergence of ecology with economic and sociology to evolve as environmental science, its nature, history, scope and the contribution to society
3	Environmental aspects: physic-chemical, biological, socio-economic, socio-cultural, moral and ethical, and philosophical thinking
4	Environmental aspects: physic-chemical, biological, socio-economic, socio-cultural, moral and ethical, and philosophical thinking
5	Environmental aspects: physic-chemical, biological, socio-economic, socio-

	cultural, moral and ethical, and philosophical thinking
6	Environmental problems: local, regional and global level
7	Environmental problems: local, regional and global level
8	Environmental problems: local, regional and global level
9	Mid Semester Exam
10	Environmental challenges: Sustainability of resources for development: efficiency of energy and water resources
11	Environmental challenges: Sustainability of resources for development: efficiency of energy and water resources
12	Current and future trends in growth and resultant environmental pollution
13	Current and future trends in growth and resultant environmental pollution
14	Poverty and resource depletion
15	Development in industry
16	Development in industry
17	Agriculture and urbanization
18	End Semester Exam

Text and Material:

1. Environmental Science: Earth as a Living Planet, Botkin, D.B & Keller, E.A. 9th Ed. John Wiley & Sons, 2013.
2. Environmental Science: systems and solutions, McKinney, M.L., Schoch, R.M. & Yonavjak, L. 5th Ed. Jones & Bartlett Publishers, 2013
3. Environmental Science: Toward a Sustainable Future, Wright, R.T. & Nebel, B.J. 10th Ed. Pearson Educational.

ASSESSMENT SYSTEM:

Theoretical/Instruction	100%
Assignments	10%
Quizzes	15%

Mid Semester Exam	25%
End Semester Exam	50%

Practical Work	0%
Lab Attendance	0%
Lab Report	0%
Lab Quiz	0%
Lab Rubrics	0%
