



Course Specifications

| | |
|----------------------|---|
| Course Title: | Environment and Development |
| Course Code: | ENS 202 |
| Program: | Environmental Sciences Program |
| Department: | Environmental Sciences Department |
| College: | Faculty of Meteorology, Environment and Arid Land Agriculture |
| Institution: | King Abdulaziz University |

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A. Course Identification

| | | | |
|---|--|-----------------------------------|--|
| 1. Credit hours: 2 h | | | |
| 2. Course type | | | |
| a. | University <input type="checkbox"/> | College <input type="checkbox"/> | Department <input checked="" type="checkbox"/> Others <input type="checkbox"/> |
| b. | Required <input checked="" type="checkbox"/> | Elective <input type="checkbox"/> | |
| 3. Level/year at which this course is offered: 3 rd Level / 2 nd Year | | | |
| 4. Pre-requisites for this course (if any): ENS 100 | | | |
| 5. Co-requisites for this course (if any): None | | | |

6. Mode of Instruction (mark all that apply)

| No | Mode of Instruction | Contact Hours | Percentage |
|----|--|---------------|------------|
| 1 | Traditional classroom | - | - |
| 2 | Blended | - | - |
| 3 | E-learning (computer assisted instruction) | - | 100% |
| 4 | Correspondence | - | - |
| 5 | Other | - | - |

7. Actual Learning Hours (based on academic semester)

| No | Activity | Learning Hours |
|------------------------------|---------------------------------|----------------|
| Contact Hours | | |
| 1 | Lecture | 22.5 |
| 2 | Laboratory/Studio | - |
| 3 | Tutorial | - |
| 4 | Others (specify) | - |
| | Total | - |
| Other Learning Hours* | | |
| 1 | Study | 1.5 |
| 2 | Assignments | - |
| 3 | Library | - |
| 4 | Projects/Research Essays/Theses | - |
| 5 | Others (specify) | - |
| | Total | - |

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description:

This course covers the following topics:

1. The concept and main elements of development
2. Economic growth and development
3. Environmental aspects & human settlements
4. Poverty and environmental deterioration
5. Balance between environment and development
6. Developing nations, environment and development: privacy, challenges, and commitments
7. Human activities (industry, agriculture, tourism etc) and environment
8. Role of community and individual in environmental protection from developmental projects impacts
9. Economic and legal obstacles in overcoming the environmental impacts of developmental projects
10. International agreements and their effect on the environment

2. Course Main Objective

At the end of this course it is expected that student will be able to identify environmental aspects of human settlements, the concept of development, the main elements affecting it, relation of different development projects with environment.

He also should identify advancing knowledge of the influence of human activities on the environment, and the effect of any resulting changes of human health and welfare, with particular attention to those influences which are global or common to several nations; the impacts of a number of different developmental projects on environment and the methods of control.

He will be able to discuss the steps of operating a number of different developmental projects and the expected environmental deterioration.

- **The course lectures are partially posted in the of form of PDF or power point presentations on the website of faculty member responsible for the course that could be accessed by the students enrolled in the course.**
- **Change of dealing method with the course contents according to student receiving ability.**

3. Course Learning Outcomes

| CLOs | | Aligned PLOs |
|----------|---|--------------|
| 1 | Knowledge: | |
| 1.1 | Biochemical cycles of important chemical elements and compounds in normal and disturbed situations. | |
| 1.2 | Rational management of natural resources | |
| 1.3 | Biological and chemical effects of environment on biota including human health aspects and epidemiology and environmental toxicology. | |
| 1.4 | Communication of environmental information and societal assessment and response. | |
| 2 | Skills : | |
| 2.1 | Identification of the concept of development and main elements affecting it. | |
| 2.2 | Identification of the impacts of a number of different developmental projects on environment and the methods of control. | |
| 3 | Competence: | |
| 3.1 | Work independently and as part of a team. | |
| 3.2 | Manage resources, time and other members of the group | |
| 3.3 | Communicate results of work to others | |
| 3.4 | Use case-study tools | |
| 3.5 | Write reports | |

C. Course Content

| No | List of Topics | Contact Hours |
|-------|--|---------------|
| 1 | The concept and main elements of development | 4 |
| 2 | Economic growth and development | 2 |
| 3 | Environmental aspects & human settlements | 4 |
| 4 | Poverty and environmental deterioration | 2 |
| 5 | Balance between environment and development | 4 |
| 6 | Developing nations, environment and development: privacy, challenges, and commitments | 2 |
| 7 | Human activities (industry, agriculture, tourism etc) and environment | 4 |
| 8 | Role of community and individual in environmental protection from developmental projects impacts | 4 |
| 9 | Economic and legal obstacles in overcoming the environmental impacts of developmental projects | 2 |
| 10 | International agreements and their effect on the environment | 2 |
| Total | | 30 |

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

| Code | Course Learning Outcomes | Teaching Strategies | Assessment Methods |
|------|---|--|--|
| 1.0 | Knowledge | | |
| 1.1 | Biochemical cycles of important chemical elements and compounds in normal and disturbed situations. | <ul style="list-style-type: none">• Explanations and examples are given for each topic in class lectures.• Involvement of students in active discussion about topics.• Providing an opportunity for students to apply what they learn in the classroom to real-life experiences.• Homework assignments. | <ul style="list-style-type: none">• In class short quizzes• Midterm and final exams |
| 1.2 | Rational management of natural resources. | <ul style="list-style-type: none">• Explanations and examples are given for each topic in class lectures.• Involvement of students in active discussion about topics.• Providing an opportunity for students to apply what they learn in the classroom to real-life experiences.• Homework assignments. | <ul style="list-style-type: none">• In class short quizzes• Midterm and final exams |
| 1.3 | Biological and chemical effects of environment on biota including human health aspects and epidemiology and environmental toxicology. | <ul style="list-style-type: none">• Explanations and examples are given for each topic in class lectures.• Involvement of students in active discussion about topics.• Providing an opportunity for students to apply what they learn in the classroom to real-life experiences.• Homework assignments. | <ul style="list-style-type: none">• In class short quizzes• Midterm and final exams |

| Code | Course Learning Outcomes | Teaching Strategies | Assessment Methods |
|------|--|---|--|
| 1.4 | Communication of environmental information and societal assessment and response. | <ul style="list-style-type: none"> • Explanations and examples are given for each topic in class lectures. • Involvement of students in active discussion about topics. • Providing an opportunity for students to apply what they learn in the classroom to real-life experiences. • Homework assignments. | <ul style="list-style-type: none"> • In class short quizzes • Midterm and final exams |
| 2.0 | Skills | | |
| 2.1 | Identification of the concept of development and main elements affecting it. | <ul style="list-style-type: none"> • Homework assignments • Discussion of case studies. | <ul style="list-style-type: none"> • In class short quizzes • Midterm and final exams • Checking the problems solved in the homework assignments. |
| 2.2 | Identification of the impacts of a number of different developmental projects on environment and the methods of control. | <ul style="list-style-type: none"> • Homework assignments • Discussion of case studies. | <ul style="list-style-type: none"> • In class short quizzes • Midterm and final exams • Checking the problems solved in the homework assignments. |
| 3.0 | Competence | | |
| 3.1 | Work independently and as part of a team. | <ul style="list-style-type: none"> • Writing group reports • Solving problems in groups. | <ul style="list-style-type: none"> • Grading homework assignments |
| 3.2 | Manage resources, time and other members of the group | <ul style="list-style-type: none"> • Writing group reports • Solving problems in groups. | <ul style="list-style-type: none"> • Grading homework assignments |
| 3.3 | Communicate results of work to others | <ul style="list-style-type: none"> • Writing group reports • Solving problems in groups. | <ul style="list-style-type: none"> • Grading homework assignments |

| Code | Course Learning Outcomes | Teaching Strategies | Assessment Methods |
|------|--------------------------|--|---|
| 3.4 | Use case-study tools | 1- Writing reports. 2- Group discussions. | 1- Checking the problems solved in the homework assignments. 2- Evaluation of reports. |
| 3.5 | Write reports | 1- Writing reports. 2- Group discussions. | 1- Checking the problems solved in the homework assignments. 2- Evaluation of reports. |

2. Assessment Tasks for Students

| # | Assessment task* | Week Due | Percentage of Total Assessment Score |
|---|---------------------------------------|-------------------------|--------------------------------------|
| 1 | Class activities (homework) (reports) | (3,7,10,13) (4,9,13) | 15% |
| 2 | Class quizzes | (7,12) | 15% |
| 3 | Final exam | 16 | 70% |

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

Office hours 4 h / week

F. Learning Resources and Facilities

1. Learning Resources

| | |
|---------------------------------|---|
| Required Textbooks | Al-Hennawi, E. (2001) Environment and development issues in Egypt: the current situation and future scenarios until 2020, Dar Al-Shark, Nasr City, Cairo. |
| Essential References | Mostafa, T. (1992) Saving our planet, the challenges and hopes (the state of the environment in the world 1972 - 1992) United Nations Environment Program and the Center for Arab Unity Studies, Beirut. (In Arabic) |
| Electronic Materials | Websites on the internet that are relevant to the topics of the course, Course Blackboard. |
| Other Learning Materials | Multi media associated with the text book and the relevant websites, in addition to Blackboard clases. |

2. Facilities Required

| Item | Resources |
|---|---|
| Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) | E-Learning Facilities. |
| Technology Resources (AV, data show, Smart Board, software, etc.) | Blackboard |
| Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list) | Equipment and illustration tools relevant to the course material |

G. Course Quality Evaluation

| Evaluation Areas/Issues | Evaluators | Evaluation Methods |
|---------------------------------|---|--|
| Course contents covering | Students (direct through meetings, or indirect using the central online questionnaires Students- faculty meetings | Online questionnaire and Students- faculty meetings (advisory committee) 1- Departmental council discussions 2- Internal discussions between the department members teaching the course. |
| Quality of teaching | Students (direct through meetings, or indirect using the central online questionnaires | Online questionnaire and Students- faculty meetings (advisory committee) 1- Attending workshops |

| Evaluation Areas/Issues | Evaluators | Evaluation Methods |
|-------------------------|------------|--|
| | | <p>given by experts on the teaching and learning methodologies.</p> <p>2- Periodical departmental revisions of its methods of teaching</p> |
| Office hours commitment | - | Online questionnaire and Students- faculty meetings (advisory committee) |

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

| | |
|---------------------|--|
| Council / Committee | END Dept. Council and Faculty Academic Accreditation Committee |
| Reference No. | |
| Date | April, 2021 |