The University of Jordan

Accreditation & Quality Assurance Center

Course Syllabus

Course Name:
1. Course title: Science and Society

2. Course number: 0342100

3. **Credit hours (theory, practical):** 3
   **Contact hours (theory, practical):** 8 office hours

4. Prerequisites/corequisites: N/A this is an elective course

5. Program title: elective course

6. Program code: Phys

7. Awarding institution: The University of Jordan

8. Faculty: Science

9. Department: Physics

10. Level of course: Undergraduate

11. Year of study and semester (s): First Semester 2016/2017

12. Final Qualification: Undergraduate degree in different programs as this is an elective course

13. Other department (s) involved in teaching the course: N/A

14. Language of Instruction: English for one of the sections and Arabic for three other sections

15. Date of production/revision:

16. **Course Coordinator:**

   *Office numbers, office hours, phone numbers, and email addresses should be listed.*

   **Dr Eman Daar**
   e.daar@ju.edu.jo

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<tr>
<th>Day</th>
<th>Time</th>
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<tr>
<td>Monday</td>
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<td>10.00-12.00</td>
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17. **Other instructors:**

   *Office numbers, office hours, phone numbers, and email addresses should be listed.*

   N/A

18. **Course Description:**
As stated in the approved study plan.

This course aims to familiarise students with the following topics:

- Traditional energy sources:
  - Oil, coal and gas
  - World reserves of traditional energy resources
  - Advantages/disadvantages of traditional energy use
  - Global warming: effect of industrial pollution on the environment

- Renewable energy sources:
  - Solar energy
  - Wind energy
  - Other sources of renewable energy
  - Advantages/disadvantages compared to the traditional energy sources

- Nuclear energy:
  - Methods of nuclear energy production
  - Advantages/disadvantages of using nuclear energy
  - Effect on the environment
  - Nuclear safety
  - Nuclear security

- Management of energy sources and resources

1. Course aims and outcomes:

2. A- Aims:

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to ...

Understand the difference between each form of energy in term of efficiency, environmental effects such as global warming and biological diversity, and its role in all sectors of life including tourism sector (if any), health services (including management of different diseases), development of rural areas. Students should be familiar with safety issues in each type of these sources.
20. Topic Outline and Schedule:

<table>
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<th>Instructor</th>
<th>Achieved ILOs</th>
<th>Evaluation Methods</th>
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21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

- Mid-exam
- Assignments
- Classroom interaction

A- Attendance policies:

Students are expected to attend all their lectures and if absence reaches 25% of the total number of lectures during the term it will cause dismissal from the course. Exceptional is taken under consideration only in critical cases (health reasons which should be verified by an official's doctors).
B- Absences from exams and handing in assignments on time:
Students who missed their mid-term or final exam due to illness or other critical reasons need to fill in an justifying evidence form (obtained from the faculty deanship). In case of accepted evidence, student will be required to take a make-up exam (or incomplete exam in case of missing the final exam).

C- Health and safety procedures:
Health and safety of students in the classroom is always taken in consideration.

D- Honesty policy regarding cheating, plagiarism, misbehavior:
Any form of academic misconduct activities may results in failure of a specific assignment, an entire course or dismissal from the university.

E- Grading policy:
Alphabetical Grading Scale: A, A-, B+, etc

F- Available university services that support achievement in the course:
Library and internet access

24. Required equipment:

This is a theoretical course; therefore all the required equipments are available in most classrooms.

25. References:

A- Required book (s), assigned reading and audio-visuals:

Main Reference: Handouts prepared by myself and other colleagues.

B- Recommended books, materials, and media:


26. Additional information:

N/A
Name of Course Coordinator: **Dr. Eman Daar**  
Signature: **Eman Daar**  
Date: **7 December 2016**

Head of curriculum committee/Department:  
Signature:  

Head of Department:  
Signature:  

Head of curriculum committee/Faculty:  
Signature:  

Dean:  
Signature:  

Copy to:  
Head of Department  
Assistant Dean for Quality Assurance  
Course File