Course Description

The course covers the essential concepts and processes of science, technology and society and their interrelatedness. There will be an exploration on the interactions among science, technology, and society (STS) through an issues approach. The course shall explore on how the society can stimulate scientific knowledge and technology progress and development. This also covers a wide array of disciplines such as economics and political science.

Course Outcomes

At the end of the course, the students should be able to:

1. Elucidate the relationships among science, technology, and society;
2. Develop the ability to analyze/solve problems critically and think innovatively and creatively;
3. make informed decisions regarding societal issues;
4. participate in activities towards attainment of environmental and societal sustainability;
5. discover one’s roles in responding to the needs of society.
### Learning Outcomes

At the end of the chapter, the students should be able to:

1. recognize the importance of science and technology to society;
2. integrate the scientific traits and attitudes and the scientific method in real life;
3. trace the development of science and technology and analyze its major advances which have beneficial / harmful impacts on humans and environment using timeline;
4. prepare a reflection journal of the influences of science and technology to society.

### Course Content

Chapter 1 – The Nature and Relationships of Science, Technology and Society

1. Review of the Basic Concepts
   1.1 Characteristics of Science and Technology and Society
   1.2 The Scientific Method and Processes of Science
   1.3 Scientific Traits and Attitudes
2. History of Science and Technology
3. Influences of Science and Technology in Society

### Teaching Strategies

- Lecture-Discussion using Powerpoint presentation
- Small group discussion
- Group Presentation of the Diagram
- Comic strip construction containing the major contribution of selected periods of history in S&T
- Case Study analysis of “Industrial Melanism”

### Time Allotment

3 hours

### Evaluative Measures

Quiz
Assessment of Group Output
Individual Journal Writing graded with rubrics

### Learning Outcomes

At the end of the chapter, the students should be able to:

1. Make a report on how energy is obtained from the sources;
2. identify the causes of energy crises and recommend corresponding solutions to each;
3. explain the different issues regarding food production, security and other societal issues;
4. recognize and carry out ideas on how material and energy resources can be sustained.

### Course Content

Chapter 2 – Recent Advances and Trends in Science and Technology and its impact in society such as:

1. Energy Resources
   Energy Crises
2. Food Production and Security
   Genetically Modified Food Products

### Teaching Strategies

- Debate
- Film Showing on alternative sources of energy in the Philippines
- News Casting on issues related to GMO
- Collage Presentation on issues to Science and Technology in general for information dissemination
- Portfolio making on different products produced by Genetic modification

### Time Allotment

8 hours

### Evaluative Measures

Quizzes
Assessment of Presented Output
Midterm Examination
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| At the end of the chapter, the students should be able to: | Chapter 3 – Issues and Concerns on STS such as: | - Small group discussion 
- Group Presentation 
- Discussion on Action for Sustainable Environment 
- Commercial presentation (Acting out an excerpt of a commercial) which promote health and wellness 
- Poster with Slogan Making on Environmental Sustainability, Global Warming & Climate Change 
- Survey & Presentation of population growth & statistics in the Philippines for the next 10 years | 7 hours | Quiz 
Assessment on health habits 
Journal Writing on Environment friendly activities 
Self assessment survey on Action for Sustainable Environment 
Final Examination |
References

Del Rosario, Maria Nora B. *RIMSTS (really important matters for students to study): An Instructional Aid for Science, Technology, and Society*. Quezon City C & E, c2008.

Recent journals and Newspapers

Electronic References:

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