



## COURSE SYLLABUS

### 1<sup>st</sup> Semester Academic Year 2017

#### 1. Integrated General Education Center

2. **Course code:** 01999213    **Course name:** Environment, Technology & Life

**Total credits:** 3 (3-0)

**Prerequisite:** -

**Section:** 450, 420    **Friday**    **Time:** 13.00-16.00    **Room No:** E 17302

3. **Lecturer(s):**
1. Dr. Piyapoong Tongdenoak
  2. Assoc. Prof. Monchan Makethon
  3. Prof. Dr. Chamnong Adivadhanasit
  4. Dr. Nopasom Sinphurmsukskul
  5. Dr. Poonsak Miphokasap
  6. Assoc. Prof. Sawitri Chuntranuluck

#### 4. Office hours for student consultation

Corresponding group lecturer: Dr. Piyapoong Tongdenoak

Available date for consultation: Wednesday

Time: 10.00-12.00 AM (Please make an appointment)

Room: 605, Floor 6, 72<sup>th</sup> Forestry Building, Faculty of Forestry.

Telephone 085-722-5979 e-mail address: [fforppt@ku.ac.th](mailto:fforppt@ku.ac.th)

#### 5. Course Objective(s)

1. Knowledge and understanding in environment, technology & quality of life.
2. Their relation and impact.
3. Learning how to utilize natural resources in a sustainable manner.

#### 6. Course Description

Environment, technology, life and interaction. Evolution of technology and environmental impact. Application of science and technology for quality of life and sustainable natural resource utilization. Field trip required.

#### 7. Course Outline

- 7.1 Chapter 1: Fundamental of environment
- 7.2 Chapter 2: Sciences and technology
- 7.3 Chapter 3: Environmental conservation
- 7.4 Chapter 4: Environment and quality of life
- 7.5 Chapter 5: Case study



Week	Date	Topic	Class Activity	Lecturers
3	18 Aug., 17	<b>Chapter 2: Sciences and Technology</b> 2.1 Application of sciences and technological innovation 2.1.1 Definitions and meanings of sciences and technology 2.1.2 Relationship between sciences and technology 2.1.3 Innovation and future of sciences and technology in Thailand	Lecture, movie, discussion	Assoc. Prof.Monchan Makethon
4	25 Aug., 17	2.2 Technology and country development 2.2.1 Importance of technology to country development 2.2.2 Forms of implication of technology for country development 2.2.3 Obstacles, success, and failure of technological development of a country 2.2.4 Status of governmental support on research and development 2.2.5 Future goals of research and development of technology	Lecture, movie, discussion	Assoc. Prof.Monchan Makethon
5	1 Sep., 17	2.2.6 National science and technology policy 2.6.7 Strategies on strengthening science and technology 2.3 Evolution of technology 2.3.1 Limitations of technology 2.3.2 Evolution rate of technology 2.3.3 Evolution of technology	Lecture, movie, discussion	Assoc. Prof.Monchan Makethon
6	8 Sep., 17	2.4 Interaction of science and technology 2.4.1 Roles of technology on changing the environment 2.4.2 Roles of environment on shaping technology 2.5 Technology and environmental impact 2.5.1 Global environmental impact 2.5.2 Thailand environmental impact 2.5.3 Conclusion	Lecture, movie, discussion	Assoc. Prof.Monchan Makethon

Week	Date	Topic	Class Activity	Lecturers
7	15 Sep., 17	<b>Chapter 3: Environmental conservation</b> 3.1 Principle and method 3.1.1 Meaning and principle of conservation 3.1.2 Methods of conservation 3.2 Environmental conservation by science and technology 3.3 Sustainable natural resource utilization	Lecture, discussion	Dr. Piyapoong Tongdenoak
<b>Midterm exam on 17<sup>th</sup> September, 2017 (9.00-11.00 a.m.)</b>				
8	29 Sep., 17	3.4 Environmental conservation by education and ethics 3.4.1 Education for life and environment 3.4.2 Building environmental moral and ethics 3.4.3 Conclusion	Lecture, discussion, homework	Dr. Chamnong Adivadhanasit
9	6 Oct., 17	<b>Chapter 4: Environment and quality of life</b> 4.1 Evolution of life and adaptation to the environment 4.1.1 Life on earth 4.1.2 Human evolution and adaptation	Lecture, discussion	Dr. Poonsak Miphokasap
10	3 Nov., 17	4.2 Environment and quality of life 4.2.1 Quality of life 4.2.2 Natural environment and quality of life 4.2.3 Social, economics, and environment, and quality of life 4.2.4 Urban quality of life 4.2.5 Sustained quality of life 4.2.6 Indicator and quality of life assessment	Lecture, discussion	Dr. Poonsak Miphokasap
11	10 Nov., 17	4.3 Sustainable development for quality of life 4.3.1 Meaning of sustainable development 4.3.2 Sustainable development 4.3.3 Socio-economic development for quality of life 4.3.4 The Ninth national social and economic development plan	Lecture, discussion	Dr. Poonsak Miphokasap
12	17 Nov., 17	3.5 Environmental Economics 3.5.1 Causes of Market Failure 3.5.2 Economics for sustainable resource utilization 3.5.3 Sustainable resource utilization 3.5.4 Sustainable development 3.5.5 Existing and Optimal Stock 3.5.6 Natural Resources and Resilience of Economic System	Lecture, discussion	Dr. Nopasom Sinphurmsukskul

Week	Date	Topic	Class Activity	Lecturers
13	24 Nov., 17	<b>Chapter 5: Case study</b> 5.1 El ninno 5.2 Green house effect	Lecture, discussion, movie	Assoc.Prof.Sawitr i Chuntranuluck
13	1 Dec., 17	5.3 Biodiversity 5.4 Development and environment 5.4.1 Type and size of development project subjected to study of environmental impact assessment (EIA) 5.4.2 Environmental decision making 5.5 National environmental policy	Lecture, Presentation, discussion	Dr. Piyapoong Tongdenoak
<b>Final exam on 10<sup>th</sup> December, 2017 (9.00-11.00 a.m.)</b>				

Field Trip (Please see an official announcement)

Signature.....*Sarat Rattana*.....

(Sarat Rattana)

Date 31 July 2017