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| MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT**VIETNAM NATIONAL UNIVERSITY** **OF AGRICULTURE** | SOCIALIST REPUBLIC OF VIETNAM**Independence - Freedom - Happiness** |

**PROGRAM FOR UNDERGRADUATE**

ENVIRONMENTAL SCIENCE

**COURSE SPECIFICATION**

SN03053: ENGLISH FOR EVIRONMENTAL SCIENCE

 **I. General information**

* + Term: 5
	+ Credits: **Total credits 2 (Lecture: 2 – Practice: 0 - Self-study: 09)**
	+ Credit hours for teaching and learning activities:

+ Lecture: 9.5 hrs

+ Exercises on class: 20.5 hrs

* + Self-study: 90 hrs.
	+ Department conducting the course:
		- Department: General English
		- Faculty: Education and Foreign Languages
	+ Kind of the course:

|  |  |  |
| --- | --- | --- |
| Foundation □ | Fundamental X | Option |
| Compulsory □ | Elective □ | Compulsory X | Elective □ | Compulsory □ | Elective □ |

* + Prerequisite course(s):
	+ Course language: English X Vietnamese

**II. Course objectives and expected learning outcomes**

**\* *Course objectives*:**

- Knowledge: Course provides students: basic concepts in environmental science; environmental science knowledge from reading texts; and environmental issues in English.

- Skills: Course helps students practice skills in researching and updating related professional knowledge.

- Ethics and Attitude: Course enhances students’ awareness to build proactiveness in learning and life-long learning attitude.

***\* Expected learning outcomes of the program***

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| Upon completion of the program, students are able to: |
| General knowledge | ELO1: Apply the knowledge of natural sciences, politics, society, humanities, law, economics and understand contemporary issues in the field of environmental sciences. |
| Professional knowledge | ELO2: Analyze environmental qualities including design and implement the environmental tests, data collection and interpretation. |
| ELO3: Evaluate the impact of resource exploitation and emissions on environmental quality. |
| ELO4: Develop sustainable solutions for environmental and resources management and protection from different perspectives of science, humanities and society. |
| ELO 5: Design waste treatment facilities (solid wastes, wastewater and air polutants) according to national and international standards and regulations. |
| General skills | ELO 6: Apply systematic thinking, critical thinking and creative thinking in solving environmental problems and related fields. |
| ELO7: Work in group and lead the multi-functional team. |
| ELO8: Communicate effectively via oral, written, and multimedia with stakeholders in a dynamic environment; Obtain an English standard as required by the Ministry of Education and Training. |
| Professional skills | ELO 9: Apply appropriate approaches and methods, techniques to investigate, survey and study environmental issues. |
| ELO 10: Use modern technology, equipment and techniques in natural resources and environment management and protection activities. |
| Ethics and Attitudes | ELO11: Determine a clear professional orientation, career passion and a sense of lifelong learning. |
| ELO12: Demonstrate professional ethical standards, carrying out responsibility for environmental protection and serving the sustainable development of Vietnam and the globe. |

**\* *Course expected learning outcomes***

This course contributes to program expected learning outcomes as follows:

*I – Introduction; P – Practice; R – Reinforce; M – Master*

|  |  |  |
| --- | --- | --- |
| Code | Course name | Program expected learning outcomes |
| ELO1 | ELO2 | ELO3 | ELO4 | ELO5 | ELO6 | ELO7 | ELO8 | ELO9 | ELO10 | ELO11 | ELO12 |
| SN03053 | English for Environmental Science |  |  |  |  |  |  |  | **p** |  |  | **p** |  |

|  |  |  |
| --- | --- | --- |
| **Notation** | **Course expected learning outcomes**After successfully completing this course, students are able to  | **Program expected learning outcomes** |
| **Knowledge** |  |
| CELO1 | Distinguish English terminology in understanding environmental science issues. | - |
| CELO2 | Apply English grammar features frequently used in professional documents about environmental science in understanding its content.  | - |
| CELO3 | Understand simple definitions in environmental field | - |
| **Skills** |  |
| CELO4 | Combine different knowledge and skills to solve reading tasks related to environmental science  | ELO8: Communicate effectively via oral, written, and multimedia with stakeholders in a dynamic environment; Obtain an English standard as required by the Ministry of Education and Training. |
| CELO5 | Combine different knowledge and skills to present about environmental science issues in English. | ELO8: Communicate effectively via oral, written, and multimedia with stakeholders in a dynamic environment; Obtain an English standard as required by the Ministry of Education and Training. |
| **Ethics and Attitude** |  |
| CELO6 | Display proactiveness in learning, researching, and updating related professional knowledge; and enhance lifelong learning attitude.  | ELO11: Determine a clear professional orientation, career passion and a sense of lifelong learning. |

**III. Course description**

Code: SNE03053 – Name: English for Environmental Science (Total credits 02: lecture 02 - practice 0 - self-study 06).

Brief description of the course: This course consists of five modules, including: Useful Language for Scientific Presentation; Basic ecology; Environment and Sustainable Development; Environmental pollution; Problems in Pollution control.

 **IV. Teaching and learning methods**

***1. Teaching methods***

* Lecturing method
* Group-based learning
* Teaching with multiple choice questions
* Teaching using video clips
* Class Discussion

**2. Learning methods**

* Self-study, learning journals
* Pair and group discussion
* Note-taking, projects, presentations

**V. Student tasks**

- Attendance: All students taking this course must attend all the required classes in the class;

participate in class discussion according to the teacher’s instructions;

- Preparation for the lecture: All students taking this course must read relevant materials and check the new vocabulary for the new lesson before class.

- Assignment: All students must complete all the assignments/ homework assigned by the teacher.

- Mid-term exam: All students taking this course must fulfil the mid-term test

- Final exam: All students taking this course must sit the final exam

**VI. Assessment methods**

***1. Grading: 10***

***2 . Assessment plan and weighting***

- Rubric 1: Participation: 10 %

- Rubric 2: Presentation: 30 %

- Rubric 3: Final exam: 60%

***3. Assessment summary***

***Table1. Assessment matrix of Course expected learning outcomes***

|  |  |  |  |
| --- | --- | --- | --- |
| ***Course expected learning outcomes*** | Rubric 1: Participation **(10%)** | Rubric 2: Presentation **(30%)** | Rubric 3: Final exam **(60%)** |
| CELO1 | x | x | X |
| CELO2 | x | x | X |
| CELO3 | X | X | X |
|  CELO4 | X |  | X |
| CELO5 |  | X |  |
| CELO6 | X | X |  |

***Table2. Indicators of Course expected learning outcomes***

***(Used for final exam)***

|  |  |
| --- | --- |
| ***Course expected learning outcomes*** | ***Indicators of Course expected learning outcomes*** |
| CELO1, CELO2  | **Indicator 1**. Select one correct word/phrase for each short sentence/text.  |
| CELO3 | ***Indicator*** 2. Decide which given words would be the most suitable to the given definitions. |
| CELO2, CELO4 | ***Indicator*** 3: Select one correct answer to each question about a reading text. |

**Rubric 1: Participation**

| **Areas of assessment** | **Weighting (%)** | **Excellence**8.5 – 10 point | **Good**6.5 – 8.4 point | **Fair**4.0 – 6.4 point | **Poor**0 – 3.9 point |
| --- | --- | --- | --- | --- | --- |
| Attendance | 50 | Attending more than 90% of class hours | Attending between 80%-90% of class hours | Attending between 60%- 80% of class hours | Attending less than 50% of class hours |
| Participation | 50 | Listening attentively to the teacher, cooperating well with partners in pair-work or group work, being active in discussions | Listening attentively to the teacher, cooperating well with partners in pair-work or group work, but not being active in discussions | Listening attentively to the teacher, but not cooperating well with partners in pair-work or group work, not being active in discussions | Not listening attentively to the teacher, not cooperating well with partners in pair-work or group work, not being active in discussions |

**Rubric 2: Presentation**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Criteria**  | **Weight (%)** | **Excellent****8.5-10 point**  | **Good****6.5-8.4 point**  |  **Fair**4.0 – 6.4 point | **Poor**0 – 3.9 point |
| Content  | 10 | More various than required | Enough as required | Not enough, miss some important content | Miss a lot of important content  |
| 20 | Correct, scientific  | Quite correct, scientific, some small mistakes | Correct, scientific, some big mistakes | Not correct, scientific, a lot of big mistakes |
| Structure and visuality  | 10 | Structure and slides are reasonable | Structure and slides are quite reasonable | Structure and slides are relatively reasonable | Structure and slides are not reasonable |
| 10 | Very visual and aesthetic | quite visual and aesthetic | relatively visual and aesthetic | Not visual and aesthetic |
| Presention skill  | 10 | Lead in and argue attractively, persuasively | Present clearly but not attractively, argue quite persuasively | Hard to follow but can understand important contents | Present unclearly, listeners can’t understand important points. |
| Interaction gestures  | 10 | Good eye contact and gesture  | Quite good eye contact and gesture |  Not good eye contact and gesture | Do not have eye contact and gesture  |
| Time management | 10 | Master time and adjust situation flexibly  | Finish on time, sometimes adjust situation flexibly | Finish on time but not flexible under situation  | Exceed the fixed hours |
| Response to questions | 10 | Answer all questions clearly and completely | Answer most questions clearly and provide suitable suggestion for unanswered questions | Answer almost questions but not clearly and can’t provide suitable suggestion for unanswered questions | Do not answer questions |
| Cooperating in group  | 10 | All group members participate, collaborate and help each other in presentation and response to questions  |  group members participate and help each other in presentation and response to questions in some cases | members participate and involve in presentation and response to question rarely | There is no collaboration in the group |

***4. Course requirements and policies***

**Late homework:** Late homework will account to the subtraction of attendance assessment

**Absence:** absence from 1 class hour means 1 point subtracted from the attendance points

**Make-up exams**. Missing the midterm will lead to a grade of 0 except in the case of a documented illness or other documented circumstances beyond your control.

**Ethical policy**: All students must follow the school regulations in class. You may work on the homework collaboratively with your friends, but the work that you hand in must be written in your own handwriting (or typed by you), in your own words, and you represent that you understand everything you wrote.

**Exceptional circumstances:** Any absence from class or mid-term exam day must be notified to the teacher in advance

**VII. Text books and references**

***\* Text Books/Lecture Notes:***

* Lecture Notes for English for Environmental Science. (2018). collected by the teacher for internal use.

***\* Additional references:***

* Altieri M.A. (2002). Review Agroecology: the science of natural resource management for poor farmers in marginal environments. Agriculture, Ecosystems and Environment 93: 1–24.
* Barrow C.J. (2002). Environmental management: Principles and Practices, Taylor & Francis Group.
* Dresner, S. (2008). The Principles of Sustainability, Earth scan Publications, London
* Leakey R.R.B., Zac Tchoundjeu, Kate Schreckenberg, Sheona E. Shackleton and Charlie M. Shackleton (2005). Agroforestry tree products (AFTPs): Targeting poverty reduction and enhanced livelihoods. International Journal of Agricultural Sustainability, Vol.3 (1): 1-23.

**VIII. Course outline**

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| **Week** | **Content** | **Course expected learning outcomes** |
| 1 | ***Unit 1:*** Useful Language for Scientific Presentation |  |
| ***A/* Main contents***: ( 3 hours)***Theories:** *(1,5 hours)* 1.1 Opening  1.2. Mapping presentation 1.3 Introducing the main questions 1.4 Presenting research methods  1.5 Presenting data in tables 1.6 Presenting data in figures 1.7 Emphasizing a point 1.8 Introducing slides and making transitions 1.9 Concluding presentation 1.10 Dealing with the questions**Practice:** *(1,5 hours)** 1. Practice
 | CELO5, CELO6 |
| ***B/* Self-study contents**: *(9 hours)** Exercises in coursebook, reference books
 |  |
| 2,3 | ***Unit 2:*** Basic Ecology |  |
| **A/ Main contents***: ( 6 hours)***Theories** *(2 hours)* 1.1 Warm up 1.2. Readings 1.3 Vocabulary 1.4 Grammar **Practice:** *(4 hours)** 1. Excercises

***B/* Self-study content:***(18 hours)** Exercises in coursebook, reference books
 | CELO1, CELO2, CELO3, CELO4, CELO5, CELO6 |
| 4,5 | ***Unit 3:*** Environment and Sustainable Development |  |
| **A/ Main contents***: ( 6 hours)***Theories:** *(2 hours)* 1.1 Warm up 1.2. Readings 1.3 Vocabulary 1.4 Grammar **Practice:** *(4 hours)** 1. Exercises

***B/* Self-study content:***(18 hours)** Exercises in coursebook, reference books
 | CELO1, CELO2, CELO3, CELO4, CELO5, CELO6 |
| 6 | Presentations*(3 hours)***Self -study: (9 hours)****-Exercises in coursebook, reference books** | CELO1, CELO2, CELO3, CELO5, CELO6 |
| 7,8 | ***Unit 4:*** Environmental pollution |
| **A/ Main contents***: ( 6 hours)***Theories:** *(2 hours)* 1.1 Warm up 1.2. Readings 1.3 Vocabulary 1.4 Grammar **Practice:** *(4 hours)** 1. Exercises

***B/* Self-study content:***(18 hours)** Exercises in coursebook, reference books
 | CELO1, CELO2, CELO3, CELO4, CELO5, CELO6 |
| 9,10 | ***Unit 5:*** Problems in Pollution control |  |
| **A/ Main contents***: ( 6 hours)***Theories:***(2 hours)* 1.1 Warm up 1.2. Readings 1.3 Vocabulary 1.4 Grammar **Practice:** *(4 hours)** 1. Exercises

***B/* Self-study content:***(18 hours)** Exercises in coursebook, reference books
 | CELO1, CELO2, CELO3, CELO4, CELO5, CELO6 |

**IX. Facility and other requirements:**

* Classroom: 50 seats, air-conditioned, sufficient light, and fans
* Teaching equipment: Projector, speaker, micro speaker, board & chalk
* Other facilities: Internet Wi-Fi
* E-learning: Students must have a computer/ laptop to study at home

**X. Improvement**

First: July 2016

Second: July 2017

Third: July 2018

Fourth: July 19, 2019

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| **HEAD OF DEPARTMENT***(Full name and signature)* | *Hanoi, date…..month……year……***LECTURER***(Full name and signature)***M.A. Nguyen Thi Hoai** |
| **DEAN OF FACULTY***(Full name and signature)*  | **PRESIDENT***(Full name and signature)* |

**APPENDIX**

**LIST OF LECTURERS AND ASSISSTANTS FOR THE COURSE**

**Lecturer**

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| --- | --- |
| Full name: Pham Thi Hanh | Title: M.A.  |
| Address: Department of General English, Room 302, 3rd Floor, Faculty of Education & Foreign Languages | Phone: 01656109347 |
| Email: pthanh@vnua.edu.vn  | Web: http://www.vnua.edu.vn/khoa/spnn/ |
| Contact with lecturers:- Location: Room 302, 3rd Floor, Faculty of Education & Foreign Languages- Time: During office hours |

**Lecturer**

|  |  |
| --- | --- |
| Full name: Nguyen Thi Hoai | Title: M.A.  |
| Address: Department of General English, Room 302, 3rd Floor, Faculty of Education & Foreign Languages | Phone: 0962936197 |
| Email: nthoai@vnua.edu.vn  | Web: http://www.vnua.edu.vn/khoa/spnn/ |
| Contact with lecturers:- Location: Room 302, 3rd Floor, Faculty of Education & Foreign Languages- Time: During office hours |

**Lecturer**

|  |  |
| --- | --- |
| Full name: Bui Thi La | Title: M.A.  |
| Address: Department of General English, Room 301, 3rd Floor, Faculty of Education & Foreign Languages | Phone: 0988373286 |
| Email: btla@vnua.edu.vn  | Web: http://www.vnua.edu.vn/khoa/spnn/ |
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**Lecturer**

|  |  |
| --- | --- |
| Full name: Tran Thi Hai | Title: M.A.  |
| Address: Department of General English, Room 301, 3rd Floor, Faculty of Education & Foreign Languages | Phone: 0979440098 |
| Email: tthainn@vnua.edu.vn  | Web: http://www.vnua.edu.vn/khoa/spnn/ |
| Contact with lecturers:- Location: Room 301, 3rd Floor, Faculty of Education & Foreign Languages- Time: During office hours |