

## **Course Title**

### **Master of Science Program in Earth System Science**

**Master Degree:** Master of Science Program in Earth System Science

**Academic Institute:** Interdisciplinary Graduate School of Earth System Science and Andaman  
Natural Disaster Management, Prince of Songkla University, Phuket Campus

**Duration:** 1<sup>st</sup> semester : August – December

2<sup>nd</sup> semester : January – July

**Objective:** The Master of Science Program in Earth System Science aims to produce graduates, who are fully equipped with high-level knowledge and research skills in the field of Earth System Science, and can create new knowledge and integrate interdisciplinary knowledge for preventing and solving natural disaster problems and managing natural resources and environment.

#### **Course Synopsis & Methodology:**

- **Curriculum Structure** Total credits: 36

Selected Topics (2 courses)            S/U    credits

Special Studies (2 courses)            S/U    credits

Graduate Thesis                            36    credits

All courses are conducted in English. Selection of selected topic and special study courses is advised by the thesis advisor.

#### **- Graduation Requirements**

- 1) Have completed all required courses of the curriculum.
- 2) Have passed the qualifying examination.
- 3) Have passed the thesis proposal defense.
- 4) Have passed the thesis final defense.
- 5) Have the thesis published or have obtained acceptance of publication for a paper in a journal listed in the Scopus database or first two upper groups of the TCI database.

6) Have satisfied one of the following English proficiency requirements:  
TOEFL score not less than 550 (paper-based test) or 213 (computer-based test), or 80 (internet-based test)  
IELTS score not less than 6.0

**Course Content/Study Topic:**

Climate Change: Atmospheric model; Impact of Climate Change to organisms;

Groundwater; Sea Intrusion; Landslide; Estimation of Greenhouse Gas Amount; Carbon Credit; Carbon Footprint Assessment: Land Use Change; Water Footprint Assessment; Energy Consumption Assessment; Ecotoxicity Assessment

Conserve and sustainably use: Life Cycle Sustainability Assessment; Water Pollution;

Air Pollution; Environmental Toxicology

**Qualification:**

1. The applicant must hold
  - a bachelor's degree within the 1st or 2<sup>nd</sup> quartile or
  - a graduate certificate with cumulative GPA not less than 3.00 or
  - a graduate diploma with cumulative GPA not less than 3.00 or
  - Must have a senior project or research study with very good quality.
  - All above must be obtained from universities approved by the PSU Interdisciplinary Graduate School Committee (IGSC).
  - Other applicants may be admitted on conditions that they receive approval from the PSU Interdisciplinary Graduate School Board.
2. The applicant must submit a TOEFL or an IELTS score.

**Document Required:**

A statement of purpose and CV. The statement of purpose should contain the followings.

- Your general information.
- Your purpose in graduate study.
- The area of study in which you wish to specialize.
- Your future use of your graduate study, your career goals.

- Your special preparation and fitness for study in the field. Your academic background, extracurricular experiences/achievements, and awards.

- Any problems or inconsistencies in your academic records. Indicate the areas that are your weak points or those needed improvement.

- The reasons you wish to attend ESSAND.

- An official transcript of academic records is required from each university you have attended. You are responsible for requesting the transcript(s) from the relevant University. Transcripts must be enclosed in an official SEALED envelope with its flap bearing the security seal of the university and the signature of the Registrar or representative. Graduates from PSU can submit copies of their result slips or transcripts.

- Applicants whose native tongue AND medium of university instruction is not completely in English have to submit the Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS) as evidence of their proficiency in the English language. TOEFL/IELTS scores are valid for two (2) years from the test date. If it has been more than two years since you last took the test, you must take it again to have the scores reported.

- Recommendations from two academic referees are to be submitted to *essand-admission@phuket.psu.ac.th* You should check with your referees and obtain their institutional email address. Email addresses from domains other than ".edu" may be subject to additional screening and filtering. Alternatively, recommendations from your referees can be submitted via hardcopy. You should request your referees to return the recommendation form in a SEALED envelope, with its opening bearing their signatures across it.

- A copy of recent photograph of 1"x1" size

- A copy of citizen ID card/passport

- Please submit a copy of each of your publication(s), if any.

**Closing Date for Nominations:**

<b>Intake</b>	<b>Closing Date</b>
Semester 1 (August)	30 June
Semester 2 (January)	30 November

**Late or incomplete applications/document will not be considered.**