

Master of Resources and Environment (MRE)

1. Duration of Study: 3 years

2. Program Objectives

This program features the ecological and environmental protection of tropical islands and ocean based on Hainan Province and other coastal provinces and cities in China. It aims to train high-level engineering technology and engineering management professionals with spirits of innovation who are expected to work in the government environmental protection bodies and related enterprises and public institutions. It is ideal for the students who want to pursue careers in basic research of environmental engineering, environmental engineering and technology research, application of environmental engineering research, environmental research and education, environmental management, etc.

3. Research Fields and Training Modes

- 1) **Research Fields:** i) Environmental monitoring and assessment; ii) Pollution control and remediation; iii) Ecological evolution and restoration; iv) Environmental geology and geotechnical engineering; v) Resources exploitation and utilization.
- 2) **Training Modes:** Courses, internship and thesis

4. Course Modules

- 1) **Common Courses:** Advanced Chinese 1 & 2 (HSK5 certification), China Basics, Dialectics of Nature, Engineering Ethics
- 2) **Foundation Courses:** Mathematical Modeling, Modern Instrumental Analysis Technology, Environmental Oceanography, Scientific Literature Retrieval and Academic Writing, Environmental Norms and Standards, Environmental Biotechnology, Environmental Science and Engineering Frontiers, etc.
- 3) **Optional Courses:** Marine Environment Assessment and Management, Coastal Engineering Environment, Green Technology and Its Applications, Seawater Analytical Chemistry, Environmental Ecology, Photo Catalytic Oxidation Technology, Environmental Resources and Management, Environmental Biology and Toxicology, Environmental Safety and Risk Analysis, Mathematical and Physical Methods, etc.

5. Program Arrangement

The first year is for course attendance. The second year is for internship and thesis writing. The third year is for thesis writing.

6. Internship

Duration of the internship should be no less than 6 months for the students with more than 2 years of work experience and no less than 12 months for the students with less than 2 years of work experience.

7. Paper Publication

It is required to publish one academic paper as pre-conditions for graduation. Students will be rewarded for the publication of academic papers.

8. Thesis Requirements

Students should complete their thesis independently under the guidance of their supervisor. The thesis should be no less than 20,000 Chinese characters. The thesis can be in the forms of product research and development, engineering planning, engineering design, application research, engineering/project management, research report, etc. The research work of thesis should be related to the internships and lasts for no less than 1 year.