

Specific details of M.Sc. program in Environmental Science

1. Philosophy, importance and objectives of the program

1.1 Philisophy

Develop human resource in environmental science in Master degree level based on research and create modern knowledge in accordance and response to social needed for environmental quality improvement in all level.

1.2 Importance

The changes in environmental and life qualities showed the decline trend and spread out continuously. Therefore, the human resource development in environment who is knowledgeable and experienced in create innovation on environmental science and technology at Master degree is an urgent needed for all of the counter party. Thai and global community start to face the environmental crisis which is the main reason for develop and improve the environmental science program in all level to strengthen the human skill in environmental science to be the part of the quality and well-aware community in environmental and life quality.

1.3 Objectives

1.3.1 Develop human resource at Master level in Environmental Science who capable in working with environmental science job

1.3.2 Enhanced the integrated environmental science research to be the compete with the civilized countries

1.3.3 Provide academic services both in economic and social needed for nation environment sustainable

1.4 Curriculum

Plan A type A 2

1.4.1 Total number of credits not less than 36 credits

1.4.2 The curriculum consists of the

| | | | |
|--------------------------|--------------|----|---------|
| A. Major courses | a minimum of | 24 | Credits |
| - Seminar | | 2 | Credits |
| - Major required courses | | 12 | Credits |

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|--------------------------|--------------|----|---------|
| - Major elective courses | a minimum of | 10 | Credits |
| B. Thesis | a minimum of | 12 | Credits |

1.4.3 Courses

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|---|--------------|----|----------|
| A. Major courses | a minimum of | 24 | Credits |
| - Seminar | | 2 | Credits |
| 01662597 Seminar | | | 1,1 |
| - Major required courses | 12 | | Credits |
| 01662511** Applied Environmental Sciences | | | 3(3-0-6) |
| 01662512** Environmental Impact Analysis | | | 3(2-3-6) |
| 01662531 Integrated Environmental Management | | | 3(3-0-6) |
| 01662591 Applied Research Technique in Environment | | | 3(2-3-6) |
| - Major required courses | a minimum of | 10 | Credits |
| Student can should the courses as following | a minimum of | 10 | Credits |
| 01662513 Micrometeorology for Environment | | | 3(2-3-6) |
| 01662514** Atmospheric Science | | | 3(2-3-6) |
| 01662515 Global Change Science | | | 3(3-0-6) |
| 01662516 Environmental Hydrology | | | 3(2-3-6) |
| 01662517 Waste and Pollutant Science | | | 3(2-3-6) |
| 01662518 Environmental Systems Management Techniques | | | 3(2-3-6) |
| 01662519 System Science | | | 3(2-3-6) |
| 01662521 Systematic Environmental Technology | | | 3(2-3-6) |
| 01662522** Eco – Engineering Techniques | | | 3(2-3-6) |
| 01662524** Natural Treatment Technology | | | 3(2-3-6) |
| 01662525** Environmental Toxicology and Control | | | 3(3-0-6) |
| 01662526 Environmental Toxicology and Control Laboratory | | | 1(0-3-2) |
| 01662527** Instrumental Analysis of Environmental Pollutants | | | 3(2-3-6) |
| 01662528** Industrial Pollutants and Environmental Management | | | 3(3-0-6) |
| 01662529 Atmospheric Chemistry | | | 3(3-0-6) |
| 01662532 Ecodevelopment and Processing Control | | | 3(3-0-6) |
| 01662533** Natural Resources Systems Management | | | 3(3-0-6) |
| 01662534 Environmental Administration | | | 3(3-0-6) |

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|-----------|---|--------------|
| 01662535 | Integrated Management of Watershed Systems | 3(2-3-6) |
| 01662536 | Geological Information System for Environment | 3(2-3-6) |
| 01662537* | Environment for Livelihood | 3(3-0-6) |
| 01662538 | Analytical Economics and the Environment | 3(3-0-6) |
| 01662541 | Man and Ecology | 3(3-0-6) |
| 01662542 | Human Settlement and Environmental Control | 3(3-0-6) |
| 01662543 | Science for Community Planning | 3(3-0-6) |
| 01662544 | Environmental Education and Management | 3(2-3-6) |
| 01662546 | Science for Environmental Education | 3(2-3-6) |
| 01662548 | Visual Pollution | 3(3-0-6) |
| 01662596 | Selected Topics in Environmental Science | 1-3 |
| 01662598 | Special Problems | 1-3 |
| | B. Thesis | a minimum of |
| | | 12 |
| Credits | | |
| 01662599 | Thesis | 1-12 |