



Degree Level Bachelor's Grad.Dip. Master's Higher Grad.Dip. Doctoral Faculty of Environment and Resource Studies

TQF2 Bachelor of Science Program in Natural Resources and Environmental Management (International Program)

New Program of Academic Year 2020

Mahidol University Degree Profile

(MU Degree Profile)

Bachelor of Science Program in Natural Resources and Environmental Management

(International Program)

Faculty of Environment and Resource Studies

Bachelor's Degree Program	
1. Name of the program (Thai) หลักสูตรวิทยาศาสตรบัณฑิต สาขาวิชาการจัดการทรัพยากรธรรมชาติและสิ่งแวดล้อม (หลักสูตรนานาชาติ) (English) Bachelor of Science Program in Natural Resources and Environmental Management (International Program)	
2. Degree Name (Thai) วิทยาศาสตรบัณฑิต (การจัดการทรัพยากรธรรมชาติและสิ่งแวดล้อม) (English) Bachelor of Science (Natural Resources and Environmental Management)	
General information of the program	
Type of the program	Bachelor's degree in academic program
Required number of credits	Not less than 137 Credits
Studying duration / program round	4 Years
The program's status and opening schedule	New Program of Academic Year 2020 First Semester of Academic Year 2020
Degree granting	One degree of one major from Mahidol University
Degree-granting Institutions (MOU with other	Mahidol University



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institutions)	
Organizations certifying the standard	-
Specific information of the program	
Purpose / Goals / Objectives	<p><u>Goals</u></p> <p>The program aims to produce graduates in management of natural resources and the environment who meet the requirement and specifications of the Thai Qualifications Register (TQR), and Notification Ministry of Education on Bachelor of Degree in Environmental Science and Technology 2016 in the field of Natural Resources and Environmental Management. The graduates will be equipped with MU Graduates Core Competencies and able to work and study in other graduate levels.</p> <p><u>Objectives</u></p> <p>The program aims to produce graduates in management of natural resources and the environment who possess the following characteristics:</p> <ol style="list-style-type: none"> 1) Have knowledge and ability to communicate in English to solve natural resources and the environment including skills in working with multidisciplinary teams and local communities 2) Able to think and analyze by researching information from a variety of sources to track changes in the global environment, in order to be used in the survey of natural resources management and the environment reasonably and appropriately for that situation 3) Have specific knowledge in natural resources management and able to continue to study at the graduate level related to natural resources and environmental management or other relevant fields at the international level 4) Have morality, ethics and professional ethics in natural resources and environmental management, can live with diverse communities which have different ways of thinking and attitude 5) Able to use information technology to create innovations for natural resources and environmental management to meet professional ethics and international



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	standards
Distinctive Features	<p><u>Specific characteristics</u></p> <p>The first international program of the nation to produce graduate students that are able to integrate the knowledge in natural resources and environmental management as a multidisciplinary in both theory and field practices with other organizations in the Ministry of Natural Resources and Environment, Government, private and Non Government Organizations in Thailand and abroad e.g. Wildlife Conservation Society (WCS), World Wide Fund for Nature (WWF), Zoological Society of London (ZSL) to achieve the national and international sustainable development goals.</p>
Educational system	Semester system
Graduates' advancement	
Obtainable jobs	<ul style="list-style-type: none"> - Natural resources and environmental management technical officers - Natural resources and environmental management scientists - Natural resources and environmental management experts - Thailand and international government and private executives
Further fields of study	Graduated program in the field of Natural Resources and Environmental Management e.g. agriculture, fisheries, forestry and wildlife resources, science and technology and environmental engineer in both Thai and abroad.
Philosophy in program administration	
Educational philosophy	The program believes that the learning process should focus on an interdisciplinary approach: student-centered concept through self-practice learning, and field training base on learning-centered education and outcome-based education of Mahidol University. The process will enable graduates to develop themselves and achieve a variety of knowledge through continuous learning, produce graduates who are knowledgeable in their occupation together with morality and ethics, have a sense of professionalism, and take into account the common benefits.
Strategy / teaching guidelines	Teaching management aims: student achievement, infrastructure support for the development of students via activities e.g. education information system, field training from the fundamental to interdisciplinary to manage complex problems in



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	natural resources and the environment. Ability to apply field practice to achieve the objectives of the program and MU Graduates Core Competencies.
Strategy / student's evaluation guidelines	Authentic Assessment under the program goals and professional competencies as Formative Assessment to assess the student improvement and Summative Assessment to assess the result of learning by use of suitable measurement and assessment that is relevant to the program e.g. written examination, practical test, presentation and project-based learning in natural resources and environmental management and laboratory and field in both individual and group examination and behavioral assessment in laboratory and field by other cooperations.
Competencies provided to the students	
Generic Competencies	<ol style="list-style-type: none"> 1) Have moral and ethics in their career and personal and social responsibility to follow the law and regulation of the society. 2) Critical thinking with principles and reason. 3) Demonstrate proficiency in the listening, speaking, reading and writing using English or other languages to specific communities with the objective of communicating to achieve the objectives of natural resources and environmental managements. 4) Use appropriate information technology to achieve the literature review and analysis of data in different sources. 5) Work with other persons to complete tasks and respect personal differences to achieve the objective of the group responsibly. 6) Apply research methodology in research projects under suitable research and academic ethics.
Subject-specific Competencies	<ol style="list-style-type: none"> 1) Demonstrate an understanding of fundamental and detailed knowledge in natural resources and environmental management. Understand key ideas and processes in natural resources and environmental management under the ethics and undergraduate standard in the field of natural resources and environmental management. 2) Use fundamental knowledge in science, natural resource management, social science, and economics to control, protect, solve and restore natural resources and the environment.



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	<p>3) Able to do field practice in natural resources and environmental management in Thailand and other countries under the permission of the program committee.</p> <p>4) Apply information technology in natural resources and environmental management to make a decision to control, protect, solve and restore natural resources and the environment.</p>
<p>Graduates' learning outcomes : At the end of the program, successful students will be able to:</p>	
PLO 1	Explore and measure natural resources and the environment according to international standards in natural resources and environmental management related to the management of mineral resources, soil, water, forest, wildlife, fisheries and agriculture in nature, agricultural areas, enterprises and communities
PLO 2	Design environmental management correctly according to the principles, standards and professional ethics for effectiveness in preventing, controlling and solving environmental pollution
PLO 3	Manage and practice on projects for public use, protection, control, correction and restoration of natural resources and environmental quality according to the academic principles and ethics of the professional field
PLO 4	Communicate information or knowledge related to natural resources and environmental management to achieve the objectives by employing tools and information technology and English to communicate appropriately
PLO 5	Work with others effectively to achieve the main goal of natural resources and environmental management, including be leadership in the tasks forecasting, planning, solving problems, monitoring, evaluating and improving based on participatory process of stakeholders
PLO 6	Self-assessment and prepare to provide knowledge and ability to catch up with academic progress in natural resources and environmental management