Course Title

Master of Science in Sustainable Land Use and Natural Resource Management

Master Degree: Master of Science

Academic Institution: The Graduate School, Kasetsart University

Duration: 2 years

Objective:

The overall aim of the Master of Science Programme in Sustainable Land Use and Natural Resource Management are to produce graduates at master’s level with the knowledge of integrated land use and natural resource management with respect to theory, analysis and applications. The Master of Science programme also aims to produce graduates capable of developing appropriate plans for sustainable land use and natural resource management with public and stakeholder participation and interdisciplinary perspectives.

Course Synopsis and Methodology

Required courses:

01556511 Concept and Policy of Sustainable Land Use and Natural Resource Management
Concept and principles concerning sustainable land use and natural resource management; national and international policies, conventions and agreements. Guidelines for policies and concept analysis and recommendation report.

01556512 Land Use and Natural Resource Management at Community Level
Application of concepts, principles and knowledge concerning land use and natural resource management at household and community levels. System analysis of local problems using interdisciplinary approach. Causal relationship among local livelihoods, economics, society, natural resources and environment for guidelines development in sustainable natural resource use. Field trip required.

01556513 Land and Natural Resource Management at National and Regional Levels
Problem analysis of land use and natural resource management at national and regional levels. Management tools and impact assessment for land use development project.

01556571 Investigation and Evaluation Techniques for Land Use and Natural Resource Management
Logical framework analysis for sustainable land use and natural resource management. Surveying techniques in studying land use and socio-economic conditions at community level.
Social Dimension in Land Use and Natural Resource Management

Social principles and concepts in land use and natural resource management. Political and governmental dimensions. Government laws and policies. Local government authorities, Local leaders and local wisdom. Role of international organizations in natural resource management. Filed trip required.

Economic Dimension in Land Use and Natural Resource Management


Geo – Information Science for Sustainable Land Use and Natural Resource Management

Geo – information science concepts related to land use and natural resource management, spatial and non – spatial database system, global positioning system, remote sensing, spatial analysis, application of geo – information science for sustainable land use and natural resource management.

Course Content/Study Topic:

Study/Research topics are in the fields of forestry, sciences, agriculture, economics, social sciences and environmental sciences with interdisciplinary approaches.

Qualification:

Bachelor of Science in any fields (e.g. sciences, forestry, economics, social sciences, agriculture, engineering, information technology, environmental sciences)

Document required:-

1. Application form (can downloaded at www.interprogram.ku.ac.th)
2. An official transcript
3. Proof of English proficiency (IELTS overall score 5.0 or equivalents TOEFL)
4. Recommendation letter
5. Curriculum Vitae
6. A scan of passport

Closing date for Nominations: February, 2018

Late or incomplete applications/document will not be considered.

01556591 Research Methods in Sustainable Land Use and Natural Resource Management

Principles and research methods in sustainable land use and natural resource management. Problem analysis for research topic identification; data collection for research planning, identification of samples and techniques. Analysis, interpretation and discussion of research results; report writing for presentation and publication.

01556592 Interdisciplinary Field Study

Interdisciplinary field practicum, Study area and problem formulation. Research design, field observation and application of field techniques. Data collection and participatory approach to data analysis. Group discussion. Preparation and presentation of the final report.

Elective courses:

01556514 Conflicts and Problems in Land Use

Conflicts and problems in land use and natural resource management at the subwatershed level. Analytical concept and methods to alleviate problems and conflicts in socio-economic, politics, land use and natural resource utilization, agricultural production and marketing systems. Economic application, participatory management and development of sustainable land use and natural resources. Field trip required.

01556551 Techniques in Land Use Planning for Sustainable Development

Land use planning process, applying the Potential Surface Analysis, techniques in assessing land use change, and land use planning for sustainable development.

01556552 Agroforestry Technology

Theories and principles of agro-ecosystems, trends and status of land use problems, agriculture comprise of woody perennial combination with crops, livestock and fisheries, agroforestry components and arrangements, process of program development and evaluation and agroforestry for land use and natural resource management. Case Study

01556553 Agroecosystem and Management

Course Title

Master of Science in Sustainable Land Use and Natural Resource Management

Master Degree: Master of Science

Academic Institution: The Graduate School, Kasetsart University

Duration: 2 years

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Course Synopsis and Methodology

Required courses:

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Concept and principles concerning sustainable land use and natural resource management; national and international policies, conventions and agreements. Guidelines for policies and concept analysis and recommendation report.

01556512 Land Use and Natural Resource Management at Community Level

Application of concepts, principles and knowledge concerning land use and natural resource management at household and community levels. System analysis of local problems using interdisciplinary approach. Causal relationship among local livelihoods, economics, society, natural resources and environment for guidelines development in sustainable natural resource use. Field trip required.

01556513 Land and Natural Resource Management at National and Regional Levels

Problem analysis of land use and natural resource management at national and regional levels. Management tools and impact assessment for land use development project.

01556571 Investigation and Evaluation Techniques for land Use and Natural Resource Management

Logical framework analysis for sustainable land use and natural resource management. Surveying techniques in studying land use and socio-economic conditions at community level.
01556561 Social Dimension in Land Use and Natural Resource Management

Social principles and concepts in land use and natural resource management. Political and governmental dimensions. Government laws and policies. Local government authorities. Local leaders and local wisdom. Role of international organizations in natural resource management. Filed trip required.

01556562 Economic Dimension in Land Use and Natural Resource Management


01556572 Geo – Information Science for Sustainable Land Use and Natural Resource Management

Geo – information science concepts related to land use and natural resource management, spatial and non – spatial database system, global positioning system, remote sensing, spatial analysis, application of geo – information science for sustainable land use and natural resource management.

Course Content/Study Topic:

Study/Research topics are in the fields of forestry, sciences, agriculture, economics, social sciences and environmental sciences with interdisciplinary approaches.

Qualification:

Bachelor of Science in any fields (e.g. sciences, forestry, economics, social sciences, agriculture, engineering, information technology, environmental sciences)

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01556553 Agroecosystem and Management