Course Title

Master of Arts in Environment, Development and Sustainability (EDS)
(Interdisciplinary/International Program)

Master Degree: Master of Arts in Environment, Development and Sustainability (EDS)
(Interdisciplinary/International Program)

Academic Institution: Graduate School, Chulalongkorn University, Bangkok

Duration: 2 years

Objective: The EDS Program at Chulalongkorn University is unique among degrees from post–graduate institutions in Asia and the Pacific in that it provides an integrated approach to topics like sustainable development and the environment. Instead of focusing only on environment and development studies,, the EDS studies also cover areas such as business and trade strategies for environmental management, energy planning, poverty eradication, natural resource management, green building and urban development in addition to core climate and ecosystem topics like climate change, soil degradation, biological diversity and pollution.

Looking at the global, regional, and local scales of development, lecturers from universities and institutions from around the world share their experiences from working with groups as large as the United Nations and as small as community – driven initiatives. The EDS Program’s objective is to broaden the horizons of students to integrate their studies across various sub – disciplines in both the natural and social sciences so that their results lead to sound public policy and good governance.

Course Synopsis and Methodology:

2016546 Social Impact and Conflict in Development (SOC IMP CONF DEV)

Development issues in terms of social phenomena, dynamic development and process of social cultural, economic and environmental changes; development patterns effecting people's way of life; social impacts on development projects at individual, community, national and regional levels; alternative development approaches and the process of people's participation; development strategies towards approaches of sustainable development; field practices in order to understand all circumstances and conditions of social impacts from various development projects and strategies to reduce their social impacts.
Factors influencing the location, role, and expansion directions of urban settlements at different levels of community, from small villages to metropolises; urban spatial relations, problems and prospects of urban growth trend; prevention and solutions to problems through urban planning.

The linkage of energy, environment and climate change; concepts and philosophy of zero waste for sustainable development; maximizing recycling and minimizing waste; value management and sustainable consumption for greenhouse gases mitigation, international cooperation and market mechanisms to reduce greenhouse gases.

Introduction to renewable energy resources: biomass fuels, bio-fuels, solar energy, wind energy, hydro energy, geothermal energy and hydrogen energy; technology of converting and utilizing these forms of energy.

Energy situation, demand, supply, transformation, and reserve; energy economy and index; principles of energy policy and planning; energy planning modeling to forecast energy demand and supply; implementation of energy policy and planning.

Climate change science, impacts adaptation, mitigation and responses to climate change, climate modeling, climate change impacts, adaptation, mitigation and responses at local, regional and global levels.

Importance of biodiversity monitoring for developing responses to climate change; evidence base of biodiversity management in a changing climate; positive and negative impacts of a changing climate on species and population of plants and animals; behavioral adaptation in changing animal population dynamics; practical methodologies for monitoring and evaluating impacts on and responses of biodiversity; ecosystem scale management implications for biodiversity.

Formulating adaptation strategies to manage risk from climate impact; adaptation to short-term climate variability and extreme climate events as foundation for reducing vulnerability to
long-term climate change; adaptation policy to climate change and measures in a sustainable development context; adaptation and strategies at different levels and sectors in society to better manage future risk exploit possible opportunity from climate change impact; role of multi-stakeholders and process in adaptation policy development; prioritizing and selecting adaptation options.

2023510 Vulnerability Study for Sustainable Development Planning (VUL SCI SD PLAN)

Potential changes in future environmental condition and their implications on major systems and sectors; future risk and coping capacity to threat from impact of environmental change; defining vulnerability of systems and/or sectors under context of environmental change; components of vulnerability, sensitivity, exposure and coping capacity to environmental risk; using proxy indicators to identify and measure vulnerability of systems and/or sectors; assessing vulnerability to future environmental change; vulnerability indexing; multi-level and multiple agents to social vulnerability to environmental change.

2023511 Climate and Human Settlement (CLIMATE HUM SETT)

Relationship between climate and human settlements, both in rural and urban areas; effects of climate on settlement distribution, people way of life, their belief, culture and life style; impact of urbanization on climate due to changes in settlement patterns from rural to urban areas and from small towns to metropolis; case studies from different regions on impacts and human attempt to solve and prevent problems of such unbalanced interactions.

2023512 Urban Climate (URBAN CLIMATE)

Climate conditions in an urban area; solar radiation, the surface temperature, wind conditions, evaporation rates, storage of heat and the turbulence; effect of human activities on urban climates and on air quality or air pollution in the atmosphere above cities; causes and effects of urban heat islands.

2023513 Strategic Environmental Assessment (STG ENV ASSES)

A systematic process for evaluating and anticipating the consequences of decisions taken prior to the project stage to ensure that environmental considerations and alternatives are addressed as early as possible and on a part with economic and social factors in policy, plan or program development; strategic environmental assessment methods and approaches for conducting environmental assessment of programs on regional/area and sector development programs; strategic environmental assessment of policies, plans and programs used as a tool in national environmental analysis.
2023601* Research Methodology in Environment, Development and Sustainability (RES METH EDS)

System theory applied to linkage between environment and development; practical methodologies for linking at micro and macro scales; theories and interpretations of concept of sustainability; measurements based on the concepts critiques of concepts and measurement methodologies.

2023602* Understanding Environment, Development and Sustainability (UNDERST EDS)

Concepts of global change under the context of development and globalization and impact on local environment; impacts on bio-physical and socio-economic conditions of various systems and sectors in society; approaches and theory to address their causes in international comparative perspective; concepts and methods of sustainable development; patterns of political, social and economic development under environmental conflicts and influence of globalization; exploring the adaptation options to cope with future changes for household, community, country and region; understanding of process in streamlining adaptation strategies into long-term development plans to achieve sustainability on environment and society.

2023603* Sustainable Resource Management (SUS RES MGT)

A broad synthesis of three main pillars in the management of natural resources: economics, ecology, demography and society, with emphasis on resource planning and management taking into account ecological functions and restrictions demographical structure, and sustainable development.

2023604* Advanced Issues in Environment, Development and Sustainability (ADV ISS EDS)

In-depth study of a specific topic or problem concerning global change and impact on environment and society, development and sustainability; presentation of integrated study results.

2023605  Development: History, Theory, Policy and Practice (DEV HIST THEO)

Overview of the key debates in development theory and approach. Major social science theories and their contribution to development paradigms are covered, including liberalism, Marxism, modernism, postmodernism, sustainable development, alternative development, and post-develop - mentalism. Review of numerous case studies in Thailand, Southeast Asia and globally, which reflects connections between development theory and practice. To understanding and analyzing contemporary debates about development and the environment, including the link between modernity and development, globalization, participation, empowerment, gender, identity, good governance, and the role of the development practitioners.
2023701  Seminar in Environment, Development and Sustainability (SEM EDS)

Theories and concepts of global changes, environment and balance in natural and human ecosystem; discourses on sustainable development; case studies on resource use and impact on environment and society including current preventive measures and solutions.

2023811  THESIS

2023816  THESIS

2440501  Society, Politics and Social Changes (SOC POL/SOC CHG)

Foundation critique of modern society, development and social, economic and political changes, social and political process of changes, analysis of state-society relations, inter-relationship of structure and agents in society and politics, implications of democracy on development, the roles of social and development organizations in social movements at local, national and transnational levels.

2440607  Development Project Management (DEV PROJ MGT)

Process of development from theory to practice; development project management as experiment and learning; principles and techniques of project management, budgeting, finance, and planning; problem determination and objectives of development projects including feasibility study, assessment of social, environmental and health impacts, and development project evaluation.

2440608  Environmental Politics and Policy (ENVI POL/POL)

Environmental policy as a complex and constantly evolving area of public policy; major concepts used to define contemporary environmental policy with the aim to understand developments in this field at the state, national, and international levels; application of these concepts to certain environmental issues with particular attention to the political dimension of environmental policy formulation and implementation; analytical skills needed to deal with a wide range of policy situations concerning the environment and natural resources.

(*Compulsory Course)

Course Content/Study Topic:

A coursework Minimum Requirement of 36 credits
- Compulsory Courses 12 credits
- Elective Courses 12 credits
- Thesis 12 credits
Qualification:

1) Hold a Bachelor’s degree in any discipline
2) Other particular qualifications will be based on an approval of the program committee
3) An English proficiency test of TOEFL or IELTS score is at least 500 or 5.0 respectively.

Document required:-

- One – page statement of intent in English (200 words), describing present activities, publications, research interests, academic achievements, and future plans
- A printed application form with a 1 – inch photograph attached
- An official transcript of academic records
- A photocopy of identification card/ passport
- A score of English proficiency test IELTS/TOEFL
- Two letters of recommendation

Closing date for Nominations:  
First Semester: 30 November 2016  
Second Semester: 1 March 2017

Late or incomplete applications/document will not be considered.