Master of Science in Environmental Biology

Academic Institution: Suranaree University of Technology

Duration: Two (2) academic years

Objectives:
To produce highly qualified international personnel at the Master's (M.Sc.) level who will be able to carry out research and management of the biological environment in accordance with their national natural resource and environmental plans.

Course Synopsis & Methodology:
The programs offered Master of Philosophy degree in Environmental Biology. Students are required to take compulsory courses and other suggested courses to prepare them well with strong knowledge needed for their research. After all the courses have been fulfilled, the students then carry out research of their interest. For this exciting part of the study, the students will be guided by our academic staff members who are active in their field of research. Current research conducted by our staff covers the areas of ecology, biodiversity and conservation, environmental physiology, ecogenetics, cell and molecular biology and environmental toxicology.
All SUT graduate study programs follow the trimester system, in which each trimester consists of 13 weeks. The first trimester starts in August, the second in November, and the third in April.

Course Content/Study Topic:

Core Courses:	14 credits		
104 600 Advanced Environmental Biology		4	
104 601 Environmental Impact Assessment		4	
104 602 Research Methods and Statistics in Environmental Biology		4	
104 603 Cell Biology			3
104 604 Environmental Planning and Management	3		
Major Course:		12 credits	
Ecology			
104 610 Advanced Ecology		4	
104 611 Freshwater Ecology			4
104 612 Terrestrial Ecology		4	
104 613 Coastal Zone and Mangrove Ecology		4	
104 711 Human Ecology		4	
104 712 Environmental Microbiology		4	
104 713 Wetland Ecology		4	
104 811 Population and Community Ecology		4	
104 812 Urban Ecology			4
104 813 Quantitative Ecology			4
104 814 Tropical Plant Ecology		4	
Biodiversity and Conservation			
104 620 Biodiversity and Conservation		4	
104 621 Biogeography			4
104 622 Biodiversity of Plants			4
104 721 Advanced Systematics		4	
104 722 Species and Speciation		3	
104 723 Co-evolution			4
104 724 Plant Geography		4	
104 725 Zoogeography			4
Environmental Physiology			
104 630 Environmental Physiology		4	

104 731 Environmental Plant Physiology	4	
104 732 Environmental Animal Physiology	4	
104 831 Plant Responses to Environmental Stress	4	
104 832 Tropical Plant Ecophysiology	4	
Ecogenetics		
104 641 Ecogenetics	4	
104 642 Population Genetics		4
104 643 Environmental Molecular Genetics	4	
104 740 Radiation Genetics	4	
Cell and Molecular Biology		
104 650 Cell Biology		4
104 651 HIV Infection and AIDS	3	
104 751 Environmental Cell Biology		4
104 850 Molecular Biology	4	
104 851 Molecular Environmental Biology	5	
104 852 Principles in Molecular Biology Techniques	3	
Environmental Toxicology		
104 660 Environmental Toxicology	4	
104 661 Industrial Toxicology		3
104 662 Food Toxicology	4	
104 761 Pesticide Toxicology		4
104 762 Immunotoxicology	4	
104 861 Genetic Toxicology	4	
104 862 Chemical Risk Assessment	3	
Elective Courses:	4 credits	
104 681 Environmental Audit and Economics	3	
104 682 Environmental Policies and Laws	3	
104 781 Environmental Education and Campaigns	3	
104 782 Environmental Remote Sensing and GIS	4	
104 783 Environmental Monitoring and Risk Assessment	3	
104 881 Biological Methods for Waste Recovery and Recycling	4	
104 882 Environmental Bioengineering	4	
104 795 Special Problems in Environmental Biology	4	
104 796 Special Topics in Environmental Biology I	4	
104 797 Special Topics in Environmental Biology II	4	
Seminar:	3 credits	
104 791 Seminar in Environmental Biology I	1	
104 792 Seminar in Environmental Biology II	1	
104 793 Seminar in Environmental Biology III	1	
Thesis:	16 credits	
104 798 M.Sc. Thesis (Plan A2)	16	
	Total 48 credits	

Qualifications:

The applicants must be holders of a bachelor degree or equivalent of science, technology and engineering, or related to environmental science and environmental biology and have GPA of at least 2.50.

Document Required:

- Three (3) copies of the TICA application form, affixed with photographs
- Letter of recommendations (2 papers).
- Photocopy of Transcript.

- Concept paper (1-2 pages) to show the applicant interest on specific environmental issue for future thesis development.
- Certificate of English test; TOEFL, IELT
- Photo of passport

Number of Participant: 3

Eligible Countries:
Afghanistan, Bangladesh, Cape Verde, Comoros, Eritrea, Fiji, Ghana, Indonesia, Iran, Jordan, Lesotho, Malaysia, Maldives, Mauritania, Nepal, Nigeria, Pakistan, Papua New Guinea, Philippines, Republic of Seychelles, Rwanda, Senegal, Solomon Island, South Sudan, Sudan, Sri Lanka, Timor-Leste, Togo and Vanuatu.

Closing Date for Nominations:
March 2016

Contact:
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