Pathein University

DEPARTMENT OF MARINE SCIENCE

INTRODUCTION

The basic goals of the Department of Marine Science are to carry out basic and applied education and research activities related to studies and science and technologies concerning oceans, to contribute to the sustainable development of coastal society. The degree courses highlight the multi-disciplinary nature of marine science and at the same time, allow students flexibility and choice in their degree structure. It enables students to study aspects of more than one traditional scientific discipline within a specialized marine science context. The courses provide marine science graduates with a broader range of skills and knowledge. Fieldwork is an important part of the course and there will be opportunities to experience oceanographic research.

COURSES WE OFFER

In Marine Science, the course is designed to allow students to maintain a broad scientific base and each module is comprised of core, specialized, and elective courses, contributing to an overall assessment. In undergraduate courses were recognized

as eighteen Instructional Courses: 1) Marine Ecosystems, 2) General Oceanography, 3) Biometrics, 4) Navigation and Boat Works, 5) Marine Invertebrates and Vertebrates, 6) Marine Plankton, 7) Marine Plants (Seagrasses, Mangroves, Seaweeds), 8) Cell biology and Genetics, 9) Physiology of Marine Organisms, 10) Marine Benthos, 11) Marine Resources Management, 12) Mariculture, 13) Marine Pollution, 14) Marine Products and Post-Harvest Technology, 15) Systematics and Ecology of Coral Reefs, 16) Fishery Science, 17) Large Marine Ecosystems, 17) Impacts of Climate Change on Marine Ecosystems, 18) Estuarine Ecosystems. The master's degree program consists of eight distinct courses of study: 1) Quantitative Ecology, 2) Oceanography of the Marginal Seas, 3) Biology of Large Marine Mammals, 4) Advanced Phycology, 5) Evolutionary Biology and Marine Biogeography, 6) Marine Microbiology, 7) Marine Bioactive Substances, 8) Conservation of Marine Biodiversity. These courses are at the advanced level and have a focus on critical thinking, experimental design, and communication of results. The course will provide the student with the knowledge and skills required for both a career in and outside academia.

MAIN RESEARCH FOCUS

- Oceanography
- Mariculture
- Post Harvest Technology

- Marine Ecology (mangrove ecology, seagrass ecology, coral reef ecology, benthic ecology, estuarine ecology)
- Phycology
- Fishery Science
- Planktonology
- Marine Bioactive Substances
- Research Methodology
- Conservation Marine Biodiversity

FIELD-WORK

Compulsory field trips for a minimum of 18 hours of practical training in the respective field of study will be conducted at the end of each semester. A field report must be submitted. This report will be evaluated during the semester and contribute to the credit point of each semester.

INTERNATIONAL COLLABORATIONS

World View International Foundation of Myanmar (WIF)

Fauna and Flora International of Myanmar (FFI)

Marine Science Association Myanmar (MSAM)

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CONTACT

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