AIT
Asian Institute of Technology

School of Environment, Resources and Development
Aquaculture and Aquatic Resource Management

The Asian Institute of Technology (AIT) is an international postgraduate institution based in Thailand. It promotes technological change and sustainable development in the Asian-Pacific region through higher education, research and outreach. Established in 1959, AIT has become a leading regional institution and is actively working with public and private sector partners throughout the region and with some of the top universities in the world.

School of Environment, Resources and Development (SERD)
A key strength of AIT is its ability to respond to regional needs by mobilizing and enhancing capabilities for social, economic and environmental development through SERD. The School emphasizes on thematic areas including Bio-resources, Energy and Environment, Development Studies, and interdisciplinary areas that integrate technology and natural and social science knowledge in its academic, research and training activities.

Aquaculture and Aquatic Resource Management (AARM)

AARM, one of the fields of study under SERD, is committed to improving regional institutional capacity in aquaculture and aquatic resources management and related fields through innovative approaches that integrate education, research and outreach.

Asia contributes over 90% of global aquaculture production and plays a key role in the development of appropriate culture systems and technologies. Aquaculture production accounts for almost half of world fish supply and increases by 10%. It is expected to surpass capture fisheries production in the next 10 years. Further development of aquaculture is also expected to help us move away from dependence on overexploited capture fisheries resources and to enhance and conserve aquatic habitats and biodiversity; but this expansion should not exceed the carrying capacity of water resources.

Wild aquatic resources are essential sources of nutrition for rural populations. Any degradation of these resources from over-fishing, use of illegal fishing gears, introduction of exotic fish, misuse of chemicals, agro-industrial waste discharge, deforestation, breeding ground degradation and dam construction that can lead to blocking of migratory pathways will have dramatic impacts on the nutritional and health status of rural people.

Population growth, poverty, resource use conflicts, illegal activities, pollution, biodiversity conservation, policy and institutional gaps and conflicts are the major issues and problems in coastal management. A management approach that integrates sectors (government agencies, non-government organizations, community, etc.), disciplines (science, engineering and management), land- and sea-based activities (agriculture, livestock, aquaculture, fisheries, tourism, etc.) is important to address the various issues and problems in the coastal area.

Coursework and Research
The curriculum offered by the AARM program includes courses in:

- Aquaculture and Aquatic Resource Systems
- Aquatic Seed Production
- Coastal and Inland Aquaculture
- Aquaculture Nutrition and Feed Technology
- Genetics and Biotechnology in Aquaculture
- Water Quality and Aquatic Animal Health Management
- Aquaculture Planning and Management
- Coastal and Inland Fisheries Management
- Aquatic Biodiversity and Conservation
- Aquaculture Business and Management: Issues and Tools
- Wetlands Ecosystem Management
- Marine and Coastal Ecosystems
- Principles of Integrated Coastal Management
- Tools for Integrated Coastal Management
- Workshop on Integrated Coastal Management
- Seminar on Recent Developments in Integrated Coastal Management
- Thesis Research Workshop
- Statistical Applications