



SDG 14

Life Below Water

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Supporting aquatic ecosystems through education

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Maintain and extend existing ecosystems

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Support or organise events aimed to promote conservation

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Collaborate with the local community in efforts

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LIFE BELOW WATER

Supporting Aquatic Ecosystems through Education

Offer Educational Programmes on Fresh-water Ecosystems for Local or National Communities

Providing knowledge to the community, the Faculty of Science and Technology organized a workshop titled "Prototype Smart Water Management System for Pak Phanang River Prawn Farming". The goal was to equip prawn farmers and local fishers with knowledge to improve the quality of prawn farming by replacing traditional methods. This initiative aims to increase the value of Pak Phanang River prawn production, ensure the prawns are safe from hazardous chemicals, prevent wastewater from prawn farming from being discharged into natural water sources, conserve water, and reduce the amount of raw water needed during the dry season.



Offer Educational Programmes or Outreach Activities for Local or National Communities on the Sustainable Management of Fisheries, Aquaculture, and Tourism

The Academic Service Project for the Development and Enhancement of Innovation in Coastal Aquaculture Management and the Sustainable Processing of Local Marine Fishery Resources in Tha Sala Sub-district, Nakhon Si Thammarat Province, is part of the Strategic

Plan for Strengthening Social Power for the 2024 Fiscal Year. This project is conducted in collaboration with the following local groups: the Ban Sa Bua Local Fishery Conservation Group, the Sam Phan Local Fishery Group of Tha Sala Bay, the Ban Sa Bua Blue Swimming Crab Bank Community Enterprise, and the Raan Kon Jub Pla (The Fish Catchers' Shop) Community Enterprise.



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Supporting Aquatic Ecosystems through Education

Nakhon Si Thammarat Rajabhat University collaborated with the Pak Nakhon Sub-district Administrative Organization (SAO), Ban Khlong Khut community leaders, and the Pak Nakhon Homestay Group to collectively develop community-based tourism during the opening ceremony of the Pak Nakhon Community Tourism Homestay. This initiative aligns with the government's community-based tourism strategy. The ceremony was held on July 29, 2024, at the Pak Nakhon Community Tourism Homestay in Ban Khlong Khut, Pak Nakhon Sub-district, Mueang District, Nakhon Si Thammarat Province. The development of the Pak Nakhon SAO, and the community—serves as a model for managing coastal resources and advancing the goals of community-based tourism.



It also empowers local leaders in Ban Khlong Khut and encourages community participation in managing tourism and water resources to help maintain the ecological balance of the Pak Nakhon Bay area.



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Supporting Aquatic Ecosystems through Education

The university is implementing the research project "Pak Phun Local Fisheries," focusing on knowledge management to enable the community to improve their quality of life alongside the conservation of local fishery resources within the Pak Phun Municipal area. The project promotes a sustainable community economy by linking the fisherfolk's way of life with eco-tourism, such as organizing the "Boat Trip, Eat Crab, See Fireflies" festival. This aims to generate supplementary income and add value to existing resources while simultaneously raising environmental conservation awareness among both community members and tourists.



The activity, "New Generation Youth Camp: OBEC Youth Camp," held on September 17, 2024, was an event aimed at raising sustainable environmental awareness among youth. It focused on practical action such as mangrove planting, which helps restore natural aquatic animal nurseries, and the construction of "crab houses" or "fish houses" (artificial habitats) to manage and enhance local fishery resources.

This activity also promoted the youth's understanding of the connection between resource conservation and the development of sustainable community tourism, which is a crucial mechanism for supporting and creating a circular economy within local communities.



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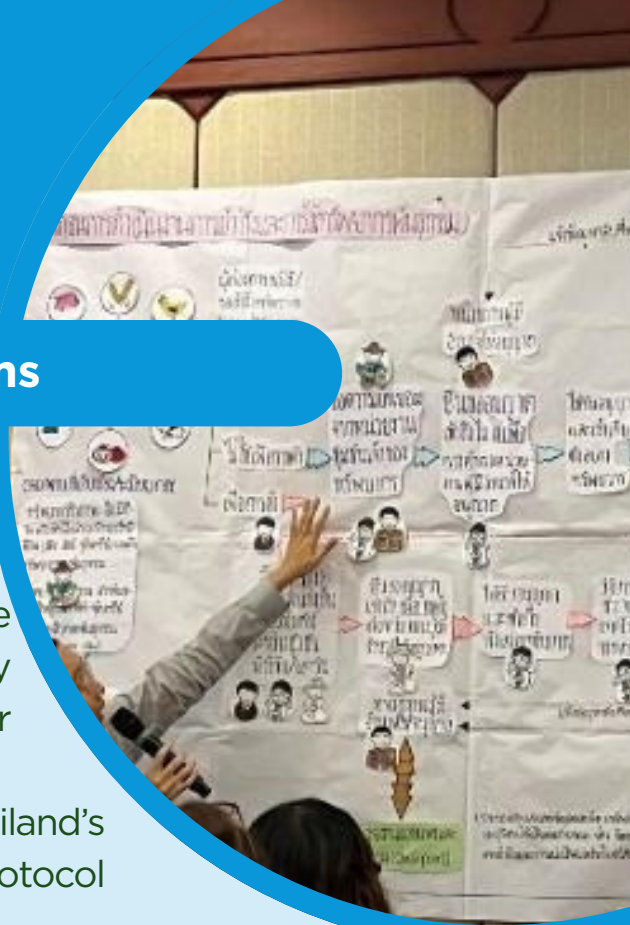
LIFE BELOW WATER

Maintain and extend existing ecosystems

Work directly to maintain and extend existing ecosystems and their biodiversity, of both plants and animals, especially ecosystems under threat

Participated in a regional workshop along with the Office of Natural Resources and Environmental Policy and Planning (ONEP) and the German Agency for International Cooperation (GIZ). The workshop was conducted under the project "Roadmap for Thailand's Ratification and Implementation of the Nagoya Protocol under the Convention on Biological Diversity."

The aim was to compile information related to the access and benefit-sharing (ABS) from Thailand's genetic resources, including an analysis of regional operations, in order to develop a capacity-building plan to promote the utilization of genetic resources. The workshop was held on August 23, 2024, at the Grand Park Hotel in Nakhon Si Thammarat Province.



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Maintain and extend existing ecosystems

Participated in the committee tasked with drafting the Conservation and Protection Plan for Wildlife Sanctuaries and Non-Hunting Areas under the Regional Protected Area Administration Office 5. The meeting took place on May 27-28, 2024.

Participated as a committee member in drafting the Conservation and Protection Plan for Wildlife Sanctuaries and Non-Hunting Areas under the Regional Protected Area Administration Office 5.



- 6.Laem Takhum Phuk Non-Hunting Area
- 7.Khao Pra – Bang Kram Wildlife Sanctuary
- 8.Khlong Phraya Wildlife Sanctuary
- 9.Thung Thale Non-Hunting Area
- 10.Mu Ko Libong Non-Hunting Area
- 11.Khlong Lam Chan Non-Hunting Area
- 12.Khao Nam Phrai Non-Hunting Area



The task involves collaboration among 12 units to create 12 separate plans for the following protected areas:

- 1.Katoon Wildlife Sanctuary
- 2.Namtok Song Phraek Wildlife Sanctuary
- 3.Bo Lo Non-Hunting Area
- 4.Nong Plak Phraya and Khao Raya Bang Sa Non-Hunting Area
- 5.Khao Phra Thaeo Non-Hunting Area



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LIFE BELOW WATER

Support or organise events aimed to promote conservation

Support or organise events aimed to promote conservation and sustainable utilisation of the oceans, seas, lakes, rivers and marine resources

The activity titled "Conservation of Mangrove Forest Resources and Coastal Marine Areas in Ban Sa Bua and Ban Na Thap, Tha Sala Sub-district, Tha Sala District, Nakhon Si Thammarat Province" supports the sustainable conservation and use of marine resources. Its primary objective is to restore the coastal ecosystem, as mangrove forests serve as vital nursery grounds for aquatic life. This initiative helps preserve the biodiversity and abundance of the local marine environment, enabling the community to utilize fishery resources sustainably.



Collaborate with the local community in efforts



The university co-signed a cooperation agreement to "promote community conservation areas into Locally Managed Marine Areas (LMMA)." This involves managing the conservation of marine and coastal

natural resources in the Marine and Coastal Resource Conservation Zones of Ban Nai Thung, Ban Sa Bua, and Ban Na Thap in Tha Sala Sub-district, Tha Sala District, Nakhon Si Thammarat Province. The goal is to ensure the balanced and sustainable utilization of natural resources based on the community economy and human rights, and in adherence to the principles of establishing a Locally Managed Marine Area (LMMA). These areas are significant to the ecosystem, society, and economy, serving as crucial zones that act as carbon absorption shields, protecting the world and living organisms from the global warming crisis.

This initiative supports government policy that encourages all sectors—public, private, civil society, and the general public—to cooperate in protecting and managing marine and coastal resources for long-term sustainability.



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Collaborate with the local community in efforts

The utilization and conservation of krill (Acetes shrimp) resources fall under the Krill Resource Database Project based on Local Wisdom for Kapi (Shrimp Paste) Production, aiming to create the Nakhon City Krill Paste identity in Nakhon Si Thammarat Province. The project emphasizes collaboration with the community in maintaining the shared aquatic ecosystem by using local wisdom as the foundation for krill resource management in 2024.



This cooperation encourages villagers to participate in establishing appropriate harvesting and utilization guidelines to control the quantity and maintain the life cycle of the krill. This effort creates a balance between kapi production, which builds a product identity, and the sustainable conservation of the coastal ecosystem of Nakhon Si Thammarat Province.

