

# WATER RESOURCES Engineering

## Background

Prior to becoming a full fledge Department of Water Resources Engineering in 1991, it was one of divisions within the Department of Civil Engineering which consisted of structural engineering, geotechnical engineering, transportation engineering, and hydraulic engineering. The hydraulic engineering division provided fundamental subject matters relating to hydraulics and hydrology, which included 5 subjects for the total of 12 credits, to the students in the bachelor's programs in civil engineering, environmental engineering, and survey engineering. The division also offered a graduate program leading to the Master of Engineering degree since 1971. In 1980, its name was changed to Water Resources Engineering, and it started offering the Doctor of Engineering program in 1984.

As most work related to water resources is to provide services in response to the national policy, the Department has been mainly collaborating and receiving support from the public sector. Such support is quite dependent on the country's situation and the society's need. Consequently, the work of the Department has been a mix between fundamental work and the work based on the national policy.

During the period of 1982 – 1992, the Division underwent many expansion and enhancement of its curriculum and internal operation until the Department of Water Resources Engineering was finally established. At the time, the effort was led by Prof. Dr. Niwat Daranandana, Prof. Tumrong Prempre, Prof. Jakri Jatutarsi and Assoc. Prof. Sathien Chalacheewa. The aim was to enhance the capability and efficiency in 3 key areas: academic, research, and social services

Currently, the Department of Water Resources Engineering offers Master's and Doctoral degrees in water resources engineering. Two specializations are available: hydrology and planning (including surface water, irrigation, and groundwater), and hydraulics and coastal. Prospective students must have Bachelor of Engineering (B.Eng) in civil engineering, water resources engineering, Environmental Engineering irrigation engineering, or other equivalent areas, or Bachelor of Science (B.Sc.) in civil engineering from a university certified by OCSC. The Department houses various laboratories such as fundamental hydraulic laboratory, hydraulic and coastal simulation laboratory, hydrology laboratory, and water resources management laboratory. It has also established both academic and research collaborations with many domestic and international institutes.

## Features

The strength of the Department lies in its research and academic services on water resources development in the areas of flood/drought, coastal erosion application of information technology, management of impact of climate change, etc.; its academic collaborations with both domestic and international institutes; and its capability to provide training for the academic communities both in Thailand and in neighboring countries.

The Department's goals are to provide the best education for the undergraduate students who are interested in the areas of water resources development, and to cultivate the skill set necessary for graduate students to conduct research in collaboration with both domestic and international institutes.

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## Curriculum

- Master of Engineering in Water Resources Engineering
- Doctor of Engineering in Water Resources Engineering

## Faculty Members

Associate Professor	3
Assistant Professor	2
Lecturer	4

## Achievements

The Department recently cooperated with the Thai Hydrologist Association, Kasetsart University Kamphaeng Sean Branch, the Royal Irrigation Bureau, the Bureau of Water Resources, the Thailand Research Fund, and the Asian Institute of Technology to organize an international symposium on "THA 2015 International Conference on Climate Change and Water & Environmental Management in Monsoon Asia" during 28-29 January 2015 at the Swisshotel Le Concorde Hotel on Ratchadapisek Road, Bangkok.

The Department has been selected as a focal point of the ASEAN Academic Network on Water, Disaster, and Climate Change.



### Contact us:

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