



Co-funded by the
Erasmus+ Programme
of the European Union

MARE – Marine Coastal and Delta Sustainability for Southeast Asia

This project No. 610327-EPP-1-2019-1-DE-EPPKA2-CBHE-JP

HYDROLOGICAL MODELLING COURSE

The target audience: Master students in Hydraulic Engineering

(3 ECTS, Required courses, approved course)

Key competences: In this 3 ECTS course, students will be provided systematically about the basic concepts of modeling and the process of building and simulating applied mathematical modeling. Expertise in math modeling currently applied in the field of hydrology and problems related to water resource use in the Mekong Delta, Vietnam and around the world.

Course developers: A/P Tran Van Ty and Dr. Huynh Vuong Thu Minh

Course contents: The deterministic model; Random pattern; Statistical analysis in Hydrological calculation; HEC-HMS model; Artificial intelligence network model ANN

Teaching methodologies: Interactive and self-reflective methods of teaching and learning.

Form of control: Progress assessment (10%), Group report (30%) and Final examination (60%).

Course assignments will constitute a multi-part project.