

Marine Coastal and Delta Sustainability for Southeast Asia 610327-EPP-1-2019-1-DE-EPPKA2-CBHE-JP



HYDROLOGICAL MODELLING

Assoc. Prof. Tran Van Ty Dr. Huynh Vuong Thu Minh





LECTURE NOTES

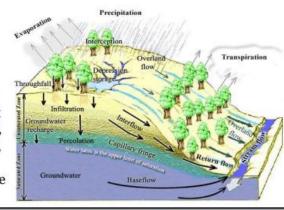




Hydrological Modelling (3 ECTS)

Lecturer: Dr. Tran Van Ty Dr. Huynh Vuong Thu Minh

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- Level Master
- This document in available in English
- Target student audiences Master in Marine Engineering Engineering





The course is designed to provide learners with knowledge and skills in conceptual modeling, physical principles of the water cycle, hydrological systems, and the steps involved in developing hydrological modeling. The course also covers deterministic and stochastic hydrological models, as well as statistics model application.



LECTURE NOTE CONTENTS



Topic 1: Hydrological model concept

General and applied knowledge related to hydrographic model

Topic 2: Deterministic model (5t)

General knowledge of basic concepts and calculation methods of all kinds of hydrological problems.

Topic 3. Random pattern (5t)

General and applied knowledge related to hydrographic model.

Topic 4. Statistical analysis in Hydrological calculation (5t)

General and applied knowledge related to hydrographic model.





LECTURE NOTE CONTENTS



Practice Lessons 1. HEC-HMS model (10t)

Teamwork, presentation and reporting skills. General evaluation and analysis skills.

Practice Lessons 2. Artificial intelligence network model ANN (5t)

Teamwork, presentation and reporting skills. General evaluation and analysis skills.

Practice Lessons 3. Statistical analysis (5t)

Teamwork, presentation and reporting skills. General evaluation and analysis skills.







THANK YOU