

Example form for Module Handbook (Đề cương tổng quát môn học)

A **Module Handbook** or collection of module descriptions that is also available for **students to consult** should contain the following information about the individual modules:

Module designation (Tên môn học)	<i>Environmental Hydrology</i>
Semester(s) in which the module is taught (Học kỳ giảng dạy)	<i>Semester 5</i>
Person responsible for the module (<i>Assoc./Prof. Dr. Tran Thi Van</i> <i>Please indicate a specific person.</i>
Language (ngôn ngữ)	<i>Vietnamese</i>
Relation to curriculum (Các môn học liên quan)	
Teaching methods (Phương pháp giảng dạy)	<i>Lecture, seminar (invited expert, if any), presentation, video, lab visit (if any).</i>
Workload (incl. contact hours, self-study hours) (Thời lượng làm việc)	<i>Total workload:</i> <i>- 30 hrs of lecture,</i> <i>- 12 hrs of exercises and practices</i> <i>- 27 hrs of self-study</i>
Credit points (số tín chỉ)	<i>3</i>
Required and recommended prerequisites for joining the module (những yêu cầu kiến thức trước khi học)	<i>Basic knowledge on:</i> <i>-</i> <i>-</i> <i>-</i>
Module objectives/intended learning outcomes (Mục tiêu môn học, yêu cầu CĐR)	<i>Provide the basic elements to understand the water physics processes, river basin, flow, the interactions between hydrosphere and environment, contaminant transport. Equip students with computational skills and software practice to apply hydrology in the environment and basin management.</i> <i>Training will be achieved through lectures, the use of analytical and numerical models, and exercises in the classroom.</i>
Content (Nội dung)	<i>Students achieve the water physics processes, the water cycle, processes in the hydrologic cycle, river and basin hydrology, flow formation, groundwater, reservoirs and swamps, tides and saline intrusion, pollution and water quality, hydrographic measurement and calculation. Numerical methods for the solution of flow and transport problems in aquifers.</i>
Exams and assessment formats (Hình thức kiểm tra và thi)	<ul style="list-style-type: none"> • <i>Midterm: Term project (30 minutes/presentation)</i> • <i>Final exam: Writing exam (60-120 minutes)</i>
Study and examination requirements (Tỷ lệ đánh giá học tập)	<ul style="list-style-type: none"> • <i>Assignment: 30%</i> • <i>Project: 20%</i> • <i>Final exam: 50%</i>

<p>Reading list (Tài liệu)</p>	<ul style="list-style-type: none"> • Nguyen Thi Bay (2018). Applied hydrology and calculations. Ho Chi Minh City National University Publishing House • Nguyen Khac Cuong (2007). Environmental hydrology. Ho Chi Minh City National University Publishing House • Nguyen Van Tuan (2006). General hydrology. Agriculture Publishing House • Nguyen Van Tuan, Nguyen Huu Khai (2021). Hydrogeography. Hanoi National University Publishing House • Nguyen Thanh Son, Dang Quy Phuong (2003). Measuring and editing hydrological data. Hanoi National University Publishing House • Nguyen Huu Khai (2008). Statistical analysis in hydrology. Hanoi National University Publishing House • Tran Thanh Xuan, Hoang Minh Tuyen, Tran Thuc, Tran Hong Thai, Nguyen Kien Dung (2012). Water resources of the main river systems of Vietnam. Science and Technology Publishing House • Andy D. Ward, Stanley W. Trimble, Suzette R. Burckhard, John G. Lyon (2015). <i>Environmental Hydrology [3 ed.]</i>. CRC Press • Saeid Eslamian (2014). <i>Handbook of Engineering: Hydrology Environmental Hydrology and Water Management</i>. CRC Press • Rajib Maity (2018). <i>Statistical Methods in Hydrology and Hydroclimatology [1st ed.]</i>. Springer Singapore • André Musy; Benoit Hingray; Cécile Picouet (2014). <i>Hydrology : A Science for Engineers</i>. CRC Press. Taylor and Francis Publisher • Bedient, Philip B.; Huber, Wayne Charles; Vieux, Baxter E. (2013). <i>Hydrology and Floodplain Analysis</i>. Pearson Publisher.
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