Curriculum Map for Dept. of Environmental Mathematics, Faculty of Environ. Sci. & Tech. Foundations and Mathematical Mathematical Mathematical **Application of** Ability of solving Ability to Relationship Communication continuously learn skills and the mathematical between a good knowledge in science theory science theory science theory problems and and self-realize ability to use education and the Major (Mathematics) (Computational (Statistics) science information-Dept. throughout life them [Expertise 1] [Expertise 2] [Expertise 4] [Expertise 5] Science) gathering society DP Ability to Learn Ability to Act and **General** [Expertise 3] **Ability to Use** over Lifetime and Communicative Ability to Achieve **Education** Information] skill Self-realization 4th **Bachelor thesis** year Elective D group Major courses Applied Subjects Major courses 3rd Major courses Required/Elective C group 1ajor courses (Statistics) year Required/Elective B group (Computational Science) Major courses Required/Elective A group Career education Major foundational courses General education courses (Health and sports sciences/ Courses for developing practical knowledge and sensitivity) Major foundational courses (Fundamental General education courses (Courses for developing intellectual 2nd (Mathematics) and Environmental Science) (Seminar) year General education courses understanding etc (Foreign languages) **Education**) courses (Information General education Major courses and 1st education year General

Curriculum Map for Dept. of Environmental & Civil Engineering, Faculty of Environ. Sci. & Tech. **Engineering ethics Fundamental Fundamental** Ability to recognize Ability to analyze Communication Planning and **Continuous** and knowledge ability in knowledge of civil and solve issues and solve and explanation execution [Activity learning [Self-[General mathematics and engineering and [Expertise 2] problems [Activity 1] 2] realization] Dept. Education 1] natural sciences environmental [Information [General Education engineering **Collecting Ability**] [Expertise 1] 2] Examples Courses (with very strong relevance) 4th **Bachelor** thesis year Courses (with strong relevance) Major courses 3rd year Major courses (Elective Major foundational courses (Env. Sci.) Group I/II) 2nd year 1st year (Guidance)

Curriculum Map for Dept. of Environmental Management Engineering, Faculty of Environ. Sci. & Tech. Diverse education combined **Expertise supported by** Ability to collect and transmit Ability to participate actively Ability to learn and improve with a sense of humanity and sufficient knowledge based on information for problem supported by communication throughout life [Ability for Dept. settlements Ability to Use insight [General Education] skills (Ability to Participate Lifelong Learning and Self-DP natural and social science Information] **Actively** realization] [Expertise] 4th Bachelor thesis year General education courses for senior undergraduate undergraduate Major courses 3rd (Seminars in Special Field of Study) year Major courses (Analysis of Environmenta Information) Major foundationa General education courses General education courses (Information education) 2nd Major foundational courses Major foundational courses year 1st year

Curriculum Map for Dept. of Environmental Chemistry & Materials, Faculty of Environ. Sci. & Tech. Ability to understand co-Ability to maintain a sense Ability to collect and Communicative ability for Basic knowledge and Self-improvement skills, of professional ethics and mutual understanding problem identification exist with nature application for problem disseminate information Dept. **General Education 1** responsibility solving for problem solving [Ability to Act] skills, and problem solving DP **General Education 2** [Expertise] Ability to Use skills (Ability to Achieve Information] Self-realization Bachelor Thesis and Seminars in Field of Study 4th year 3rd Chemistry/Chemical Engineering) Major courses Major courses Major courses Major courses Major courses (Inorganic Chem Chemistry/Chemical Engineering year (Information Major courses (Inorganic Chemistry/Organic (Inorganic Chemistry/Organic (Seminars and Experiments) (Seminars and Experiments (Seminars and Experiments) General education courses (foreign languages) Major foundational courses Major courses Major courses Major foundational courses Major foundational courses (Environmental Science) (Common Subjects) (Fundamental Science) 2nd General education courses General education courses year (Physical Chemistry) (Physical Chemistry) 1st year