

Course: Sustainable Fuel Systems Design credits: 5			
Course code Name Study year ECTS credits Language Coordinator	ZWVH19SFSD Sustainable Fuel Systems Design 2022-2023 5 English J. Bekkering	Modes of delivery Assessments	Tutorial Assignment 1 - Assignment Assignment 2 - Assignment
Learning outcomes By completing the module the student demonstrates knowledge and understanding of: E2.1.a.1. problem definition in supply chain analysis E2.1.b.1 critical analysis of relevant literature and empirical background materials And is able to: E2.3.a.1 formulate models of energy systems, using methods and techniques for energy systems E2.3.d.1 select an appropriate technique for modelling given energy problems, such as Linear Programming (LP) and Mixed Integer Linear Programming techniques (MILP) E2.3.d.2 explain the underlying assumptions and limitations E2.4.a.1 implement these models E1.1.c.1 systematic report research question, methods, results, discussion and conclusions		 Content Supply chain concepts: Material Flow Analysis, Life Cycle Cost of Energy Sustainability: concepts, Primary Energy Input Output Ratio, greenhouse gas emission saving, well-to- wheel analysis (WTT, TTW, WTW) Theory on LP, MILP, sensitivity analysis, Monte Carlo MATLAB modeling 	
Included in programme(s) European Master in Renewable Energy		School(s) Institute of Engineering	

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