

Modulbezeichnung (eng.)	Systematic Innovation (Systematic Innovation)	
Semester	WPM	
ECTS-Punkte (Dauer)	3 (1 Semester)	
Art	Wahlpflichtmodul	
Studentische Arbeitsbelastung	30 h Kontaktzeit + 60 h Selbststudium	
Voraussetzungen (laut MPO)		
Empf. Voraussetzungen		
Verwendbarkeit	MMB	
Prüfungsform und -dauer	Hausarbeit und Präsentation	
Lehr- und Lernmethoden	Seminar and Case Studies	
Modulverantwortlicher	E. Wings	
Qualifikationsziele	The students understand the importance and the value of the theory concerning the Systematical Innovation, they know and can use several methods of innovative problem solving. They know how to employ these methods in their projects profitably.	
Lehrinhalte	The students get an introduction into the problem solving strategies along TRIZ. The definitions and an overview of the methods are given. In case studies several methods are used during the different phase of an innovation process. We define and analyze the development problems (S-curve analysis, 9 field thinking, modeling of objects and functions, ideality). Then solutions are generated using technical contradictions along 40 principles of Innovation, 39 technical parameters and physical contradictions and 4 principles of separation. These solutions are evaluated, elaborated and prioritised.	
Literatur	Karl Koltze, Valeri Souchkov: Systematische Innovation - TRIZ-Anwendung in der Produkt- und Prozessentwicklung; Hanser Verlag, 2017 Michael A. Orloff: Inventive Thinking through TRIZ - A Pratical Guide; Springer Verlag, 2004	
Lehrveranstaltungen		
Dozent	Titel der Lehrveranstaltung	SWS
D. Montani, E. Wings	Systematic Innovation	2