TH Aschaffenburg
university of applied sciences

TRIZ - Systematic Innovation for New Product Development

Course number	5648
Hours per week:	4
ECTS:	5
Scheduled:	Winter Term
Format:	Lecture /seminar / project
Examination:	Project + Project presentation + (short) oral exam
Lecturer:	Prof. Dr. -Ing. Czinki
Objectives:	Ability to: Analyse sophisticated technical problems Identify a suitable methodology for systematic problem solving and systematic innovation, preferably from the TRIZ innovation tool set Successfully apply systematic innovation tools to engineering problems
Contents:	Selected problem solving and innovation tools involving: Multi-Screen-Approach Function analysis Solving technical contradictions Solving physical contradictions Inventive principles Product Optimisation by Trimming Term project to be elaborated and presented by student teams
Pre-requisites	Knowledge and/or interest in product development and product innovation subjects
Recommended Reading:	G.S. Altshuller, .Creativity as an exact science Michael A. Orloff, Inventive Thinking through TRIZ