

Disruptive Technologies

1	Module Nr. Elective, 6 th Semester	Study Program TAB/TBB	Semester 4 & 6	Offered in xWS xSS	Duration 1 Semester	Module Type Elective	Workload (H) 60	ECTS Points 2
2	Courses Disruptive Technologies		Teaching and Learning forms Lecture, Classroom exercises		Contact Time (SWS) (h) 2 30		Self-Study Time (h) 30	Language English
3	<p>Learning Outcomes and Competences</p> <p>Once the module has been successfully completed, the students...</p> <p>Knowledge and Understanding</p> <ul style="list-style-type: none"> • ...acquire an appreciation for how technology impacts society • ...understand what makes a technology disruptive • ...know examples of previous Disruptive Technologies • ...learn the difference between Sustaining and Disruptive improvements in technology • ...learn 5 ways to view the future for predicting Disruptive Technology <p>Use, Application and Generation of Knowledge</p> <ul style="list-style-type: none"> • ...will identify historical instances of incremental / disruptive technology • ...utilize methods of prediction to look for disruptive technologies • ...apply their understanding to identify emerging disruptive technologies <p>Communication and Cooperation</p> <ul style="list-style-type: none"> • ...will work with their peers to utilize predictive tools to identify disruptive technologies • ...present their predictions regarding disruptive technologies to their peers • ...document their process for identifying and testing candidate disruptive technologies <p>Scientific Self-Conception / Professionalism</p> <ul style="list-style-type: none"> • ...make business and career decisions based on an understanding of how changing technologies impact the future 							
4	<p>Contents</p> <p>This course examines the idea of Disruptive Technologies and how to identify them. Utilizing this knowledge, the course then will examine publicly available tools developed by governmental think tanks that will allow the student to make predictions about Disruptive Technologies in their own environment.</p> <p>The students will work together in practicing these tools to gain proficiency then utilize these tools to make a prediction. That process and prediction will be the foundation for a paper and presentation.</p>							
5	<p>Participation Requirements</p> <p>Required: Proficiency in English corresponding to at least level B2 according to the Common European Framework of Reference for Languages.</p>							
6	<p>Examination Forms and Prerequisites for Awarding ECTS Points</p> <p>Graded presentation of paper</p>							
7	<p>Further Use of Module</p> <p>Business Planning, Entrepreneurship, Career Planning</p>							
8	<p>Module Manager and Full-Time Lecturer</p> <p>Thomas Hoover, EMC(SS) USN(ret)</p>							
9	<p>Literature</p> <p>Lecture slides and Christen (1997) / "The Innovator's Dilemma" National Research Council / "Persistent Forecasting of Disruptive Technologies"</p>							
10	<p>Last Updated</p> <p>7.10.2020</p>							