

MME-CONSTRUCT – Suggested Curriculum Overview

1 Semester
WS

Compulsory Courses - Engineering				Compulsory Elective Courses - Engineering (1 out of 2)	
Structural Analysis and Computational Methods I	Steel Structures in Industrial Applications	Structural Dynamics	Individualized Construction	Structural Control and Health Monitoring	Structural Analysis and Computational Methods II
Compulsory Courses - Management				and	
Strategic Technology Management					
Language Course*					
German language course					

2 Semester
SS

Compulsory Courses - Engineering				Compulsory Elective Courses - Engineering (1 out of 2)	
International Factory Planning	Design of Concrete Structures for Industrial Facilities	Design and Detailing of Nonstructural Industrial Components and Equipment		Mechanics of Engineering Materials	Selected Chapters of Plant Engineering and Construction
Compulsory Courses - Management				and	
Risk Management and Decision under Uncertainties					

3 Semester
WS

Compulsory Courses - Engineering			Compulsory Elective Courses - Management and Engineering (1 out of 2)	
Earthquake Engineering and Seismic Risk Assessment	Engineering Ethics and Responsible Decision Making		Computational Methods for Advanced Materials and Structures	Human Resource Management
Compulsory Courses - Management			and	
Probabilistic Risk Analysis in Industrial Facilities				
International Project Management				

4 Semester
SS

Master Thesis (six months)		Compulsory Elective Courses - Engineering (1 out of 2)
and		Introduction to Research

* A German Course is compulsory for this program. We recommend taking it in the first semester.