

Roller Coaster Engineering

Credits	15 EC
Language	English
Responsible programme	ME-VU
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Description minor

The minor covers Roller Coaster Engineering in a broad sense. Starting from the scenario that a theme park wants to invest in a new roller coaster, we follow all engineering steps required to safely open a roller coaster for the public.

The goal of the minor is to make students familiar with technical aspects such as roller coaster design (track layout), roller coaster dynamics (forces and motion), structural design (stiffness and strength) and roller coaster systems (lifts, brakes, launches, safety systems).

Moreover, the students learn how the engineering aspects follow from the economic business case of a theme park.

Who is the minor for?

The minor is intended for students in an engineering major. Students must have successfully completed basic courses in engineering mechanics such as statics and dynamics. This is the case for students in ME, IDE, CE, AT, TN, BME. Students from other programmes could also join, depending on their exact course overview.

Admission requirements

Successfully completed basic courses in Statics, Mechanics or Materials and Dynamics.