

# Free Minor Structures - Aerospace Engineering

Delft University of Technology | Formula Student Team Delft

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## Introduction

Formula Student team Delft has always strived to built the most lightweight car possible. An important reason why our Formula Student cars are so light, is the structural design of our car. Students working on the design of the structural components of our car will need proper project management and teamwork skills, because of the very limited timeframe available (we build a new car every year).

Minor students will get the responsibility for the design of a composite structural member of our car, for example the carbon fibre monocoque. This will require a significant amount of time and effort, justifying the 14EC accredited to this project. The assessment will be done by a final presentation, where focus should be put on the process applied and lessons learned. A paper needs to be written which will get a fail or pass result.

The idea behind the set-up of this minor is that several students working on different disciplines have 2 courses in common to ensure a basic level of understanding of project- and process management and decision making. This should enable the students to work more independently, while still performing as desired. The remaining ECTS will be gathered by following courses relevant for the discipline the student is working on, in this case structural design.

Course	ECTS	Motivation	Period
SPM6102 Process Management and Decision Making	5	A well-structured process and good decision making are of vital importance in such a high-paced project as Formula Student.	Q2
CT3101 Project Management Basics	5	Project management skills are a big plus in such a complex, multidisciplinary project.	Q1
AE4ASM001	3	Design of lightweight structures I: Composites & Metals	Q1
AE4ASM516	3	Material Selection in Mechanical Design	Q3