Formula Student Europe

Formula Student Class II Rules 2026

Version 1.0

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Contents

Changelog

Version 1.0	Initial version

G Administrative Regulations

G1 Competition Overview

G1.1 Competition Objective

G1.1.1 Formula Student Class II aims to prepare students to fabricate a car in the following years to compete in the Formula Student.

G1.2 Competition Procedure

G1.2.1 Concepts for cars of the following classes are allowed for the competition:

- Internal Combustion Engine Vehicle (CV) including Combustion Hybrid Vehicle (HY)
- Electric Vehicle (EV)
- Hydrogen Vehicle (H2)
- Alternative drivetrain technologies, while deviations to the FS Rules must be kept to a minimum

G1.2.2 The concepts must aim to comply to the requirements defined in chapters T and either EV or CV of the Formula Student Rules or the Formula Student Hydrogen Rules, depending on their drivetrain type.

G1.2.3 The competition consists of a series of static disciplines described the following chapters.

G1.2.4 The achievable points in each discipline are listed below.

Discipline	**Points**
Business Plan Presentation	100
Cost and Manufacturing	100
Engineering Design	150
Overall	**350**

G1.3 Competition Information

G1.3.1 The Event specific rules and information are defined in the Event Handbook.

G1.3.2 In general, the Formula Student Rules of the respective year are valid for the Formula Student Class II competitions within that year. This rule book is supplementary to the Formula Student Rules. In case of ambiguity to the Formula Student Rules, the Formula Student Class II rules are given priority over the Formula Student Rules.

G1.3.3 Every organizer of an event based on this document bares the sole responsibility.

G1.4 Student Competition

G1.4.1 The concepts entered into the event must be conceived, designed and elaborated by the student team members without direct involvement from external professional engineers.

G2 General Requirements for Teams & Participants

G2.1 Teams per University

G2.1.1 A university can register one team for Formula Student Class II.

G2.1.2 Teams can register for either the Formula Student Class and the Formula Student Class II of the same event. However, they may not participate in both classes with the same concept.

G2.1.3 For the purposes of registering and competing, a university's Formula Student and Formula Student Class II teams are considered to be separate and independent entities.

G2.2 Team Members and Participants

G2.2.1 A team member may only be part of one team, work on one vehicle and take part in static and dynamic disciplines for only one team regarding Formula Student and Formula Student Class II Competitions.

B Business Plan Presentation (BPP)

B1 Business Plan Presentation Objective

B1.1 The objective of the BPP is to assess the team's ability to develop, present and defend a comprehensive business model in an investment round scenario. The business model must offer a product or a service integrating the team's specific or future prototype vehicle or a specific component of it. The business model must be for-profit and provide a rewarding business opportunity. Therefore, non-profit organisations are not permitted.

B1.2 The following are not eligible as components of the team's current or future prototype vehicle for the creation of the business model:

- Consumables and fasteners
- Offcuts, scrap, or other by-products arising from the manufacturing process
- Tooling or tools used in the manufacturing process
- Off-vehicle infrastructure or equipment not permanently integrated into the vehicle
- Test, measurement, and calibration equipment not permanently integrated into the vehicle
- Personal protective equipment and driver apparel
- Standalone services, data, or cloud solutions that do not rely on a team-developed on-vehicle component or software
- Using, rebranding, or reselling bought parts without the team's involvement in design, production, or further processing

B1.3 S2.1.3 does not apply.

B2 Business Plan Presentation Scoring

B2.1 The scoring for the non-finalists is calculated as follows:

$$SCORE = 95 \left(\frac{P_{team}}{P_{max}} \right)$$

P_{team} is the score awarded to the team,
P_{max} is the highest score awarded to any team not participating in the finals.

B2.2 The scoring of the BPP finalists will vary between 96 to 100 points and is scored after the BPP finals by all judges.

C Cost and Manufacturing Event

C1 Cost and Manufacturing Objective

C1.1 The teams are not required to present a functional Formula Student car.

C2 Submission files

C2.1 Prior to the competition, three Cost Report Documents (CRD), must be submitted to the competition website by the deadline specified in the Event Handbook.

C2.2 Teams are required to submit the following documents to participate in the Cost and Manufacturing event:

- The BOM, including CCBOM, created and submitted online on the competition website
- The supporting material file, submitted as a pdf file to the competition website
- The cost and emissions explanation file, submitted as a pdf file to to the competition website
- The Manufacturing Plan (MP)

C2.3 The Support Material File shall contain technical drawings and renders of the assemblies listed in the BOM & CCBOM.

C2.4 All documents should be submitted as pdf files with the following file names:

- BOM and CCBOM: "BOM_CCBOM_CLASS_2_#(CARNUMBER).pdf"
- Supporting material File: "SMF_CLASS_2_#(CARNUMBER).pdf"
- Cost and emissions explanation File: "CEEF_CLASS_2_#(CARNUMBER).pdf"
- Manufacturing Plan: "MP_CLASS_2_#(CARNUMBER).pdf"

C3 Cost and Manufacturing Procedure

C3.1 The Cost and Manufacturing starts with a brief presentation (no longer than 1 min) of the team. The team's presentation is followed by Q&A session where the judges will query the team on their understanding, the BOM & CCBOM and the Manufacturing Plan.

C3.2 The team must come to the Cost and Manufacturing event prepared to show all submission documents to at least two judges at the same time. This means at least 2 copies of the support documents. Copies can be a hardcopy, on a tablet etc.

C4 Cost and Manufacturing Event Scoring

C4.1 Teams will be evaluated on content of the presentation, visual aids, performance on the Q&A session and overall delivery.

C4.2 The breakdown of points awarded for Cost and Manufacturing Event is as follows:

Category	Points
BOM discussion	40
Cost Understanding	40
Manufacturing Plan	15
Support Material Content and Quality	5
Total	

C4.3 An unlimited number of teams may be selected to participate in the cost and manufacturing finals to determine the cost and manufacturing event winner. The cost and manufacturing finals will be held separately from the initial judging and teams will be informed about their participation during the event.

C4.4 The best non-finalist's score will be the lower threshold for the scores of the finalists with 100 points being the upper threshold.

D Engineering Design Event

D1 Engineering Design Objective

D1.1 The teams are not required to present a functional Formula Student car but are nonetheless encouraged to bring already manufactured components of the car (e.g. a fully or partially welded chassis) as well as any other relevant components.

D2 Submission of files

D2.1 Technical Vehicle System Documentation (TVSD)

D2.1.1 The TVSD should be submitted as a pdf file with the following file name TVSD_CLASS_2_#(CARNUMBER).pdf"

D3 Additional Support Material

D3.1 If a TSAC with actual cells is presented, it must first be approved by the Technical Inspection responsible persons. The team is responsible to present the TSAC at the Technical Inspection area. The TSAC must not be opened outside of the Technical Inspection area.

D4 Engineering Design Event Scoring

D4.1 The judges will evaluate the engineering effort based upon the team's TVSD, responses to questions, visual aids and presented preliminary parts, if applicable.

D4.2 S4.1.3 does not apply.