



# Rules 2017

Revision 1.2.2  
Release Date: 2017-02-26

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## 1. Administrative Regulations

### 1.1. Formula Student Austria

Formula Student Austria is part of the Formula SAE Competition Series and open to entries with both conventional and electric powertrains.

This document contains the event specific rules for the Formula Student Austria Competition.

If you have any question regarding the Rules 2017:

- If you are registered for FSG, please use the FSG issue tracker <https://www.formulastudent.de/fsg/rules/faq/> - there are FSA officials monitoring this as well
- If you have any question regarding the FSA rules or are not registered at FSG, feel free to contact the rules committee under [rules@fsaustria.at](mailto:rules@fsaustria.at)

### 1.2. Formula Student Austria 2017 Rules

The Formula Student Austria (FSA) competition will comply with the ruleset known as “Rules 2017”. The FSA rules include some specific rule changes and additions.

These changes and additions are located within this document, and supersede the respective sections of the published “Rules 2017” document.

In case of any contradiction between the FSA and “Rules 2017” the FSA rules are to be considered valid.

### 1.3. Event Handbook

The event handbook may contain special event procedures and restrictions for example regarding working on the car etc. It has to be read and understood by all event participants and is to be considered part of the rules.

### 1.4. Competition Language

The competition language is English.

### 1.5. Competition Date and Location

Formula Student Austria 2017 takes place from Monday, 2017-07-31 to Thursday, 2017-08-03 at the Red Bull Ring in Spielberg/Austria.

### 1.6. Competition Time

The Formula Student Austria official time:

From	Till	Time
2016-10-30	2017-03-25	CET
2017-03-26	2017-10-28	CEST

All dates are in the YYYY-MM-DD (ISO 8601) format.

### 1.7. Vehicle Classes and Scoring System

The event will be run with two classes – IC and electric – with all static and dynamic events being run together but scored separately. There will be no driverless (FSD) class. (Change of Rules2017\A 1.2.1)

### 1.8. Personal Transport – (Change of Rules 2017\A6.5.6)

Use of small vehicles on-site is allowed but teams are reminded to use them responsibly, especially regarding pedestrian safety and loud noise.

### 1.9. Unofficial timing and telemetry equipment

No unofficial timing and telemetry equipment (e.g. IR Transmitters, radio extenders, etc.) is allowed inside the dynamic area. Exempt from this rule is the driver change/preparation area, where team members with dynamic passes are allowed to remain during the course of the dynamic events, if the equipment does not interfere with the conduct of the event.

## 2. Registration & Eligibility

### 2.1. FSA 2017 Registration

#### 2.2. Registration Date

The registration for FSA 2017 starts on Sunday, 2017-01-08 at 1700 CET.  
Refer to the FSA website for details.

#### 2.2.1. Registration fee

Registration fee for Formula Student Austria is 1.500 (one thousand and five hundred) Euros including USt (VAT).

This fee includes the registration of 20 team members. Payment is accepted only by bank transfer. Bank details will be sent to every successfully registered team by E-mail. Every team has to send a confirmation of the money transfer by e-mail. Payment is due within 7 days of successful registration. Failure to do so will result in the loss of your slot and your team being placed on the waiting list.

Registration fees are non-refundable.

*Note: Faculty Advisors also count as team members and have to be registered.*

#### 2.2.2. Additional Team Members

Additional team members are 25 Euros each. Payment is possible in cash at the on-site registration; please be sure to have the exact amount ready.

### 2.3. Registration Capacity and Waiting List

Registrations will be given out in the order in which they are received. FSA will limit the number of entries to 50 (20 EV / 30 IC). After this limit is reached, additional entries will be placed on the waiting list and will eventually become a registered entry if another registered team redraws or is removed. Slots may be moved between classes at a later time (i.e. if a waiting list “runs out”)

#### 2.3.1. Slots

A certain number of slots at FSA 2017 are reserved. If a team fits more than one reserved slot it will take up the one listed higher up in this document.

The reserved slots expire twelve (12) hours after the registration opens. If they are not claimed by this time, Teams from the waiting list will move up to take them.

#### 2.3.2. 2016 Top Finishers

Three (3) slots in each class are reserved for the top finishers of FSA 2016:

##### Combustion

- Uni Stuttgart (Rennteam Uni Stuttgart)
- Oregon State U. (Global Formula Racing)
- UAS Graz (Joanneum Racing)

##### Electric

- ETH Zurich (AMZ Racing)
- KIT Karlsruhe (KA racing electric)
- Uni Stuttgart (Greenteam Uni Stuttgart)

#### 2.3.3. Austrian Teams

Five (5) slots are reserved for Austrian entries

##### Combustion

- TU Graz (TU Graz Racing Team)
- UAS Graz (Joanneum Racing)
- UAS Vienna (OS.car Racing Team)

##### Electric

- TU Vienna (TUW Racing)
- Uni Innsbruck (Campus Tirol Motorsport)

#### 2.3.4. Wildcard slots

Up to three (3) slots, independent of class, will be available as “wildcard” slots. Wildcard slots will be assigned by FSA based on the “wildcard application” which has to be completed before the registration starts. See the FSA website for details.

### 3. Dates & Documents

Note: Some of these Details might be subject to change to react to changes and requirements by other events in the FSAE series. Check <https://fsaustria.at/fsa-2017/rules/> regularly for updates

#### 3.1. Submission Dates Summary:

Document	Date	Document Template
ETC FMEA	2017-03-03 13:00	FSAE
SES	2017-03-03 13:00	FSA/Rules 2017
IAD	2017-03-17 13:00	FSG
ESF	2017-04-14 13:00	FSG online submission
EDR & DSS	2017-05-19 13:00	FSAE
BP Executive Summary	2017-05-19 13:00	n/a
Fuel Type	2017-06-02 13:00	n/a
Team Member Designation	2017-06-02 13:00	n/a
Vehicle Status Video	2017-06-23 13:00	n/a
Cost Report Documents	2017-07-07 13:00	FSG online submission

Documents not listed in this table are not required.

#### 3.2. Cost Report Documents

The CRD submission for FSA will be possible using the FSG CR Tool. A more detailed guide will be available when the FSG CR tool is finished.

##### 3.2.1. CBOM

For FSA 2017 a CBOM for the "Suspension System" must be submitted.

#### 3.3. ESF

The ESF has to be completed using the FSG online ESF tool.

#### 3.4. Health Insurance Certificate (change of Rules 2017\A4.6)

Requirement waived. See <https://fsaustria.at/fsa-2014/hic-dl/> for details

#### 3.5. Driver's licenses (Addition to Rules 2017\A4.5)

The driver's licenses do not need to be submitted before the event. The licenses will be checked during the egress test in scrutineering for all drivers.

#### 3.6. FSG Online submissions

For certain documents the use of online tools provided by FSG (Formula Student Germany) is required. To use these tools, a team has to be registered for the current FSG event. For teams not attending both FSA and FSG, a registration for the end of the FSG waiting list is sufficient and no payment is required.

## 4. Technical Requirements

### 4.1. Ready-to-Drive Sound (Change of Rules 2017\EV4.11.3)

Sound-type requirement waived

### 4.2. Accumulator Temperature Monitoring Device (change of Rules 2017\EV3.7.5, IN3.1.2)

The logging device will not be installed at FSA

## 5. Static Events

### 5.1. Presentation equipment (Change of Rules 2017\S 1.2.5)

The presentation equipment provided will be either a large-screen TV or a data projector. Available connections will be VGA and/or HDMI, depending on the equipment. If audio playback is required then the team has to provide the equipment (speakers). The presentation rooms will be made available for inspection and testing before the BPP event starts.

### 5.2. Business Plan Scoring Formula (change of Rules 2017\S1.4.4, S1.4.5)

The scoring for the non-finalist is calculated as follows:

$$\text{PRESENTATION SCORE} = 71 \cdot \frac{P_{\text{your}}}{P_{\text{min-F}}}$$

Where:

“ $P_{\text{your}}$ ” is the score awarded to your team by the business judges in the initial judging

“ $P_{\text{min-F}}$ ” is the lowest score awarded to any team participating in the finals in the initial judging

The scoring of the BPP finalists will vary from 75 to highest non-finalist score and is scored immediately after the BPP finals by all judges.

Possible penalties from Rules 2017\A 5 could affect the final scoring.

*Note: The intent of these changes is to avoid skewing the initial points distribution in events with non-uniform points distribution (more likely with fewer participants)*

## 6. Dynamic Events

### 6.1. Skid Pad Track Conditions (Change of Rules 2017\D4.1.8)

The Skid Pad track conditions will not be artificially altered.

### 6.2. Acceleration Staging (Change of Rules 2017\D5.2.3)

The vehicle will be staged so that it breaks the timing beam after 0.30m of travel.

## 7. Document History

### VersionChanges

Date	Version	comments/changes
2016-12-22	1.0	Initial Version
2017-01-01	1.1	1.2 – FSAE>Rules 2017 6.2 – clarification regarding staging
2017-02-15	1.2	3.1 – moved ESF deadline to match FSG 3.1 – added VSV 3.2.1 – CBOM System defined
2017-02-20	1.2.1	Added times to the submission deadlines
2017-02-26	1.2.2	3.1 moved IAD Deadline to match FSG and scheduled crashtests 3.2 FSG CRD tool will be used. 3.6 added info regarding FSG tools