



# Competition Handbook

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## AT 1. Administrative Regulations

### AT 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 and procedures for the Formula Student Austria Competition.

If you have any question regarding the Rules 2018:

- 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)

### AT 1.2. Formula Student Austria 2018 Rules

The Formula Student Austria (FSA) competition will comply with the ruleset known as “Rules 2018”. Changes and additions specific to FSA are located within this document, and supersede the respective sections of the published “Rules 2018” document.

The Formula Student Austria Competition Handbook is to be considered part of the rules.

In case of any contradiction between this document and “Rules 2018” the FSA rules are to be considered valid.

### AT 1.3. Competition Language

The competition language is English.

### AT 1.4. Competition Date and Location

Formula Student Austria 2018 takes place from Monday, 2018-07-30 to Thursday, 2018-08-02 at the Red Bull Ring in Spielberg/Austria.

### AT 1.5. Competition Time

The Formula Student Austria official time:

From	Till	Time
2017-10-29	2018-03-24	CET
2018-03-25	2018-10-28	CEST

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

### AT 1.6. 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 Rules2018\A 1.2.1)

### AT 1.7. Personal Transport – (Change of Rules 2018\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.

### AT 1.8. 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.

## AT 2. Registration & Eligibility

### AT 2.1. Registration Date

The registration for FSA 2018 starts on Monday, 2018-01-22 at 2000 CET.  
Refer to the FSA website for details.

#### AT 1.2.1. Registration fee

Registration fee for Formula Student Austria is EUR 2.300 (two thousand and three hundred) including USt (VAT).

This fee includes the registration of 20 team members and the camping fee for 10 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. Camping fees are refundable in case of withdrawal or deregistration.

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

#### AT 1.2.2. Additional Team Members

Additional team members can be registered for EUR 25 (non-refundable) each until the TMD ([AT 3.1](#)). After the TMD the fee increases to EUR 50.

Payment is possible in cash at the on-site registration; please be sure to have the exact amount ready.

### AT 2.2. Registration Capacity and Waiting List

Registrations will be given out in the of the quiz results; afterwards in the order of submission. 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”)

#### AT 2.2.1. Slots

A certain number of slots at FSA 2018 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.

#### AT 2.2.2. 2017 Top Finishers

Three (3) slots in each class are reserved for the top finishers of FSA 2017:

##### Combustion

- Uni Stuttgart (Rennteam Uni Stuttgart)
- UAS Esslingen (Rennstall Esslingen)
- UAS Coburg (CAT Racing)

##### Electric

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

#### AT 2.2.3. 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)

#### AT 2.2.4. 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.

## AT 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-2018/rules/> regularly for updates

### AT 3.1. Submission Dates Summary

Document	IC	EV	Date	Document Template
ETC	•		2018-03-09 13:00	FSA/FSG
SES/SE3D	•	•	2018-03-09 13:00	FSA/Rules 2018
IAD	•	•	2018-03-16 13:00	FSG
ESF		•	2018-04-13 13:00	FSG online submission
EDR & DSS	•	•	2018-05-25 13:00	FSAE
BP Executive Summary	•	•	2018-05-25 13:00	n/a
Fuel Type	•		2018-06-08 13:00	n/a
Team Member Designation	•	•	2018-06-08 13:00	n/a
Vehicle Status Video	•	•	2018-06-22 13:00	n/a
Event Program Team Page	•	•	2018-06-22 13:00	FSA
Cost Report Documents	•	•	2018-07-13 13:00	FSG online submission

Documents not listed in this table are not required.

### AT 3.2. Cost Report Documents

The BOM & CBOM is to be created using the FSG CR tool. The whole CR is then to be exported using the corresponding “PDF Export” function in the CR tool.

The exported PDF should be zipped together with the Cost Report Explanation file (CREF).

There are no rules regarding the style of the CREF other than it should be a comprehensive explanation of the assumptions and calculations that were used to derive the part/process costs used in the CBOM.

The file format of the CREF shall be PDF.

The ZIP archive containing both documents must be uploaded no later than the deadline listed in AT 3.1

The submission should look like this:

```

[ZIP archive]
├-[BOM] PDF exported from FSG
└-[CREF] Cost Report Explanation File, PDF
    
```

#### AT 2.3.1. CBOM

To be released

### AT 3.3. ESF

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

### AT 3.4. Health Insurance Certificate (change of Rules 2018\A4.6)

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

### AT 3.5. 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.

## AT 4. Technical Requirements

### AT 4.1. Ready-to-Drive Sound (Change of Rules 2018\EV5.12.3)

Sound-type requirement waived

### AT 4.2. Accumulator Temperature Monitoring Device (change of Rules 2018\EV6.8.5, IN3.1.2)

The logging device will not be installed at FSA

## AT 5. Static Events

### AT 5.1. Presentation equipment (Change of Rules 2018\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.

### AT 5.2. Business Plan Scoring Formula (change of Rules 2018\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 2018\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)*

## AT 6. Dynamic Events

### AT 6.1. Skid Pad Track Conditions (Change of Rules 2018\D4.1.7)

The Skid Pad track conditions will not be artificially altered.

### AT 6.2. Acceleration Staging (Change of Rules 2018\D5.2.3)

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

## AT 7. Document History

### VersionChanges

Date	Version	comments/changes
2018-01-15	1.0.0	Initial Version
2018-02-24	1.0.1	Moved IAD deadline
2018-04-12	1.0.2	Removed SESA Requirement
2018-06-04	1.0.3	Added EPTP Deadline