

# **FORMULA STUDENT EASTER RULES 2023**



#FORMULASTUDENTEASTER

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## 1. INTRODUCTION

Formula Student Easter® (hereafter “FS Easter®”) is a FSAE style Formula Student engineering competition in Hungary, organized by the Association of Automotive Engineers (formerly Engineers for the Automotive Higher Education Association) from 2021.

Formula Student Easter will allow vehicles with conventional internal combustion engines (gasoline or ethanol fuelled) and electric powertrain.

- Internal Combustion Vehicles (hereafter CV)
- Electric Vehicles (hereafter EV)

These specific rules are additions to the Formula Student Rules 2023 document (hereafter “FS Rules”) published by Formula Student Germany (<https://www.formulastudent.de/>) and applicable for 2023. In case of a conflict between the FS Rules and the FS Easter Rules 2023, the FS Easter Rules 2023 supersede the FS Rules.

Abbreviations used in this document

Abbreviations used	Name
FSEAST Rules	Formula Student East Rules 2023
FS Rules	Formula Student Rules 2023
CV Hybrid Rules	FS CV Hybrid Rules Extension 2023
ADR	Autonomous Design Report
AS	Autonomous System
ASF	Autonomous System Form
ASR	Autonomous System Responsible
BOM	Bill of Material
CBOM	Costed Bill of Material
CRD	Cost Report Documents
CV	Internal Combustion Vehicle
DNF	Did not finish
DOO	Down or out
DQ	Disqualified
DSS	Design Specification Sheet
DV	Driverless Vehicle
EDE	Engineering Design Event
EDR	Engineering Design Report
EV	Electrical Vehicle
SES	Structural Equivalency Spreadsheet
TMD	Team Member Designation
VSV	Vehicle Status Video

## **2. GENERAL**

### **2.1. COMPETITION DATES AND PLACE**

FS Easter 2023 will be held between 16th and 18th June, 2023 at the Zala ZONE automotive test track, at Zalaegerszeg, Hungary.

### **2.2. FS EAST RULES**

The FS Easter competition is compliant with the Formula Student Rules 2023 document (hereafter “FS Rules”) published by Formula Student Germany, which is applicable for 2023:

<https://fseast.eu/fs-east-2023-rules/>

The FS Easter Rules presented in this and the further rule include specific rule changes and additions to the Rules 2023. In case of a conflict between the Rules 2023 and the FS Easter 2023 Rules, the FS Easter 2023 Rules supersede the Rules 2023.

Additionally, all guidelines and clarifications posted in before the event for the participating teams, considered as official documents and therefore are applicable to the teams competing at FS Easter 2023.

### **2.3. RULE CATEGORY CLARIFICATION**

[EV Only] rules are applied to vehicles with electrical drivetrain, [CV Only] rules are applied to vehicles with internal combustion engines.

### **2.4. RULES QUESTIONS**

Any rule clarification questions or rule ambiguities concerning the rules for FS Easter will be resolved by the FS Easter Rules Committee. The Rules Committee will answer both FS Easter 2023 Rules and Rules 2023 questions, but the decisions and clarifications given are only valid for the FS Easter competition and only for the present competition year.

Rules questions should be submitted to [hello@fseast.eu](mailto:hello@fseast.eu). Do not ask about more than one rule per mail.

### **2.5. OFFICIAL LANGUAGE**

The FS Easter official language is English.

### **2.6. OFFICIAL TIME**

The FS Easter official time:

From	Till	Time
30 October 2022	25 March 2023	Central European Time (CET)
26 March 2023	29 October 2023	Central European Summer Time (CEST)

For all deadlines and decisions only the FS Easter server time is authoritative.

1 day equals 24 hours. One day later is 24 hours after the defined deadline time or reply time of an official.

To convert CET or CEST to your local time you can use following website:

<http://www.timeanddate.com/worldclock/converter.html>

## **2.7. FS EASTER REGISTRATION**

### **2.7.1. FS EASTER REGISTRATION REQUIRED CONTACT INFORMATION**

During the team registration process the team has to add all the necessary informations: team data, university data, billing information, and car data.

All participants have to register on the registration spreadsheet of FS Easter (will be published later), and have to submit all necessary data about themselves (Health Insurance Certificate, etc.). The Team Captain's responsibility to make sure all team members have registered and the uploaded data and documents are correct.

### **2.7.2. FACULTY ADVISOR**

FS Easter recommends that all participating teams have a Faculty Advisor present with them at the competition. In the event that no Faculty Advisor is present during the competition, the Team Captain will take over all responsibilities of the Faculty Advisor.

Any Faculty Advisor being registered as such must be a valid member of the faculty he/she is representing and cannot be a student.

## **2.8. EVENT HANDBOOK**

The FS Easter 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.

## **2.9. UNSPORTSMANLIKE CONDUCT**

Unsportsmanlike conduct, intentional deception of a judge or a scrutineer, or dangerous irresponsible behaviour may be reason for instantaneous disqualification.

## **2.10. TESTING AND WORK SAFETY**

FS Easter is not responsible for the use of the cars other than at the event at Zala Zone.

Furthermore, the organizers of the FS Easter dissociate themselves from all activities of the teams besides FS Easter and associated events.

Nevertheless, all teams are advised to follow common practices and common sense when working on the vehicle and when operating the vehicle, also before and after the FS Easter event.

Cars designed and manufactured for the participation of Formula Student events should not participate in events not suitable for Formula Student vehicles like hill climbs, drag races or similar events. Teams should never use their cars for wheel-to-wheel races.

The following requirements should be met to qualify as a safe testing/driving environment, but does not mean that following these guidelines guarantees safety under all circumstances.

- Driver wearing full protection gear incl. arm restraints
- Working TSAL, IMD, BMS/AMS, Torque Encoder plausibility check, torque/brake encoder plausibility check, brake system plausibility device, ETC plausibility check, ASSI and EBS if applicable.
- Rules compliant frame/monocoque
- Mounted impact attenuator
- No wheel to wheel racing
- No other passenger cars, trucks etc. being driven on the same premise at the same time, unless the area is clearly separated
- No driving under low visibility conditions
- No driving at speeds above typical event speeds, see Part D of the FS Rules for details
- No driving in areas where crashing into obstacles at the height of the driver's head is possible, such that parts of the vehicle may pass below an obstacle, but the driver's head can be trapped between the obstacle and the main roll hoop for example.

FS Easter reserves the right to disqualify a registered team in case of unsafe driving behaviour, especially if the reputation of Formula Student organizers, sponsors and other teams is compromised. The decision to remove a team from the FS Easter competition has to be made unanimously by the FS Easter rules committee and will be made public on the FS Easter website.

NOTE: This rule has not been established to annoy you, but to ensure that we experience a safe and accident-free Formula Student season.

### **2.11. [EV ONLY] CHARGING CONNECTOR AND MAX.POWER**

Only 32 A three phase (5 pin) sockets, and 16 A single phase versions will be available in the pits.

### 3. DEADLINE, PENALTIES AND ADDITIONAL INFORMATION REGARDING DOCUMENTATION

There are no penalty points for missing a document submission for FS Easter, however, we strongly encourage you to submit them so we can give you more detailed and valuable feedback.

VSV is not required, since participating in technical inspection and static events is possible without a working vehicle, and the teams can use the feedback in their preparation which is the main purpose of FS Easter.

#### DEADLINES

Document	Class	Mandatory	Deadline
CRD	All	No	2023.06.09. 23:59
Business Plan Presentation - Electronic copy	All	Yes	2023.06.16.17:00
Team Member Designation and Health Insurance Certification	All	Yes	2023.06.07 23:59

#### 3.1. [CV ONLY] FUEL TYPE ORDER

The teams must inform FS Easter of the type of fuel they intend to use. The fuel type can be chosen after registration at FS Easter spreadsheet. The fuel types provided are expected to be 100 octane (RON 100) gasoline and Mol Fuel DRX Fuel ( [https://fseast.eu/wp-content/uploads/2021/05/mol\\_drx\\_fuel.pdf](https://fseast.eu/wp-content/uploads/2021/05/mol_drx_fuel.pdf) ) for teams using E-85.

#### 3.2. [EV ONLY] ELECTRICAL SYSTEM FORM (ESF)

All EV teams must submit an Electrical System Form.

Teams with a submitted and accepted ESF on the FSG website do not need to provide any further documents. Teams with no ESF submitted on the FSG website need to send their ESF to the [hello@fseast.eu](mailto:hello@fseast.eu).



### **3.3. [EV ONLY] ELECTRICAL SYSTEM OFFICER(S) DECLARATION**

All EV teams must declare Electrical System Officer(s). Please note the responsibilities of the ESO in A4.3 of the FSG Rules 2023. The ESOs have to be nominated by the team captain on login.fseaster.eu. The number of ESOs are limited to 5 per team.

No Diploma or degree will be required, but a liability statement needs to be received and signed on the event.

### **3.4. ENGINEERING DESIGN DOCUMENTS**

#### **3.4.1. ENGINEERING DESIGN REPORT**

No Engineering Design Report needs to be submitted to FS Easter 2023.

#### **3.4.2. DESIGN SPEC SHEET**

No Design Spec Sheet needs to be submitted to FS Easter 2023.

### **3.5. COST REPORT DOCUMENTS**

An electronic copy of CRD may be submitted. See 5.2.2. for detailed CRD submission rules. Hard copies are not mandatory for Cost and Manufacturing Event.

### **3.6. BUSINESS PLAN DOCUMENTS**

#### **3.6.1. EXECUTIVE SUMMARY**

No Executive Summary is required for FSEaster 2023.

#### **3.6.2. BUSINESS PLAN PITCH VIDEO**

No Pitch Video is required for FSEaster 2023.

#### **3.6.3. BUSINESS PLAN PRESENTATION – ELECTRONIC COPY**

The Business Plan Presentation - Electronic Copy must be sent via email to hello@fseast.eu no later than 2023. June 17. 14:00

### **3.7. TEAM MEMBER DESIGNATION AND HEALTH INSURANCE CERTIFICATE**

Participating team members must be designated prior to the event. To designate a team member, please fill out the spreadsheet which you can find [HERE](#).

In case the health insurance data of one or more team members is missing or incorrect, FS Easter will decline the designation of the team member(s) in question. Only designations of team members with complete and correct health insurance information will be accepted.

Team members that were declined can be registered again after their health insurance data has been corrected.

## **4. TECHNICAL RULES**

There is no specific rule addition to Chapter 4 in the FS East Rules 2023. In case of a conflict between the FSG Rules 2023 and the FS East Rules 2023, the FS East Rules 2023 supersede them.

## **5. STATIC EVENTS**

During all static events a team member may participate only in that team's event, which she/he is registered in. Universities participating with multiple vehicles are considered as separate, individual teams and each participant must be a member of one and only one team. Active participation on other teams' static events will be penalized.

### **5.1. BUSINESS PLAN PRESENTATION EVENT**

#### **5.1.1. BUSINESS PLAN DOCUMENTS**

The Business Plan Presentation Event's documents consist of the following documents:

- Business Plan Presentation - Electronic copy

Executive Summary and Pitch Video are NOT required for FSEaster 2023.

##### **5.1.1.1. BUSINESS PLAN PRESENTATION ELECTRONIC COPY**

Specific FS Easter rule addition

The Business Plan Presentation - Electronic Copy must be sent via email to [hello@fseast.eu](mailto:hello@fseast.eu) no later than 2023. June 15. 12:00

##### **5.1.2. DATA PROJECTION EQUIPMENT**

Plasma display/LCD Monitors will be provided by FS Easter. These displays will have HDMI Input Connector. The organizers will not provide any other presentation equipment (e.g. laptop). Teams planning to use other equipment as a part of their presentation, are responsible for bringing, or otherwise arranging for their own equipment. Please note that only Schuko sockets (CEE 7/3) will be provided.

##### **5.1.3. JUDGING SEQUENCE**

At FS Easter Business Plan Presentation judging will consist of only the "Initial Judging". No finals will be held.

##### **5.1.4. BUSINESS PLAN PRESENTATION SCORING FORMULA**

Each category is evaluated separately.

NOTE: If rounding - down or up - the average is needed, it will be decided by Judges in the given Judge Group on spot, before the Static Day ends.

NOTE: CV, DV and EV categories will be evaluated separately. The scoring sheet's structure and its content is same as for FSEast2023.

**5.1.5. RESULT REVISION**

After the initial evaluation the judges will review all cost reports and given scores. In case of debatable/questionable situations the final decision falls within the competence of the Business Plan Presentation Event Leader. The same rule applies in case of complaints.

**5.2. COST AND MANUFACTURING EVENT**

**5.2.1. COST AND MANUFACTURING SCORING**

There is no “Real Case” in FS Easter 2023. Instead of Real Case the Cost Understanding Discussion will be prolonged to leave additional time for more questions and in-depth discussions. The Cost and Manufacturing event will be evaluated on the categories specified in the following table:

Category	Points
Format and Accuracy of Documents	5
Knowledge of Documents and Vehicle	5
BOM, DBOM and CBOM discussion	35
Cost Understanding	55
<b>Total</b>	<b>100</b>

**5.2.2. COST REPORT DOCUMENTS**

Submitting CRD documents is not mandatory for FS Easter 2023, but highly advised. Only submitted content will be evaluated during “BOM, DBOM and CBOM discussion”.

For FS Easter 2023 a DBOM for the “Engine and Drivetrain” system and a CBOM for the “Brake and Steering System” may be submitted.

The Cost Report Documents (CRD) consist of the following documents:

- The BOM including DBOM and CBOM created online on the Formula Student Germany website
- The Supporting Material File
- The Cost Explanation File

**5.2.2.1. ELECTRONIC COPY**

Prior to the competition, the Cost Report Documents (CRD) may be submitted by sending a file share service URL (e.g. Google Drive) to [hello@fseast.eu](mailto:hello@fseast.eu) no later than the given deadline.

For the creation of the BOM, the teams have to use the CBOM tool available on the [www.formulastudent.de](http://www.formulastudent.de) website. This tool provides a printable \*.pdf version of the BOM. FS East format must be used during export.

All the three (3) CRD should be uploaded as separate documents in \*.pdf file. For submission all the submitted CRD files must be compressed into one (1) \*.zip file.

Filename nomenclature:

- CAR#\_CRD.zip (e.g. 01\_CRD.zip) for the zip archive.
- CAR#\_BOM.pdf (e.g. 01\_BOM.pdf) for the Bill of Materials.
- CAR#\_SUP\_MAT.pdf (e.g. 01\_SUP\_MAT.pdf) for Supporting Material.
- CAR#\_COST\_EXPL.pdf (e.g. 01\_COST\_EXPL.pdf) for the Cost Explanation.

NOTE: Failure to meet the nomenclature requirements results in a maximum of minus three (-3) points.

#### **5.2.2.2. HARD COPY**

Hard copies are not mandatory but can be brought and presented in any way at the team's discretion. Hard copies must be identical to the submitted version, otherwise five (5) penalty points will be deducted from the team's Cost and Manufacturing Event score.

#### **5.2.2.3. PARTIAL SUBMISSION**

Teams may choose to submit incomplete Cost Report Documents for FS Easter 2023. In case of partial submission the email subject must contain the phrase "Partial submission", and teams must indicate which parts of their documents are ready to be evaluated. See guidelines below for indicating completeness.

Partial submissions will be penalized by proportionally reducing the maximum achievable points in "BOM, DBOM and CBOM discussion".

The format and accuracy of the documents will be evaluated in the state they are submitted, regardless of their scope of content.

##### **5.2.2.3.1. BOM, DBOM and CBOM**

Partial submission of BOM (including DBOM and CBOM) is possible on "System" level. This means, that if a System is indicated as complete, all its assemblies, subassemblies, parts and processes will be evaluated during judging. If a System is marked as incomplete, no item of the System will be evaluated.

##### **5.2.2.3.2. SUPPORTING MATERIAL**

Partial submission is possible without any indication. The usage of the Supporting Material during judging is at the team's discretion. The content and usefulness of the Supporting Material will be evaluated in the scope of "BOM, DBOM and CBOM discussion".

##### **5.2.2.3.3. COST EXPLANATION FILE (CREF)**

Partial submission of the CREF is not possible. In case of missing or empty CREF, the cost calculations of the CBOM will not be evaluated during judging.

### 5.2.3. JUDGING SEQUENCE

At FS Easter Cost and Manufacturing Event Judging will consist only one part for each category, there will be no final.

### 5.2.4. RESULT REVISION

After the initial evaluation the judges will review all cost reports and given scores. In case of debatable/questionable situations the final decision falls within the competence of the Cost and Manufacturing Event Leader. The same rule applies in case of complaints.

## 5.3. ENGINEERING DESIGN EVENT

### 5.3.1. ENGINEERING DESIGN DOCUMENTS

For FS Easter 2023 we do not ask for ED Documents (EDR, DSS). Instead, we encourage the teams to bring their work-in-progress documents to the competition. Based on request, judges and organizers can provide feedback and consultation for ED Documents.

### 5.3.2. JUDGING SEQUENCE

At FS Easter Engineering Design Event judging will consist of only the “Initial Judging”. No finals will be held.

### 5.3.3. ENGINEERING DESIGN SCORING

NOTE: All categories as mentioned in FSG Rules 2023 Article S3.7.2 will be evaluated, but the score-sheet structure and the content of it will differ from FSG Rules 2023, as it will be prepared – based on the FS East EDE Score Sheet – by the organisers prior to the Event.

## 6. DYNAMIC EVENTS

As defined in the Rules 2023 Part D.

Only those people can enter the Dynamic Area during the Event, who are wearing long trousers (excluding stretch and nylon pants) and closed shoes on their legs, due to safety reasons. Only 4 team members per team are allowed to enter the Dynamic Area, including the driver. Team members must wear wristbands to enter the Dynamic Area, wristbands are provided by the organisers.

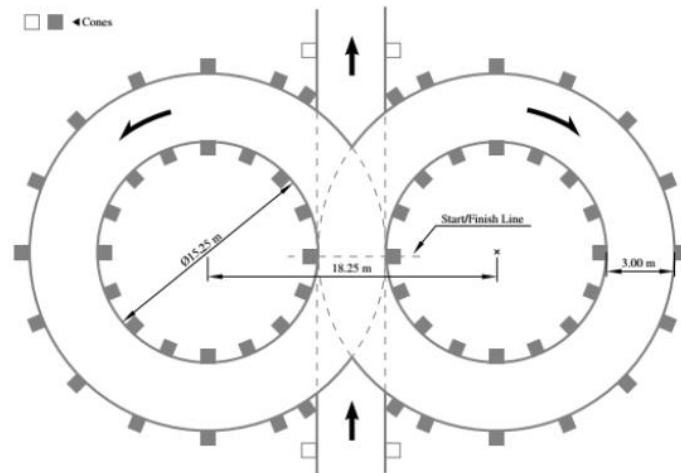
### 6.1. DYNAMIC EVENT SCORING

As defined in the Rules 2023 Part D.

## 6.2. SKIDPAD EVENT

### 6.2.1. SKIDPAD TRACK LAYOUT

As defined in the Rules 2023 Part D. This means that the skidpad layout will be the original 8 - shape layout.



Track layout for Skidpad Event

### 6.2.2. SKIDPAD PROCEDURE

As defined in the Rules 2023.

### 6.2.3. DRIVERLESS EVENTS

As defined in the Rules 2023.

## 6.3. ADDITIONAL FS EASTER-SPECIFIC REMARKS

6.3.1. Pit Rules will be detailed in the Event Handbook.

6.3.2. The schedule for the dynamic events will be shown in the Event Handbook. The last team that is allowed to start the run is the one that stands at the starting line before the scheduled time is over. This team is allowed to finish its runs. Teams standing in the row at closing time are not allowed to start their run. At the entrance of the test tracks, the skidpad, acceleration and autocross track, a CLOSED sign will be placed with the scheduled ending time.

## 6.4. SPECIAL ADDITION TO THE RULE 2023

### 6.4.1. ENDURANCE WAITING QUEUE

Important: In order to have equal and fair conditions during the Endurance event, maximum 2 teams will be on track during the Endurance Event. Therefore, the Organisers will maintain a waiting queue

of 2 teams. It is the team's responsibility to arrive in the waiting queue before the deadline -which will be announced for each team in the loudspeakers 15 minutes before the deadline. A delay will be penalised with 2 minutes penalty and the team will be able to start only at the end of the endurance event.

NOTE: According to experience of earlier years Formula Student events, it is expected to have sudden need for new teams in the waiting queue in the first section of the endurance event due to early DNFs. Please be prepared to attend the queue on time!

Starting order will be announced to the teams after the Autocross Event.

#### **6.4.1.1. SKIDPAD / ACCELERATION WAITING QUEUE**

In general, cars standing in the first driver queue have priority compared to the second driver's car. But in case of 2 or more cars standing in both queues, the following rule is applied:

2x first driver's car is enabled to run, after that a second drivers' car, and the round starts again.

#### **6.4.2. ENDURANCE TRACK LENGTH**

The full length of the Endurance event will be approximately 22 km.

The Endurance and Autocross track will be laid out with cones. In the straights, the distance between two cones will be 8-10 m in driving direction, and in some straights, the track width could be 3-5 m.

#### **6.4.3. FUEL**

FS Easter offers two types of fuels for teams.

1. Gasoline, RON 100
2. MOL Racing Fuel DRX (ethanol 85%, with 15% RON 106 maingrade gasoline). Details can be found at [www.fseast.eu](http://www.fseast.eu)

Teams should come to the FS Easter 2023 Event with empty fuel tank. It is not possible to empty the fuel tank in the FS Easter Pits. Measuring the ethanol ratio of the fuel is not allowed at the event site, further details of the provided fuel can be found at [www.fseast.eu](http://www.fseast.eu)

Teams must fill the tank fully at the first time.

In case of the suspension of the endurance, teams are allowed to have the engine heating procedure again. In this case, the fuel must be fueled top before the endurance starts again.

Shaking the car during refuelling is prohibited.

#### **6.4.4. DRIVING BACK TO THE DRIVER CHANGE AREA**

Cars, that finish Endurance / Autocross Event or come to the Driver Change Area to change drivers, shall drive to the Driver Change Entrance line with race - speed, without holding up any other racing participants. Cars shall reduce their speed at the Driver Change Area entrance. Drivers, who do not obey this rule (determined on the Race Leader Officials viewpoint), will get a 15 second time penalty in addition to their sum Endurance / Autocross Time.

In case of obvious slowing - down of any race car, when slow speed reduction can be harmful for other cars' racing, officials have the right to show a Meatball flag for the slow car, in order to examine it in the Driver Change Area.

#### **6.4.5. FLAG USAGE IN CASE BURNING CARS**

In case of track marshals notice major failure with the vehicle, yellow flags and STOP tables will be shown by the organisers. Drivers must stop the vehicle at the side of the track in a safe place.

## **7. CHANGELOG**

May 2023 - Version 1.0

1st release

Version 1.0

Version	Date	Modification	Page
1.0	May 2023	Initial release	

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