

FS FORMULA STUDENT Balkans



Changelog

V0.2: Added fee information for EV Class.

V0.3: Added refund policy information for all classes; Added document deadlines for all classes.

V1.0: Updated document deadlines; Added technical inspection, static and dynamic events information; Added upload links for all the documents.



General Information

The main purpose of the event is to expand the Formula Student Network in Romania and in the Balkan region.

Furthermore, the event aims to:

- further develop the knowledge and interests of students, through the support of government, industry, and academia, by providing the students with an opportunity for the practical application of skills and knowledge acquired in their classroom studies. The students will play the main role in planning, designing, and constructing an automobile on their own which will be judged and tried.
- be a place where knowledge and skills are verified while placing the highest priority on ensuring safety.
- conduct the competition in connection with representatives of industry, government, and academia.
- conduct the competition with a wide range of both individual and corporate volunteers.
- provide networking opportunities for students and private and state industries.

Contact

Email: contact@fsbalkans.ro

Phone number (only in case of emergency) :+40770773098 / +40743977012

Social media:

- Instagram: @fsbalkans
- Facebook: Formula Student Balkans
- LinkedIn: Formula Student Balkans



Event Info

When: 2nd to 7th of September

Where: Skat Kart Circuit, Targu Secuiesc

Address:

Strada Orbán Balázs 16, Târgu Secuiesc



Event registration: At the Registration Booth

Pit access: TBD

Registration Procedure

In order to register for the competition every team must fulfill the following conditions:

- Create a team account on the competition's website
- Have an active FSG team account
- Be REGISTERED for the FSG quiz
- participate in our quiz on the **25th of January 2024 19:00CET**

The Quiz

- Will be available on the **25th of January 2024 19:00CET on our website**
- Will contain Questions about common engineering knowledge and good understanding of the formula student rules
- Protests can be made from the 25th of January 2024 22:00 CET until the 26th of January 2024 22:00CET at contact@fsbalkans.ro
- Final results and quiz answers will be published on the **27th of January 2024 12:00CET**



Competition fee

CV: 900 EUR / EV: 1100 EUR to be paid by the **31st of January 2023, 23:59**. For international transfers we ask the teams to have a proof of payment ready in case of any delays.

The bank details will be given to every team when issuing the invoices. Please make sure to **check the inbox** of the email provided when creating the team account (including the spam folder). Contact us via direct message (Instagram or LinkedIn) if you still encounter issues.

We understand it's difficult to fund the team and several competitions, so we urge you to contact us if you encounter any difficulties with paying the whole amount by the specified deadline.

Refund Policy

In case the organizer cancels the event at any date before April 1st 2024, registration fees, campsite fees and deposits are 90% refundable.

In case the organizer cancels the event at any date after June 1st 2024 registration fees, campsite fees and deposits are 70% refundable.

In case a team cancels their participation for any reason, at any date, registration fees, campsite fees and deposits are not refundable.

Campsite

Camp fee: **600 euros**

The camp fee will be transferred to the competition's bank account at a later date.

Each team will be allocated about 1500W. Furthermore, there will be access to running water, showers and toilets.

Camp availability: 31st of August to 8th of September (Subject for change)



General Rules

Safety Rules for the competition site

EMERGENCY

In case of an EMERGENCY call for help by either finding an official with a radio or by calling 112 yourself!

IN CASE OF FIRES (FUEL, OIL, PAPER, WOOD, ETC.)

Help the injured people around the fire without risking your own health and wellbeing or try to leave the area and provide first aid if it's possible.

If an electric consumer is on fire, first try to cut off the power, without any risk to your safety.

If a car is on fire, try aiding the egress of the driver by spraying the area around the driver.

IN CASE OF ACCUMULATOR FIRES

Leave the area where the accumulator fire has started as soon as possible and keep at least 5 meters from the burning accumulator. An overheating or burning accumulator is extremely dangerous. Do not put yourself in danger by trying to put it out. Try providing first aid to any injured people if you can.

In case of electric shock - do NOT give the victim water or food.

Do not enter in contact with the fumes of the fire and avoid the ultra-hot debris and hot sparks that might fly towards you from the fire.

Wait for the ambulance and firefighters to arrive who will handle the situation.

IN CASE OF ELECTRIC SHOCK

Preferably, push the emergency buttons and wait until the TSAL is switched off, wait patiently because this may take 5 seconds to be switched off.

Talk to the victim and evaluate its health if that is possible.

Isolate yourself from the victim in case you must move the victim from the live contact by using dry gloves or multiple layers of cloth, cover potential contact patch with the HV isolation blanket

Be careful to not slip and fall during the handling of the victim.

Do not move the victim if spinal injuries might appear, only do it in case of imminent danger (no response, no pulse, no breathing), help the victim with artificial respiration in case of no breathing. Give CPR (only in case you have CPR training) in case of lack of pulse.

On the surface, the burns might not look serious, but the tissue might be damaged deep inside.



over the burned tissues with a sterile cloth. Keep the victim warm and comfortable and resting, monitoring status and breathing until help or the ambulance arrives.

Nearest Hospital

Spitalul Municipal Târgu Secuiesc / Kézdivásárhelyi

Városi Kórház

Address: Strada Fabricii 2A, Târgu Secuiesc 525400



DURING THE EVENT DO NOT RUN IF THERE ISN'T IMMEDIATE THREAT TO THE SECURITY AND WELL-BEING OF THE PEOPLE IN THE EVENT AREA



Event Disciplines

The event is organized under the official [Formula Student Germany Rules V1.0](#)

Document Deadlines

Date (yyyy/mm/dd)	Type	Class	Upload Link
2024-03-21 13:00 CET	Fuel Type Order (FTO)	CV	Link
2024-04-05 13:00 CET	Impact Attenuator Data (IAD)	ALL	Link
2024-0-05 13:00 CET	Structural Equivalency 3D Model (SE3D)	ALL	Link
2024-04-05 13:00 CET	Structural Equivalency Spreadsheet (SES)	ALL	Link
2024-04-05 13:00 CET	SES Approval (SESA)	ALL	Link
2024-04-15 13:00 CET	Electrical System Form (ESF)	EV	Link
2024-04-20 13:00 CET	Hybrid System Description (HSD)	CV (HY)	Link
2024-05-31 13:00 CET	Design Spec Sheet (DSS)	ALL	Link
2024-05-31 13:00 CET	Business Plan Pitch Video (BPPV)	ALL	Link
2024-05-31 13:00 CET	Engineering Design Report (EDR)	ALL	Link
2024-06-21 13:00 CET	Electrical System Officer Quali. (ESOQ)	EV	Link
2024-06-28 13:00 CET	Cost Report Documents (CRD)	ALL	Link
2024-07-05 13:00 CET	Vehicle Status Video (VSV)	ALL	Link
2024-07-05 13:00 CET	Team Member Registration Form (TMRF)	ALL	Link

Templates for all the documents can be found on the FSG website.

All documents will be uploaded via **the form on the official FSBK competition website.**

Please also upload the HSF on hybrid@fs-world.org



1. Technical Inspection

1.1 Technical Inspection Order

The Technical Inspection Order (TIO), or scrutineering queue is based on the order of submission of vehicles status videos. A complete schedule will be published prior to the event or after all VSVs have been submitted.

CV Class: TIO is only valid for the first attempt at mechanical scrutineering. If the order is in conflict with the static event schedule you may redeem your place in the queue at a later moment of your choice.

EV Class: The TIO will be the basis for the assigning of the timeslots for Accumulator Inspection and Electrical Inspection.

1.2 Technical Inspection Procedure

The technical inspection procedure will take place in the scrutineering area. Apart from Accumulator Inspection and Electrical Inspection, which use a system of timeslots, with rescrutineering timeslots, all inspection are based on a line-system without timeslots.

CV Class:

1. Mechanical Inspection, including pre-inspection
2. Driver Egress Fuel
3. Tilt Test & Vehicle Weighing
4. Noise Test
5. Brake Test

EV Class:

1. Accumulator Inspection
2. Electrical Inspection
3. Mechanical Inspection, including pre-inspection
4. Driver Egress
5. Tilt Test & Vehicle Weighing
6. Rain Test
7. Brake Test The Technical Inspection Procedure for Hybrid cars is still subject to discussion.

More information will follow.



2. Static Events

2.1 Business Plan Presentation Event

The BPP event will be held according to section S1 of the 2024 FS Rules. A TV screen is available in each BPP room to use. Connection via HDMI cable.

Location: TBD

Deep Dive Topic: TBD approx.. One month before the competition.

BPP Finals: TBD

2.2 Cost & Manufacturing Event

Each team will have a back-to-back session for the Cost & Manufacturing and Engineering Design Event, with a 5 minute break in between to switch team members and equipment.

Both the C&M and ED Event take place in the pits.

All walls are flexible material. A team should bring their own tape if they want to use the walls to hang any material.

Real Case: A real case may be part of the C&M event and will be published before the CRD deadline.

C&M Finals: TBD

2.3 Engineering Design Event

Each team will have a back-to-back session for the Cost & Manufacturing and Engineering Design Event, with a 5 minute break in between to switch team members and equipment. All walls are flexible material. A team should bring their own tape if they want to use the walls to hang any material.

ED Finals: TBD.



3. Dynamic Events

3.1 Driver Briefings

All partaking drivers must attend the mandatory driver briefings. An online briefing may substitute the driver briefings.

3.2. Skid Pad Event

Each team has four runs, driven by two drivers with two runs each.

3.3 Acceleration Event

Each team has four runs, driven by two drivers with two runs each. The vehicle will be staged so that it breaks the timing beam after 0.30m of travel. There is no "Top X Shoot-out".

3.4 Autocross Event

Each team has four runs, driven by two drivers with two runs each.

3.5 Endurance & Efficiency Event

The Autocross finishing order will form the basis for the endurance running order. However, the running order creation can deviate from a speed-based approach to accommodate organizational needs. Officials may allow or require cars to run out of order if needed to finish the endurance event within the given time limits. In addition to the running order, teams will be assigned a "ready-by" time in the published running order document. This is the earliest time the team may be required to run (i.e. enter the track). From this time, a team must be ready to enter the pre-inspection area.

Running out of order occurs when (1) all teams ranked before the team in the running order either ran or forfeit their run and (2) the teams' Ready-By time has passed. Running OOO will be penalized according to D9.2.1.

A track map will be released prior to the competition 25 points are awarded to every team that finishes endurance without DNF or DQ. The formula given in D7.8.4 will be used to calculate the additional endurance points, however the number "225" will be substituted by "300". The formula given in D7.9.6 will be used to calculate the efficiency score, however the number "75" will be substituted for "100".



Event Management



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