# FORMULA STUDENT



Competition Handbook 2025



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## **FORMULA STUDENT PORTUGAL** Competition Handbook 2025



# Changelog

Rule	Version	Date	Change
All	1.00	23/12/2024	First release.
PT 7.6.10	1.1	04/07/2025	Change 30 to 20 pages to make it similar to FSG competition handbook 2025
PT 2.8	1.1	04/07/2025	Changed FS rule T 12.1.2
PT 9.1.5	1.1	04/07/2025	Added rule PT 9.1.5 regarding C2 safety equipment
PT 2.11.6	1.1	04/07/2025	Added rule PT 2.11.6 regarding deposit returns
PT 7.6.14	1.1	04/07/2025	C1 Cost documents submission detailed
PT 7.6.15	1.1	04/07/2025	Added rule PT 7.6.15 regarding C2 Cost documents submission
PT 4.4	1.1	04/07/2025	Added Shuttle details
PT 4.3	1.1	04/07/2025	Updated Venue Map
PT 6.8	1.1	04/07/2025	Added sub-section regarding Chassis Identification
PT 6.4.1	1.1	04/07/2025	Updated technical inspection layout figure and description of day-by-day activities
PT 4.9.1	1.1	07/07/2025	Added Team Photo schedule
PT 6.9	1.1	07/07/2025	Added Technical Inspection schedule
PT 7.7	1.1	07/07/2025	Added Static Events schedule
PT 3.1.7	1.1	07/07/2025	Added deadline for RCH submission
PT 7.6.3	1.1	07/07/2025	Hard copy size corrected
PT 7.6.11	1.1	07/07/2025	Corrected point mentioned
PT 11.1	1.1	07/07/2025	Removed section PT 11.1 Hydrogen Concept Challenge



Rule	Version	Date	Change
PT 11.1	1.1	07/07/2025	Added section PT 11.1 Plascore IAD Special Award
PT 4.10.1	1.2	14/07/2025	Corrected the date
PT 6.9, 7.7	1.2	24/07/2025	Schedule updated after some teams with-drew
PT 5.2.3	1.2	24/07/2025	Added alternative parking lot
PT 4.3	1.2	24/07/2025	Updated Venue Map

## **Abbreviations**

**ASES** Accumulator Structural Equivalency Spreadsheet.

**ASF** Autonomous System Form.

**ASR** Autonomous System Responsible.

**ASRQ** ASR Qualification.

**BPPV** Business Plan Pitch Video.

**CEEF** Cost and Emission Explanation File.

**CET** Central European Time.

**CRD** Cost Report Documents.

**CV** Internal Combustion Engine Vehicle.

**DCPI** Driverless Cup Participation Intention.

**DLDS** Data Logger Download Station.

**DOO** Down Or Out.

**DSS** Design Spec Sheet.

**EBS** Emergency Brake System.

EDR Engineering Design Report.

**ESF** Electrical System Form.

**ESO** Electrical System Officer.

**ESOQ** Electrical System Officer Qualification.

**EV** Electric Vehicle.

## FORMULA STUDENT PORTUGAL Competition Handbook 2025



FSG Formula Student Germany.

**FSPT** Formula Student Portugal.

**GMT** Greenwich Mean Time.

IAD Impact Attenuator Data.

**RCH** Real Case Hand-Out.

**SC** Senior Cup.

**SE3D** Structural Equivalency 3D Model.

**SES** Structural Equivalency Spreadsheet.

SESA SES Approval.

**VSV** Vehicle Status Video.

# FORMULA STUDENT PORTUGAL Competition Handbook 2025



## Introduction

Formula Student is the biggest international competition for university students, where they are challenged to design, build and compete with a formula-style race car.

This is the handbook for Formula Student Portugal 2025. Whenever in conflict, it supersedes Formula Student Rules 2025 v1.1 (a.k.a. FS Rules).

The Handbook presents general information about the event, the registration details, important dates, rules and guidelines to follow during the event, campsite information, details regarding technical inspection, static events and dynamic events, an overview of class 2, some special awards, the Senior Cup, the overall schedule and the officials organizing the event.

Throughout this handbook, whenever you see this symbol 2 you can use it to quickly jump to its location in Google Maps.



#### PT 1 General Information

## PT 1.1 Competition Categories

- **PT 1.1.1** FSPT 2025 will host three classes: Class 1 (C1), where teams are expected to compete in both Static and Dynamic events; Class 2 (C2), where teams only compete in the Static events; and Senior Cup (SC), where teams will only compete in Dynamic Events with cars that don't comply with rule A2.2.1.
- **PT 1.1.2** Class 1 is further split into two categories: Electric Vehicles (EV) and Combustion Vehicles (CV).
- **PT 1.1.3** An additional Driverless Cup (DC) will be hosted for all C1 teams with driverless cars.

## PT 1.2 Applicable Rules

**PT 1.2.1** FSPT 2025 will follow the latest version of the Formula Student Rules 2025. Whenever in conflit, the rules in this Handbook supersede it. The Formula Student Portugal Competition Handbook is to be considered part of the rules.

#### PT 1.3 Announcements

- **PT 1.3.1** Official announcements will be made through FSPT website formulastudent.pt and directly to the team's e-mail, supplied by the team during the registration process.
- **PT 1.3.2** During the event all announcements will also be published in the Announcements Board. These include: preliminary results, penalties, finalists, schedule changes and others.

#### PT 1.4 Dates and Places

**PT 1.4.1** FSPT 2025 will be held from the  $27^{th}$  of July to the  $1^{st}$  of August 2025 in Kartódromo de Castelo Branco, Castelo Branco, Portugal. Throughout this handbook this location will be known as the "Event Site".



**PT 1.4.2** Teams participating in FSPT 2025 will be staying at Parque de Campismo Municipal de Castelo Branco. Throughout this handbook this location will be known as the "Camping Site".



**PT 1.4.3** It takes about 8 minutes to drive from the campsite to the event location. It is strongly discouraged to walk this distance. Teams are advised to bring cars or vans.

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## PT 1.5 Emergency Information

**PT 1.5.1** In case of a minor injury (shallow cut, small brusing, etc) please contact one of the Staff members. A First-Aid medical post is readily available during the working hours of the event site.

**PT 1.5.2** If someone is severely injured and requires urgent help please do not hesitate and immediately call the emergency services: **112**. If you have proper first aid training, help to the best of your ability. Contact an organization member as soon as possible. In case of need:

#### • Hospital Amato Lusitano (Hospital)

Address: Av. Pedro Alvares Cabral 3, Castelo Branco

Phone: +351 272 000 180 (Urgency)



#### • Bombeiros Voluntários de Castelo Branco (Firefighters)

Address: R. Cmte. Lucio Pereira, Castelo Branco

Phone: +351 272 342 122



#### • GNR - Comando Territorial de Castelo Branco (Police)

Address: Av. Cidade de Zhuhai 167RC, 6000-077, Castelo Branco

Phone: +351 272 340 900





## PT 2 Registration

#### PT 2.1 Available Slots

- **PT 2.1.1** In FSPT 2025 there will be a total of 30 C1 slots, 10 C2 slots and 5 Senior Cup slots.
- **PT 2.1.2** Of the total C1 slots, 10 will be dedicated to CV teams and 20 to EV teams. If the number of registered teams does not fill the available slots and the corresponding waiting list is exhausted then the waiting list of the other category is used instead. A minimum of 3 teams per category is required for the competition to take place.
- **PT 2.1.3** The number of DC slots is equal to the number of C1 teams registered.

#### PT 2.2 Reserved Slots

- **PT 2.2.1** The reserved slots define a set of teams that, after the registration, are placed at the top of the list independently of the Quiz results.
- **PT 2.2.2** Table 1 presents the reserved slots for the different classes. The FSPT 2024 results can be found on the official **website**.

Classes	Types	Number of slots
	TOP 3 2024 EV	3
	TOP 3 2024 CV	3
C1	Winner DV Cup 2024	1
	Winner Class 2 2024	1
	PT teams	5
C2	PT teams	5

Table 1: Reserved slots.

**PT 2.2.3** The reserved slots are cumulative, which means that if a team fits within 2, or more, types of reserved slots then it fills that many reserved slots (e.g. If a portuguese team is also a TOP 3 2024 CV and it wishes to register for FSPT then there are only 2 more TOP 3 2024 CV and 4 more PT team slots available).

## PT 2.3 [C1, C2] Team Registration

- **PT 2.3.1** The registration process will be based on a quiz, which will cover all fields related to formula student.
- **PT 2.3.2** The teams will be sorted by the number of correct answers. In case of a tie between two teams that have the same number of correct answers, the quiz time will be deciding factor. Quiz time is counted from 9:00 CET until the team finishes.
- **PT 2.3.3** In order to register, teams must follow the steps below:

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- 1. Create a team account on FSG website formulastudent.de at least 24h before the quiz. This is where teams will submit some of the required technical documents.
- 2. Create a team account on FSCH website fsswitzerland.ch.
- 3. Complete the FSPT/FSCH quiz which will be available on the  $31^{st}$  of January 2025 at 9:00 CET.
- 4. At the end of the quiz, select whether your team wants to go to FSPT, FSCH or both.
- 5. Complete the FSG quiz which will be available on the FSG website on the 31<sup>st</sup> of January 2025 at 13:00 CET. The actual results from the FSG quiz are irrelevant for the registration in either FSPT or FSCH but it is required in order to submit technical documents. **CV and C2 teams will have a separate option to register without going through the FSG quiz.**
- **PT 2.3.4** The quiz solution will be published on the  $1^{st}$  of February 2025 at 13:00 CET on the official **website**.
- **PT 2.3.5** Teams have 4h to send their protests to geral@formulastudent.pt.
- **PT 2.3.6** Final quiz results will be published on the  $3^{rd}$  of February 2025 at 13:00 CET on the official **website**. Simultaneously, all teams that have completed the Quiz will receive an e-mail with the payment information and a link to a live-view of the available slots.
- **PT 2.3.7** The teams may pay the registration fee at any time (independently of the Quiz results) from the moment they receive the e-mail until the  $28^{th}$  of February.
- **PT 2.3.8** The Quiz results will only reserve the team's slot until the  $7^{th}$  of February at 17:00 CET, after which the payment order will be dictating the allocation of slots. If more than 30 C1 or 10 C2 teams pay the registration fee before the  $7^{th}$  of February at 17:00 CET then a full refund will be made to the teams that place outside the available slots.
- **PT 2.3.9** Teams may request a pro-forma invoice before the Quiz date by sending an e-mail to geral@formulastudent.pt.

## PT 2.4 [Senior Cup] Team Registration

- **PT 2.4.1** Senior Cup registrations open on the  $7^{th}$  of February at 17:00 CET.
- **PT 2.4.2** Senior Cup teams may register by sending an e-mail to geral@formulastudent.pt with the following information:
  - Original team name
  - Senior Cup team name
  - Team Captain name

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- E-mail contact person 1
- E-mail contact person 2
- University
- Country
- Car year
- Type of powertrain
- Car number
- Billing details (institution name, address, VAT number)
- **PT 2.4.3** The registration is confirmed after payment (if applicable) is concluded.

## PT 2.5 Team Registration Fee

- **PT 2.5.1** Upon registration in C1, a fee of  $1700 \in (+VAT, if applicable)$  must be paid within the deadline.
- **PT 2.5.2** Upon registration in C2, a fee of  $750 \in (+VAT, if applicable)$  must be paid within the deadline.
- **PT 2.5.3** Upon registration in the Senior Cup, a fee of  $900 \in (+VAT, if applicable)$  must be paid within the deadline. For teams that are also competing in C1 or C2 there are discounts available:
  - For teams competing in C1 the first Senior Cup slot is free. The second slot is  $450 \in (+VAT, \text{ if applicable})$ , following slots are  $900 \in (+VAT, \text{ if applicable})$ .
  - For teams competing in C2 the first Senior Cup slot is 450€ (+VAT, if applicable). The second and following slots are 900€ (+VAT, if applicable).

## PT 2.6 Waiting List

- ${\sf PT~2.6.1}$  If there are more team registrations than open slots then a waiting list is created.
- **PT 2.6.2** Whenever a slot opens due to a de-registration then the teams on the waiting list are contacted with the payment details.
- **PT 2.6.3** To remain on the waiting list teams must continue to submit the required documents according to section PT 3.
- **PT 2.6.4** The waiting list will be dissolved either when no teams are left or upmost on the  $27^{th}$  of June 2025.



## PT 2.7 De-Registration

- **PT 2.7.1** If a team fails to submit the required documents by the dates specified in section PT 3 and continuously ignores e-mails sent by the FSPT organization then it will be de-registered and no refund will be issued.
- **PT 2.7.2** If a team asks to be de-registered before April  $1^{st}$  then a refund of 50% will be issued. After this date there is no refund.

#### PT 2.8 Vehicle Identification

- **PT 2.8.1** Upon registration Teams must select a car number from the range 01-999.
- **PT 2.8.2** In case of teams selecting the same number, the team with the highest score on the registration Quiz will keep the number.
- **PT 2.8.3** Combustion teams will need to add a "C" prior to their numbering (e.g. C375) and electric teams an "E" (e.g. E73), which shall appear on the vehicle following T12.1.2.
- **PT 2.8.4** Rule change to T 12.1.2, where it reads "Alignment: In front view the number at the front and in side view the numbers on the sides must be horizontally aligned." changes to "Alignment in side view the numbers on the sides must be horizontally aligned.".

#### PT 2.9 No Driverless Events

- **PT 2.9.1** Teams that do not intend to run in autonomous mode at the competition must send an e-mail to geral@formulastudent.pt stating they do not intend to participate in the driverless events before the deadline shown in table 2. This cannot be undone. All driverless events will be scored with 0 points. The team will not be allowed to run in autonomous mode.
- **PT 2.9.2** Teams with the status "No Driverless Events" are not required to upload the ASF, ASRQ and the DBC file. Therefore, if these deadlines are missed, the team will not be de-registered from the competition. All correction requests for these deadlines become invalid immediately. Existing penalties remain if the status "No Driverless Events" is handed in after a deadline already expired.

## PT 2.10 Team Member and Camping Registration

- **PT 2.10.1** After the team sucessfully registered, team members are also required to register. To enter the event-site, one has to be registered as team member.
- **PT 2.10.2** Team member registration fee is  $60 \in (+VAT, if applicable)$  per team member.
- **PT 2.10.3** A camping site will be available, only for registered Team Members. More information on this in PT 5. The Camping Fee is 50€ (+VAT, if applicable) per team

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member, for the whole event.

- **PT 2.10.4** A Team Member Registration Sheets will be made available by e-mail to registered teams on the  $\mathbf{1}^{st}$  of May. This Sheets must be contain information of all team members attending the event. If a Team member is staying at the Campsite, the respective checkbox should be selected.
- **PT 2.10.5** On the  $1^{st}$  of June 2025 the respective Sheets tab will be closed and a pro-forma will be generated and sent to the team's e-mail according to the number of team members registered thus far. Teams must show proof of payment by the  $15^{th}$  of June 2025.
- **PT 2.10.6** After the deadline in PT 2.10.5, team members can still be registered as Late Team Members. The Late Team Members fee can only be paid at the Event by the Team Captain. Please see payment options at the PT 4.5 section.
- **PT 2.10.7** The team member registration fee after the deadline in PT 2.10.5 is  $100 \in (+VAT, if applicable)$ .
- **PT 2.10.8** The camping fee after the deadline in PT 2.10.5 is  $70 \in (+VAT, if applicable)$ .
- PT 2.10.9 Each team must have one, and only one, team-captain.

## PT 2.11 Deposits

- **PT 2.11.1** All teams are required to pay a clean venue deposit fee of  $100 \in$ . This will be refunded at the end of the event after an inspection to the conditions of the team's pit after disassembling. This deposit will not be returned to teams that fail to keep the whole venue clean or to follow the paddock schedule.
- **PT 2.11.2** Dynamic area (maximum of 4) and Media (maximum of 1) vests require a deposit of 30€ each, which will be refunded once the vests are returned.
- **PT 2.11.3** The datalogger requires a deposit of 150€, which will be refunded once the datalogger is returned.
- **PT 2.11.4** All teams are required to pay a deposit of 30€ per team-member that stays on the campsite within 24 hours of arrival. This deposit will be refunded at the end of the event, after an inspection to the conditions of the team's camping zone after disassembling. The deposit will not be returned to teams that do not keep the campsite clean or that fail to follow the camping rules and guidelines. Deposits from specific team-members may not be returned. If there are general damages to common areas and a culprit cannot be found, a fraction of all campsite deposits may be kept.
- **PT 2.11.5** All deposits are paid in cash in the Race Control by the Team Captain. Alternatively, teams may request to pay the deposits by bank transfer before the  $21^{st}$  of July 2025.
- **PT 2.11.6** Teams may also request the deposits to be returned as a bank transfer. In that case, teams must inform the Race Control and leave their bank details.

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#### PT 2.12 Visitors

- **PT 2.12.1** Visitors will be allowed on the event site on all days of the event as long as they acquire a ticket.
- **PT 2.12.2** Visitor tickets can be purchased at the event reception or through the official **website**. Ticket pricing will be announced at a later date.

## PT 2.13 Faculty Advisors

- **PT 2.13.1** Faculty Advisors are professors at the team's University that support the team throughout the year and during the events. A special program will be created for Faculty Advisors.
- **PT 2.13.2** Faculty Advisors must register through the Team Member Sheets, PT 2.10.4.
- **PT 2.13.3** The Faculty Advisor registration is free. While optional, the Camping site is available in which case the camping fee still applies, PT 2.10.3. Other accommodations are possible, contact us at geral@formulastudent.pt for more information.



## PT 3 Important Dates

#### PT 3.1 Deadlines

- **PT 3.1.1** Team registration for C1 and C2 teams starts on 31-01-2025 09:00 CET with the registration quiz and ends after the registration quiz has been closed on 31-01-2025 11:00 CET.
- PT 3.1.2 Team registration for SC teams starts on 07-02-2025 09:00 CET.
- **PT 3.1.3** Teams will receive access to a private Google Drive folder on the  $1^{st}$  of May.
- **PT 3.1.4** The required documents and information must be uploaded to the FSG competition website, sent by e-mail to geral@formulastudent.pt or uploaded to the team's drive by the team captain and/or their deputies according to Table 2 for Class 1 teams and Table 3 for Class 2 teams.
- **PT 3.1.5** Deadlines are specified such that documents need to have been submitted and received by the website, drive or e-mail before the time specified by the respective deadline.
- **PT 3.1.6** All documents must comply with a maximum size of 40 MB.
- **PT 3.1.7** Change of FS Rules A5.1.1 SESA is not required for FSPT 2025. Accordingly, FS Rules A5.7 does not apply.

Date	Document	Category	Submission
28-02-2025-13:00 CET	DCPI	EV, CV	E-mail
14-03-2025-13:00 CET	IAD	EV, CV	FSG
14-03-2025-13:00 CET	SE3D	EV, CV	FSG
14-03-2025-13:00 CET	SES	EV, CV	FSG
14-03-2025-13:00 CET	ASES	EV	FSG
28-03-2025-13:00 CET	ASF	DV	FSG
28-03-2025-13:00 CET	ESF	EV	FSG
31-05-2025-13:00 CEST	BPPV	EV, CV	Drive folder
31-05-2025-13:00 CEST	DSS	EV, CV	Drive folder
31-05-2025-13:00 CEST	EDR	EV, CV	Drive folder
21-06-2025-13:00 CEST	ASRQ	DV	Drive folder
21-06-2025-13:00 CEST	ESOQ	EV	Drive folder
05-07-2025-13:00 CEST	VSV	EV, CV	Drive folder
16-07-2025-13:00 CEST	CRD	EV, CV	Drive folder
16-07-2025-13:00 CEST	Final DBC file	DV	FSG
16-07-2025-13:00 CEST	"No DV Events", PT 2.9	EV, CV	E-mail
25-07-2025-13:00 CEST	RCH	EV, CV	Drive folder

Table 2: Class 1 document deadlines

**PT 3.1.8** The IAD, SES, SE3D and ESF documents are not mandatory for Class 2 teams and there are no extra points awarded or penalties. Regardless, C2 teams are strongly encouranged to upload these documents which will be reviewed by the same

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experts as C1 teams and feedback will be given.

Date	Document	Category	Submission
15-06-2025-13:00 CEST	BPPV	EV, CV	Drive folder
15-06-2025-13:00 CEST	DSS	EV, CV	Drive folder
15-06-2025-13:00 CEST	EDR	EV, CV	Drive folder
01-07-2025-13:00 CEST	IAD	EV, CV	Drive folder
01-07-2025-13:00 CEST	SE3D	EV, CV	Drive folder
01-07-2025-13:00 CEST	SES	EV, CV	Drive folder
01-07-2025-13:00 CEST	ASES	EV	Drive folder
01-07-2025-13:00 CEST	ESF	EV	Drive folder
16-07-2025-13:00 CEST	CRD	EV, CV	Drive folder

Table 3: Class 2 document deadlines



## PT 4 During the event

## PT 4.1 Helpful Locations

**PT 4.1.1** Here is a list of places you might find useful during the event:

#### • Shopping Mall - Fórum Castelo Branco

Address: Av. Prof. Dr. Egas Moniz, 6000-459 Castelo Branco Schedule: 9AM-10PM



#### Groceries - Continente (also has 2 ATMs)

Address: Av. da Europa Quinta da Taipa, 6000-145 Castelo Branco Schedule: 8AM-10PM



#### • Cheapest gas station - Auchan

Address: Zona Industrial de Castelo Branco, 6000-459 Castelo Branco Schedule: Open 24h



#### • General workshop supplies - Leroy Merlin

Address: Estrada Nacional 18 Apartado 1131, 6000-050 Castelo Branco Schedule: 9AM-9PM



#### Specialized workshop supplies - BeiraTools

Address: Zona industrial, Rua D, 6000-459 Castelo Branco Schedule: Mon.-Fri.: 9AM-1PM, 2:30PM-6:30PM, Sat.: 9AM-12:30PM



#### • Camping supplies - Decathlon

Address: R. Cunha e Castro 14, 6000-060 Castelo Branco Schedule: 9AM-9PM



#### • Pharmacy - Farmácia Tanara Fórum

Address: Av. Prof. Dr. Egas Moniz 901, 6000-901, Castelo Branco



Schedule: 9AM-10PM

## PT 4.2 Upon Arrival

**PT 4.2.1** To enter the event site each team member must be identified with an official competition badge and at least one bracelet.

**PT 4.2.2** Only registered team members (according to PT 2.10) will be assigned a badge and a bracelet. Extra bracelets will also be provided to team members with

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specific roles (Team Captain, ESOs, ASRs and Drivers), upon their registration. See PT 6.2.3 and PT 6.7.1.

- **PT 4.2.3** The identification badges can be retrieved at the event reception by the team member him/herself or by the team c aptain. In order to facilitate the logistics it is advised that the team captain collects the badges and bracelets for all the team members upon arrival.
- **PT 4.2.4** All teams are required to pay the deposits described in section PT 2.11 at arrival or show proof of payment.
- **PT 4.2.5** During pit assembling, a maximum of 5 teams are allowed to unload their vans or trucks at the paddock entrance at any given time. The unload order will be defined through a first-come-first-serve basis. A staff member will be keeping track of the order. Each team has 45 min to unload the vans/trucks. If the team is not done at the end of their time slot, they must leave and will be assigned a new slot.
- **PT 4.2.6** During pit disassembling, a maximum of 5 teams are allowed to load their vans or trucks at the paddock entrance at any given time. The load order will be defined through a first-come-first-serve basis. A staff member will be keeping track of the order. Each team has 45 min to load the vans/trucks. If the team is not done at the end of their time slot, they must leave and will be assigned a new slot.
- **PT 4.2.7** Each team will receive 4 dynamic area vests and 1 media vest upon registration at the Race Control and deposit payment. EV teams will also receive a datalogger token which can be exchanged by the actual datalogger, according with PT 6.2.2.



## PT 4.3 Venue Map

**PT 4.3.1** The venue will be organized as depicted in Figure 1. The final venue layout may be subject to changes.

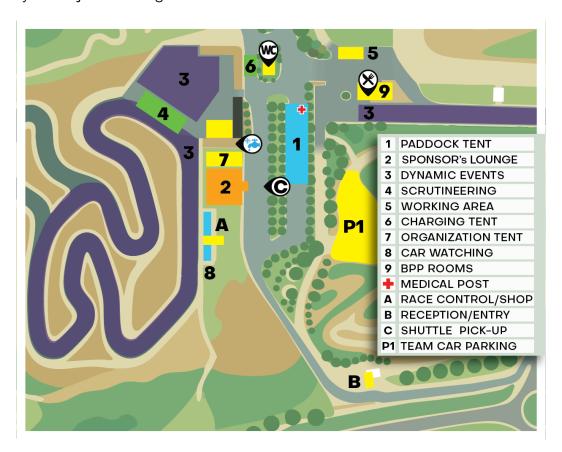


Figure 1: Venue Map

#### PT 4.4 Shuttle

**PT 4.4.1** There will be a free Shuttle service between the Venue and the Camping site according to Table 4.



28th to the 3	31st of July	1st of A	ugust
Camping to	Venue to	Camping to	Venue to
Venue	Camping	Venue	Camping
07:30	08:00	07:30	08:00
08:30	09:00	08:30	09:00
09:30	10:00	09:30	10:00
10:30	11:00	10:30	11:00
11:30	12:00	11:30	12:00
12:30	13:00	12:30	13:00
13:30	14:00	13:30	14:00
14:30	15:00		
15:30	16:00		
16:30	17:00		
17:30	18:00		
18:30	19:00		
19:30	20:00		
20:30	21:00		
21:30	22:00		

Table 4: Shuttle departing hours.

#### PT 4.5 Race Control

- **PT 4.5.1** Only cash payments are accepted at the race control. This is also valid for the payment of deposits.
- **PT 4.5.2** If an invoice is required for payments performed on site, a request must be placed at the race control. The invoices will be sent to the team through the provided email up until 10 business days after the competition has ended.
- **PT 4.5.3** All competition related procedures conducted at the Race Control, like extra team member registration or payment of deposits, must be performed by the Team Captain.

#### PT 4.6 General Rules and Guidelines

- **PT 4.6.1** As per FS Rules A6.6, alcohol, illegal drugs, weapons, or other illegal material are prohibited at the event site during the competition. In addition, at the event site if any team member is tested with an alcohol level higher than 0.0g/I, he or she will be immediately disqualified for the rest of the competition. If a second team member is found to have an alcohol level higher than 0.0g/I will result in the entire team being disqualified.
- PT 4.6.2 Alcohol is allowed at the camping site.
- **PT 4.6.3** Use of motorcycles, quads, bicycles, skateboards, or rollerblades in the event site is prohibited.
- PT 4.6.4 Working on the vehicle or any hardware systems required for its safe

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operation is strictly forbidden in the camping site. Doing so is considered a violation of FS Rules - A6.4.3 and may result in the entire team being disqualified immediately.

- **PT 4.6.5** Work that requires the use of any tools that use high heat or result in sparks (grinding, cutting, welding, etc) must be done in the dedicated Welding Area. Safety equipment must be used when performing the work or when other people are working within the area (gloves, safety glasses, welding helmets, etc). Always be aware of your surroundings and perform the necessary work in the safest way possible for you and the other team members. Always use clamps or fixtures to adequately hold the part/material you'll be working on. Do not hesitate to contact the Staff if you have any safety-related questions.
- **PT 4.6.6** Only people identified with the competition badge can enter the venue.
- **PT 4.6.7** The venue has one parking lot reserved for teams. Only vehicles identified with the correct badge can enter this location. Upon arrival each team will receive 2 parking badges that they can use in any cars or vans. No trucks are allowed at the reserved parking lot. Although the organization does not take responsability for the availability of more than 2 parking spaces per team, around the venue there is parking space that can be used.
- **PT 4.6.8** No cars or vans are allowed outside the venue parking lots except for loading and unloading the pit material, only at the designated time slots as per PT 4.7.
- **PT 4.6.9** No cleaning will be performed in the teams pits during the event.
- **PT 4.6.10** Smoking is forbidden around the campsite. If you wish to smoke do so in the designated smoking area and use the designated ash trays.

#### PT 4.7 Event Areas Schedule

- **PT 4.7.1** The Race Control will open on the  $27^{th}$  of July from 14:00 to 20:00. Between the  $28^{th}$  of July and  $31^{st}$  of July from 8:30 to 20:00. And on the  $1^{st}$  of August from 8:30 to 13:00. Except on the  $1^{st}$  of August, a lunch break will happen everyday from 12:30 to 14:00.
- **PT 4.7.2** The shop will be open on the same schedule as the Race Control.
- **PT 4.7.3** The bar will close everyday at 20:00.
- **PT 4.7.4** The reception will open on the  $27^{th}$  of July from 13:00 to 20:00 and on the remaining days from 8:00 to 20:00. A lunch break will happen everyday from 12:30 to 14:00.
- **PT 4.7.5** Campsite will open on the  $27^{th}$  of July from 14:00 and stay open until the  $2^{nd}$  of August at 12:00.
- **PT 4.7.6** The campsite cooking areas will open on the  $27^{th}$  of July at 16:00. On all other days of the event these areas are opened from 9:00 to 23:00. The cooking areas will not open on the  $2^{nd}$  of August.
- **PT 4.7.7** Paddock and Charging Area powered by Vestas will open on the  $27^{th}$  of July at 14:00. On all other days of the event the Paddock and Charging Area open at



7:30 and close at 22:00. The paddock closes on the  $2^{nd}$  at 11:00.

**PT 4.7.8** Welding Area will open on the  $27^{th}$  of July at 14:00. On all other days of the event the Welding area opens at 7:30 and closes at 21:00.

## PT 4.8 Event Shop

- **PT 4.8.1** There will be a shop on the venue dedicated to selling FSPT merchandising, electrical and mechanical components, and other supplies.
- **PT 4.8.2** The shop will be located at the Race Control.

#### PT 4.9 Team Photo

**PT 4.9.1** Each team has been assigned a dedicated slot on their schedule to perform a team photo, as seen in the following Table.

#	Team	Team Photo Slot
121	E-Team Squadra Corse	29 Jul. 09:20
25	EUSS Motorsport	29 Jul. 10:20
67	Team Bath Racing Electric	29 Jul. 10:00
57	Eni Metz Racing Team	28 Jul. 10:00
320	Formula Student FEUP	28 Jul. 14:20
5	ISEL Formula Student	28 Jul. 09:40
24	LART	28 Jul. 15:00
74	Formula Student Vitoria	28 Jul. 15:20
65	PHISEC Racing	28 Jul. 17:00
73	TecnoCampus Motorsports	29 Jul. 09:40
50	FST Lisboa	28 Jul. 10:40
52	Prom Racing	28 Jul. 10:20
314	UVigo Motorsport	28 Jul. 16:20
13	Marseille Racing	28 Jul. 14:40
14	UJI Motorsport	28 Jul. 16:40
296	U Motorsport	28 Jul. 11:50
212	Formula Gades	28 Jul. 11:00
	UNEX Motorsport	29 Jul. 11:20
22	Nexus UA Motorsports	28 Jul. 11:40
95	FSUMinho	28 Jul. 15:40
52	Formula Student ISEP	28 Jul. 15:50
240	LART C2	28 Jul. 15:00
7	NOVA Formula Student	28 Jul. 16:00
	UTRON Racing Team	28 Jul. 16:10
510	ISEL Senior	28 Jul. 09:40

Table 5: Team photo schedule.

- **PT 4.9.2** The team photos will be performed in a special area of the paddock tent.
- PT 4.9.3 Teams must show up with their car (class 2 teams can bring any sort of

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models that represent their car), their team members and are encouraged to bring materials with their logos and branding.

- **PT 4.9.4** After the team photo, each team can have a quick photoshoot session with their car, performed by FSPT's Media team. Teams that bring a car to this session must also bring a helmet and a driver's outfit.
- **PT 4.9.5** Teams which fail to show at the right time slot might be asked to take the photo on an unscheduled time slot.

#### PT 4.10 Event Photo

- **PT 4.10.1** There will be an Event Photo, with all teams, on July  $28^{th}$  at 19:30, this event photo is mandatory for every team.
- **PT 4.10.2** Teams must show up with their car, their team members and are encouraged to bring materials with their logos and branding.
- **PT 4.10.3** Teams that fail to participate on the event photo are penalized with 50 points.

#### PT 4.11 Morning Briefings

- **PT 4.11.1** All ESOs and ASRs must attend the morning briefing. Additionally all drivers that want to drive on a given day must attend that day's briefing. Drivers, ESOs and ASRs that fail to attend a given day's briefing will be treated as a regular team member.
- **PT 4.11.2** Morning briefing will take place in the Sponsor's tent from the  $28^{th}$  of July to the  $1^{st}$  of August between 8:00 and 8:30.

#### PT 4.12 Protest Procedure

- **PT 4.12.1** To initiate the protest procedure according to A 3.7.2, a request for clarification must be submitted via e-mail to geral@formulastudent.pt before the announced protest deadline. The request for clarification must follow the template available here.
- **PT 4.12.2** After submitting the request for clarification, the team captain is going to be contacted by an official for an informal preliminary review. Within 2h after the review, the team can choose to continue the procedure by submitting a formal protest to geral@formulastudent.pt binding 25 points to it. If no formal protest is received within 2h, the protest procedure is cancelled permanently.



## PT 5 Campsite

## PT 5.1 Upon Arrival

- **PT 5.1.1** Only registered team members can enter the campsite, so they will need to have competition badges and camping bracelets before getting in.
- **PT 5.1.2** Each team must pay the clean campsite deposit at the Race Control, within the first 24 hours of arriving at the campsite. Teams that fail to meet this deadline will be de-registered. See section PT 4.5 for more details regarding payment options.
- **PT 5.1.3** The camping zone assigned to the team will be provided to the team captain at the time of onsite registration.
- **PT 5.1.4** Each team will be assigned a clearly marked camping zone in which to assemble their sleeping and social areas. The dimension of each zone takes into account the amount of team members registered before the deadline in PT 2.10.4. No adjustments will be made to account for late team members.

#### PT 5.2 General Rules

- **PT 5.2.1** No cars or vans are allowed inside the campsite, except to unload or load camping equipment.
- **PT 5.2.2** It is possible to park cars and small vans at the front entrance of the campsite (Park P1, see figure 2). No trucks are allowed to park here. Please keep your larger vehicles at the Venue parking lots.
- **PT 5.2.3** Alternative Parking Lot: Park P2, see figure 2, will serve as an alternative for cars or vans. This is a private parking and there is a gate at the entrace. This parking is closed between 23:00 and 07:00.
- **PT 5.2.4** No noise is allowed in the campsite after 2am every day except for the  $1^{st}$  of August.
- **PT 5.2.5** No open fires are allowed outside the cooking area (PT 5.3). If you wish to cook at your team's camping zone do so using eletric stoves.
- **PT 5.2.6** Smoking of regular (combustible) cigarettes is forbidden around the campsite. If you wish to smoke do so at the front entrance and use the designated ash trays.

## PT 5.3 Cooking Area

- **PT 5.3.1** The campsite has 2 cooking areas designed for teams to cook at. Their opening hours are depicted in PT 4.7.
- **PT 5.3.2** Only gas bottles with a maximum capacity less or equal to 30 Kg are allowed in the cooking areas.
- PT 5.3.3 After cooking, it must be ensured that there is no way gas can exit the



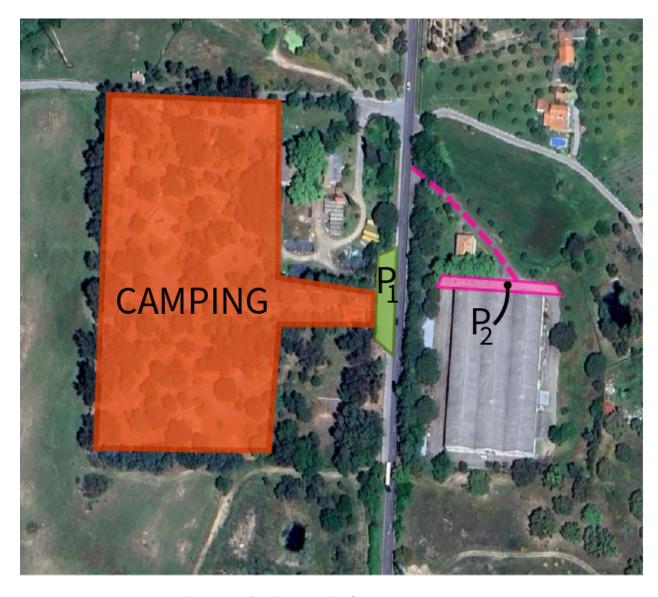


Figure 2: Parking at the Campsite.

bottles and that the connections to the stoves are completly closed.

- **PT 5.3.4** After cooking, all ashes shall be disposed in the designated container.
- **PT 5.3.5** No fires can be left unattended.
- **PT 5.3.6** At most 3 members of each team can be at the cooking area at any given time. If the area is too crowded this limit may be reduced by any staff member.

## PT 5.4 Dishwashing

- **PT 5.4.1** The campsite is equiped with 2 dishwashing areas. These are not equipded with soap or sponges so teams need to bring their own.
- **PT 5.4.2** Keep the sinks clean and unclogged.



## PT 6 Technical Inspection

## PT 6.1 Technical Inspection Sticker

**PT 6.1.1** The sticker will be 175x55 mm (WxH). A suitable spot shall be reserved on the upward-facing bodywork between the front bulkhead and the front roll hoop.

## PT 6.2 Data Loggers [EV ONLY]

- **PT 6.2.1** Formula Student Portugal will use the official data loggers from FSG. Ensuring that the Data Logger is working properly is the sole responsability of the team. The technical specifications and mounting instructions can be found in this link. At least one DLDS station will be available in the paddock tent.
- **PT 6.2.2** The team must pick up their data logger at the DLDS station at the paddock during the schedule presented in PT 4.7.7.
- **PT 6.2.3** ESO and ASR registration will take place during the data logger pick-up. All ESOs and ASRs must have a ESOQ, ASRQ (ASRs only) and a national ID card as well as their student ID ready for inspection.

## PT 6.3 Accumulator Inspection [EV ONLY]

- **PT 6.3.1** The initial accumulator inspection will take place in the technical inspection tent. Any required re-inspection from 29-07-2025 and later will take place in the charging tent.
- **PT 6.3.2** All teams that are allowed to enter on Sunday 27-07-2025 must bring their accumulators to the charging tent by 20 :00 GMT (local time) that day. All teams that have their accumulator inspection on the same day of entering bring their accumulators directly to the accumulator inspection.
- **PT 6.3.3** If a team misses the aforementioned deadline, a penalty of 10 points is deducted of its overall score for every commenced 12 hours up to a maximum total of 30 penalty points.
- **PT 6.3.4** The team has to register the accumulator delivery at the charging tent.

#### PT 6.4 Location

- **PT 6.4.1** Technical inspection will take place in all locations as seen in figure 3. The layout will change depending on the events taking place at a given day. By default, the practice area is the dynamic area near to the Tech. Inspection tent.
  - **28-07-2025**, **29-07-2025** and **30-07-2025**: as seen on figure 3. Brake 1 will be the only designated brake test area.



- 31-07-2025: Tech. Inspection will run at reduced capacity due to on-going dynamic events. During the Skidpad/Acceleration events, there will be no Practice Area and the brake test will move to the Brake Test 2 area. The practice area shall be re-opened after these events.
- 01-08-2025: Day of the Endurance event. There is no planned technical inspection. Any requests shall be evaluated on a case-by-case basis.

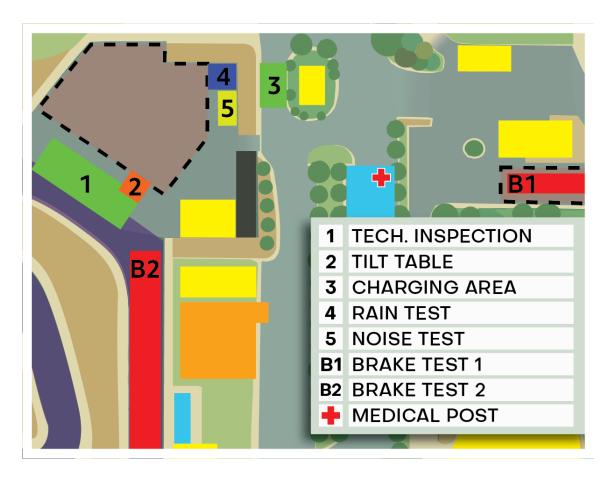


Figure 3: Technical Inspection Map

- **PT 6.4.2** Access to technical inspection shall be enforced as per FS Rules D1.2.
- **PT 6.4.3** If a team does not arrive within 10 minutes of the start of the assigned scrutineering slot, this slot shall be converted into a re-scrutineering slot.

## PT 6.5 Charging [EV ONLY]

- **PT 6.5.1** The charging area is a separated dynamic area including separate entrance restrictions.
- **PT 6.5.2** Only three members per team may enter the charging area at the same time. One of them must be a Electrical System Officer (ESO) or Autonomous System Responsible (ASR), respectively.
- PT 6.5.3 Inside the charging area, team members must not wear any conductive

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jewelry and must not wear any conductive objects of any kind which could come into contact with any part of the accumulator.

**PT 6.5.4** 400 V, 50 Hz, 3-phase CEE charging connectors (3L+N+PE 6h) with 16A and 32A as well as 230V, 50Hz, single-phase CEE 7/3 "Schuko" are available in the charging area.

## PT 6.6 Fueling [CV ONLY]

- **PT 6.6.1** 98RON and E85 will be made available during the event. Teams may request officials to fill up their tank at any time. Safety precautions must be taken during this procedure.
- **PT 6.6.2** Teams should arrive to the FSPT 2025 Event with an empty fuel tank. It will not be possible to empty the fuel tank in the FSPT pits.

### PT 6.7 Driver Registration

**PT 6.7.1** Driver registration will take place during the pre-inspection at the technical inspection tent. All drivers must have their government issued driver's license and national ID card as well as their student ID ready for inspection.

## PT 6.8 Chassis Identification (FS Rule A2.2.2)

**PT 6.8.1** All chassis that do not bear a stamp mark of their first event will be marked with "PT25" on their front hoops. Teams with monocoque chassis are required to prepare an area as per the following reference.

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# PT 6.9 Technical Inspection Schedule

#	Team	Mechanical	Accumulator	Electrical	Pre-Inspection
E121	E-Team Squadra Corse	28Jul 08:30-10:00	28Jul 11:50-13:20	28Jul 14:30-16:00	29Jul 08:30-09:10
E25	EUSS Motorsport	28Jul 14:30-16:00	28Jul 11:50-13:20	28Jul 16:10-17:40	29Jul 09:20-10:00
E67	Team Bath Racing Electric	28Jul 16:10-17:40	28Jul 08:30-10:00	28Jul 14:30-16:00	28Jul 18:40-19:20
E57	Eni Metz Racing Team	28Jul 14:30-16:00	28Jul 11:50-13:20	28Jul 16:10-17:40	29Jul 11:00-11:40
E320	Formula Student FEUP	28Jul 08:30-10:00	28Jul 10:10-11:40	28Jul 16:10-17:40	28Jul 11:50-12:30
E5	ISEL Formula Student	28Jul 16:10-17:40	28Jul 10:10-11:40	28Jul 17:50-19:20	29Jul 10:10-10:50
E24	LART	28Jul 11:50-13:20	28Jul 10:10-11:40	28Jul 16:10-17:40	28Jul 08:30-09:10
E74	Formula Student Vitoria	28Jul 08:30-10:00	28Jul 10:10-11:40	28Jul 17:50-19:20	28Jul 14:30-15:10
E65	PHISEC Racing	28Jul 10:10-11:40	28Jul 11:50-13:20	28Jul 17:50-19:20	29Jul 10:10-10:50
E73	TecnoCampus Motorsports	28Jul 16:10-17:40	28Jul 08:30-10:00	28Jul 14:30-16:00	28Jul 17:50-18:30
E50	FST Lisboa	28Jul 14:30-16:00	28Jul 08:30-10:00	28Jul 17:50-19:20	28Jul 16:10-16:50
E52	Prom Racing	28Jul 11:50-13:20	28Jul 08:30-10:00	28Jul 14:30-16:00	28Jul 11:00-11:40
C314	UVigo Motorsport	28Jul 10:10-11:40	-	-	28Jul 09:20-10:00
C13	Marseille Racing	28Jul 16:10-17:40	-	-	29Jul 08:30-09:10
C14	UJI Motorsport	28Jul 11:50-13:20	-	-	28Jul 10:10-10:50
C296	U Motorsport	28Jul 10:10-11:40	-	-	28Jul 15:20-16:00
C212	Formula Gades	28Jul 11:50-13:20	-	-	29Jul 09:20-10:00
C240	UNEX Motorsport	28Jul 08:30-10:00	-	-	28Jul 12:40-13:20
S510	ISEL Senior	28Jul 10:10-11:40	-	-	28Jul 17:00-17:40



## PT 7 Static events

**PT 7.0.1** All topics not specifically covered in this document or other official Formula Student Portugal document default to the Formula Student rules.

## PT 7.1 Design Scoring

**PT 7.1.1** The Engineering Design event will be scored according to the following distribution:

Expertise	Points EV/CV	Points DC
Autonomous Systems	10	50
Aerodynamics and Cooling	20/10*	15/5*
Electronics	20	15
Powertrain	20/25*	15/20*
Mechanical/Structural	25	15
Technical Management	20	15
Vehicle Dynamics and Suspension	25/30*	15/20*
Engineering Design Report	10	10
TOTAL	150	150

Table 6: Engineering Design event scoring distribution (\*Team's with no downforce producing aerodynamic devices)

## PT 7.2 BPP Scoring

**PT 7.2.1** The Business Plan Presentation event will be scored according to the following distribution:

Expertise	Points
Pitch Video	10
Novelty+Content	30
Finances	10
Deep Dive Topic	10
Demonstration and Structure	15
Delivery	10
Questions	10
General Impressions	5
TOTAL	100

Table 7: Business Plan Presentation scoring distribution.



## PT 7.3 Cost Scoring

**PT 7.3.1** The Cost and Manufacturing event will be scored according to the following distribution:

Expertise	Points
BOM	5
CCBOM	40
Format and Accuracy of Documents	5
Cost Understanding	25
Real Case	25
TOTAL	100

Table 8: Cost and Manufacturing scoring distribution

## PT 7.4 Design Procedure

- **PT 7.4.1** The duration of the Engineering Design Event will be 50 min divided in the following manner:
  - Introduction of the team, team members and goals for the season (3-5 min)
  - Q&A session divided by areas of expertise as per PT 7.1.1 (40-42 min)
  - Brief overall feedback (5 min)
- **PT 7.4.2** Teams may bring any material (including digital) that they believe helps to support their design presentation.
- **PT 7.4.3** At each instant no more than 12 team members (15 for teams enrolled as DV) can be in the delimited "Judging Area"
- **PT 7.4.4** An unlimited number of top teams may be chosen by the head of the Engineering Design event to participate in the Engineering Design finals to determine the Engineering Design event winner.
- **PT 7.4.5** The Engineering Design finals will be held separately from the initial judging. Teams will be informed about their participation during the event.
- **PT 7.4.6** Information about the Engineering Design Event documents submission will be sent to the teams at a later date.

#### PT 7.5 BPP Procedure

- **PT 7.5.1** The duration of the Business Plan Presentation will be 15 min divided in the following manner:
  - BP Presentation (10 min)

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- Q&A Session (5 min)
- **PT 7.5.2** All team members participating in the BPP should be presented to the Judges.
- **PT 7.5.3** Any team member participating in the BPP can answer questions during the Q&A session even if they did not present.
- **PT 7.5.4** An unlimited number of top teams may be chosen by the head of the BPP event to participate in the BPP finals to determine the BPP event winner.
- **PT 7.5.5** The BPP finals will be held separately from the initial judging. Teams will be informed about their participation during the event.
- **PT 7.5.6** BPP finals sessions will be hosted in public sessions.
- **PT 7.5.7** Information about the Business Plan Presentation event documents submission will be sent to the teams at a later date.

#### PT 7.6 Cost Procedure

- **PT 7.6.1** The duration of the Cost and Manufacturing Event will be 50 min divided in the following manner:
  - Introduction of the team, team members and goals for the season (3 min)
  - BOM Discussion (25 min)
  - Cost Understanding (10 min)
  - Real Case (10 min)
  - Brief overall feedback (2 min)
- **PT 7.6.2** Teams may bring any material (including digital) that they believe helps to support their cost presentation.
- **PT 7.6.3** If CRD brought to the event discussion as hard copy, the pages must be in a ring binder or folder with DINA4 pages or similar.
- **PT 7.6.4** The BOM and CCBOM is to be created using the FSG Cost Report tool. The whole Cost Report is then to be exported using the corresponding "PDF Export" function in the Cost Report tool.
- **PT 7.6.5** The use of excel or other programmes to create BOM and CCBOM is prohibited. The FSAE format is also not permitted.
- **PT 7.6.6** The CCBOM must be created for the system "Steering System".
- **PT 7.6.7** FSPT defines "processes" as follows: Processes are the operations necessary to produce the "part" out of the "material", create assemblies out of parts and assemble it to the vehicle.
- **PT 7.6.8** A changelog of the changes on the vehicle since the submission deadline of the CRD can be presented at the BOM discussion to the judges. Missing parts of

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the BOM cannot be part of the changelog. The changelog must be a printed table which must be handed out to the judges at the beginning of the judging.

- **PT 7.6.9** Changes to the vehicle that were made as a result of direct requests from officials at the Tech Inspection do not have to be documented in the changelog. Instead, the Inspection Sheet can be shown as proof.
- **PT 7.6.10** The cost and emissions explanation file must not exceed 20 pages of content. A title page and a table of contents page as well as an appendix may additionally be added. The appendix may only list input values (e.g. the price for 1kg of aluminium). It must not contain any calculations.
- **PT 7.6.11** Besides PT 7.6.10, there are no rules regarding the style of the CEEF other than it should be a comprehensive explanation of the assumptions and calculations that were used to derive for example the material costs or labour costs used in the CCBOM. Additionally it should also contain which specific cost figures were used, e.g. the cost of one machine operation hour. The methodology used for determining the Global Warming Potential (GWP) in CO2e also needs to be explained. The specific carbon emission factors associates with e.g one material type need to be included.
- **PT 7.6.12** An unlimited number of top teams may be chosen by the head of cost event to participate in the cost and manufacturing finals to determine the cost and manufacturing event winner.
- **PT 7.6.13** The cost and manufacturing finals will be held separately from the initial judging. Teams will be informed about their participation during the event.
- **PT 7.6.14** Regading C1, all documents should be submitted as pdf files with the following filenames:
  - BOM and CCBOM: BOM\_CCBOM\_#(CARNUMBER).pdf
  - Support Material File: SMF\_#(CARNUMBER).pdf
  - Cost and Emission Explanation File: CEEF\_#(CARNUMBER).pdf
  - Real Case Hand-Out: RHC\_#(CARNUMBER).pdf
- **PT 7.6.15** Regading C2, all documents should be submitted as pdf files with the following filenames:
  - BOM and CCBOM: BOM\_CCBOM\_CLASS2#(CARNUMBER).pdf
  - Support Material File: SMF\_CLASS2#(CARNUMBER).pdf
  - Cost and Emission Explanation File: CEEF\_CLASS2#(CARNUMBER).pdf
  - Manufacturing Plan: MP\_CLASS2#(CARNUMBER).pdf

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## PT 7.7 Statics Schedule

#	Team	DESIGN	COST	BPP
E121	E-Team Squadra Corse	28Jul 16:20	28Jul 17:50	28Jul 10:30
E25	EUSS Motorsport	28Jul 17:50	28Jul 10:30	28Jul 14:00
E67	Team Bath Racing Electric	28Jul 10:30	28Jul 12:00	28Jul 11:30
E57	Eni Metz Racing Team	29Jul 09:00	28Jul 17:50	28Jul 10:50
E320	Formula Student FEUP	28Jul 17:50	29Jul 09:00	28Jul 12:40
E5	ISEL Formula Student	28Jul 12:00	29Jul 09:00	28Jul 15:00
E24	LART	29Jul 10:10	29Jul 09:00	28Jul 14:20
E74	Formula Student Vitoria	29Jul 10:10	28Jul 16:20	28Jul 16:00
E65	PHISEC Racing	28Jul 15:10	28Jul 14:00	28Jul 16:20
E73	TecnoCampus Motorsports	28Jul 10:30	28Jul 12:00	28Jul 14:00
E50	FST Lisboa	28Jul 12:00	29Jul 10:10	28Jul 11:30
E52	Prom Racing	29Jul 09:00	29Jul 10:10	28Jul 16:20
C314	UVigo Motorsport	28Jul 14:00	28Jul 15:10	28Jul 12:40
C13	Marseille Racing	28Jul 12:00	28Jul 10:30	28Jul 15:20
C14	UJI Motorsport	28Jul 15:10	28Jul 17:50	28Jul 10:50
C296	Ü Motorsport	28Jul 16:20	28Jul 14:00	28Jul 12:20
C212	Formula Gades	28Jul 17:50	28Jul 16:20	28Jul 14:20
C240	UNEX Motorsport	29Jul 09:00	28Jul 15:10	28Jul 10:30
22	Nexus UA Motorsports	30Jul 10:00	30Jul 11:20	28Jul 17:00
95	FSUMinho	30Jul 10:00	30Jul 11:20	28Jul 17:20
52	Formula Student ISEP	30Jul 10:00	30Jul 11:20	28Jul 18:00
240	LART C2	30Jul 11:20	30Jul 10:00	28Jul 17:00
7	Nova Formula Student	30Jul 11:20	30Jul 10:00	28Jul 18:00
TBD	UTRON Racing Team	30Jul 11:20	30Jul 10:00	28Jul 17:20



## PT 8 Dynamic events

## PT 8.1 Track Open

- **PT 8.1.1** An "OPEN" or "CLOSED" sign at the entrance of each Dynamic Event will indicate whether the session is active.
- **PT 8.1.2** Teams with a Green Flag or a GO signal before the Closing Time can complete their run. Additional runs are allowed immediately after Closing Time.
- **PT 8.1.3** Re-runs are permitted if necessary after Closing Time.
- **PT 8.1.4** From 30 min up to 5 min before the starting time of each session, each track will be open for a course walk.

## PT 8.2 Behavior Inside Dynamic Area

- **PT 8.2.1** Equipment that can't be carried by one team member is allowed only in inspection and preparation areas, not in dynamic event queues.
- **PT 8.2.2** Once the vehicle moves under its power, team members in the dynamic area must wait in their designated area until the run concludes.
- **PT 8.2.3** After the run, the vehicle must be promptly collected at the exit by two team members using the push bar.
- **PT 8.2.4** The ASR designated area will have a raised platform for better track and vehicle visibility.

## PT 8.3 Event Participation Limits and Procedures

- **PT 8.3.1** Each team is allowed 4 Manual runs and 2 Driverless runs for the Acceleration and Skidpad events.
- **PT 8.3.2** For Driverless runs, if the vehicle does not enter "AS Ready" state within 3 min after being staged, the team may be sent back to the preparation area by the officials. In this case any priority is lost.
- **PT 8.3.3** Each team is allowed to register up to 6 drivers.

## PT 8.4 Track Layout and Characteristics

- **PT 8.4.1** Autocross and Endurance Tracks may have non-straight Slaloms with 7.5m to 15m spacing between cones.
- **PT 8.4.2** Each lap of Driverless Autocross and Trackdrive may exceed 500m.
- **PT 8.4.3** The total distance of Trackdrive won't exceed 5000m.



## PT 8.5 Track Markings and Delimiters

- **PT 8.5.1** Laser Timing Gates will be used for all dynamic events.
- **PT 8.5.2** Cones mark the track limits, with blue cones on the left, yellow cones on the right, and orange cones for entry, exit and stopping lanes.
- **PT 8.5.3** The maximum distance between two consecutive cones is 5m.
- **PT 8.5.4** Big orange cones mark start, finish, and timekeeping lines.
- **PT 8.5.5** Cones used are specified in Table 9.
- **PT 8.5.6** Start and finish lines are marked with white paint.
- **PT 8.5.7** There may be track limit lines, except for Acceleration and EBS-test, marked with yellow or white paint.
- **PT 8.5.8** The position of each individual cone will be marked on the ground, for reference of DOO.
- **PT 8.5.9** Officials may draw lines on the ground, which may not be perfect or continuous.
- **PT 8.5.10** Other markings on and around the track, such as those from the Kartodromo de Castelo Branco's infrastructure or previous events, may be present. These markings can have different sizes and colors and cannot be removed or altered by officials.
- **PT 8.5.11** Spare cones may be stacked and standing at the trackside at a recognizable distance.
- **PT 8.5.12** Timekeeping equipment may be surrounded by cones outside the track boundary.
- **PT 8.5.13** No special artificial landmarks are provided by officials. The team must not place additional landmarks on the track or inside the dynamic area. No map data is provided by the officials.

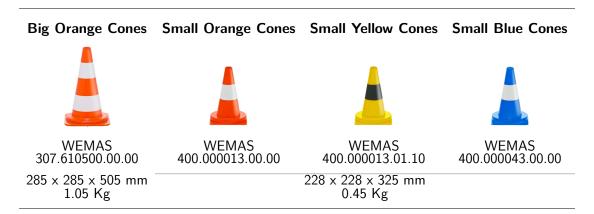


Table 9: Track delimiting cones.

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## PT 8.6 Endurance Running Order

- **PT 8.6.1** The running order for Endurance will be published at the end of the day before the event, according to FS Rules D7.3.
- **PT 8.6.2** At least the next three vehicles in the running order must be in the queue during the endurance.
- **PT 8.6.3** Vehicles must continuously fill the queue.
- **PT 8.6.4** A vehicle is defined as running out of order and penalized according to FS Rules D9.2.1 if it is missing from the queue, i.e. if there is at least one vehicle within the first 3 positions in the queue that has a later running order place.
- **PT 8.6.5** Running out of order is only possible at the end of the session, if still within the Event Slot.

## PT 8.7 Trackdrive Running Order

- **PT 8.7.1** The running order for Trackdrive will be published before the start of the session, according to FS Rules D8.2.
- **PT 8.7.2** At least the next vehicle in the running order must be in the queue during the trackdrive.
- **PT 8.7.3** Vehicles must continuously fill the queue.
- **PT 8.7.4** A vehicle is defined as running out of order if it is missing from the queue, i.e. if there is at least one vehicle ahead in the queue that has a later running order place.
- **PT 8.7.5** Vehicles out of order will be moved to the end of the order and will only run if still within the Event Slot indicated in PT 4.7.

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## PT 9 Class 2

#### PT 9.1 Overview

- **PT 9.1.1** The Class 2 competition is composed of 3 different static events: Engineering Design(150pts); Business Plan Presentation(100pts); Cost and Manufacturing (100pts).
- **PT 9.1.2** A rulesbook will be published with all necessary details regarding the Class 2 competition.
- **PT 9.1.3** Class 2 teams may have a dedicated pit slot.
- **PT 9.1.4** As specified in PT 3.1.8, C2 teams are strongly encouraged to produce and upload the IAD, SES, SE3D and ESF documents according to the deadlines specified in table 3 in order to take full advantage of FSPT. No penalty will be given to teams that do not submit these documents.
- **PT 9.1.5** Class 2 teams are encouraged to bring already manufactured parts or subassemblies. A special scrutineering session may be requested by a C2 team. In case a team brings an EV powertrain (complete or partially complete) then they must also comply with IN3.2.2.



## PT 10 Senior Cup

#### PT 10.1 General Info

- **PT 10.1.1** In FSPT 2025 SC teams are expected to only compete in Dynamic events.
- **PT 10.1.2** There will be no split between Electric Vehicles (EV) and Combustion Vehicles (CV) for scoring.
- **PT 10.1.3** FSPT 2025 SC will follow the FS rules on a case-by-case basis. Submission of design documents such as the SES, IAD, ESF or similar might be requested following the same principle. Example: if the competing vehicle is from 2015, the 2015 FS rules shall apply. Whenever in conflict with the FS Rules from the year the vehicle was first meant to compete in, this ruleset will supersede it. The FSPT 2025 SC chapter of the handbook is to be considered part of the rules.
- **PT 10.1.4** FSPT 2025 SC scoring will be based on the FS Rules in a way that will lead to the same maximum 1000 overall points.
- **PT 10.1.5** The teams will be sorted according to the age of their vehicle. The older will get precedence in the scrutineering queue.
- **PT 10.1.6** Whenever there is a clear relationship between any SC team and any C1 team, the two shall be considered as entirely different teams.
- **PT 10.1.7** No SC team member may be an active member of any Formula Student team.
- **PT 10.1.8** SC team members may only work on SC vehicles. In a similar fashion, C1 and C2 team members may only work on C1 and C2 vehicles, respectively. A breach of this rule may lead to penalty and/or disqualification of the member(s) and/or team(s).
- **PT 10.1.9** There will be no static events for SC teams.
- **PT 10.1.10** SC team members may volunteer for the role of C1 and C2 judge. If a SC team member decides to be a judge, he/she will not be allowed to enter any scrutineering dynamic area for the first three days of the event (starting on the 28th of July).
- **PT 10.1.11** Participation in any Special Awards is compulsory. There is a disadvantage if a team decides not to bring something extra to the table. Formula Student Portugal reserves the right to judge SC teams. The more patina, the better. You are invited to show the new kids on the block who was and still is the boss. Make your presence be felt and show the current generation what is the true meaning of being part of a racing team. Be creative!

## PT 10.2 Technical Inspection

- **PT 10.2.1** Vehicles shall be submitted to the regular format of scrutineering, i.e. accumulator, electric system, mechanical, noise, tilt, rain and brake tests.
- **PT 10.2.2** A modified technical inspection procedure shall apply for all SC vehicles. Checks will be relaxed when compared to the most recent technical inspection stan-

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dards for accumulator, electrical and mechanical inspections. A special emphasis shall nonetheless be given to the safety critical components and systems.

- **PT 10.2.3** [EV ONLY] All SC EV teams must follow ruleset A4.3 from the 2025 FS rules. A4.3.4 and A4.3.8 shall be waived for the SC competitors. ESO nomination shall be done during the online team-member registration procedure. Because A4.3.8 is waived, a liability agreement will be presented for signature at the event.
- **PT 10.2.4** [EV ONLY] TSAL logic and color scheme will be evaluated according to the year of the respective vehicle. Teams must present a summary of how the operating principle differs from the one described in the 2025 FS Rules section EV4.10.
- **PT 10.2.5** [CV ONLY] Vehicles equipped with an Electronic Throttle Control (ETC) shall have it inspected during mechanical inspection. Part of the inspection will be held in the engine test area and shall focus on the electric operation of ETC.
- **PT 10.2.6** Vehicles must be equipped with a BSPD compliant with the 2025 FS Rules T11.6. A template circuitry can be found on the FSG website.
- **PT 10.2.7** All starting vehicles must submit a VSV according to 2025 FS Rules subsections A5.6.1 and A5.6.3. The deadline shall coincide with the one for C1.
- **PT 10.2.8** All used tires must be used according to manufacturers recommendations, i.e. follow minimum tread and maximum age requirements.

## PT 10.3 Dynamic Events

- **PT 10.3.1** Contrary to what was used for the technical part, dynamic area rules shall follow the 2025 FS Rules chapter D.
- **PT 10.3.2** Driver equipment may only be changed between teams outside of the dynamic area.
- **PT 10.3.3** Only drivers which have passed the egress test will be allowed to compete.
- **PT 10.3.4 Acceleration & Autocross:** One glory run will be allowed per team, i.e. no power restrictions shall apply. This will only be allowed for the second run of the second driver.
- **PT 10.3.5** C1 teams will be given preference in all dynamic events (except endurance), irrespective of which run they are on. Please make sure to queue up with enough time to spare. SC vehicles will be the first to run for the Endurance event.

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## PT 11 Special Awards

Participation in Special Awards is voluntary. There is no disadvantage if a team decides not to take part. In some cases, prize money is awarded to the best teams.

## PT 11.1 Plascore IAD Special Award

- **PT 11.1.1** Formula Student Portugal, in partnership with Plascore GmbH & Co. KG, proudly presents the IAD Special Award. This award acknowledges teams' commitment to safety and excellence in the detailed preparation of IAD documentation.
- **PT 11.1.2** Participation in FS Portugal and submission of the IAD documentation via the FSG website automatically qualifies each team for the Special Award.
- **PT 11.1.3** Further information is published in a separate PDF.



## PT 12 Officials

#### PT 12.1 Color-Code

FSPT officials are easily recognisable through the color of polo shirts used:

- White shirts Core organization
- Yellow shirts Logistics team (also known as FSPT minions)
- Blue shirts Static event team
- Green shirts Scrutineering team

## PT 12.2 Core Organization

The names and roles of the core organization are shown in table 10. Any questions or clarifications should be sent to geral@formulastudent.pt.

White shirt	Role
André Santos	Head of Event
António Bento	Head of Scrutineering
Inês Viveiros	Head of Logistics
João Rego	Head of Marketing
Luís Abreu	Head of Dynamics
Pedro Neves	Head of Statics
Pedro Marques	Head of Sponsors
Pedro Oliveira	Head of Finance
Ricardo Ferreira	Minister of Foreign Affairs

Table 10: White shirts and respective roles.



# PT 13 Overall Event Schedule

2nd August				Truck Loading	Clean-up																						
igust	iefing	riefing								Parc Fermé						acione de de	eubach session									mony Dt 2	IIIOIII) FLZ
1st August	Team Briefing					Endurance							Team Captains feedback session												Award Coromony Dt 2	Awalu Cele	
uly	fing Skid-Pad														D					<b>,</b>	<				Dt 1	I Julia Fit I	
31st July	Team Briefing		Acceleration											Trackdrive					Auto-X							Award Ceremony Ft.	
														Faculty Advisors	Round Table	@ ISO											
30th July	Team Briefing	Team Briefing						oz Designicost										Statics	Feedback	Session				VO V OV	AG V-OIDV		
							Inspection							Technical						-							
July	riefing				Static Events				O INIVIO	DFF FINALS	C Design							C1 Design	Finals		C1 Cost	Finals					
29th July	Team Briefing		•			Technical	Inspection		•								Technical	Inspection						Night Photoshoot			
uly	iefing	Static Events Static Events											hoto														
28th July	Team Briefing Team Briefing Technical Inspection Static													Technical										Event Photo			
uly																	Verina	B AIIIV							, and and and	diemony	
27th July	Truck Unloading Pit Setup													Wolcomo Coromony	Melcolle												
Slot End	08:30	00:60	06:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00 T	17:30	18:00	18:30	19:00	19:30	20:00	20:30	21:00	
Slot Start Slot End	08:00	08:30	00:60	06:60	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30	19:00	19:30	20:00	20:30	

Figure 4: Overall Event Schedule