

FORMULA STUDENT
PORTUGAL



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Contents

Changelog	1
Abbreviations	2
Introduction	3
PT 1 General Information	4
PT 1.1 Competition Categories	4
PT 1.2 Applicable Rules	4
PT 1.3 Announcements	4
PT 1.4 Dates and Places	4
PT 1.5 Emergency Information	5
PT 2 Registration	6
PT 2.1 Available Slots	6
PT 2.2 Reserved Slots	6
PT 2.3 [C1, C2] Team Registration	6
PT 2.4 [Senior Cup] Team Registration	7
PT 2.5 Team Registration Fee	8
PT 2.6 Waiting List	8
PT 2.7 De-Registration	9
PT 2.8 Vehicle Identification	9
PT 2.9 No Driverless Events	9
PT 2.10 Team Member and Camping Registration	9
PT 2.11 Deposits	10
PT 2.12 Visitors	10
PT 2.13 Faculty Advisors	11
PT 3 Important Dates	12
PT 3.1 Deadlines	12
PT 4 During the event	13
PT 4.1 Helpful Locations	13
PT 4.2 Upon Arrival	14
PT 4.3 Venue Map	15
PT 4.4 Race Control	15
PT 4.5 General Rules and Guidelines	15
PT 4.6 Schedule	16
PT 4.7 Event Shop	17

PT 4.8 Team Photo	17
PT 4.9 Event Photo	17
PT 4.10 Morning Briefings	17
PT 4.11 Protest Procedure	18
PT 5 Campsite	19
PT 5.1 Upon Arrival	19
PT 5.2 General Rules	19
PT 5.3 Cooking Area	19
PT 5.4 Dishwashing	20
PT 6 Technical Inspection	21
PT 6.1 Technical Inspection Sticker	21
PT 6.2 Data Loggers [EV ONLY]	21
PT 6.3 Accumulator Inspection [EV ONLY]	21
PT 6.4 Location	21
PT 6.5 Charging [EV ONLY]	22
PT 6.6 Fueling [CV ONLY]	22
PT 6.7 Driver Registration	23
PT 6.8 Schedule	23
PT 7 Static events	24
PT 7.1 Design Scoring	24
PT 7.2 BPP Scoring	24
PT 7.3 Cost Scoring	25
PT 7.4 Design Procedure	25
PT 7.5 BPP Procedure	25
PT 7.6 Cost Procedure	26
PT 7.7 Schedule	28
PT 8 Dynamic events	29
PT 8.1 Track Open	29
PT 8.2 Behavior Inside Dynamic Area	29
PT 8.3 Event Participation Limits and Procedures	29
PT 8.4 Track Layout and Characteristics	29
PT 8.5 Track Markings and Delimiters	30
PT 8.6 Endurance Running Order	31
PT 8.7 Trackdrive Running Order	31
PT 9 Class 2	32

PT 9.1 Overview	32
PT 10 Senior Cup	33
PT 10.1 General Info	33
PT 10.2 Technical Inspection	33
PT 10.3 Dynamic Events	34
PT 11 Special Awards	35
PT 11.1 Hydrogen Concept Challenge	35
PT 12 Officials	36
PT 12.1 Color-Code	36
PT 12.2 Core Organization	36
PT 13 Overall Event Schedule	37

Changelog

Rule	Version	Date	Change
All	1.00	23/12/2024	First release.

Abbreviations

ASES Accumulator Structural Equivalency Spreadsheet.

ASF Autonomous System Form.

ASR Autonomous System Responsible.

ASRQ ASR Qualification.

BPPV Business Plan Pitch Video.

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.

FSG Formula Student Germany.

FSPT Formula Student Portugal.

GMT Greenwich Mean Time.

IAD Impact Attenuator Data.

SC Senior Cup.

SE3D Structural Equivalency 3D Model.

SES Structural Equivalency Spreadsheet.

SESA SES Approval.

VSV Vehicle Status Video.

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  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 conflict, 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 27th of July to the 1st 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.

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
C1	TOP 3 2024 EV	3
	TOP 3 2024 CV	3
	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:

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 31st 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 31st 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 1st 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 3rd 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 28th of February.

PT 2.3.8 The Quiz results will only reserve the team's slot until the 7th 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 7th 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 7th 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

- 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€ (+VAT, if applicable) must be paid within the deadline.

PT 2.5.2 Upon registration in C2, a fee of 750€ (+VAT, if applicable) must be paid within the deadline.

PT 2.5.3 Upon registration in the Senior Cup, a fee of 900€ (+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€ (+VAT, if applicable), following slots are 900€ (+VAT, 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

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 27th 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 1st 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 2.9 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€ (+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 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 1st 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 1st 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 15th 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 4.4 section.

PT 2.10.7 The team member registration fee after the deadline in PT 2.10.5 is 100€ (+VAT, if applicable).

PT 2.10.8 The camping fee after the deadline in PT 2.10.5 is 70€ (+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€. 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. Alternatively, teams may request to pay the deposits by bank transfer before the 21st of July 2025.

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 1st 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

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 encouraged to upload these documents which will be reviewed by the same 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 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 captain. 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.

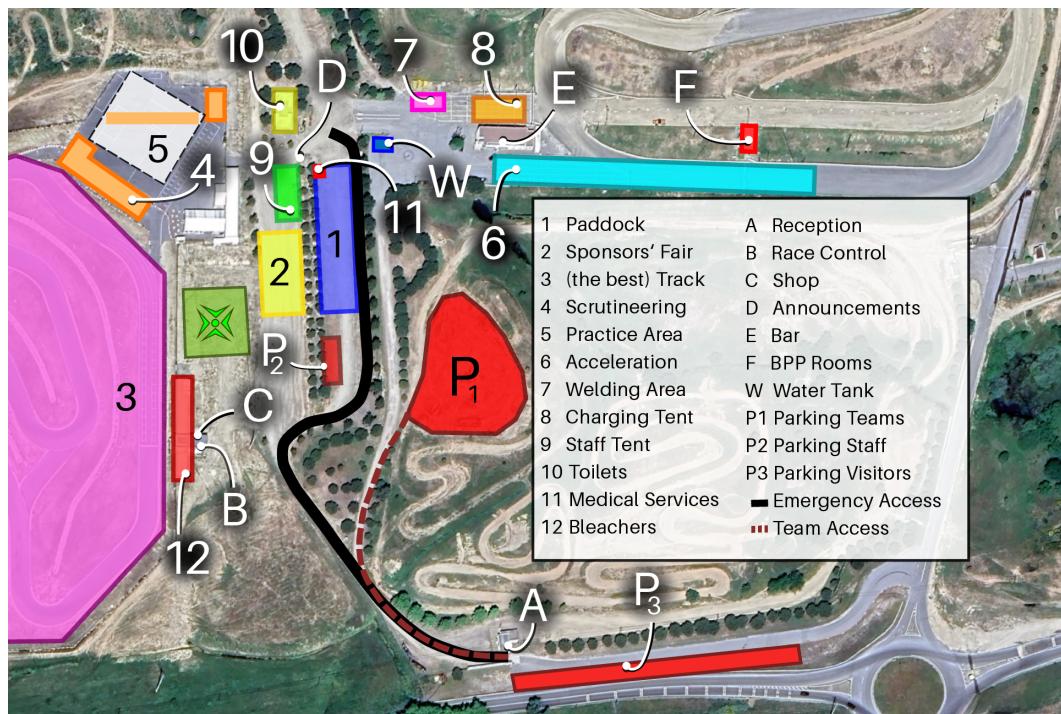


Figure 1: Venue Map

PT 4.4 Race Control

PT 4.4.1 Only cash payments are accepted at the race control. This is also valid for the payment of deposits.

PT 4.4.2 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 4.4.3 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 4.5 General Rules and Guidelines

PT 4.5.1 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/l, 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/l will result in the entire

team being disqualified.

PT 4.5.2 Alcohol is allowed at the camping site.

PT 4.5.3 Use of motorcycles, quads, bicycles, skateboards, or rollerblades in the event site is prohibited.

PT 4.5.4 Working on the vehicle or any hardware systems required for its safe 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 4.5.5 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 4.5.6 Only people identified with the competition badge can enter the venue.

PT 4.5.7 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 responsibility for the availability of more than 2 parking spaces per team, around the venue there is parking space that can be used.

PT 4.5.8 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 4.6.

PT 4.5.9 No cleaning will be performed in the teams pits during the event.

PT 4.5.10 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 4.6 Schedule

PT 4.6.1 The Race Control will open on the 27th of July from 14:00 to 20:00. Between the 28th of July and 31st of July from 8:00 to 20:00. And on the 1st of August from 8:00 to 13:00.

PT 4.6.2 The shop will be open every day of the event, from 8:00 to 20:00.

PT 4.6.3 The bar will close everyday at 20:00.

PT 4.6.4 The reception will open on the 27th of July from 13:00 to 20:00 and on the remaining days from 8:00 to 20:00.

PT 4.6.5 Campsite will open on the 27th of July from 14:00 and stay open until the 2nd of August at 12:00.

PT 4.6.6 The campsite cooking areas will open on the 27th 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 2nd of August.

PT 4.6.7 Paddock and Charging Area powered by Vestas will open on the 27th 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 2nd at 11:00.

PT 4.6.8 Welding Area will open on the 27th 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 4.7 Event Shop

PT 4.7.1 There will be a shop on the venue dedicated to selling FSPT merchandising, electrical and mechanical components, and other supplies.

PT 4.7.2 The shop will be located at the Race Control.

PT 4.8 Team Photo

PT 4.8.1 Each team will have a dedicated slot on their schedule to perform a team photo.

PT 4.8.2 The team photos will be performed in a special area of the paddock tent.

PT 4.8.3 Teams must show up with their car (class 2 teams can bring any sort of models that represent their car), their team members and are encouraged to bring materials with their logos and branding.

PT 4.8.4 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 4.8.5 Teams which fail to show at the right time slot might be asked to take the photo on an unscheduled time slot.

PT 4.9 Event Photo

PT 4.9.1 There will be an Event Photo, with all teams, on July 29th at 18:30, this event photo is mandatory for every team.

PT 4.9.2 Teams must show up with their car, their team members and are encouraged to bring materials with their logos and branding.

PT 4.9.3 Teams that fail to participate on the event photo are penalized with 50 points.

PT 4.10 Morning Briefings

PT 4.10.1 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 4.10.2 Morning briefing will take place in the Sponsor's tent from the 28th of July to the 1st of August between 8:00 and 8:30.

PT 4.11 Protest Procedure

PT 4.11.1 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 4.11.2 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 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 4.4 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 No noise is allowed in the campsite after 2am every day except for the 1st of August.

PT 5.2.3 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 electric stoves.

PT 5.2.4 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 4.6.

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 bottles and that the connections to the stoves are completely 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 equipped with 2 dishwashing areas. These are not equipped 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 responsibility 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 4.6.7.

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 2. The layout will change depending on the events taking place at a given day.

- **28-07-2025, 29-07-2025 and 30-07-2025:** as seen on figure 2. Brake 1 will be the only designated brake test area. It shall be a part of the practice area. Vehicles queueing for the Brake Test will be given priority with regards to vehicles queueing for a practice run. The Tech. Inspection tent will run at reduced capacity during 31-07-2025 due to on-going dynamic events.

- **30-07-2025:** During the Skidpad event, the Brake Test will move to the Brake 2 area. It shall be re-opened in the Brake 1 area during the Acceleration Event.
- **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 2: 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 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 Schedule

To be published, at the latest, 2 weeks before the start of the event.

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 4: 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 5: 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 6: 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)

- 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 DINA 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

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 30 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 point 11, 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 Information about the Cost and Manufacturing Event documents submission will be sent to the teams at a later date.

PT 7.7 Schedule

To be published at a later date

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 7.
- 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.

Big Orange Cones	Small Orange Cones	Small Yellow Cones	Small Blue Cones
			
WEMAS 307.610500.00.00 285 x 285 x 505 mm 1.05 Kg	WEMAS 400.000013.00.00 228 x 228 x 325 mm 0.45 Kg	WEMAS 400.000013.01.10	WEMAS 400.000043.00.00

Table 7: Track delimiting cones.

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 4.6.

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 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-

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.

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 Hydrogen Concept Challenge

PT 11.1.1 In collaboration with FS Austria, FS Alpe Adria, FS East, FS France and Formula Future a Hydrogen Concept Challenge will take place in FSPT 2025.

PT 11.1.2 The Hydrogen Concept Challenge is intended to introduce students to the topic of hydrogen. The aim is to develop concepts before vehicles with hydrogen fuel cell technology can be fully integrated into the EV and vehicles running on hydrogen can be fully integrated the CV/hybrid class.

PT 11.1.3 Further information will be published in a separate PDF at a later date. The challenge will be the same for all events offering a Hydrogen Concept Challenge.

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 8. 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 Costa	Head of Statics
Pedro Marques	Head of Sponsors
Pedro Oliveira	Head of Finance
Ricardo Ferreira	Minister of Foreign Affairs

Table 8: White shirts and respective roles.

PT 13 Overall Event Schedule

To be added at a later release.