

FORMULA STUDENT  
TÜRKİYE



COMPETITION HANDBOOK  
2025

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# **1-GENERAL INFORMATION**

## **Competition**

Formula Student Turkiye (FST) is an unofficial Formula Student competition taking place in Istanbul, Turkiye

FST 2025 will feature two categories: CV/HY and EV . The first event is scheduled to run from October 1st to 5th, 2025, at the , AUTODROM Tuzla, Istanbul. Additional details, such as the event site schedule, registration process, and more, will be announced closer to the competition date.

Teams must complete their registration on FST website.

## **Applicable Rules**

The event will be organized in compliance with the Formula Student Rules 2025, which represent the main set of guidelines for the competition. Any matters not specifically addressed in this handbook will be resolved in accordance with the Formula Student Rules 2025. Officials retain the authority to adjust the schedule or interpret and modify the competition rules as needed, at their sole discretion, to ensure the event is conducted safely and efficiently.

## **Competition Categories**

FST 2025 will host two classes:

Class 1, where teams are expected to compete in both Static and Dynamic events.

Class 2, where teams only compete in the Static events

Class 1 is further split into two categories: Electric Vehicles (EV) and Combustion and Hybrid Vehicles (CV/HY).

Teams participating in the Class 2 category will take part in static events (Business Plan Presentation, Cost & Manufacturing, Engineering Design).

It is not mandatory for teams to have a vehicle present during the event.

Team members competing in the CV/HY or EV category are not permitted to represent the team in the CC category.

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## Registration on Site

When the team arrives at the FST 2025 venue, officials will document the team's arrival and provide all necessary information regarding the next steps, including registration, parking, and unloading the trucks.

Only the Team Captain is authorized to register the team, accompanied by a maximum of one team member. As part of the initial registration process, the Team Captain must present a printed copy of the "Waiver of Liability" signed by all team members. This document will be shared with the Team Captains beforehand. By signing the "Waiver of Liability," teams confirm their acceptance of both the competition and FS Rules, acknowledge that only team members will work on the vehicle, and agree to adhere to the competition's safety guidelines.

Following registration, the Team Captain will receive a starter package containing event wristbands, the Competition Handbook, and other essentials. ESOs must present valid identification at the registration office to collect their wristbands once the team has set up in the pits. Drivers will be issued their wristbands after successfully completing the egress test.

## Registration Fee

There will be no quizzes for registration.

Registrations will be open between X and Y dates and can be completed through the FST website

Registration fees:

Class 1 (CV or EV) : € 750 + VAT  
Class 2 : € 500 + VAT

The fees are applicable for teams of up to 20 members.

If there will be two different car types like CV or EV from the same university, the registration fee must be paid separately

## DE- Registration

If a team asks to be de-registered before 14.02.2025 then a refund of 50 % will be issued. After this date there is no refund.

## Team Member and Camping Registration

After the team successfully registered, team members are also required to register in FST website.

The competition fees cover up to 20 team members. For teams exceeding 20 members, an additional camp fee of €50 + VAT per person will be charged.

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**Maximum Points Awarded**

<b>STATIC EVENTS</b>	
Business Plan Presentation	75 points
Cost and Manufacturing	100 points
Engineering Design	150 points
<b>DYNAMIC EVENTS</b>	
Skid Pad	75 points
Acceleration	75 points
Autocross	100 points
Endurance	325 points
Efficiency	100 points
<b>Overall</b>	1000 points

## 2-EVENT SITE AND ACCOMMODATION



The event will take place at the Autodrom Tuzla Circuit. A detailed map of the circuit, including the track layout and designated tent areas, will be shared in FST Handbook v1.2

## 3-IMPORTANT DOCUMENT DATES

### Deadlines

All necessary documents and information must be submitted by the specified deadlines. Each document should not exceed the maximum size limit of 40 MB.

CONTENT	DATES
REGISTRATION	03.02 - 07.03.2025
Quiz	03 - 07.02.2025
Impact Attenuator Data (IAD)	28.03.2025
Structural Equivalency Spreadsheet (SES)	28.03.2025
Structural Equivalency 3D Model (SE3D)	28.03.2025
Electrical System Form (ESF)	11.04.2025
Business Plan Pitch Video (BPPV)	20.06.2025
Business Plan Deep Dive (BPDD)	20.06.2025
Design Spec Sheet (DSS)	20.06.2025
Engineering Design Report (EDR)	20.06.2025
Electrical System Officer Qualification (ESOQ)	11.07.2025
Vehicle Status Video (VSV)	25.07.2025
Cost Report Documents (CRD)	15.08.2025
Drivers Registration (DR)	22.08.2025
Team Member Registration (TMRF)	22.08.2025
EVENT	01 - 05.10.2025

# 4-RULES AND GUIDELINES

## Event Rules

### Behaviour

The goal of FST 2025 is to ensure a safe and accident-free experience for participants, volunteers, and spectators. These guidelines have been established to inform teams about potential unsafe practices in the pit and dynamic areas and to ensure all activities are carried out safely. Any practices that pose a risk to life or health are strictly prohibited.

### Alcohol

Alcohol is strictly forbidden on the event site. There will be alcohol testing (breathalyzers) during the event.

### Trash

Teams are accountable for maintaining cleanliness in their pits during the event. Garbage containers are available in the paddock and designated areas as provided by the Organizer. It is forbidden to leave any trash after the end of the event (including broken parts, old furniture, used tires, oil, grease or other materials).

### Fires and Smoking

No open fires are allowed at the event site (except for the campsite - cooking area and unless marked otherwise). This includes BBQ grilles, oxy-acetylene torches, heaters, cigarettes, etc. Smoking is strictly prohibited in the dynamic area, all buildings, and the pit area. Smoking is permitted only in the dedicated area marked with signs.

### Fire Extinguishers

Ensure that your fire extinguishers are readily accessible at all times. All team members must be familiar with their use. It is mandatory for at least one fire extinguisher to accompany the car regardless its location.

### Working on the car

The use of angle grinders is limited to the designated welding area. Safety glasses must be worn when operating angle grinders. Eye protection is mandatory for the operation of all electrical machinery, such as drills or angle drivers. Additionally, when using metal-cutting equipment that generates metal chips, both the operator and any assisting team members must wear eye protection. For tools that produce loud noise, hearing protection is also required.



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## **Running Engines**

Engines (IC) may be run, and vehicles (EV) placed in ready-to-drive mode, only in the designated engine test area and only after passing scrutineering. Engines can be started only if the drive wheels are elevated off the ground.

## **Ready-To-Race (R2R)**

The ready-to-race condition demands that a vehicle must be fully assembled, with all the bodywork and fluids filled up to the maximum fill level, in complete and finished condition.

## **Driving Practise**

Driving practice is only allowed during the designated times in the Practice Area.

## 5-TECHNICAL AND SAFETY INSPECTIONS

### General

Vehicles must successfully complete the Technical and Safety Inspection (commonly known as Scrutineering) before being permitted to access the Engine Running Area, Practice Area, or participate in dynamic events. All vehicles, whether CV or EV, are required to pass the following inspections:

CV	EV
Pre-Inspection & Driver Egress	
Mechanical Scrutineering	Accumulator Scrutineering
	Mechanical Scrutineering
	Electrical Scrutineering (LV & HV)
Vehicle Weighing	
Tilt Test	
Noise Test	Rain Test
Brake Test	

The event technical inspection stickers will be placed on the nose of the vehicle. If a vehicle is no longer in compliance with the rules, the officials will set the vehicle's technical inspection status to fail, remove the respective inspection sticker(s) from the vehicle and note the reason for revoking the technical inspection approval in the technical inspection sheet.

## **Scrutineering**

### **Pre-Inspection**

- Must be completed before mechanical inspection.
- Conducted in the pits alongside driver egress.

### **Mechanical Scrutineering**

- Important: A maximum of four team members, including the tallest registered driver, are permitted to enter the technical inspection area.  
EV-Specific:
- The TS accumulator must be removed from the car.
- Can be done in parallel with the accumulator inspection.
- Officials have the right to inspect any vehicle at any time during the event.

### **Electrical Inspection (EV Only)**

- Divided into Low Voltage (LV) and High Voltage (HV) inspections:  
LV Inspection:
- Can be conducted in parallel to accumulator inspection or before it is passed.
- Accumulator must remain outside the vehicle during LV inspection.  
HV Inspection:
- Must be conducted after the accumulator inspection.

### **Accumulator Scrutineering (EV Only)**

- Required before HV electrical inspection.

### **Noise Test**

- BSPD system functionality will be evaluated in the noise test area.
- Upon passing, the airtightness of the intake system will be tested by sealing the inlet, ensuring the engine stalls.

### **Brake Test**

- BOTS functionality will be verified according to FS Rules 2025 (T 6.2).  
Brake system requirements:
- Must dynamically lock all four wheels simultaneously.
- Vehicle must come to a stop in a straight line at the end of a specified acceleration run.
- A half-rotation difference between front and rear axles is permitted.

## 4-STATIC EVENTS

### **Business Plan Presentation**

The goal of the BPP is to evaluate the team's ability to design and deliver a detailed business model. This model should present a product or service centered around the team's prototype vehicle or a specific component of it, showcasing a profitable business opportunity. The vehicle or its component must play a key role in the value proposition.

Judges should be approached as potential investors or partners for the proposed business model. The quality of the prototype itself will not be taken into account during BPP judging and is therefore not relevant. Presentations are limited to a maximum duration of 10 minutes, with judges halting any presentation that exceeds this time limit. Questions will not interrupt the presentation; instead, a question-and-answer session will follow immediately after the presentation.

### **Business Plan Executive Summary (BPES)**

One DIN A4 page long electronic document, single-sided, containing a summary of a Business Plan. The header/footer must include the Team name, Car #, University name, and a hyperlink to BPPV. The document can contain graphics and pictures. The intent of an BPES is to prepare the potential investors for the team's presentation and to familiarize them with the business idea. BPES should therefore contain all of the relevant information and should present the investors with all the crucial information regarding the Business Plan.

### **Business Plan Pitch Video (BPPV)**

Before the event, teams are required to submit BPPV - a concise 30-second video complying with the FSG Rules 2025. A link to the video must be in the header or footer of the BPES and must be viewable without any additional installation of software necessary for the judges (Youtube video link recommended).

### **Deep Dive Topic**

The Deep Dive Topic (DDT), which is part of the Business Plan Presentation, DDT is published on FSG website. The DDT is to be incorporated within 10-minute Business Plan Presentation conducted on-site.

## **Cost and Manufacturing Event**

The Cost and Manufacturing Event evaluates the ability of the team to manage budget and incorporate production considerations for manufacturing and efficiency.

Before the event, three Cost Report Documents (CRD) must be uploaded to the FST website by the given deadline (in one zip file).

## **Engineering Design Event**

A Design Spec Sheet (DSS) and Engineering Design Report (EDR) must be submitted online on the competition website until the required deadlines.

## 5-CONTACT INFO

**Organizer**

**Responsibility**

**Contact**

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General

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