

FORMULA  
STUDENT EAST

# EVENT HANDBOOK

AUG  
1<>6  
2023

#FSEASTAUG1<>6

RELEASE

VERSION 1.0

RELEASE DATE: 20TH OF JULY 2023

FURTHER DETAILS AT [FSEAST.EU](https://fseast.eu)

#FSEAST #FSEASTAUG1<>6



# EMERGENCY INFORMATION



## MINOR INJURY

### MEDICAL CENTRE

Please accompany the injured person to the medical centre. Emergency aid is provided there. The medical centre is available every day round the clock.



## SEVERE INJURY

### CONTACT SOMEONE WITH A TWO-WAY RADIO

Most of the officials and security have a two-way radio. Ask them to call the medical centre or an ambulance.

### CALL AN AMBULANCE YOURSELF

Call an ambulance yourself if someone is severely injured and requires urgent help. The emergency number for every landline and mobile phone is 112. (Also see information about emergency calls below.)

### DURING DYNAMICS

When the dynamic area is open, a special rescue team is on site. To contact them, ask someone with a two-way radio (official, security).



## HOSPITAL

### MAIN HOSPITAL

Pest Megyei Flór Ferenc Kórház  
Address: 2143 Kistarcsa, Semmelweis square 1.  
Phone: +36 28 507 600  
Fax: +36 28 507 648  
E-mail: flor@florhosp.hu  
Homepage: www.florhosp.hu  
(Also see directions on the next spread)



## EMERGENCY NUMBERS

If an emergency occurs outside the times of the competition, call 112. This number works with all landlines, as well as mobile phones or coin-operated telephones as international GSM-standard. It is always free of charge, but should be used only in case of emergencies.

### OFFICIALS

In case of an emergency, please call one of them, no matter what time it is.

Event Manager:	Tamás Csütörtöki	+36 30 370 0733	0-24h
Association President:	Dávid Kiss	+36 20 550 0468	0-24h
Regular emergency number:	112		0-24h

TELEGRAM  
HELPDESK  
TWO-WAY QR CODE  
[HTTPS://T.ME/+0BV3K316M-RIZTLK](https://t.me/+0BV3K316M-RIZTLK)



TELEGRAM  
ANNOUNCEMENTS  
ONE-WAY QR CODE  
[HTTPS://T.ME/+Y7AUVCTECHIWYWIO](https://t.me/+Y7AUVCTECHIWYWIO)



ROUTE TO HOSPITAL  
ON NEXT PAGE



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

1. Call for help (firefighters/ambulance) by either finding an official with a radio or calling 112.
2. Assist injured people to leave the area, provide first aid if you can.
3. Try to extinguish the fire, if this is possible without risking your own safety. If an electric consumer is on fire, first cut the power to it.
4. Leave the area and instruct others to do so as well.
5. Wait for the firefighters/ambulance to arrive.
6. Firefighters keep the situation under control, ambulance and medical professionals provide medical treatment.



## BEHAVIOUR IN CASE OF ACCUMULATOR FIRES

1. Immediately leave the area in a radius of 5 meters and instruct others to do so as well. Assist injured people to leave the area. An overheated accumulator is extremely dangerous, so do not put yourself in danger by trying to put it out.
2. Provide first aid to the injured, if you can. See the section below on what to do in case of electric shock – in any case, do NOT give the victim water or food.
3. Call for help by finding an official with a radio or by calling 112 yourself. Wait for the firefighters and ambulance to arrive, who will handle the situation.
4. Regular emergency number: 112 0-24h
5. Stay out of the way of fumes coming from the accumulator or the car; mind the wind direction.



## BEHAVIOR IN CASE OF ELECTRIC SHOCK

1. Call for medical help by finding an official with a radio or by calling 112 yourself, preferably in parallel to the steps below.
2. Notify the ESO of the team.
3. Push one of the emergency shutdown buttons and wait until the TS is off (no voltage on TSMPs and TSAL is switched off). Note that this can take up to 5 seconds, wait patiently.
4. Try to speak with the victim and ask him/her about his/her health.
5. Insulate yourself if you must move a victim away from a live contact – use a safety hook, wear dry gloves or cover your hands with multiple layers of cloth and cover potential contact paths with the car with the HV isolation blanket.
6. Watch your footing to make sure that you do not slip or fall when trying to move the victim.
7. Do not move the victim if there is a possibility of neck or spinal injuries, unless he/she is in immediate danger.
8. Do NOT give water or food to the victim.
9. Give artificial respiration if the victim is not breathing.
10. Give CPR if the victim's heart has stopped (only if you are trained in CPR) or use an Automated External Defibrillator.
11. Cover burns with a sterile dressing. On the surface, electrical burns may not look serious, but the burn can be severe deeper in the tissue.
12. Keep the victim comfortable, warm and at rest, and monitor his/her breathing until the ambulance arrives.
13. The victim might undergo ventricular fibrillation several minutes after experiencing a shock.

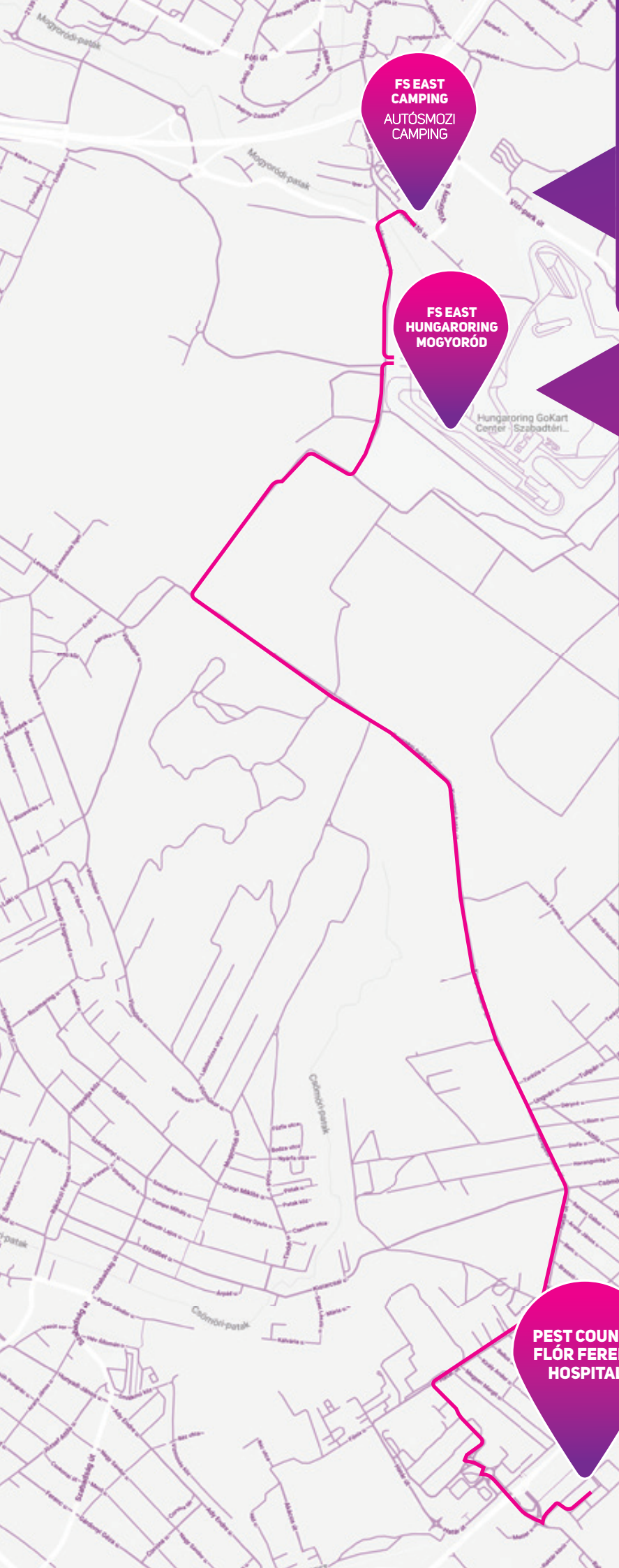


TEAMS LIST

#	Pit#	Team name	University name	Country	Drivetrain	Car#
1	3	AGH Racing	Akademia Górniczo-Hutnicza im. Stanisława Staszica w Krakowie	Poland	CV	166
2	28	Akademischer Motorsportverein Zürich	ETZ Zurich	Switzerland	EV+DV	433
3	36	Aristotle University Racing Team Electric & Driverless	Aristotle University of Thessaloniki	Greece	DV	311
4	8	Arrabona Racing Team	Széchenyi István University	Hungary	CV	179
5	18	ARUS Andalucía Racing Team	University of Seville	Spain	EV	251
6	29	BME Formula Racing Team	Budapest University of Technology and Economics	Hungary	EV+DV	414
7	8	BME Motorsport	TU Budapest	Hungary	CVH	182
8	22	Bodensee Racing Team	UAS Konstanz	Germany	EV	243
9	2	Centaurus Racing Team	University Of Thessaly	Greece	CV	177
10	37	Chalmers Formula Student	Chalmers University of Technology	Sweden	DV	303
11	7	Civis Racing Team	University of Debrecen	Hungary	CV	128
12	33	CURE Mannheim e.V.	DHBW Mannheim	Germany	DV	369
13	29	Dynamics - OTH Regensburg e.V.	OTH Regensburg	Germany	EV+DV	462
14	28	Dynamis PRC	Politecnico di Milano	Italy	EV+DV	490
15	30	e-gnition Hamburg e.V.	Technical University Hamburg	Germany	EV+DV	478
16	20	E-Team Duisburg-Essen	University of Duisburg-Essen	Germany	EV	240
17	32	Ecurie Aix	RWTH Aachen	Germany	DV	399
18	34	Einstein Motorsport - DV	UAS Ulm	Germany	DV	344
19	32	Elbflorace Formula Student Team TU Dresden e.V.	Technische Universität Dresden	Germany	DV	359
20	37	EPFL Racing Team	Ecole Polytechnique Fédérale de Lausanne	Switzerland	DV	327
21	11	Estaca Formula Team	ESTACA	France	CV	104
22	15	Formula Electric Belgium	KU Leuven	Belgium	EV	222
23	2	Formula Manipal	Manipal Academy of Higher Education	India	CV	197
24	15	Formula Student Team Delft	TU Delft	Netherlands	EV	285
25	10	Formula student Technical university of Liberec racing	Technická univerzita v Liberci	Czech Republic	CVH	169
26	9	Formula TU Ostrava	VSB Technical University of Ostrava	Czech Republic	CVH	189
27	16	Formule ETS	École de Technologie Supérieure	Canada	EV	288
28	27	FS Team Tallinn	Tallinn TU UAS	Estonia	EV+DV	424
29	17	FSB Racing Team	University of Zagreb	Croatia	EV	284
30	10	FSUPV Team TU Valencia	TU Valencia	Spain	CV+DV	595
31	21	Global Formula Racing	Oregon State University & DHBW Ravensburg	United States	EV	280
32	12	GreenTeam Uni Stuttgart	Universität Stuttgart	Germany	EV+DV	426
33	22	HAWKS RACING e.V.	Hamburg University of Applied Sciences	Germany	EV	269
34	7	High Speed Karlsruhe	UAS Karlsruhe	Germany	CVH	199
35	20	High-Octane Motorsports e.V.	Friedrich-Alexander-Universität	Germany	EV	249
36	30	KA-Racelng	Karlsruhe Institute of Technology	Germany	EV+DV	423
37	6	KEFO Motorsport	John von Neumann University	Hungary	CV	129
38	16	Lund Formula Student	Lund University	Sweden	EV	235
39	23	Mainfranken Racing e.V.	University of Applied Science Würzburg - Schweinfurt	Germany	EV	297
40	35	MoRe Modena Racing Driverless	University of Modena and Reggio Emilia	Italy	DV	390
41	23	munichmotorsport	UAS Munich	Germany	EV	213
42	5	Obuda University Racing Team	Óbuda University	Hungary	CV	121
43	25	Orion Racing India Electric	K.J. Somaiya College of Engineering	India	EV	227
44	1	Poseidon Racing Team	University of West Attica	Greece	CV	105
45	1	Pravega Racing	VIT Vellore	India	CV	154
46	18	Prom Racing	National Technical University of Athens	Greece	EV	225
47	36	PWR Racing Team	Wroclaw University of Science and Technology	Poland	DV	313
48	13	Race UP Combustion	Università degli Studi di Padova	Italy	CVH	185
49	13	Race UP Electric	Università degli Studi di Padova	Italy	EV	200
50	21	Rennstall Esslingen	University of Applied Sciences Esslingen	Germany	EV	294
51	12	Rennteam Uni Stuttgart e.V.	Universität Stuttgart	Germany	CVH	102
52	27	Revolve NTNU	Norwegian University of Science and Technology	Norway	EV+DV	463
53	19	RUB Motorsport e.V.	Ruhr Universität Bochum	Germany	EV	248
54	3	Seagulls Luebeck	Technische Hochschule Lübeck	Germany	CV	150
55	35	Squadra Corse Driverless PoliTO	Politecnico di Torino	Italy	DV	346
56	31	Starkstrom Augsburg Driverless	University of Applied Sciences Augsburg	Germany	DV	310
57	31	STUBA Green Team	Slovak university of technology in Bratislava	Slovakia	EV	290
58	26	Superior Engineering Formula Student Team	University of Ljubljana	Slovenia	EV	268
59	11	Tampere Formula Student	TAMK University of Applied Sciences	Finland	CVH	178
60	25	Team Kratos Racing Electric	Pimpri Chinchwad College of Engineering	India	EV	215
61	17	TU Brno Racing	Brno University of Technology	Czech Republic	EV	274
62	19	TU Darmstadt Racing Team e.V.	TU Darmstadt	Germany	EV	242
63	14	TU Graz Racing Team	Graz University of Technology	Austria	EV	211
64	26	TU Istanbul Racing	Istanbul Technical University	Turkey	EV	234
65	14	TU Wien Racing	Technische Universität Wien	Austria	EV	241
66	33	TUfast e.V. - driverless	Technical University Munich	Germany	DV	331
67	4	UniBo Motorsport	Università di Bologna	Italy	CV	188
68	34	University Racing Eindhoven	Eindhoven University of Technology	Netherlands	DV	340
69	5	UPT Racing Team	University Politehnica Timisoara	Romania	CV	136
70	9	Ü Motorsport	Rey Juan Carlos	Spain	CV	196
71	4	Warsaw University of Technology Racing Team	Warsaw University of Technology	Poland	CV	138
72	6	Zips Racing	University of Akron	United States	CV	130

#	Pit#	Team name	Year	Country	DT	#	Pit#	Team name	Year	Country	DT
1	40	Alumnics Regensburg	2014	Germany	CV	12	38	Maindrunken Racing	2007	Germany	CV
2	40	Bodensee Drinking Team	2019	Germany	CV	13	38	Maindrunken Racing	2018	Germany	CV
3	43	DHBW Engineering 21er	2021	Germany	CV	14	39	municHMotorsport e.V.	2020	Germany	EV
4	43	DHBW Engineering Stuttgart e.V.	2018	Germany	EV	15	42	Phoenix Racing Team	2019	Germany	CV
5	40	Dynamis Polimi Reparto Corse	2019	Italy	CV	16	42	Ravetech Raving Team	2010	Germany	CV
6	42	Einstein Motorsport	2019	Germany	CV	17	41	Renntnerstall Esslingen	2021	Germany	CV
7	42	aElbflorace Formula Student Team e.V.	2018	Germany	EV	18	41	Renntnersteam Uni Stuttgart	2016	Germany	CV
8	39	Formula Alumni Student Team Delft	2017	Netherlands	EV	19	41	Scuderia Mensa Alumni Racing Team	2019	Germany	CV
9	39	Formula Arrabona Racing Team	2016	Hungary	CV	20	39	TU Brno Racing	2019	Czech Republic	CV
10	40	High-Octane Motorsports e.V. (2021)	2021	Germany	CV	21	38	TUfast Drinkingteam eb018	2018	Germany	EV
11	41	KA-Racelng Alumni KIT21e	2021	Germany	CV	22	38	TUfast Drinkingteam xb021	2021	Germany	EV

ALUMNI CUP  
TEAM LIST



Greetings from the  
East village!

CAMPING  
AUTÓSMOZI  
CAMPING I  
2146 MOGYORÓD,  
KEREKTÓ STR. 4.

#GPS  
47.587654  
19.247102

FORMULA  
STUDENT EAST

#GPS  
47.583578  
19.24146

EVENT SITE  
HUNGARORING



HOSPITAL  
PEST COUNTY  
FLÓR FERENC HOSPITAL  
2143 KISTARCSA, SEMMELWEIS SQ 1.  
+36 28 507 600  
WWW.FLORHOSP.HU

#GPS  
47.539196  
19.253366

Leave the event site and turn left to Hungaroring street at the MOL fuel station. At the crossroad turn right, then continue to follow the road until you reach the next one, then turn left. This road will take you to Kistarcsa, keep ahead until Auchan Shopping Centre, where you should turn left and pass by the whole area by going straight ahead in the first two roundabouts. At the third roundabout take the third exit and after 150 metres turn right to Semmelweis square. The hospital is going to be on your left, take a left turn at the corner of the building to reach the main entrance.



**FOLLOW THE INSTRUCTION TO REACH THE EVACUATION ROAD BY THE SHORTEST ROUTE POSSIBLE.**





# EXCERPT FROM THE FORMULA STUDENT EAST SAFETY MANUAL DOCUMENT



PLEASE READ THE WHOLE DOCUMENT WHICH CAN BE DOWNLOADED FROM OUR WEBSITE UNDER RULES AND IMPORTANT DOCUMENTS SECTION.

## 2. GENERAL SAFETY REGULATIONS

### 2.1 SAFETY AWARENESS

All participants, staff, and visitors are required to maintain a high level of safety awareness throughout the Formula Student East event. This includes understanding and complying with safety regulations, promptly reporting any safety concerns or hazards, and actively promoting a safe and secure environment.

### 2.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

The use of appropriate Personal Protective Equipment (PPE) is mandatory in designated areas and during specific activities. Participants must wear and properly maintain PPE, including helmets, fire-resistant clothing, safety goggles, gloves, and closed-toe footwear. It is the responsibility of each individual to ensure their PPE is in good condition and correctly worn at all times.

### 2.3 COMMUNICATION AND SIGNALING

Clear and effective communication is essential for maintaining safety. Participants must familiarize themselves with the designated communication channels, including radio frequencies or other forms of communication, and use them appropriately. Signaling systems and designated hand signals should be understood and used to convey messages and intentions effectively.

### 2.4 HOUSEKEEPING AND WORK AREA SAFETY

Maintaining a clean and organized work area is crucial for safety. Participants should regularly remove debris, tools, and equipment from walkways and ensure proper storage to prevent tripping hazards. Work areas should be well-lit, and any spills or hazardous substances should be promptly cleaned and reported.

### 2.5 FIRE SAFETY

Fire safety is a paramount concern throughout the event. Participants must adhere to designated smoking areas and never smoke in prohibited areas. Open flames, flammable liquids, or unauthorized pyrotechnics are strictly prohibited unless specifically authorized and supervised by the event organizers. In case of fire, participants should follow evacuation procedures and report the incident immediately.

### 2.6 ALCOHOL AND SUBSTANCE USE

The consumption or use of alcohol or illegal substances is strictly prohibited during the Formula Student East event. Participants must be free from the influence of alcohol or drugs that impair judgment or coordination. Any individual found violating this regulation will be subject to disciplinary action.

### 2.7 NON-COMPLIANCE AND DISCIPLINARY ACTIONS

Failure to comply with safety regulations may result in disciplinary action, including but not limited to warnings, temporary suspension from participating in specific activities, or removal from the event premises. The event organizers reserve the right to enforce such actions to ensure the overall safety of all participants. These general safety regulations provide a foundation for maintaining a safe and secure environment during the Formula Student East event. It is essential for all participants to familiarize themselves with these regulations and actively contribute to a culture of safety.

### 2.8 ALERT TYPES

During the Formula Student East event, two alert types may be issued at the event venue and the campsite: Orange Alert and Red Alert. These alert types can only be issued by the Event Manager or, in their absence, by a designated deputy. In case of their unavailability, the EHS Supervisor is authorized to issue the alert. Announcements will be made through the official sound systems or the emergency public address system. In the event of a failure in these systems, announcements will be made through a manual public address system.

## ORANGE ALERT

During an Orange Alert, the following measures will be implemented:

- Tighten the top five fasteners of tent doors.
- Remove all equipment from outside the pits.
- Work can continue in the pits.
- Officials will check the site for proper fastening.

Frequency of announcements: Every minute until all precautions are finished.

## RED ALERT

During a Red Alert, the following measures will be implemented:

- Dynamic activities stop immediately.
- Vehicles powered down by team members.
- Participants must leave the pits and event site immediately following the instructions of officials.
- Officials will close up the tents completely.

Frequency of announcements: Continuous, until the event site is emptied. It is crucial to ensure that the authorized personnel issue the alert types and that proper communication channels, including the official sound systems or emergency public address system, are utilized. Contingency plans should also be in place, including the availability of a manual public address system, in case of any failures.

### 2.9 EVACUATION PROCEDURE

In the event of an emergency requiring evacuation, follow the designated evacuation plan for a safe and orderly exit from the area towards the assembly point. Please refer to the attached map for clear directions.



#### 2.9.1. ON-FOOT EVACUATION

The evacuation process will be conducted on foot. Participants are advised to proceed on foot to ensure a smooth and safe evacuation process.

#### 2.9.2. EVACUATION IN PAIRS

It is essential to evacuate in pairs to enhance safety and support during the evacuation process. Stick together with a partner to help each other and stay informed.

#### 2.9.3. LEFT SIDE OF THE EVACUATION ROAD

During the evacuation, all participants must keep to the LEFT side of the designated evacuation road. This ensures unobstructed passage for emergency vehicles, enabling swift response to the situation.

#### 2.9.4. DIRECTIONAL VIGILANCE

Stay vigilant and aware of any rescue directions or instructions given by emergency personnel. Follow their guidance promptly to ensure a coordinated and efficient evacuation. Remain vigilant of any approaching rescue directions. In case of emergency, the incident site may override the approach to the evacuation road. Follow the instruction to reach the evacuation road by the shortest route possible.

#### 2.9.5. INCIDENT SITE OVERRIDE

In case of an emergency situation that necessitates a different approach to the evacuation road, follow the instructions provided by event organizers or emergency responders. Safety is paramount, and instructions may be modified based on the situation.

#### 2.9.6. DIRECT ROUTE TO EVACUATION ROAD

When proceeding to the evacuation road, follow the shortest route possible while still maintaining a safe distance from any incident site. Avoid any unsafe or blocked pathways.

By adhering to the above guidelines and remaining alert during the evacuation, we can ensure the safety and well-being of all participants, visitors, and event staff. Please familiarize yourself with the evacuation routes and designated assembly points outlined on the attached map. In the unlikely event of an emergency, staying calm and following these instructions will contribute to a successful and secure evacuation process.

### 2.10 EVENT OF FIRE

In the event of a fire, prioritize personal safety and immediately initiate emergency actions. With a loud and clear voice, inform the surrounding area about the emergency, clearly stating the nature of the situation, for example, 'Battery on fire!'

#### 2.10.1. EMERGENCY ANNOUNCEMENT

Raise an immediate alarm by loudly and clearly informing the vicinity about the nature of the emergency. Ensure that everyone in the area is aware of the situation and takes necessary precautions.

#### 2.10.2 FIRE SUPPRESSION

If it is safe to do so, attempt to move the burning object or vehicle outside the pit/tent area to minimize the risk of spreading the fire. Use appropriate firefighting equipment available in all areas to control the fire effectively.

#### 2.10.3. COMMUNICATION

Simultaneously, inform the Event Manager or any designated organizer with a two-way radio communication device about the incident. Provide them with all relevant details to facilitate a coordinated response.

#### 2.10.4. EVACUATION PROTOCOL

Those who cannot actively participate in firefighting or assisting in the situation must follow the designated evacuation routes promptly and proceed towards the designated assembly point for further instructions.

Ensuring clear and decisive communication during an emergency is vital to mitigate potential risks and protect the safety of all participants and attendees. By adhering to these guidelines and practicing proper emergency protocols, we can maintain a safe and secure environment during Formula Student East events."



## TRANSFORMATIVE TECHNOLOGY IS IN OUR NATURE

Garrett is a cutting-edge technology provider that enables vehicles to become cleaner, more efficient and connected. We lead the development of innovative and differentiated solutions which empower the transportation industry to redefine and further advance motion. With strong roots in Switzerland and listed on Nasdaq, Garrett is a global innovation ecosystem where 9.300 imaginative people share a passion for advancing motion.



Turbo  
Technology



Electric &  
Hybrid



Connected  
Vehicles



FORMULA STUDENT EAST

DAY #0

1ST AUGUST // TUESDAY

- 10:00 - 12:00 Volunteer Registration @Camping
- 10:00 - 12:00 Alumni Cup Registration @Camping
- 12:00 - 18:00 Team Registration @Camping
- 12:00 - 18:00 Camping - Moving in @Camping
- 12:00 - 13:00 Alumni Cup Briefing @Camping
- 13:00 - 18:00 Alumni Cup Scrutineering @Camping
- 14:00 - 20:30 HV Accumulator Scrutineering @Camping
- 14:00 - 20:30 Safety Equipment Check @Camping
- 18:00 - 20:30 Alumni Cup - Moving in to the Pits @Pits
- 21:00 - 22:00 Opening Ceremony @Camping

DAY #1

2ND AUGUST // WEDNESDAY

- 07:00 - 21:00 Event Site open
- 07:00 - 16:30 Ticket Center open
- 07:00 - 21:00 Event Control open
- 07:00 - 12:00 Moving in to the Pits @Pits
- 08:00 - 12:00 Driver, Data Logger, Transponder, ESO & ASO Registration @EC
- 09:00 - 18:00 Engineering Design Event @Team Pits
- 09:00 - 18:00 Cost & Manufacturing Event @Team Pits
- 09:00 - 18:00 Business Plan Presentation Event @Millennium Tower
- 10:00 - 12:45 Static Scrutineering Mechanical, Safety Equipment & Egress @Scrutineering Tent
- 10:00 - 12:15 Static Scrutineering EV1 & Accu @Scrutineering Tent
- 13:00 - 18:00 Brake Test CV, EV, DV
- 13:00 - 18:00 Dynamic Scrutineering - Noise Test @Dynamic Scrutineering Area
- 13:00 - 20:00 Dynamic Scrutineering - Tilt Test & Weighing @Dynamic Scrutineering Area
- 13:15 - 20:00 Static Scrutineering EV1 & Accu @Scrutineering Tent
- 13:30 - 18:00 Alumni Test Track open
- 13:30 - 18:00 Driver, Data Logger, Transponder, ESO & ASO Registration @EC
- 13:30 - 19:45 Charging Area open @Charging Area
- 13:30 - 20:00 Welding and Tyre Change open
- 13:45 - 20:00 Static Scrutineering Mechanical, Safety Equipment & Egress @Scrutineering Tent
- 14:30 - 20:00 Static Scrutineering EV2 @Scrutineering Tent
- 15:30 - 16:00 Alumni Cup Briefing @Press Conference Room
- 16:00 - 18:00 Alumni Cup Nascar Lap
- 18:30 - 19:30 Ambassador Night @Catering
- 20:45 - 21:00 Pits close

DAY #2

3RD AUGUST // THURSDAY

- 07:00 - 21:00 Event Site open
- 07:00 - 16:00 Ticket Center open
- 08:00 - 20:30 Event Control open
- 08:00 - 08:30 Team Briefing @Catering
- 08:00 - 12:00 Static Scrutineering EV1, EV2 & Accu @Scrutineering Tent
- 08:00 - 12:00 Welding and Tyre Change open
- 08:00 - 12:00 Charging Area open @Charging Area
- 08:00 - 13:00 Static Scrutineering Mechanical, Safety Equipment & Egress @Scrutineering Tent
- 08:00 - 12:00 Dynamic Scrutineering - Noise, Tilt, Rain Test & Weighing @Dynamic Scrutineering Area
- 08:30 - 10:00 Alumni Test Track open
- 09:00 - 12:00 Brake Test CV, EV, DV
- 09:00 - 18:00 Cost & Manufacturing Event @Team Pits
- 09:00 - 18:00 Engineering Design Event @Team Pits
- 10:00 - 16:00 Business Plan Presentation Event - Feedback @Media Room
- 10:00 - 12:00 Driver, Data Logger, Transponder, ESO & ASO Registration @EC
- 13:00 - 18:00 Dynamic Scrutineering - Noise Test @Dynamic Scrutineering Area
- 13:00 - 18:00 Brake Test CV, EV, DV
- 13:00 - 18:00 Test Track CV, EV, DV open
- 13:00 - 18:00 EBS Test DV
- 13:00 - 20:00 Static Scrutineering EV1, EV2, Accu & Autonomous Scrutineering @Scrutineering Tent
- 13:00 - 20:00 Dynamic Scrutineering - Tilt, Rain Test & Weighing @Dynamic Scrutineering Area
- 13:30 - 18:00 Driver, Data Logger, Transponder, ESO & ASO Registration @EC
- 13:30 - 20:00 Welding and Tyre Change open
- 13:30 - 19:45 Charging Area Open @Charging Area
- 14:00 - 20:00 Static Scrutineering Mechanical, Safety Equipment & Egress @Scrutineering Tent
- 18:00 - 20:00 Business Plan Presentation Event Final @Catering
- 19:00 - 20:45 Engineering Design Event Final - DV @Start/Finish Straight
- 20:45 - 21:00 Pits close

DAY #5

6TH AUGUST // SUNDAY

- 07:00 - 20:00 Event Site open
- 08:00 - 14:00 Ticket Center open
- 08:00 - 17:45 Event Control open
- 08:00 - 08:45 Team Briefing @Catering
- 08:00 - 12:00 Tyre Change open
- 08:00 - 12:00 Charging Area open @Charging Area
- 08:45 - 09:15 Track Walk @Endurance Track
- 09:00 - 12:00 Trackdrive/Autocross DV
- 09:00 - 12:00 Data Logger & Transponder Collection @EC
- 09:15 - 12:00 Endurance EV@Endurance Track
- 13:00 - 16:00 Trackdrive/Autocross DV
- 13:00 - 16:00 Endurance Final EV@Endurance Track
- 13:30 - 17:00 Charging Area open @Charging Area
- 13:30 - 18:00 Data Logger & Transponder Collection @EC
- 18:00 - 20:00 Moving out from the Pits
- 21:00 - 22:30 Award Ceremony Part II @Camping

DAY #3

4TH AUGUST // FRIDAY

- 07:00 - 21:00 Event Site open
- 08:00 - 16:00 Ticket Center open
- 08:00 - 21:00 Event Control open
- 08:00 - 08:30 Team Briefing @Catering
- 08:00 - 09:00 Alumni Cup Acceleration EV @Acceleration Track
- 08:00 - 09:00 Alumni Cup Skidpad EV @Skidpad Track
- 08:00 - 12:00 Welding and Tyre Change open
- 08:00 - 12:00 Charging Area open @Charging Area
- 08:00 - 12:00 Static Scrutineering Mechanical, Safety Equipment & Egress @Scrutineering Tent
- 08:00 - 12:00 Dynamic Scrutineering - Noise, Tilt, Rain Test & Weighing @Dynamic Scrutineering Area
- 08:00 - 12:15 Static Scrutineering EV1 & Accu @Scrutineering Tent
- 08:00 - 13:00 Static Scrutineering EV2 & Autonomous System Scrutineering @Scrutineering Tent
- 08:30 - 09:00 Alumni Cup Track Walk @Autocross Track
- 08:30 - 12:00 Driver, Data Logger, Transponder, ESO & ASO Registration @EC
- 09:00 - 11:30 Alumni Cup Autocross @Autocross Track
- 09:00 - 12:00 Acceleration CV, EV @Acceleration Track
- 09:00 - 12:00 Skidpad CV, EV @Skidpad Track
- 09:00 - 12:00 Test Track CV, EV, DV open
- 09:00 - 12:00 Brake Test CV, EV, DV
- 09:00 - 12:00 EBS Test DV
- 09:00 - 12:30 Scoresheet Review for C&M and EDE @Media Room
- 10:00 - 10:30 Knorr-Bremse Presentation @Catering
- 10:30 - 11:00 Audi Hungaria Presentation @Catering
- 11:00 - 12:00 Press Conference @Press Conference Room
- 12:00 - 12:30 Track Walk @Autocross Track
- 13:00 - 18:00 Autocross CV, EV @Autocross Track
- 13:00 - 18:00 Acceleration CV, EV @Acceleration Track
- 13:00 - 18:00 Skidpad CV, EV@Skidpad Track
- 13:00 - 18:00 Test Track CV, EV, DV
- 13:00 - 18:00 Brake Test CV, EV, DV
- 13:00 - 18:00 EBS Test DV
- 13:00 - 18:00 Dynamic Scrutineering - Noise Test @Dynamic Scrutineering Area
- 13:00 - 20:00 Dynamic Scrutineering - Tilt, Rain Test & Weighing @Dynamic Scrutineering Area
- 13:00 - 20:00 Static Scrutineering Mechanical, Safety Equipment & Egress @Scrutineering Tent
- 13:15 - 20:00 Static Scrutineering EV1 & Accu @Scrutineering Tent
- 13:30 - 14:00 Audi Hungaria Presentation @Catering
- 13:30 - 17:00 Driver, Data Logger, Transponder, ESO & ASO Registration @EC
- 13:30 - 20:00 Welding and Tyre change open
- 13:30 - 19:45 Charging Area open @Charging Area
- 14:00 - 14:30 JLR Presentation @Catering
- 14:00 - 20:00 Static Scrutineering EV2 & Autonomous System Scrutineering (EV2 for DV) @Scrutineering Tent
- 14:30 - 14:45 Scraping Robotics Presentationn @Catering
- 14:45 - 15:15 Garret Presentation @Catering
- 15:15 - 15:45 Bosch Presentation @Catering
- 15:45 - 16:00 IVSZ Presentation @Catering
- 18:00 - 19:00 Cost & Manufacturing Event Final @Start/Finish Straight
- 19:00 - 21:00 Engineering Design Event CV/EV Final @Start/Finish Straight
- 20:45 - 21:00 Pits close

DAY #4

5TH AUGUST // SATURDAY

- 07:00 - 21:00 Event Site open
- 08:00 - 16:00 Ticket Center open
- 08:00 - 20:45 Event Control open
- 08:00 - 08:45 Team Briefing @Catering
- 08:00 - 12:00 Charging Area open @Charging Area
- 08:00 - 12:00 Welding & Tyre Change open
- 08:00 - 12:00 Static Scrutineering Mechanical, Safety Equipment & Egress @Scrutineering Tent
- 08:00 - 12:00 Dynamic Scrutineering - Noise Test C-DV @Dynamic Scrutineering Area
- 08:00 - 12:00 Dynamic Scrutineering - Tilt Test & Weighing EV, DV @Dynamic Scrutineering Area
- 08:00 - 12:00 Dynamic Scrutineering - Rain Test @Dynamic Scrutineering Area
- 08:00 - 12:15 Static Scrutineering EV1 & Accu @Scrutineering Tent
- 08:00 - 13:00 Static Scrutineering EV2 & Autonomous System Scrutineering @Scrutineering Tent
- 08:30 - 12:00 Driver, Data Logger, Transponder, ESO & ASO Registration @EC
- 08:45 - 09:15 Track Walk @Endurance Track
- 09:00 - 12:00 Test Track CV, EV, DV open
- 09:00 - 12:00 Brake Test CV, EV, DV
- 09:00 - 12:00 EBS Test DV
- 09:00 - 12:30 Team Photo @EC
- 09:00 - 13:00 Skidpad DV @Skidpad track
- 09:15 - 12:00 Endurance CV @Endurance Track
- 13:00 - 15:00 Endurance Final CV @Endurance Track
- 13:00 - 16:00 Static Scrutineering Mechanical, Safety Equipment & Egress @Scrutineering Tent
- 13:00 - 17:00 Dynamic Scrutineering - Noise Test C-DV @Dynamic Scrutineering Area
- 13:00 - 17:00 Dynamic Scrutineering - Tilt Test & Weighing EV, DV @Dynamic Scrutineering Area
- 13:00 - 17:00 Dynamic Scrutineering - Rain Test @Dynamic Scrutineering Area
- 13:00 - 18:00 Acceleration DV @Accelereation Track
- 13:00 - 18:00 Test Track CV, EV, DV open
- 13:00 - 18:00 Brake Test CV, EV, DV
- 13:00 - 18:00 EBS Test DV
- 13:15 - 16:00 Static Scrutineering EV1 & Accu @Scrutineering Tent
- 13:30 - 17:00 Team Photo @EC
- 13:30 - 18:00 Charging Area open @Charging Area
- 13:30 - 18:00 Welding & Tyre Change open
- 14:00 - 16:00 Static Scrutineering EV2 & Autonomous System Scrutineering @Scrutineering Tent
- 14:00 - 18:00 Autocross/Trackdrive DV - EV-DV priority
- 15:00 - 18:00 Alumni Cup Endurance @Endurance Track
- 15:00 - 18:00 Data Logger & Transponder Collection @EC
- 17:00 - 18:00 Hydrogen Concept Challenge @Catering
- 18:00 - 20:00 Panoramic Picture @Dynamic
- 20:45 - 21:00 Pits close
- 21:30 - 22:30 Award Ceremony Part I. @Camping



HOWDY  
HOW!

THE SCHEDULE WORM HAS DUG ITS WAY!  
CHECK OUT EACH DAY FROM 1<sup>ST</sup> TO 6<sup>TH</sup> OF AUGUST  
SCHEDULE LEGEND

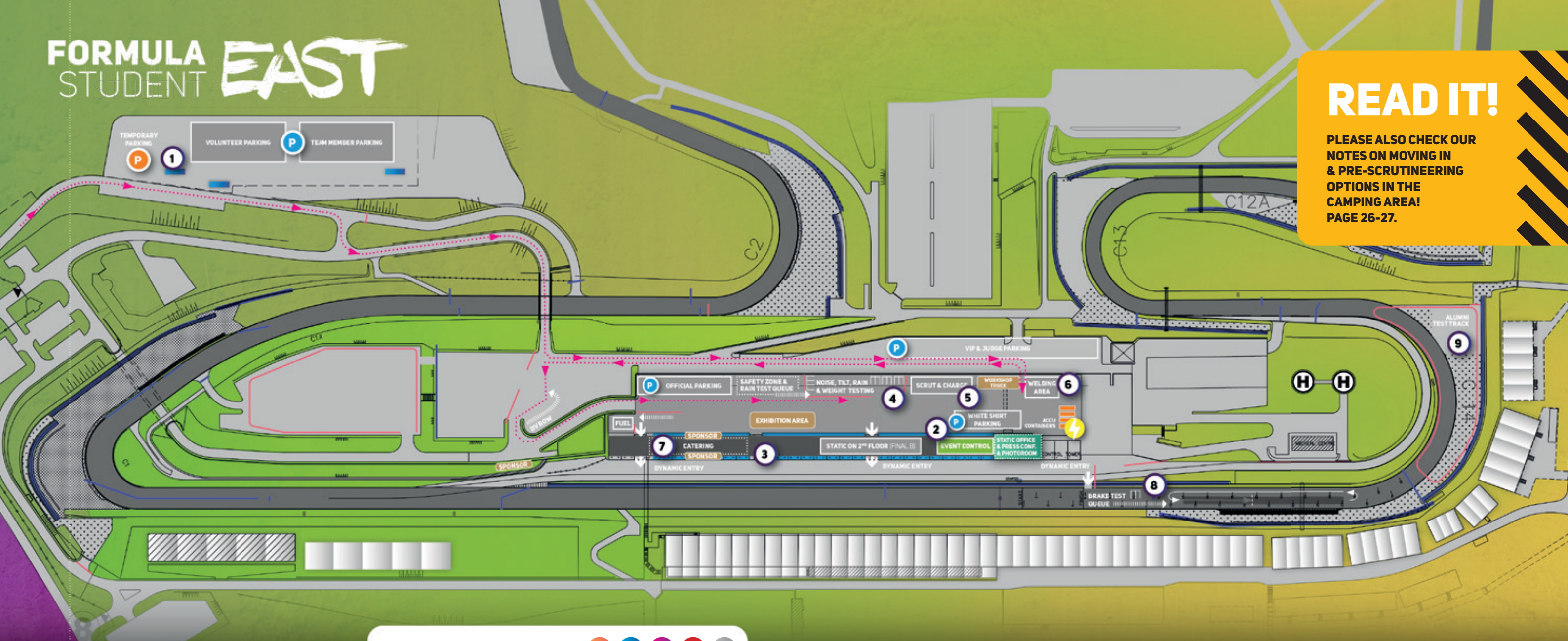
- EVENT
- STATIC
- DYNMC
- TECH
- ALMN



# FORMULA STUDENT EAST

## READ IT!

PLEASE ALSO CHECK OUR NOTES ON MOVING IN & PRE-SCRUTINEERING OPTIONS IN THE CAMPING AREA! PAGE 26-27.



## HIGHLIGHTS OF THE DAY

EVENT STATIC DYNAMIC TECH ALUMNI

- 07:00 - 12:00 Moving in to the Pits @Pits
- 08:00 - 18:00 Driver, Data Logger, Transponder, ESO & ASO Registration @EC
- 09:00 - 18:00 Engineering Design Event @Team Pits
- 09:00 - 18:00 Cost & Manufacturing Event @Team Pits
- 09:00 - 18:00 Business Plan Presentation Event @Millennium Tower
- 10:00 - 20:00 Static Scrutineering Mechanical, Safety Equipment & Egress @Scrutineering Tent
- 10:00 - 20:00 Static Scrutineering EV1 & Accu @Scrutineering Tent
- 13:00 - 18:00 Brake Test CV, EV, DV
- 13:00 - 18:00 Dynamic Scrutineering - Noise Test @Dynamic Scrutineering Area
- 13:00 - 20:00 Dynamic Scrutineering - Tilt Test & Weighing @Dynamic Scrutineering Area
- 13:30 - 18:00 Alumni Test Track open
- 14:30 - 20:00 Static Scrutineering EV2 @Scrutineering Tent
- 16:00 - 18:00 Alumni Cup Nascar Lap
- 18:30 - 19:30 Ambassador Night @Catering
- 20:45 - 21:00 Pits close

## MAP LEGEND

- 1 ENTRANCE / TICKET CENTER
- 2 EVENT CONTROL
- 3 TEAM PITS
- 4 NOISE, TILT, WEIGHT & RAIN
- 5 SCRUTINEERING & CHARGE
- 6 WELDING AREA
- 7 CATERING ON ROOF
- 8 BRAKE TEST
- 9 ALUMNI TEST TRACK
- ARRIVING TO EVENT
- PATH TO TRACK
- FENCE
- ACCU CONTAINERS
- WAITING SPOT
- WATER WALL GATES
- PARKING

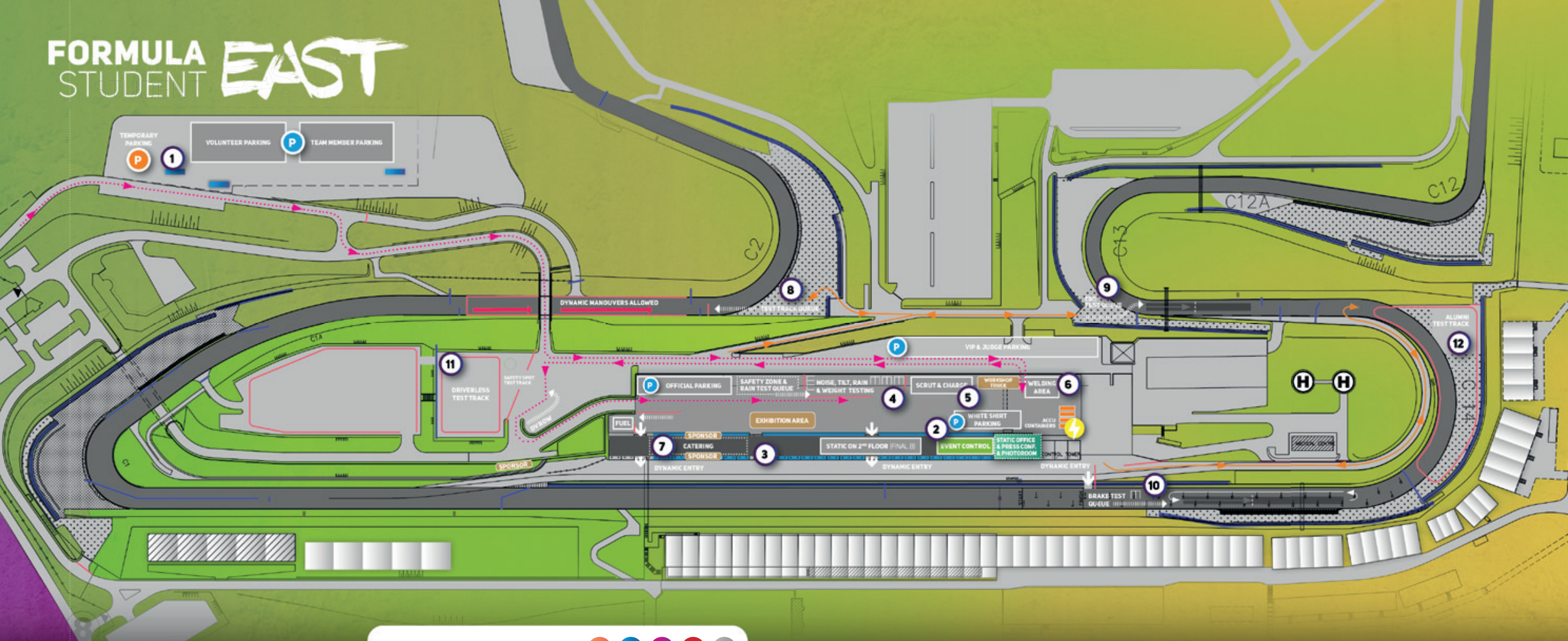
DAY #1  
2ND OF AUGUST  
WEDNESDAY



DAY #1  
HERE IS THE WHERE IS



# FORMULA EAST STUDENT



## HIGHLIGHTS OF THE DAY

EVENT STATIC DYNAMIC TECH ALUMNI

- 08:00 - 08:30 Team Briefing @Catering
- 08:00 - 20:00 Static Scrutineering
- 08:00 - 20:00 EV1, EV2 & Accu @Scrutineering Tent
- 08:00 - 20:00 Static Scrutineering
- 08:00 - 20:00 Mechanical, Safety Equipment & Egress @Scrutineering Tent
- 08:00 - 20:00 Dynamic Scrutineering - Noise, Tilt, Rain Test & Weighing @Dynamic Scrutineering Area
- 08:30 - 10:00 Alumni Test Track open
- 09:00 - 12:00 Brake Test CV, EV, DV
- 09:00 - 18:00 Cost & Manufacturing Event @Team Pits
- 09:00 - 18:00 Engineering Design Event @Team Pits
- 10:00 - 16:00 Business Plan Presentation Event - Feedback @Media Room
- 10:00 - 18:00 Driver, Data Logger, Transponder, ESO & ASO Registration @EC
- 13:00 - 18:00 Dynamic Scrutineering - Noise Test @Dynamic Scrutineering Area
- 13:00 - 18:00 Brake Test CV, EV, DV
- 13:00 - 18:00 Test Track CV, EV, DV open
- 13:00 - 18:00 EBS Test DV
- 18:00 - 20:00 Business Plan Presentation Event Final @Catering
- 19:00 - 20:45 Engineering Design Event Final - DV @Start/Finish Straight
- 20:45 - 21:00 Pits close

## MAP LEGEND

- |                              |                      |                   |
|------------------------------|----------------------|-------------------|
| 1 ENTRANCE / TICKET CENTER   | 9 EBS TEST           | ARRIVING TO EVENT |
| 2 EVENT CONTROL              | 10 BRAKE TEST        | PATH TO TRACK     |
| 3 TEAM PITS                  | 11 DV TEST TRACK     | FENCE             |
| 4 NOISE, TILT, WEIGHT & RAIN | 12 ALUMNI TEST TRACK | ACCU CONTAINERS   |
| 5 SCRUTINEERING & CHARGE     |                      | WAITING SPOT      |
| 6 WELDING AREA               |                      | WATER WALL GATES  |
| 7 CATERING ON ROOF           |                      | PARKING           |
| 8 TEST TRACK                 |                      |                   |

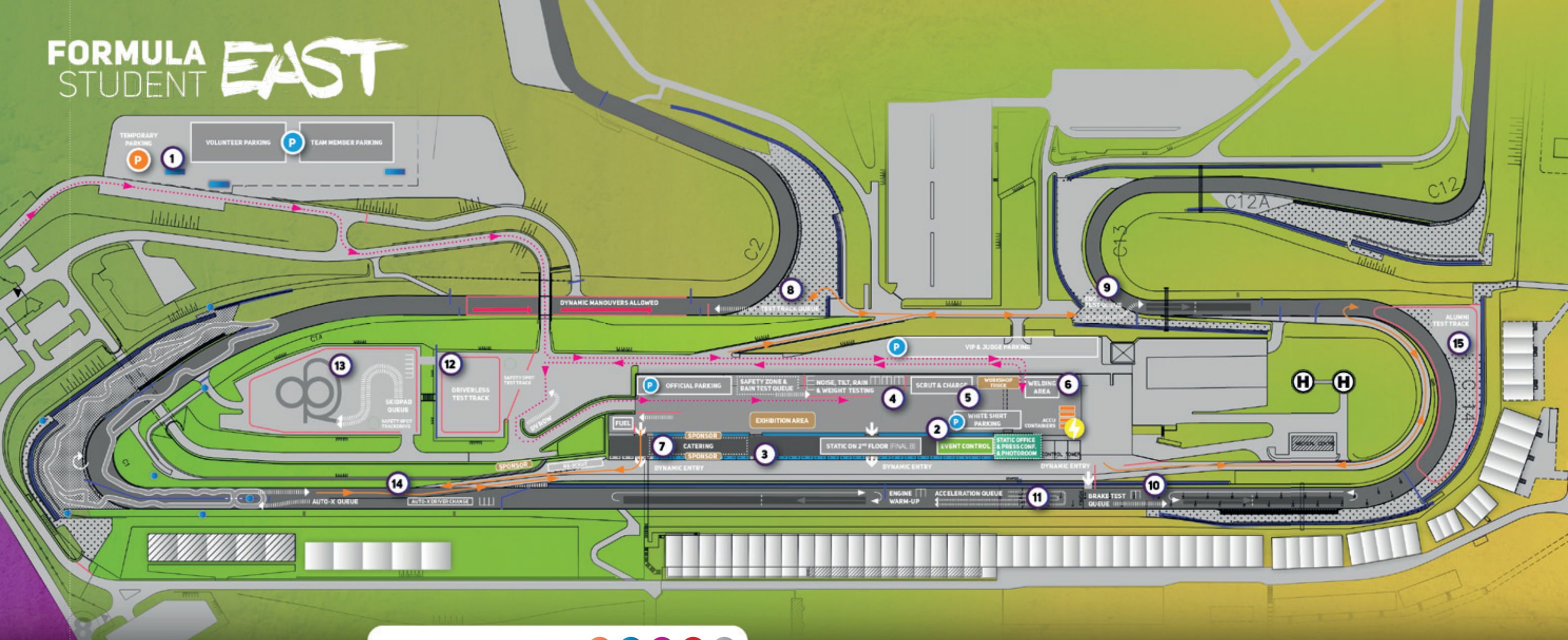
DAY #2  
3RD OF AUGUST  
THURSDAY



DAY #2  
HERE IS THE WHERE HERE IS



# FORMULA EAST STUDENT



## HIGHLIGHTS OF THE DAY



- 08:00 - 08:30 Team Briefing @Catering
- 08:00 - 20:00 Static Scrutineering  
Mechanical, Safety Equipment & Egress @Scrutineering Tent
- 08:00 - 20:00 Dynamic Scrutineering - Noise, Tilt, Rain Test & Weighing @Dynamic Scrutineering Area
- 08:00 - 20:00 Static Scrutineering EV1 & Accu @Scrutineering Tent
- 08:00 - 20:00 Static Scrutineering EV2 & Autonomous System Scrutineering @Scrutineering Tent
- 08:30 - 09:00 Alumni Cup Track Walk @Autocross Track
- 09:00 - 11:30 Alumni Cup Autocross @Autocross Track
- 09:00 - 12:00 Acceleration CV, EV @Acceleration Track
- 09:00 - 12:00 Skidpad CV, EV @Skidpad Track
- 09:00 - 12:00 Brake Test CV, EV, DV
- 09:00 - 12:00 EBS Test DV
- 09:00 - 12:30 Scoresheet Review for C&M and EDE @Media Room
- 10:00 - 16:00 Sponsor presentations @Catering
- 11:00 - 12:00 Press Conference @Press Conference Room
- 12:00 - 12:30 Track Walk @Autocross Track
- 13:00 - 18:00 Autocross CV, EV @Autocross Track
- 13:00 - 18:00 Acceleration CV, EV @Acceleration Track
- 13:00 - 18:00 Skidpad CV, EV @Skidpad Track
- 13:00 - 18:00 Brake Test CV, EV, DV
- 13:00 - 18:00 EBS Test DV
- 18:00 - 19:00 Cost & Manufacturing Event Final @Start/Finish Straight
- 19:00 - 21:00 Engineering Design Event CV/EV Final @Start/Finish Straight
- 20:45 - 21:00 Pits close

## MAP LEGEND

- |                              |                      |                   |
|------------------------------|----------------------|-------------------|
| 1 ENTRANCE / TICKET CENTER   | 9 EBS TEST           | ARRIVING TO EVENT |
| 2 EVENT CONTROL              | 10 BRAKE TEST        | PATH TO TRACK     |
| 3 TEAM PITS                  | 11 ACCELERATION      | FENCE             |
| 4 NOISE, TILT, WEIGHT & RAIN | 12 DV TEST TRACK     | ACCU CONTAINERS   |
| 5 SCRUTINEERING & CHARGE     | 13 SKID PAD          | WAITING SPOT      |
| 6 WELDING AREA               | 14 AUTO X TRACK      | WATER WALL GATES  |
| 7 CATERING ON ROOF           | 15 ALUMNI TEST TRACK | PARKING           |
| 8 TEST TRACK                 |                      |                   |

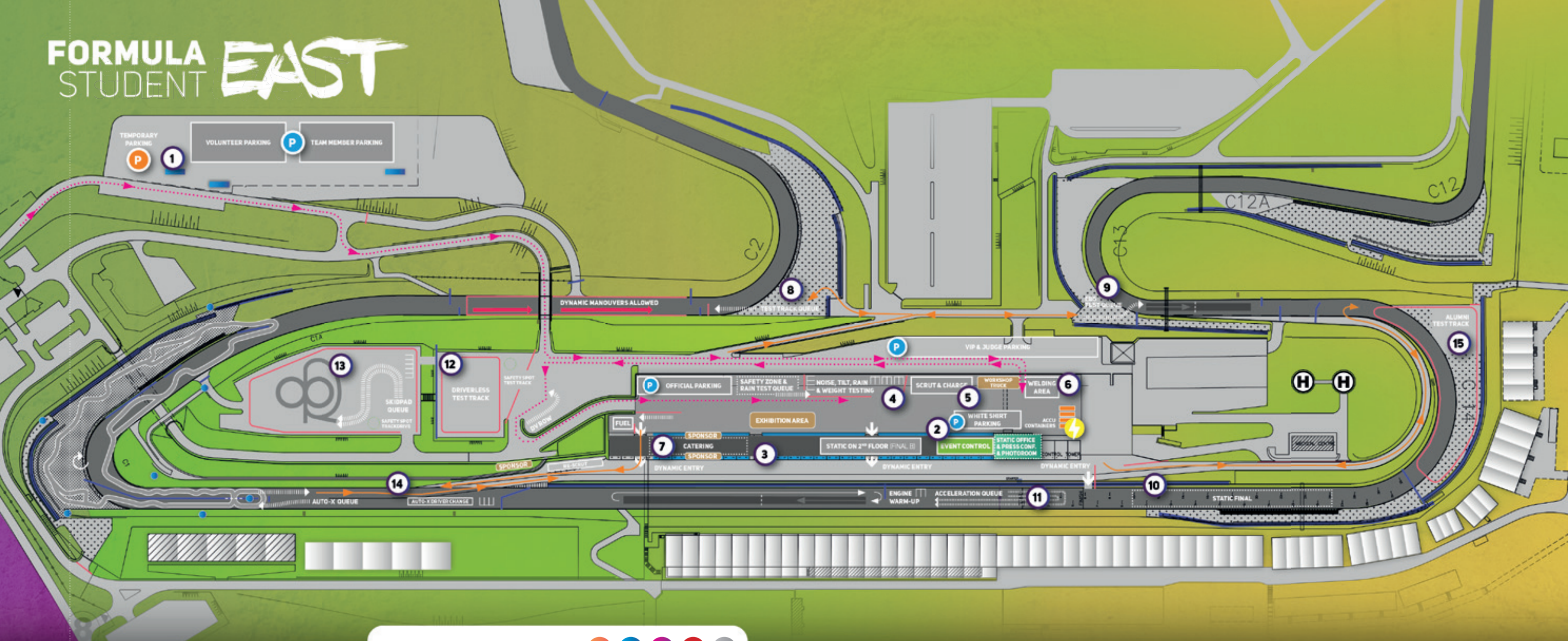
DAY #3  
4TH OF AUGUST  
FRIDAY



DAY #3  
HERE IS THE WHERE HERE IS



# FORMULA EAST STUDENT



## HIGHLIGHTS OF THE DAY



- 08:00 - 08:30 Team Briefing @Catering
- 08:00 - 20:00 Static Scrutineering  
Mechanical, Safety Equipment & Egress @Scrutineering Tent
- 08:00 - 20:00 Dynamic Scrutineering - Noise, Tilt, Rain Test & Weighing @Dynamic Scrutineering Area
- 08:00 - 20:00 Static Scrutineering EV1 & Accu @Scrutineering Tent
- 08:00 - 20:00 Static Scrutineering EV2 & Autonomous System Scrutineering @Scrutineering Tent
- 08:30 - 09:00 Alumni Cup Track Walk @Autocross Track
- 09:00 - 11:30 Alumni Cup Autocross @Autocross Track
- 09:00 - 12:00 Acceleration CV, EV @Acceleration Track
- 09:00 - 12:00 Skidpad CV, EV @Skidpad Track
- 09:00 - 12:00 Brake Test CV, EV, DV
- 09:00 - 12:00 EBS Test DV
- 09:00 - 12:30 Scoresheet Review for C&M and EDE @Media Room
- 10:00 - 16:00 Sponsor presentations @Catering
- 11:00 - 12:00 Press Conference @Press Conference Room
- 12:00 - 12:30 Track Walk @Autocross Track
- 13:00 - 18:00 Autocross CV, EV @Autocross Track
- 13:00 - 18:00 Acceleration CV, EV @Acceleration Track
- 13:00 - 18:00 Skidpad CV, EV @Skidpad Track
- 13:00 - 18:00 Brake Test CV, EV, DV
- 13:00 - 18:00 EBS Test DV
- 18:00 - 19:00 Cost & Manufacturing Event Final @Start/Finish Straight
- 19:00 - 21:00 Engineering Design Event CV/EV Final @Start/Finish Straight
- 20:45 - 21:00 Pits close

## MAP LEGEND

- |                              |                      |                   |
|------------------------------|----------------------|-------------------|
| 1 ENTRANCE / TICKET CENTER   | 9 EBS TEST           | ARRIVING TO EVENT |
| 2 EVENT CONTROL              | 10 STATIC FINAL      | PATH TO TRACK     |
| 3 TEAM PITS                  | 11 ACCELERATION      | FENCE             |
| 4 NOISE, TILT, WEIGHT & RAIN | 12 DV TEST TRACK     | ACCU CONTAINERS   |
| 5 SCRUTINEERING & CHARGE     | 13 SKID PAD          | WAITING SPOT      |
| 6 WELDING AREA               | 14 AUTO X TRACK      | WATER WALL GATES  |
| 7 CATERING ON ROOF           | 15 ALUMNI TEST TRACK | PARKING           |
| 8 TEST TRACK                 |                      |                   |

# DAY #3

4TH OF AUGUST  
FRIDAY EVENING

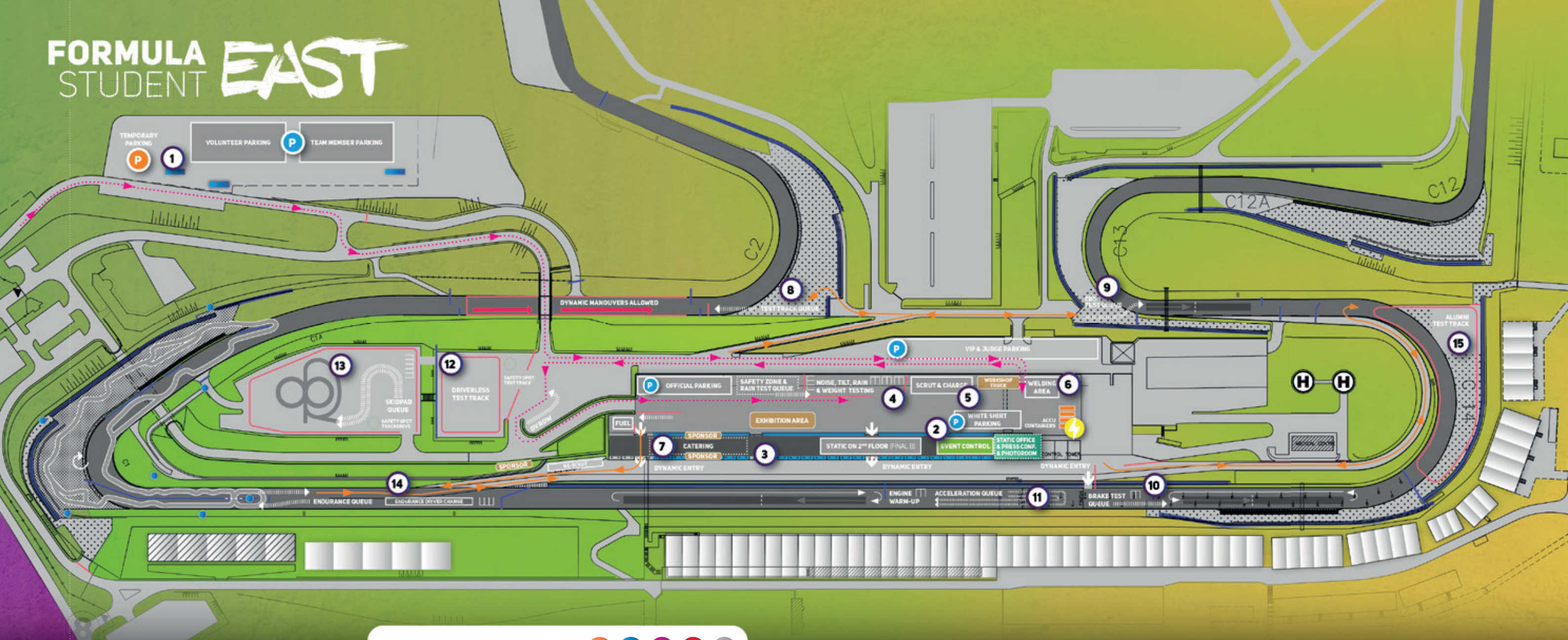


# DAY #3

HERE IS THE WHERE HERE IS



# FORMULA STUDENT EAST



## HIGHLIGHTS OF THE DAY

- |                 |  |
|-----------------|--|
| ● 08:00 - 08:45 | Team Briefing @Catering  |
| ● 08:00 - 16:00 | Static Scrutineering<br>Mechanical, Safety Equipment & Egress<br>@Scrutineering Tent |
| ● 08:00 - 17:00 | Dynamic Scrutineering - Noise Test C-DV<br>@Dynamic Scrutineering Area               |
| ● 08:00 - 17:00 | Dynamic Scrutineering - Tilt Test & Weighing EV, DV<br>@Dynamic Scrutineering Area   |
| ● 08:00 - 17:00 | Dynamic Scrutineering - Rain Test<br>@Dynamic Scrutineering Area                     |
| ● 08:00 - 16:00 | Static Scrutineering<br>EV1 & Accu @Scrutineering Tent                               |
| ● 08:00 - 16:00 | Static Scrutineering<br>EV2 & Autonomous System Scrutineering<br>@Scrutineering Tent |
| ● 09:00 - 18:00 | Brake Test CV, EV, DV  |
| ● 09:00 - 18:00 | EBS Test DV  |
| ● 09:00 - 17:00 | Team Photo @EC   |
| ● 09:00 - 13:00 | Skidpad DV @Skidpad track  |
| ● 09:15 - 15:00 | Endurance CV @Endurance Track  |
| ● 13:00 - 18:00 | Acceleration DV @Accelereation Track   |
| ● 14:00 - 18:00 | Autocross/Trackdrive DV - EV-DV priority   |
| ● 15:00 - 18:00 | Alumni Cup Endurance @Endurance Track  |
| ● 17:00 - 18:00 | Hydrogen Concept Challenge @Catering   |
| ● 18:00 - 20:00 | Panoramic Picture @Dynamic   |
| ● 20:45 - 21:00 | Pits close   |
| ● 21:30 - 22:30 | Award Ceremony Part I. @Camping  |

### MAP LEGEND

- |                                     |                              |   |
|-------------------------------------|------------------------------|---|
| <b>1</b> ENTRANCE / TICKET CENTER   | <b>9</b> EBS TEST            |  ARRIVING TO EVENT |
| <b>2</b> EVENT CONTROL              | <b>10</b> BRAKE TEST         |  PATH TO TRACK     |
| <b>3</b> TEAM PITS                  | <b>11</b> ACCELERATION TRACK |  FENCE             |
| <b>4</b> NOISE, TILT, WEIGHT & RAIN | <b>12</b> DV TEST TRACK      |  ACCU CONTAINERS   |
| <b>5</b> SCRUTINEERING & CHARGE     | <b>13</b> SKID PAD           |  WAITING SPOT      |
| <b>6</b> WELDING AREA               | <b>14</b> ENDURANCE TRACK    |  WATER WALL GATES  |
| <b>7</b> CATERING ON ROOF           | <b>15</b> ALUMNI TEST TRACK  |  PARKING           |
| <b>8</b> TEST TRACK                 |                              |   |

DAY #4  
5<sup>TH</sup> OF AUGUST  
SATURDAY AM

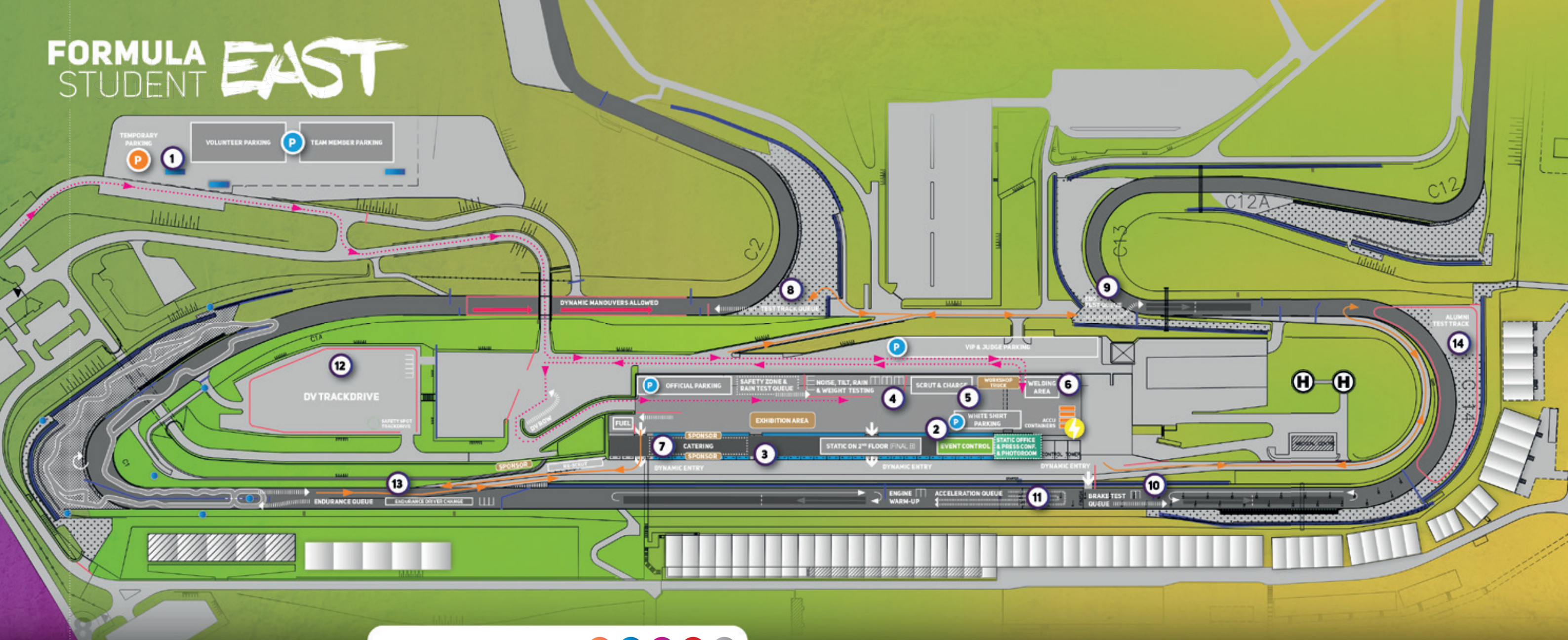


# DAY #4

## HERE IS THE WHERE IS



# FORMULA EAST STUDENT



## HIGHLIGHTS OF THE DAY

EVENT STATIC DYNAMIC TECH ALUMNI

- 08:00 - 08:45 Team Briefing @Catering
- 08:00 - 16:00 Static Scrutineering  
Mechanical, Safety Equipment & Egress  
@Scrutineering Tent
- 08:00 - 17:00 Dynamic Scrutineering - Noise Test C-DV  
@Dynamic Scrutineering Area
- 08:00 - 17:00 Dynamic Scrutineering - Tilt Test & Weighing EV, DV  
@Dynamic Scrutineering Area
- 08:00 - 17:00 Dynamic Scrutineering - Rain Test  
@Dynamic Scrutineering Area
- 08:00 - 16:00 Static Scrutineering  
EV1 & Accu @Scrutineering Tent
- 08:00 - 16:00 Static Scrutineering  
EV2 & Autonomous System Scrutineering  
@Scrutineering Tent
- 09:00 - 18:00 Brake Test CV, EV, DV
- 09:00 - 18:00 EBS Test DV
- 09:00 - 17:00 Team Photo @EC
- 09:00 - 13:00 Skidpad DV @Skidpad track
- 09:15 - 15:00 Endurance CV @Endurance Track
- 13:00 - 18:00 Acceleration DV @Acceleration Track
- 14:00 - 18:00 Autocross/Trackdrive DV - EV-DV priority
- 15:00 - 18:00 Alumni Cup Endurance @Endurance Track
- 17:00 - 18:00 Hydrogen Concept Challenge @Catering
- 18:00 - 20:00 Panoramic Picture @Dynamic
- 20:45 - 21:00 Pits close
- 21:30 - 22:30 Award Ceremony Part I. @Camping

## MAP LEGEND

- |                              |                      |                   |
|------------------------------|----------------------|-------------------|
| 1 ENTRANCE / TICKET CENTER   | 9 EBS TEST           | ARRIVING TO EVENT |
| 2 EVENT CONTROL              | 10 BRAKE TEST        | PATH TO TRACK     |
| 3 TEAM PITS                  | 11 DV ACCELERATION   | FENCE             |
| 4 NOISE, TILT, WEIGHT & RAIN | 12 DV TRACKDRIVE     | ACCU CONTAINERS   |
| 5 SCRUTINEERING & CHARGE     | 13 AUTO X TRACK      | WAITING SPOT      |
| 6 WELDING AREA               | 14 ALUMNI TEST TRACK | WATER WALL GATES  |
| 7 CATERING ON ROOF           |                      | PARKING           |
| 8 TEST TRACK                 |                      |                   |

# DAY #4

5TH OF AUGUST  
SATURDAY PM

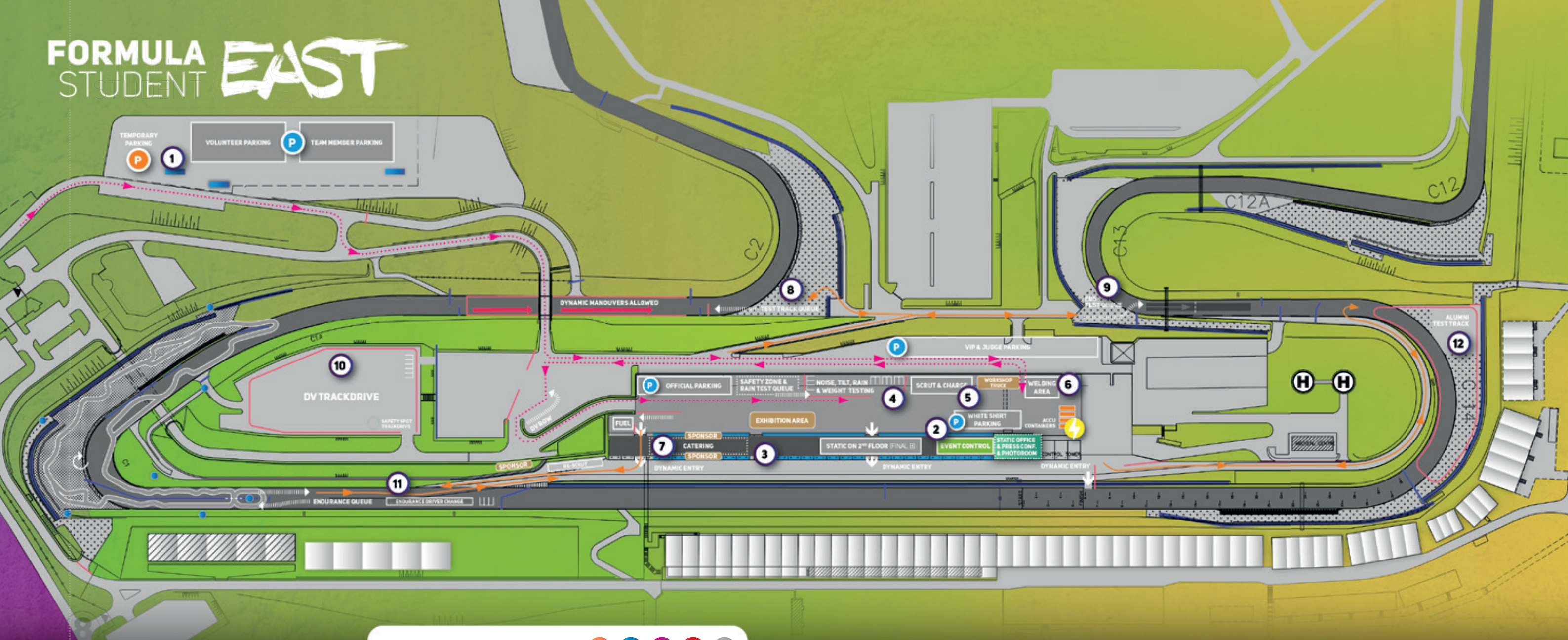


# DAY #4

HERE IS THE WHERE HERE IS



# FORMULA EAST STUDENT



## HIGHLIGHTS OF THE DAY

EVENT STATIC DYNAMIC TECH ALIMN

- 08:00 - 08:45 Team Briefing @Catering
- 08:45 - 09:15 Track Walk @Endurance Track
- 09:00 - 12:00 Trackdrive/Autocross DV
- 09:00 - 18:00 Data Logger & Transponder Collection @EC
- 09:15 - 12:00 Endurance EV@Endurance Track
- 13:00 - 16:00 Trackdrive/Autocross DV
- 13:00 - 16:00 Endurance Final EV@Endurance Track
- 18:00 - 20:00 Moving out from the Pits
- 21:00 - 22:30 Award Ceremony Part II @Camping

## MAP LEGEND

- |                              |                      |                   |
|------------------------------|----------------------|-------------------|
| 1 ENTRANCE / TICKET CENTER   | 9 EBS TEST           | ARRIVING TO EVENT |
| 2 EVENT CONTROL              | 10 DV TRACKDRIVE     | PATH TO TRACK     |
| 3 TEAM PITS                  | 11 AUTO X TRACK      | FENCE             |
| 4 NOISE, TILT, WEIGHT & RAIN | 12 ALUMNI TEST TRACK | ACCU CONTAINERS   |
| 5 SCRUTINEERING & CHARGE     |                      | WAITING SPOT      |
| 6 WELDING AREA               |                      | WATER WALL GATES  |
| 7 CATERING ON ROOF           |                      | PARKING           |
| 8 TEST TRACK                 |                      |                   |

DAY #5  
6TH OF AUGUST  
SUNDAY



DAY #5  
HERE IS THE WHERE HERE IS



OFFICIAL PARKING

SAFETY ZONE &  
RAIN TEST QUEUE

NOISE, TILT, RAIN  
& WEIGHT TESTING

SCOOTER CHARGE

EXIT TO DYNAMIC

POSEIDON RACING TEAM CV	PRAVEGA RACING CV	FORMULA MANIPAL CV	AGH RACING CV	WARSAW UNI OF TECHNOLOGY RACING TEAM CV	OBUDA UNI RACING TEAM CV	KEFO MOTORSPORT CV	CIVIS RACING TEAM CV	ARRABONA RACING TEAM CV	U MOTORSPORT CV	FS UPV TEAM TU VALENCIA CV-DV	ESTACA FORMULA TEAM CV	GREENTEAM UNI STUTTGART EV	RACE UP EV	TU GRAZ RACING TEAM EV	FORMULA ELECTRIC BELGIUM EV	LUND FORMULA STUDENT EV
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
WU																
FORMULE ETS EV	FORMULA STUDENT TEAM DELFT EV	TU WIEN RACING EV	RACE UP CVH	RENNTTEAM UNI STUTTGART CVH	TAMPERE FORMULA STUDENT CVH	FS TECHNICAL UNIVERSITY OF LIBREC RACING CVH	FORMULA TU OSTRAVA CVH	BME MOTORSPORT CVH	HIGH SPEED KARLSRUHE CVH	ZIPS RACING CV	UPT RACING TEAM CV	UNIBO MOTORSPORT CV	SEAGULLS LUEBECK CV	CENTAURUS RACING TEAM CV	POSEIDON RACING TEAM CV	

WC

TU BRNO RACING EV	ARUS ANDALUCÍA RACING TEAM EV	TU DARMSTADT EV	HIGH-OCTANE MOTORSPORT EV	GLOBAL FORMULA RACING EV	BODENSEE RACING TEAM EV	MAINFRANKEN RACING EV	TEAM KRATOS RACING EV	TU ISTANBUL RACING EV	REVOLVE NTNU EV-DV	DYNAMIS PRC EV-DV	DYNAMICS-OTH REGENSBURG EV-DV	KA-RACEING EV-DV	STUBA GREEN TEAM EV	ECURIE AIX DV	ELBFLORECE F5 TEAM TU DRESDEN DV	STARKSTROM AUGSBURG DV	E-GNITION HAMBURG EV-DV	BME FORMULA RACING TEAM EV-DV	AMZ RACING EV-DV	FS TEAM TALLINN EV-DV	SUPERIOR ENGINEERING FS TEAM EV	ORION RACING INDIA EV	TYRE CHANGE	MUNICHMOTORSPORT EV	HAWKS RACING EV	RENNSTALL ESSLINGEN EV	E-TEAM DUISBURG-ESSEN EV	RUB MOTORSPORT EV	PROM RACING EV	FSB RACING TEAM EV
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32															
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32															
WC																														

ENTRY TO DYNAMIC

MAINDRUNKEN RACING 2007 CV	F ALUMNI S TEAM DELFT 2017 EV	DYNAMIS POLIMI REPARTO CORSE 2019 CV	KA-RACEING ALUMNI 2021 CV	RAVETECH RAVING TEAM 2010 CV	DHBW ENGINEERING STUTTGART 2018 EV	SCUDERIA MENSA ALUMNI RACING TEAM 2019 CV	PHOENIX RACING TEAM 2019 CV	PHOENIX RACING TEAM 2019 CV	DHBW ENGINEERING 21ER CV	MAINDRUNKEN RACING 2018 CV	MUNICHMOTORSPORT 2020 EV	ALUMNICS REGENSBURG 2014 CV	ARISTOTLE UNIVERSITY RACING TEAM DV	CHALMERS FORMULA STUDENT DV	EINSTEIN MOTORSPORT DV	MORE MODENA RACING DV	TU FAST DV	EINSTEIN MOTORSPORT DV	CURE MANNHEIM DV	UNIVERSITY RACING EINDHOVEN DV	SQUADRA CORSE DV	PWR RACING TEAM DV	EPFL RACING TEAM DV	TU FAST DRINKING TEAM 2018 EV	TU BRUNO RACING 2019 CV	BODENSEE DRINKING TEAM 2019 CV	RENNTERSTALL ESSLINGEN 2021 CV	EINSTEIN MOTORSPORT 2019 CV	RENNTERTEAM UNI STUTTGART 2016 CV	ELBFLORECE FS TEAM 2018 EV	HIGH-OCTANE MOTORSPORT 2021 CV	FORMULA ARRABONA RACING TEAM 2016 CV	TU FAST DRINKING TEAM 2021 EV
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
WC																																	

EVENT  
CONTROL



HERE IS THE WHERE IS



ORGANISATIONAL ASPECTS

ARRIVAL AND REGISTRATION FOR THE EVENT

TEAM REGISTRATION AND CAMPSITE CHECK-IN

Schedule: Tuesday, 1st of August (from 12:00 to 18:00)  
Location: FS East Camp - Ticket Center (Camping)

The first moment for the teams of Formula Student East is arriving at the FS East Camp on 1st of August.

Team registration is handled based on a reservation system, which offers predetermined time slots for the teams that they can apply for. This enables a planned arrival and reduces the queue at the entrance. The time slots and details of the process are announced at [fseast.eu/logistics-2023](https://fseast.eu/logistics-2023) prior to the event.

Our colleagues record your arrival, and give you any possible info about the next steps - registration, parking, moving into the campsite etc.

Only the Team Captain is allowed to register his/her team, however, the entire team must be present at the Team Registration. During the first step of the registration procedure Team Captains submit a printed version of the Standard Terms document signed by all team members which is available on the Rules & Important Documents page of the FS East website [fseast.eu/rules-important-documents-2023](https://fseast.eu/rules-important-documents-2023).

By signing the Standard Terms the teams state that they accept the rules of the event, that only team members will work on the car, also understanding and following the safety guidelines of the event. Here will Team Captains get the starter package, which includes the passes, team car pass (which you have to fill out with all necessary information and stick on your car), an event handbook and a handy, after that the whole team can proceed to the following stage.

The next step of the registration is handing out the campsite wristbands of the team members. Campsite wristbands will be handed out based on the accommodation booking and on the Team Member Designation document.

Teams participating in Scrutineering on 1st of August at the Campsite must register at least one ESO during Team Registration to obtain a wristband.

If the registration procedure is over then the team is ready to move into the campsite with the help of our logistics team. Please note that the pits will be accessible only from the next day!

Useful contact: Nándor VARJU +36 31 784 2827

Team members who arrive later will be able to get their passes and wristbands separately at the Ticket Center of the event site at Hungaroring.

ARRIVAL TO THE EVENT SITE

Schedule: Wednesday, 2nd of August (from 7:00 to 12:00)  
Location: Hungaroring - Main Gate

Teams are able to move into the pits from 7:00 AM on 2nd of August, which is coordinated by our logistics team based on the scrutineering order, except for teams with priority for static events. With a valid pass and car pass, you can enter Hungaroring and our colleagues will guide you to your pit for unpacking. The Ticket Center will be open from 7:00 AM to handle the rest of the team registrations.

If you're not able to access the event site at once, the officials will show you the place to park your vehicle(s) and wait until you get the permission to enter.

DISCLAIMER!

WE WANT TO PROVIDE YOU WITH AN EXCELLENT EVENT EXPERIENCE DURING THE 5 AND A HALF DAYS YOU SPEND AT FS EAST 2023. AS OUR TIME IS LIMITED, WE STRONGLY ADVISE YOU AND ASK FOR YOUR COOPERATION IN ADHERING TO THE SCHEDULE - ESPECIALLY ON THE EXACT TIMES OF MOVING OUT OF THE PITS AS WELL AS FINISHING DYNAMIC DISCIPLINES! NO CAR WILL BE ALLOWED TO START THEIR RUN AFTER 17:55!

YOUR COOPERATION ENSURES THE FAIREST AND SMOOTHEST EVENT EXPERIENCE FOR YOU AND OTHERS AS WELL. TO EASE SCRUTINEERING, TWO SCRUTINEERING STEPS WILL BE AVAILABLE IN THE CAMPSITE ON THE 1ST OF AUGUST (TUESDAY):  
■ ACCUMULATOR SCRUTINEERING  
■ SAFETY EQUIPMENT CHECK

PLEASE PREPARE ACCORDINGLY AND CONSIDER THIS WHEN PACKING YOUR EQUIPMENT!

SAFETY REGULATIONS REGARDING ENTRANCE

Please pay high attention and DO NOT block any emergency exits of the event. Please follow our officials' instructions at all times. DO NOT park your truck at the gates until the officials order you to do so.

After finishing unpacking, all trucks and cars have to leave the main event area and be parked at the designated parking zones. Please note that for the upcoming event days, cars will be banned from the event site.

DRIVER REGISTRATION

Schedule: Wednesday, 2nd of August from 8:00  
Location: Event Control

The drivers have to be registered at the Event Control from Wednesday 2nd of August where they have to show their valid driver's license.

ESO REGISTRATION

Schedule: Wednesday, 2nd of August from 8:00  
Location: Event Control

All EV teams and DV teams have to register dedicated members with thorough knowledge about the vehicle's electrical systems: at least one Electrical Safety Officer person (ESO), and at most 4 more team members who can enter the charging area (altogether maximum 5 people). The ESOs have to sign the registration document during Team Registration at the Campsite.

The ESOs have to be nominated in advance on [login.fseast.eu](https://login.fseast.eu). Late registrations will be handled from 2nd of August at the Event Control.

ASR REGISTRATION

Schedule: Wednesday, 2nd of August from 8:00  
Location: Event Control

Autonomous teams have to register dedicated members with thorough knowledge about the vehicle's autonomous systems: at least one Autonomous Systems Responsible person (ASR), and at most 5 more team members who have to be present whenever the autonomous systems are operated (altogether maximum 5 people). The ASRs have to sign the registration document at the Event Control from 2nd of August.

The ASRs have to be nominated in advance on [login.fseast.eu](https://login.fseast.eu).



#### **PARKING AND VEHICLE PASSES FOR THE EVENT**

All teams have to ask for a Car Pass at the Team Registration (or in case of late registration at the Ticket Center) upon arrival for all vehicles.

The car pass has 4 fields: team name, driver's name, cell phone number and licence plate number.

Each cell has to be filled out during the Team Registration (or in case of late registration, at the Ticket Center).

Teams are allowed to park in the designated "Team Member Parking" area without any time restrictions with a Car Pass.

Additionally, they can access the upper "Official Parking" located in the pitlane with a Time-Limited Parking Permit, which allows them to park for up to 30 minutes. It is essential to prominently display the Permit on the windshield with the arrival time written on it every single time. Time-Limited Parking Permits are given during Team Registration, 1/team.

Please be informed that any misuse or abuse of the parking privileges may result in the revocation of the Permit for one day.

**We kindly ask everyone to follow these guidelines to ensure smooth parking operations during the event.**

**NOTE:** The evacuation route has to be unobstructed all the time, that is why we need to regulate the venue's traffic. Please follow our guides in any case - unloading your vehicles, leaving the venue, moving by car/truck at the venue.

The pits can be unpacked AFTER Endurance on 6th of August. Teams who finish the competition can ask our colleagues for help for early unpacking, however the main time slot for moving out of the pits is on Sunday, 6th of August between 17:00 and 20:00. All parking areas should be left until 20:00 on Sunday, 6th of August at the latest. Inside the event area walking speed is the limit for cars too, 5 km/h maximum!

#### **ALL PARKING AREAS SHOULD BE LEFT UNTIL 20:00 ON SUNDAY, 6TH OF AUGUST AT THE LATEST.**

Inside the event area walking speed is the limit for cars too, 5 km/h maximum!

#### **TICKET CENTER**

**Schedule:** From 2nd of August, 7:00 to 6th of August 14:00

**Location:** Event site entrance

Teams, guests and officials receive their passes for entering the venue at the Ticket Center.

#### **EVENT CONTROL**

**Schedule:** From 2nd of August, 7:00 to 6th of August 17:45

**Location:** Event Site

Event Control is the central contact point for teams and all issues concerning the event.

#### **Event Control provides:**

- Information point for all competitors (concerning schedule, general questions etc.)
- Contact interface to the officials
- Registration of the drivers
- Registration of ESOs, ASRs and charging area staff
- Transponder handout point
- Document submission point (printed copies)
- Lost and found
- Feedback

# ENGINEERING AT ITS HIGHEST LEVEL



**KNORR-BREMSE**



# THE BOSS

## BOARD MEMBERS



**Dávid KISS**  
Board | Event Manager ||  
President of AAME



**Alexander DUDÁS**  
Board | External Relations ||  
Vice-President of AAME



**Bernadett ÖTVÖS**  
Board | Event Control Leader



**Csaba TARI**  
Board | Dynamic Leader



**Krisztina HORICSÁNYI**  
Board | Static ||  
Business Plan Presentation  
Event Responsible



**Péter LINDNER**  
Board | Technical Inspection



**Tamás CSÜTÖRTÖKI**  
Board | Event Manager



**János KUN**  
Board | PR Leader



**Tamás BERKECZ**  
Board | Score Counting



**Nora PÁPAI**  
Board | HR Responsible



**Bálint BRUNCSICS**  
Board | IT Responsible



**Dániel SALAMON**  
Board | Alumni Cup

## THE BADASS

### EXECUTIVE COMMITTEE



**Zsolt THAMÓ**  
EC | Autonomous  
Technical Inspection  
Responsible



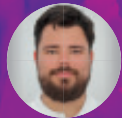
**János SZALAY**  
EC | Electrical Technical  
Inspection Responsible



**László BÁNÓCZI**  
EC | Mechanical Technical  
Inspection Responsible



**Nóra NÉMETH**  
EC | SES & IAD  
Responsible



**Tamás LÉNÁRT**  
EC | Engineering Design Event  
Responsible



**Krisztián BANA**  
EC | Cost & Manufacturing  
Event Responsible

## THE A-RANGER

### EVENT TEAM



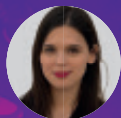
**Szabolcs GYÖRKÖS**  
ET | Controlling Responsible



**Dániel VÁRNAGY**  
ET | Graphic Design  
Responsible



**Nándor VARJU**  
ET | Logistics Leader



**Szandra HOFER**  
ET | Project Manager



**Timea NAGY**  
ET | Event Coordinator



**Csilla RUSZTHI**  
ET | Social Media  
& Team Communication

## THE SPARKPLUG

### OPERATIVE TEAM

#### DYNAMIC



**Zsófia VÖRÖS**  
OT | Skid Pad  
Event Leader



**Dávid SZEGLETES**  
OT | Acceleration Event  
Leader



**Gergely LÉGRÁDI**  
OT | Endurance & Autocross  
Leader



**András HORVÁTH**  
OT | Endurance & Autocross  
Leader



**Máté TÓTH**  
OT | Driverless Events  
Responsible



**Lilla LUGOSI**  
OT | Timekeeping & Dynamic  
Area Scoring Responsible



**Imre KOVÁCS**  
OT | Dynamic Scrutineering  
& Driver Change Area Leader



**Ádám PAULUSZ**  
OT | Dynamic Preparation  
Team Leader



**Bendegúz KOMORÓCZKI**  
OT | Dynamic  
Preparation Team



**Róbert PUSZTAVÁMI**  
OT | Dynamic  
Preparation Team



**Marcell SCHUH**  
OT | Fuel Station  
Responsible



**Bendegúz SZIRMAI**  
OT | Brake Test  
Responsible

#### STATIC



**Csaba AL-HAFEZ**  
OT | Engineering Design  
Event Support



**János TÓTH**  
OT | Cost and Manufacturing  
Event Support



**Napsugár HUNYADI**  
OT | Dynamic Volunteer  
Assignment Responsible



**Balázs HERED**  
OT | Layout & Autocross /  
Endurance Preparation

## OFFICIALS

At the venue, we will answer your questions directly.  
To contact us before and after the event, please write us an e-mail to [hello@fseast.eu](mailto:hello@fseast.eu)  
The fastest and easiest way to communicate with us is on-site.

# YOU ARE HERE!

WELCOME TO FORMULA STUDENT EAST  
MAKE THE FIRST STEPS! REGISTER AT TICKET CENTER!

# WITHOUT THEM IT COULD NOT HAPPEN



**SUPPORTERS:** BALAZS SZEGEDI, BÁLINT MÉSZÁROS, BENCE FARKAS, BENCE PÓNYA, BENJÁMIN MÁRK TELEK, BOTOND VASKI, BOTOND LOVÁSZ, DÉLIA KELEMEN, DOMINIKA VIDA, ELIZABET SZÉCSI, EMESE NAGY, KATALIN PUHA, KOPECZKY SOMA, KRISZTIÁN VIDA, TAMÁS MANDEL, VINCE BALÁZS PONGRÁCZ **TRACK MARSHALS:** ALBERT RENZ, ALEXANDER KRAUS, ALEXANDRA GKENTZI, ALIKHAN ABDYKALYKOV, ANNA BEDICS-NÉMETH, BARNABÁS SZABADI, BENCE MÁTÉ-KISS, BENDEGUZ BAGOSI, BENEDEK MÜLLER, BERNADETT BÖDÖK, BOTHO LEHMANN, CAMILLA ANDRAE, CSONGOR NÉMETH, CZELTER PÉTER, DANIEL HARTMANN, DÁNIEL KELEMEN, DÓRA HOVANY, EMESE KOCSMÁROS, ENDRE PÉNTEK, ESZTER NAGY, FANNI VIZSY, GERGELY ANDRÁS CSERŐS, GERGŐ BOROSNAKI, GRÉTA FARKAS, HENDRIK KNISPEL, JANNIS ALEXANDER GOLLA, JÁZMIN SALAMON, JULIA FEHRENBACHER, KRISZTIÁN ERNYEI, LEVENTE KÁNTOR-SZABÓ, LEVENTE BÖDÖK, LUISE KOLB, MARCELL NAGY, MARCELL BEDŐ, MARTIN BÜTTNER, MARTIN GOMEZ SALAZAR, MARY HART, MÁTÉ LIPTÁK, MÁTÉ SZABÓ, MILÁN SZENTPÉTERI, OLIVÉR PASEK, ORSOLYA VÖRÖS, PETER HALASZ, PÉTER PINCZÉS, PÉTER ZSOLDOS, PHILIPP THOMA, SHASA SILVESTRI, SVEN VIERLING, VAIBHAV ANAND, YANNIK LAUFER, ZITA FÉBERT, ZSÓFI KALMÁR **SCRUTINEERS:** ALEXANDROS SISKOS, ANDREAS DIKAS, ÁRON SEBŐ, ATHANASIOS SALTAS, AYDIN TEKDAL, BENCE TORDAI, BENEDIKT WAGNER, BENEDIKT HOFMANN, CHRISTIAN SCHAPPMANN, CHRISTIAN SEITZ, CHRISTOS MICHOS, CONRAD GROEZINGER, DANIEL HAGEL, DANIEL ZINN, DANIEL JÄGER, DOMINIK KOVÁŘ, DOMINIK STAERK, DOMINIK BIRÓ, FABIAN RAISER, FELIX NICKLAS, FOTIOS ALEXANDRIDIS, FRANK WITTMANN, FREDERIK MARBUS, HENRIK KUNZELMANN, JANNIK KAISER, JONAS EBERHARD, JOSHUA PARHAMMER, KORBINIAN VIERHEILIG, LEIF PINNECKE, LEON BLUM, LUCA DEMMING, MARC SAUTER, MARCEL FRÖHR, MARTIN TÓTH, MARTIN GAST, MARWIN BATZ, MÁTÉ KOBÁ, MÁTÉ LAJTER, MAX FRIEDEMANN, MAX HEIDBRINK, MICHAEL MEISER, MINH-QUAN PHAM DINH, MORITZ BEER, NICOLA ERRIU, NICOLE BALZ, NIKLAS ERNST, NIKLAS FRIEDRICH, NIKLAS OHLY, NILS KRISTANDT, PASCAL DRESSLER, PATRICK STAUB, PAULA KOSTRON, PAVLOS KAZAKOS, PETER MÜLLER, RICHARD HOHMUTH, ROBBIN HEIJERMAN, SEBASTIAN SCHNECK, SIMON MÜRWALD, SIMON KARSCHNER, STEFAN OECHSLEIN, STEFAN SCHNEEBERGER, STEVEN LAMINO, SVEN OEHRI, TAMÁS HORVÁTH, TAMÁS TÓTH-KATONA, TAMÁS NAGY-GALACZI, THOMAS CHRISTEL, TIM HERKENHOFF, TIMO ROHLOFF, TOBIAS LANGENBACH, TOBIAS LANGLOIS, TOMÁŠ FIALKA, TONI SCHOTT, VALTER SÁRÁ CZ, VÍT VRUBEL, VLADIMIR DINEV, ZALÁN ZRUPKÓ, ZSOLT HIDEGFÖLDI **JUDGES:** ADAM VONDRAK, ADAM ZSOLT BOKONYI, ÁGNES GABRIELLA SZABÓ, AIKATERINI KARAMARIOGLOU, ALEXANDER MORHARD, ANDRÁS IZSÓ, ANDRÁS SZEKERES, ANDRÁS BALDAUF, ANDREA VEZZOLI, ANDREA

PIROTTA, ANDREA ARIOLI, ANDREAS SCHMID, ANIKA LEHNERT, ANNE BEYER, ARASH SHIRIAN, ARMIN SCHOCH, ÁRPÁD KAPITÁNY, BALAZS SUHAJDA, BALAZS MESZAROS, BALINT SZABO, BÁLINT KARDOS, BÁLINT PRAKTER, BENCE KAPUVÁRY, BENEDEK KOVACS, BENEDEK LEVENTE TAJTI, BENEDIKT WEICHEL, BENEDIKT WOHLER, BERNARD BEKKER, BETTINA SZELEZSÁN, BOSCO LOPEZ, CAROLIN ULLMANN, CHRIS SCHÖNBERG, CSABA HAJTÓS, DANIEL SZAVICS, DANIEL FESZTY, DÁNIEL VASS, DAVID GANDYRA, DAVID KAISER, DÉNES ÁGOSTON SOLNAY, DOMINIK MAGERLE, DOMINIK KLEMENT, DOMINIK MAIER, DORKA BŐSZE, ERNESTO RICCIARDI, ERVIN BALINT, EUGENIO DE SIMONE, EVELIN ILLÉS, FELIX RODACH, FERENC TÓTH, FRANCESCA MILITO, FRÉDÉRIC JUSTUS KAUFFMANN, FYNN WOJAHN, GABOR JOO, GEORGE CHRISTIDIS, GEORGINA GOCZA, GERGELY MATIN, GERGELY HUNYADY, GERT SPEK, GRETA CITTON, GYÖRGY GIERLING, HANA SALAMEH, HANNA WERNER, HANNA HORVÁTH, HARSH GOGRI, IMOLA BERKECZ, IMRE SOMOGYI, ISTVÁN ERDŐDI, IVANA MILOŠEVIĆ, JACOB CULLEY, JAKOB RAZDEVŠEK, JAN FURMANEK-KUZMENKOV, JANNIK BAUER, JANOS MAJER, JÁNOS HALAS, JONAS COESFELD, JONAS HOLTERMANN, JOWETT MILLAN PADAYAO, JULIA SZILVASSY, JULIAN PREUSS, KAI TIETZ, KATALIN DR FESZTY, KEVIN BANEÁ, KILIAN ECKERT, KLEMEN PONGRAČIČ, KONSTANTINOS PAPADIMITRIOU, KRISTÓF KLEM, KRISZTINA HORICSANYI, LÁSZLÓ SZABÓ, LÁSZLÓ DÁVID CZÉL, LAURA GLOSSNER, LAURA KLECKNER, LEVENTE BERE CZKI, LILLA HOLLO, LINDA HORVATH, MANIKANTA VENKATESH, MANUEL BALZ, MARC HÄGELE, MARCELL BALOGH, MAREK DOSTÁL, MARIE BELLER, MARKUS NENZEL, MARTA KUBALA, MARTIN RUDOLPH, MATE MATUSKA, MATE JECLER, MATTEO PROSERPIO, MATTHIAS GRELL, MATYAS RABAI, MAXIME FROHN, MAXIMILIAN RÜDINGER, MUKUL BARDAY, NICOLAS QUINTO, NICOLÒ CAMPANINI, NIELS MEINKE, NIKLAS HEIN, NILS DEDNER, NILS BEYER, NIMROD LUDESCHER, NINA WALLUSCH, NOAH KNABBEN, OLE BAUER, OLIVÉR PIBER, PAGO SEVILLA, PASCAL BALLAUF, PATRICK SCHULTES, PAUL DELSEITH, PEDRO AMARAL, PETER KAKAS, PÉTER JAKUBOVICS, PÉTER ARANY, PÉTER VÖRÖS, PETR SKARA, PHILIPP KALANKE, PHILIPP STOY, RÉKA KUSTÁN, RIEKE EHRSAM, ROBIN HERKERT, ROLAND DR. BICZÓ, SABRINA GEGG, SAMUEL ROSLANSKY, SEBASTIAN RODE, SEBASTIEN COURTOIS, SHIVAM GUPTA, SIMON FRANK, SIMON BIECHELE, SIMON LANGFORD, ŠTEFAN SANETRIK, ŠTĚPÁN KASPAR, SZILÁRD ZOLTÁN TÓTH, TAMÁS ILLÉS, TAMÁS BERKECZ, THÉO DAIGREMONT, THERESA KAISER, THOMAS SCHWARZHUBER, TÍMEA LÁZÁR-FÜLEP, TIMOTHY ANTICEVICH, TOMÁŠ ADAMEC, VERENA HÖFLER, VIKTÓRIA GÖDÉR, VINCENT KENGELBACHER, WOUTER HEERWEGH, YANNIK DELANK, ZOLTÁN KOTHENCZ, ZOLTÁN ÁBRAHÁM, ZOLTÁN IMRE DOMOKOS, ZSOLT SZABÓ, ZSOLT FARKAS

WE ARE THE CORE



ANNOUNCEMENTS

The event will proceed according to the official time schedule as far as possible. Listen to the announcements on speaker and read them on Telegram, and look out for the placards at the event control for changes in the schedule. All announcements made through speaker and on Telegram are official.

PIT OPENING TIMES & EQUIPMENT

The pits are open on all event days according to times determined in the Event Schedule.

It is not allowed to stay or work in the pits any other periods.

Teams who remove their vehicle (EV and IC) or tractive system accumulator from the competition site after the competition has begun will be disqualified from the competition.

Violation of any of the above rules will result in a disqualification for the whole event.

Leaving the pit in the order required by the rules (e.g. storage of Li-Ion Accumulators) is the responsibility of the teams. Any damage caused by not following the rules of the event or the orders of officials is the responsibility of the respective team.

PIT EQUIPMENT

In every pit there are regular 230 V AC, 16 A power sockets. During the night the pits are guarded. You can see the pit arrangement on the team list and on the team flags on the pit entrances.

SURVEILLANCE

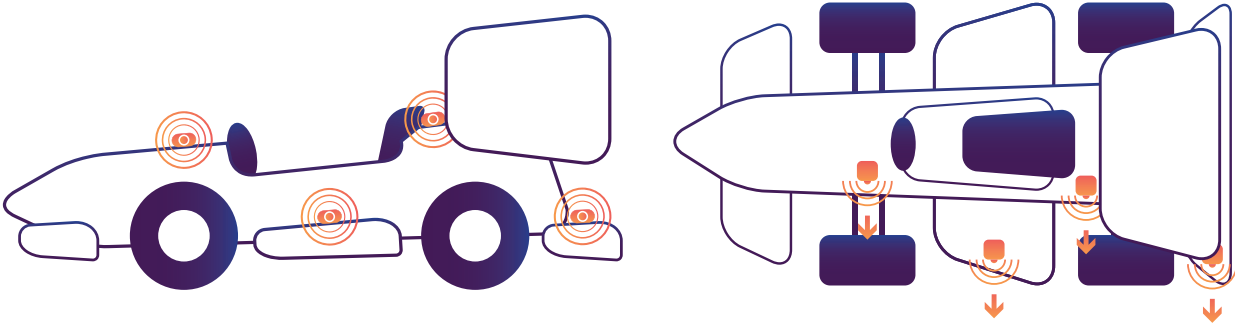
After closing time, there will be a security company for surveillance of the event site, pits and cars. During the day, the teams are responsible for the security of their car and the equipment in their pit. Do not leave any valuables open in your pit at any time. Security is unable to monitor everything all the time.

TRANSPONDERS AND TIMEKEEPING

You get a transponder used for timekeeping at Event Control in charge for 50€ deposit. You have to mount it on your car yourself. The transponder must not be removed until the competition ends, since it is vital for the timekeeping system. At the end of the competition, please return the transponder to Event control, where you will get back your deposit. The exact time of transponder handout will be announced at the site.

Transceiving surface of the transponder must not be faced to the ground, but point to the left parallell to the ground and perpendicular to the centerline of the vehicle. The transceiving surface must not be obscured by any parts of the vehicle. Transponders will be provided by FS East Event. Transponders must be placed safely (securely attached, protected from debris and hot surfaces) on the left side of the vehicle (preferably on the nose cone, sidebox or diffuser) for timekeeping.

Only EV and CV vehicles are required to use a transponder. Timekeeping for DV-only vehicles does not require a transponder.



If you are unsure of the position or orientation, or if a transponder comes loose or falls off, please contact a member of the timekeeping team at Event control. Please note that the shown data is unofficial. No protests can be handed in based on the live-timing.

The handing out of the transponders will take place on the third day (04.08.) in the morning. You can pick them up at the Event Control starting from 7:45 AM.

Please send pictures of your transponder mounting to [lilla.lugosi@fseast.eu](mailto:lilla.lugosi@fseast.eu) until 04.08. 11:00. Email should contain your car number and your team's pit number.

TELEGRAM  
ANNOUNCEMENTS  
ONE-WAY QR CODE  
[HTTPS://T.ME/+Y7AUVCTECHIWYWI0](https://t.me/+Y7AUVCTECHIWYWI0)

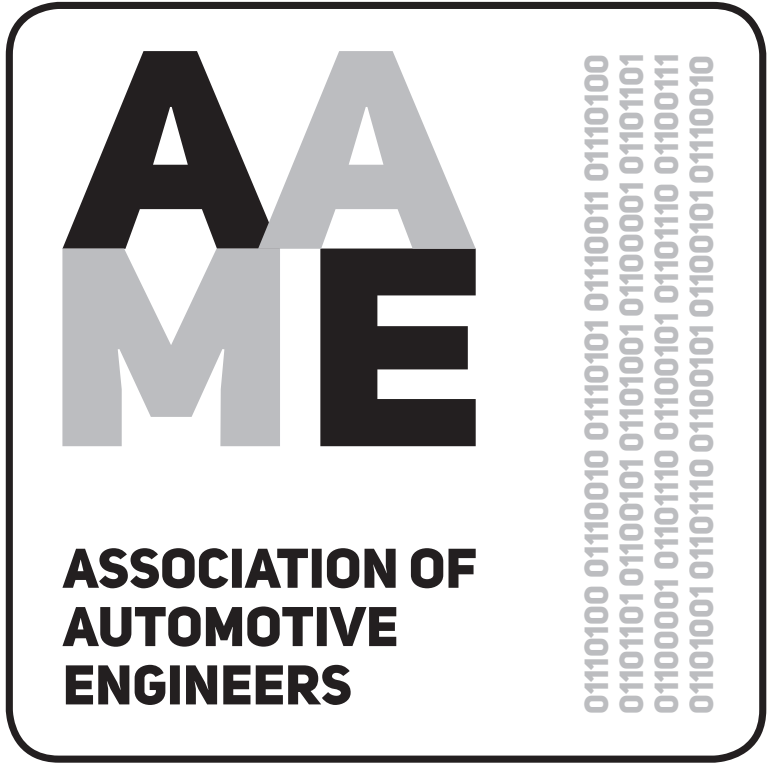


MANDATORY STICKERS ON CAR

Teams have to apply the organiser of the Event, Association of Automotive Engineers logo on their car. Logo can be downloaded from [fseast.eu/press-2023](https://fseast.eu/press-2023)

The sticker has to be:

- On both sides on the car
- On a Well visible vertical surface
- Edges has to be 100 mm long



OR YOU CAN USE THIS COPY ;)  
ITS SIZE FITS THE RULE ABOVE



## RULES AND GUIDELINES

Everyone (participants, volunteers, & visitors) at Formula Student East would like to enjoy an accident free event. The following guidelines have been established to advise teams of potential unsafe practices in the paddock and pit area.

### ALCOHOL

**PLEASE NOTE: Alcohol at the event site is strictly forbidden!**

Along with the fun, we want a safe competition. There will be alcohol testing (breathalyzers) during the event. 0 % is the allowable alcohol content during this event for everyone.

**If ANY team member (driver or not), is tested with an alcohol level higher than 0.0 %, he or she will be immediately disqualified for the rest of the event. The second person of the same team caught with an alcohol level higher than 0.0 % will result in the entire team being disqualified immediately.**

For the Formula Student East Camp other rules apply for alcohol consumption.

### FIRES AND SMOKING

**No open fires are allowed in the pit area and in the engine test area.** This includes BBQ grills, oxy-acetylene torches, heaters, cigarettes, etc. **Smoking is strictly prohibited in the dynamic area, in all buildings, and in the pit area.** Smoking is permitted only in the dedicated area of the event site and outside the ticket center.

### JACKING

When jacking your car up off the ground a safe, stable, load rated support device must be used. **The use of crates, piles of wood, or strong team members is NOT ALLOWED.**

### WORKING ON THE CAR

- Angle grinders can **ONLY** be used in the dedicated welding area.
- In case of using angle grinders, safety glasses are required.

When using metal cutting equipment that produces metal chips, eye protection is required for the operator as well as any team member assisting. During the use of loud power tools like drills or angle grinders, ear protection is required. Any operation producing litter or debris, e.g. cutting of carbon fiber parts, should not be performed in the pits. Please take care about your environment by not littering.

### WORKING ON THE TRACTIVE SYSTEM (EV AND E-DV)

An ESO and at least one more team member who can interfere in case of emergency must attend every activity which involves the tractive system. Opening any tractive system enclosure is only permitted if it is de-energized and disconnected from any high voltage source. If the enclosure is within the vehicle, the accumulator container needs to be removed from the vehicle.

Opening the accumulator containers is only permitted in the charging area, not in the pits. Activation of the tractive system of the car in the pits is prohibited.

**The tractive system may only be activated in the dynamic and the scrutineering area for testing purposes under following conditions:**

- Separate the car with a barrier tape
- The car must be jacked up and the driven wheels demounted.
- One team member must be prepared to push an emergency button at any time.
- Team members who take part in the measurement activities must wear compliant safety gloves and use appropriate measurement devices and tools.
- The tractive system must only be active when it is necessary.
- Only members of your team and Scrutineers are allowed to stay behind the barrier tape.

**After any activity on the tractive system during which seals were broken, an E-Scrutineering is mandatory.**

If any of the above mentioned instructions is not obeyed, it may result in deduction of points, ESO role disownment or disqualification.

### CHARGING CONNECTOR AND MAX. POWER

Only 32 A three phase (5 pin) sockets will be available in the Charging Area.

### ELECTRIC VEHICLE FIRES

The organisers are aware of a number of incidents where prototype electric vehicles caught fire and were completely destroyed. In some cases fire extinguishers were used to control the fire, but they didn't have any effect. For this reason the organisers reserve the right to take any action in order to stop or control the fire. This includes pouring lots and lots of water on the accumulator, which can have the effect of cooling the cells sufficiently to stop and control thermal runaway.

It is technically more difficult to handle electric vehicle fires in the pits, therefore the team must keep the possibility that the car can be easily pushed out of the pit. The HV accumulator must be observed for minimum one hour after it was charged.

**Any fire or accident must be immediately reported to the organisers.**

### TSAC EVENING STORAGE

Teams who rented a 20-foot container must bring their TSAC on the handcart to the assigned container by 20:45. Teams who bring their own ESD must place their TSAC within it by 20:45 in front of their pits. In case of a trailer is used as an ESD the team must park theirs to the place specified by the organizers on Day 1.

Consequently, TSAC charging will be stopped latest at 19:45 so the 1-hour cooldown time after charging can be kept. The organizers will check the placement of each TSAC by 21:00.

The responsible persons of the TSAC can only leave the event site after the check is completed for their TSAC.

### 20-FOOT CONTAINER RENTAL PROCEDURE:

A rental fee of 150 Euros (including 27% VAT) must be paid for the container required for the overnight storage of the batteries during the event by each team who wants to use this service. The rental fee of the container must be paid at Event Control, in exchange you will get an invoice issued by AAME.

Multiple batteries will be stored side by side in the containers. The purpose of the containers is to protect the batteries from the weather and to protect the personnel, racecars, equipment and the infrastructure of the event in case of an overnight battery malfunction. If one or more battery malfunctions and catches on fire, it is possible that the other batteries will also be damaged inside one container for which the organizers cannot take responsibility, but the security staff and, if necessary, the authorities will do their best to minimize the damage with all the available equipment and circumstances appropriately.

All teams use the container storage at their own risk and responsibility. When the teams pay the rental fee, they do so in full awareness that the other batteries stored in the same container may pose a danger to their own batteries, for which the organizers cannot take responsibility.

### RUNNING ENGINES OR MOTORS

You are allowed to run engines (IC) or put the car into ready-to-drive mode (EV) **ONLY** in the designated engine test area, after passing scrutineering.

**Maintenance and usage of FS cars and parts in the campsite is forbidden, except for Day 0 (1st of August, Tuesday).**

### DATA LOGGERS

The deposit for the data logger must be paid at the Event Control, in exchange you will get a paper that proves that you have **paid your 250 € deposit**, then you must pick up the data logger and its accessories in the Technical Inspection Tent. Teams have to install the data logger in the car prior to EV2 scrutineering, according to the data logger instructions available on the FS East website. Any necessary information can be found in the Data Logger Specification. Teams can ask our E-scrutineers for help with the installation.

The proper functioning of the data logger will be tested during the second part of EV2 scrutineering. An E-scrutineer will read out the data logger data via WIFI connection each time whenever a car leaves the dynamic area to check the power and voltage limit during your competitive runs.



It is the responsibility of the team to ensure that the data logger data from each event is made available to the organizers. Failure to make the data available within one hour due to the team’s fault may result in the team not being scored for the respective event.

After the last dynamic event the data logger and its accessories must be returned in the Technical Inspection tent, then the deposit will be returned to the team in the Event Control. **Please note that you must return the data logger and every components (cables, sensor) in exactly the same condition as you got it** (no screws missing, no additional tape or velcro, no glue, etc.), otherwise the officials can decide to keep your deposit or a part of it. **It is the team responsibility to take pictures** of the logger, sensor and cables when they are picked up from the Event Control otherwise the data logger instructions will be considered as the original condition.

We encourage all teams to record own efficiency data for the unlikely event of a data logger failure during the endurance event. Any attempt to manipulate the intended function of the data logger may lead to a disqualification from the entire event.

If you have any questions regarding the data logger, please ask for the data logger responsible at the Scrutineering area, or contact directly Péter Lindner (+36-30/655-3534)

WELDING & TIRE CHANGE

Formula Student East provides an approved welder and a tire changing service on-site. Welding is allowed in the designated welding area only.

FIRE EXTINGUISHERS

Your fire extinguishers are to be immediately accessible at all times. All team members must be familiar with their use. At least one fire extinguisher must accompany the car wherever it goes.

Fire extinguishers will be provided by Hungaroring and will be available for all teams at the event site.

VEHICLE MODIFICATIONS

If you make any major modifications to your car, cars must return to scrutineering for re-approval.

FLAGGING

All drivers must know the competition-flagging signals.

BEHAVIOUR

Alcohol and drugs have no place at this event. Alcohol is only allowed at the campsite.

VEHICLE TESTING

Driving practice is only allowed within the designated test areas and at the designated times.

There will be two test tracks provided, one for the CV and EV teams and one for DV teams. Please drive during testing with care! The sides of the tracks are marked with cones, do not cross them!

On Test Track 1, Dynamic maneuvers are only allowed to the direction of the Hungaroring racetrack, please drive slow in reverse direction. On Test Track 2, there is a built-up track on test track 2, do not modify it!

Flags and communications



**BLACK FLAG**  
-The driver must pull into the driver change area for discussion with the officials concerning an incident. A time penalty may be assessed.

**BLACK FLAG WITH ORANGE DOT**  
-Mechanical black flag. The driver must pull into the driver change area for a mechanical inspection of the vehicle, something has been observed that requires a closer inspection.

**BLUE FLAG**  
-The driver must pull into the designated passing zone to be passed by a faster competitor. The driver must obey the track marshals signals at the end of the passing zone.

**CHECKERED FLAG**  
-The session has been completed. The driver must exit the course at the first opportunity.

**GREEN FLAG**  
(a) The session has started, the driver may enter the course under direction of the track marshals. In case of stalling, the vehicle can be restarted, but the driver has to await another green flag as the opening in traffic may have closed.  
(b) The driver is clear to re-enter the track after using the slow lane to let a faster vehicle pass.  
(c) The driver may pick up speed again after a yellow flag was displayed.

**RED FLAG**  
-The driver must come to an immediate safe and controlled stop on the course and must follow track marshals directions.

**YELLOW FLAG - WAVING**  
-Danger, the driver must slow down, something has happened beyond the flag station, no overtaking unless directed by the track marshals.

**YELLOW FLAG - STATIONARY**  
-Warning, there can be danger beyond the next flag station. The driver has to pay more attention to the following flags.

**RED AND YELLOW STRIPED FLAG**  
-The track is slippery or something is on the racing surface that should not be there. The driver must be prepared for evasive maneuvers to avoid the situation.

**WHITE FLAG**  
-There is a much slower car before the driver. The driver has to be prepared for slowing down until the next overtaking zone

HOW TO WHEEL THE CAR

Whenever a car is moved, please take care of the following::

- There must be a driver wearing a full safety suit seated in the cockpit.
- The car must be moved with a push bar (which must have a fire extinguisher attached).
- Cars with wings are required to have two team members walking on either side of the vehicle whenever the vehicle is being pushed.
- The detachable key of the primary master switch (IC) or tractive system master switch (EV) must be taken off completely.
- (For EV teams only.) In case the car has not passed all parts of E-Scrutineering, the HVD must be disconnected while the car is moving around on the event site, or while taking part in static events.

SPECIAL NOTE FOR DRIVERS

All drivers should do a check of critical fasteners and components on their vehicles to assure complete control during the driving events. Fasteners come loose, parts break due to fatigue, and occasionally someone forgets to torque a nut – this may have serious consequences for your safety!

REMEMBER:  
USE THE KILL SWITCH IN CASE OF AN ENGINE OR BRAKE MALFUNCTION!  
HAVE FUN – DRIVE SAFELY – USE COMMON SENSE!

HUMAN-POWERED AND MOTORIZED VEHICLES AT FORMULA STUDENT EAST

**Human-Powered Vehicles** (bicycles (including road bikes, mountain bikes, and city bikes), skateboards, rollerblades or inline skates, kick scooters, pedal-powered Go-karts, pedal-powered Tricycles, Bobby Cars or pedal cars, handcycles (powered by hand cranking), etc.):

Human-powered vehicles are permitted for use throughout the entire event venue, provided that all applicable traffic regulations are followed and pedestrians are given priority.

- Participants are allowed to use human-powered vehicles, such as bicycles or rollerblades, within the designated areas of the event venue.
- It is important to emphasize that all participants must comply with traffic rules, including speed limits, right-of-way, and traffic signs.
- Extra caution should be exercised when operating human-powered vehicles near pedestrians, and pedestrians should always be given special attention and priority.

**Motorized Vehicles** (cars, motorcycles,quads or ATVs (All-Terrain Vehicles), electric scooters or motorized scooters, electric bicycles or e-bikes, golf carts, utility vehicles (such as forklifts or transport carts), segways, etc.):

Motorized vehicles can only be used by officials within the event premises.

Only authorized event organizers and staff members are permitted to operate motorized vehicles within the event area. Teams and team members are not allowed to use motorized vehicles outside designated parking areas unless they have obtained special permission granted by the event organizers.

Please note that these regulations are in place to ensure the safety and smooth operation of the event. Participants are expected to adhere to these guidelines for the benefit of everyone involved.

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DYNAMIC EVENTS

GENERAL INFORMATION

The dynamics at FS East are compliant with the FSG Rules 2023 Part D and additional FS East 2023 Rules. The following pages describe the additional procedures and key aspects. Other information will be provided at the morning briefings on site.

In the context of Acceleration and Skid-pad events, there are three designated rows at preparation area. An additional row is reserved exclusively for use by our nursing home, catering to our esteemed alumni. During instances when the tracks are unoccupied, the nursing home occupants are granted the opportunity to utilize the tracks for the purpose of assessing and measuring the performance of their vehicles.

TEAM AND DRIVER BRIEFINGS

There are team briefings every morning of the competition at the Catering area at the designated time in the schedule, on Thursday, Friday, Saturday and Sunday. All drivers and team captains for that day must attend. The briefing contains general event information and detailed information about the dynamic events of the day.

Wristbands will be handed out to the participants on the morning briefings. Without these wristbands, attending dynamic events is NOT POSSIBLE. Missing the briefing (or late arrival) means no entrance to the dynamic events.

ACCESS TO THE DYNAMIC AREA

Every team will receive four rubber wristbands labeled “Dynamic pass”. With these wristbands at most four team members may enter the dynamic area or the engine test area, including the driver and/or the ESO. Drivers may take them off for driving but must put them back on afterwards. **Cheating on handing out wristbands from the dynamic area or using last year’s outdated wristbands is strictly forbidden and will be penalized!**

The final appointment, when it is allowed to start a run in the dynamic area is 17:55 every day (Test Track, Skidpad, Acceleration, Autocross, Endurance). All drivetrains must be turned off by 18:00. (All dynamic disciplines including Engine Test, Noise Test, Rain Test, Brake Test) Officials have the right to refuse the start of the run, if they judge, that the run will be not completed until the scheduled finish date of the event.

WEATHER

This is one of the factors which cannot be influenced by the event organisation. So please be aware that the timetable will not be changed due to bad weather conditions. Under normal conditions, the track is declared dry. If it is necessary to declare damp or wet conditions, there will be signs and announcements at the dynamic area. Please read the rules for more information.

SEALS

Scrutineers will mark or seal various approved parts (e.g. tires, rims, insulation monitoring device, accumulator containers, data logger...). The car can be disqualified from any dynamic event by using unmarked parts. Parts with broken seals are equivalent to being unmarked. Broken seals can only be replaced by a scrutineer.

CAR SET-UP ALTERATIONS

Teams do not have to use the same car set-up for all the dynamic events and are encouraged to make adjustments (e.g. tyre pressure and suspension settings) to give the vehicle characteristics best suited to each specific event. However, the car must comply with the rules, and all the seals from technical inspection must be intact.

FUEL AND OIL STORAGES

Open fuel containers are not permitted at the event. All fuel containers must be DOT approved. Waste oil is to be taken to the fuel station for disposal. Refueling is only allowed at the fuel station, but not in the pits.

ENGINE TEST AREA

Location: see site plan

This is a designated area for test running the engines or motors. Entering this area is only allowed with the Dynamic wristbands.

Your car must have passed scrutineering and you must follow these rules:

- The car must be in one of the designated engine test area slots.
- The car must be adequately supported, with the wheels at least 10.2 cm (4”) off the ground.
- While the engine is on, a driver must be seated in the cockpit, wearing a full safety suit and with the belts fastened.
- There must be a fire extinguisher immediately available.
- The gearbox must be in neutral, or the driven wheels must be demounted.
- No one is allowed under the car while the engine is running.
- Re-fueling is only allowed in the designated fuel area, not in the engine test area.

FUEL STATION (CV AND C-DV)

Location: see site plan

The fuel station will provide standard RON 100 fuel and MOL Racing Fuel DRX (specification can be found at fseast.eu) for teams. No other fuel or additives are permitted.

Be aware that no participant is allowed to bring fuel to the competition. FS East will provide all fuel for the competition at the fueling station.

No vehicle will be provided with fuel until it has passed scrutineering.

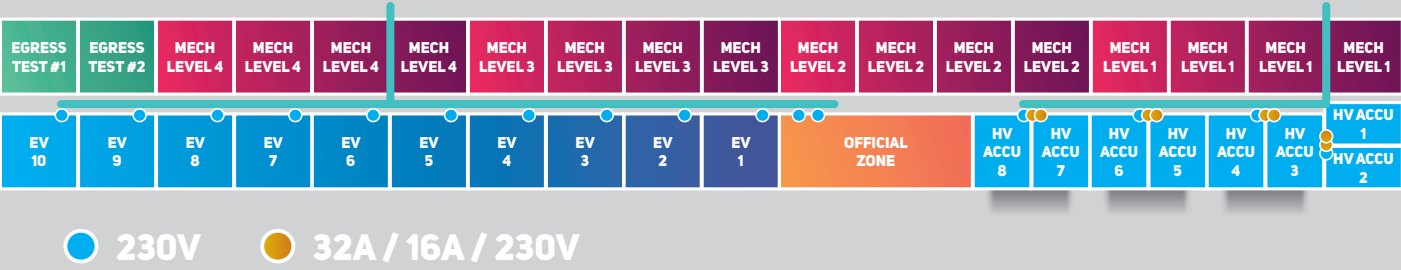
Draining fuel and lubricants from the car is only permitted at the fuel station.

Follow these safety guidelines while in the fueling area:

- All engines must be turned off; cars are to be pushed to and from fueling.
- Fueling can only be possible for cooled-down vehicles.**
- The driver must not sit in the car during the fueling process.
- No mobile phones are allowed in the fueling area.
- The tank is to be filled to the fuel level line before the tilt test and the endurance event.
- Re-fueling must be possible without the removal of any body parts of the car (except the cap of the fuel tank) .
- The first time the vehicle is fueled, the car must proceed (with the engine off) to the tilt table.

TECHNICAL & SAFETY INSPECTION

SCRUTINEERING AND CHARGING AREA





GENERAL INFORMATION

- Opening of or working on the accumulator containers, including charging them, is only allowed in the charging and scrutineering area, during the opening hours.
- During charging, accumulators must be removed from the car and placed on the accumulator container hand cart. Only chargers marked after successful Accumulator Scrutineering must be used. Three phase 32 A and 16 A sockets will be available in the charging and scrutineering area. We encourage teams to bring their own adapter both 32 A -> 16 A and 16 A -> 32 A.
  - An ESO must be present at all times during charging and whenever an accumulator container is open. Safety glasses and safety gloves must be used whenever an accumulator container is open and the maintenance plugs not removed. If the accumulator container is opened, it is cannot be leaved unattended.
  - No more than four members and only team members of any electric team are allowed in the charging area at the same time. The organizers reserve the right to declare the charging area “full”.
  - The charging and the scrutineering area is located in the same place. The provided identifiers must be on the team members who are in the charging area. When you are in the Scrutineering tent be very careful, do not disturb others and take extra care to keep your tools and things in proper order. If someone’s behavior is unacceptable, he or she can be banned from the area, and the team also may be penalized.
  - The charging area and the scrutineering are accessible from one way corridors. Do not block or disturb this passages, they are emergency routes as well.
  - In case of fire, if someone presses the emergency horn, or if the Officials ask for it, leave the area immediately on the shortest way through the corridors.
  - During the Scrutineering, teams may make small repairs on the car, but the time spent in one attempt can’t exceed 15 minutes total. If the time expires, the team may have to leave the area, then book a slot for re-scrutineering in the Technical Inspection Tent.
  - The times in the event schedule are strict. We do not start scrutineering after the area closes. It is the team’s responsibility to make sure the acceptance of each test is properly documented.

SCRUTINEERING STEPS

Cars have to pass a technical and safety inspection before being allowed to practice or take part in the dynamic disciplines. The car has to be presented at each step of the inspection. Scrutineering steps with the same Roman number can be executed in any order, if all of the steps with the same Roman number are completed the team will be eligible for the next category. Driver Egress and Safety Test must be passed before the Brake Test.

EV CARS:	CV CARS:
I. Driver Egress and Safety Test	I./A Driver Egress and Safety Test
I./B Mechanical Scrutineering	I./B Mechanical Scrutineering (extended for Hybrid cars)
I./C EV1 Scrutineering*	II. Autonomous Scrutineering (DV only)***
I./D HV Accumulator Scrutineering*	III. Tilt test
II. EV2 Scrutineering	IV. Noise test (ETC & BSPD) included
II. Autonomous Scrutineering (DV only)**	V. Brake test
III. Tilt test	VI. Autonomous Brake test (DV only)
IV. Rain test	
V. Brake test	
VI. Autonomous Brake test (DV only)	

\*EV1 and Accumulator Scrutineering can be exchanged or taken simultaneously.  
If the team uses the HV battery to generate the LV supply, the team has to start with Accumulator Scrutineering.  
\*\*For E-DV cars the EV2 and the Autonomous Scrutineering will take place at the same time.  
\*\*\*For C-DV the Autonomous Scrutineering will be held in the engine test area.  
Passing any of the above steps is marked with a sticker on the technical inspection sticker.

Cars which have not finished scrutineering by the start of endurance/trackdrive will not be allowed to compete in the dynamic events.

SCRUTINEERING ORDER

Teams will have the opportunity to choose the time slot for their Mechanical, EV1 and HV Accumulator technical inspection prior to the competition.

Teams will be divided into groups based on their Registration Quiz results and the scheduler google sheet will be opened for each group in a different time giving advantage to the teams who achieved a good result on the Registration Quiz. Teams who passed the technical inspection at FS Easter will be in the first group. Teams who submitted their VSV after the deadline will be in the last groups. Information about the exact date and format will be sent to the Team Captains.

After a team passes Mech, EV1, and HV Accumulator they can book their slot for EV2 in the Technical Inspection Tent. Teams can also book their re-scrutineering slots there. Driver Egress & Safety Equipment check, and all Dynamic Scrutineering will be on first come first served bases.

INSPECTION SHEET

The Inspection Sheet for FS East 2023 will be in online format. The template will be shared at the FS East website prior to the competition. Every team will have a dedicated inspection sheet where they can track their own progress. The teams can ask for view only access for their own sheet during scrutineering. By default, it will only be shared with the Team Captain based on his/her email address. An overview of the scrutineering process including every team will also be shared with the teams, so they track the progress of the state of scrutineering.

DRIVER EGRESS AND SAFETY TEST

Location: Charging & Scrutineering area

Driver egress and checking of safety gears will be held at separated section. Safety gears will be also checked on Day 0 at the campsite.

At least one driver must pass the egress test before the HVD is placed in the vehicle, only drivers who passed egress can be seated in a vehicle when the HVD is in its place. Please begin scrutineering with the tallest driver in the car, belted, and prepared for roll bar height and egress check. Your other drivers might be checked as well upon request of the scrutineers.

You must have the following items available:

- The car in finished condition
- Camera mounts installed on the car, if they are to be used at the event
- Quick jack and push bar
- All driver suits and other safety gear: arm restraints, helmets, suits, gloves, eye protection, balaclavas, socks and shoes

After the successful scrutineering process the drivers who passed the egress will be marked in the online inspection sheet. If pilots have failed the test, then they will have to try again.

MECHANICAL SCRUTINEERING

Location: Scrutineering area  
Time limit: 4x30 minutes + HY check (HY only)

Scrutineers will check if your car meets the rules. Your TS Accumulator (EV only) must not be in the car during mechanical scrutineering. Your Fuel Tank (CV only) must be empty during mechanical scrutineering.

You must have the following items available:

- The car in finished, ready-to-race and clean condition, filled with fluids (except fuel)
- Camera mounts installed on the car, if they are to be used at the event
- Printed copy of the Structural Equivalency Spreadsheet
- Printed copy of the Impact Attenuator Data Report
- A test piece from the impact attenuator
- Teams with monocoque: Laminate test specimen
- All the tires you plan to use at the event
- Datasheets for all the parts that must be rated for a standard, temperature, material, resistance, pressure, expiration date etc.
- 2 fire extinguishers
- Jack and push bar
- Tallest driver



The mechanical scrutineering will be divided to 4+1 levels:

- Mechanical 1: Driver seating and harness, Tires, Stickers, Scrutineering equipment, Template fitting
- Mechanical 2: Structural check (SES + IAD)
- Mechanical 3: Cooling, Aero-package, CV Powertrain (CV only), Autonomous (DV only)
- Mechanical 4: Suspension, Brake and critical fastener check
- Mechanical HY: HSC and motor mounting (HY only)

Please be prepared for the following checks in order to speed up your scrutineering process:

- Brake bleeding, as BOTS functionality will be checked by opening calipers
- [CV only] Be able to show the system response for any SCS failure, make breakout boxes beforehand, if needed
- [CV only] Be able to show sensor functions and calibrations
- T 8.4.2 will be checked with a spring balance, make sure the small aerodynamic elements are stiff enough
- Mind the rule change T 10.2.3, make sure the bearings in your wheelhubs and corner inserts are not loaded axially
- Please do not use overcomplicated contraptions for the new jack rules, at the small scrutineering area a jackstand or a beer crate with a handle (to not reach under the car) could be sufficient
- [HY only] Be able to present your BMS and the system reaction for SCS failures

After the successful scrutineering process, the team will be rewarded with the Mechanical scrutineering sticker and Hybrid sticker (if applicable). If you have items that need to be rectified you will not get your sticker, and you will have to present your car for scrutineering again. Teams lacking several points on their checklist, will be required to book another scrutineering appointment, while teams lacking only a few points can have a quick check, depending on the scrutineer’s discretion. The teams are allowed to perform quick-fixes during scrutineering, acknowledging that they might run out of scrutineering time and required to book a new appointment. The scrutineers reserve the right to spot check any car at any time during the event.

If you have items that need to be rectified you will not get your sticker, and you will have to present your car for scrutineering again. The scrutineers reserve the right to spot check any car at any time during the event.

EV1 SCRUTINEERING (EV AND E-DV)

Location: Charging & Scrutineering area  
Time limit: 60 minutes

Scrutineers will check that your car fulfills the EV rules without activating the tractive system.

You must have the following items available:

- The vehicle with operable LV system (either with or without the tractive system battery)
- Documentation (either printed or electronic format)
- Firewall sample
- Every self-developed PCB which are interfacing with the tractive system (spare PCBs)
- An ESO

After the successful scrutineering process the team will be rewarded with the EV1 scrutineering sticker.

If you have items that need to be rectified you will not get your sticker, and you will have to present your car for re-scrutineering. The scrutineers reserve the right to spot check any car at any time during the event.

HV ACCUMULATOR SCRUTINEERING (EV AND E-DV)

Location: Charging & Scrutineering area  
Time limit: 90 minutes

During the accumulator scrutineering, teams have to bring their batteries in the charging area. You will have to open the accumulator container, and the scrutineers will check the inside of the accumulator.

The followings will be checked:

- The accumulator is built as in represented in the ESF
- There are no obvious mistakes or inadvertencies
- The AMS connections, the location of the thermal measurements, and the accuracy of the voltage measurements.

You must have the following items with you:

- The HV Accumulator
- Protective gear and isolated tools to work on the accumulator
- Laptop or something to connect to the AMS
- Anything else you will need to present the working of the AMS
- An ESO and at least one additional team member

After the successful scrutineering process the accumulator will be sealed and the team will be rewarded with the accumulator scrutineering sticker.

If you have items that need to be rectified you will not get your sticker, and you will have to present your HV accumulator for re-scrutineering. The scrutineers reserve the right to spot check any car at any time during the event.

EV2 SCRUTINEERING (EV AND E-DV)

Location: Charging & Scrutineering area  
Time limit: 60 minutes

During the second part of electrical scrutineering it will be checked that your car fulfills the EV rules with the tractive system active. Among other aspects, the correct working of the BSPD will be tested, so please have the BSPD test tool ready. The Ready-To-Drive-Sound test will be performed here as well. The data logger will also be tested in this step.

After your car passes E-scrutineering, critical parts of the tractive system will be sealed. The scrutineers reserve the right to spot check any car at any time during the event, **even after endurance.**

The followings will be checked:

- The working of the BSPD
- The working of the Safety Circuit
- Data logger connection

You must have the following items with you:

- Documentation (either printed or electronic format)
- BPS test device
- The vehicle (in fully assembled, ready-to-race condition including mounted data logger (see DV 1.3))
- At least 2 but maximum 4 team members (one of them has to be ESO)

After the successful scrutineering process the team will be rewarded with the EV2 scrutineering sticker.

If you have items that need to be rectified you will not get your sticker, and you will have to present your car for re-scrutineering. The scrutineers reserve the right to spot check any car at any time during the event.

AUTONOMOUS SCRUTINEERING (DV ONLY)

Location: Charging & Scrutineering area

Autonomous System related points are integrated to Mech 3, EV1 and EV 2. The Autonomous System Inspection is passed if all these points are successfully checked by the scrutineers. Mech and EV 2 inspections may be successful without the DV related points. In Mech 3 the location and proper mounting of the autonomous system’s components are checked with the exception of RES bypass relay, ASMS and the ASSIs which are checked in EV1. The functional test – which requires HV - is part of EV2.

You must have the following items with you:

- One ASR (for EV2)
- The vehicle (in fully assembled, ready-to-race condition)
- Documentation (either printed or electronic format)
- Data sheets for all perception sensors
- Documents to proof that all perception sensors meet local legislations
- RES remote control
- Tools needed for the (dis)assembly of parts for DV inspection



After the successful scrutineering process the team will be rewarded with the Autonomous scrutineering sticker.

If you have items that need to be rectified you will not get your sticker, and you will have to present your car for re-scrutineering. The scrutineers reserve the right to spot check any car at any time during the event.

### TILT TABLE TESTING

**Location:** Dynamic Area

Tilt testing checks if the vehicle complies with the liquid spillage and rollover stability rules.

Please present the car in ready-to-race condition, meaning all the liquids of the car should be filled properly, and all components of the car are mounted.

The vehicle will be placed upon the table with the tallest driver aboard. The vehicle should be oriented on the tilt table in the direction that is most likely to create spillage. The table will then be tilted to an angle of 60 degrees, representing a cornering force of 1.7G. There must be no fluid leakage and the upper wheels must remain on the table. (Some vehicles may lift one wheel. The station manager should be consulted if this occurs.) The test is performed again tilting the car to the other side as well. The person in charge at the tilt table will sign the inspection form, which travels with the car. The car will be tested on both sides. A sticker is applied on the car, to indicate it passed the tilt table test.

Should the vehicle fail, the car must be repaired and re-tested.

Vehicles may be asked to return to this station for re-certification at the discretion of the officials.

#### **Safety guidelines for the tilt area:**

- All master switches off at all times. They can be removed from the car.
- Push the car on and off the table, taking care to avoid damage to the vehicle.
- Inside wheels are to be placed against the guard of the tilt table.
- Attach a strap to rollover hoop and side of table which is to be elevated. Allow a little slack.
- Use absorbent material to soak up leaks (may be obtained at fuel station). Keep a fire extinguisher at hand.

After the successful scrutineering process the team will be rewarded with the Tilt sticker.

### RAIN TESTING (EV AND E-DV)

**Location:** Dynamic Area

Teams have to pass a special rain test during scrutineering, according to the rules before and after the rain test an IMD test will be performed. During the rain test, the tractive system has to be active and the driven wheels removed. It is not allowed to have a driver seated in the car during the rain test.

After the successful scrutineering process the team will be rewarded with the Rain sticker.

### NOISE TESTING (CV AND C-DV)

**Location:** Dynamic Area (Engine Test Area)

#### **The followings will be checked:**

- Compliance with the noise level according to the CV3.2
- Compliance of the ETC system (if present)
- Compliance of the BSPD system

#### **You must have the following items with you:**

- A pilot
- Anything else you will need to present the working of the ETC & BSPD
- At least 2 but maximum 4 team members

The vehicle will be checked for compliance with the sound level restrictions.

Teams must bring a laptop to show the engine speed monitored from the ECU on the laptop.

FS East will apply the rule “CV3.2 Maximum Sound Level” of the FS Rules 2023.

If the vehicle is unable to pass in two attempts, the car must be repaired and then brought back for retesting.

The noise level can be measured at any time during the dynamic events. Penalties may be given if the sound level exceeds the mandated maximum. Vehicles may be forced to return to this station for re-certification should the officials deem it necessary. Re-certification may be required if work is performed on the vehicle’s exhaust system or if the vehicle is involved in an incident which results in vehicle damage.

After the successful scrutineering process the team will be rewarded with the Noise sticker and the ETC sticker (if applicable).

### BRAKE TESTING

**Location:** Dynamic area

Brake Testing checks that the vehicle can be brought to a controlled stop.

#### **Each driver must know the proper procedure of the brake test:**

- With the car at the start line of the station a green flag (or similar signal) should be used to signal the start of each run.
- The driver must accelerate on a short straight (typically getting into 2nd gear) until reaching the braking area, which is a box defined by pylons.
- For electric vehicles, the tractive system has to be switched off by the driver before entering in this box.
- The car fails the test if the TSAL is still blinking 5 seconds after shutting down the tractive system.
- Once inside the box, the driver must apply the brakes with enough force to demonstrate
- **Full lock-up needed for all four wheels at the same time, and engine can not shut down during brake test. While braking, the centerline of the vehicle should be parallel with the centerline of the braking area zone. (Maximum rotation compared to idle state is 15°)**

If the vehicle passes the test, the person in charge signs the approval form and provides the team with the Brake sticker.

The vehicle is now free to proceed to the practice track or to the dynamic events.

If the vehicle is unable to pass the brake test in the next two attempts, the car must be repaired and then brought back for retesting.

Re-certification may be required if work is performed on the vehicle’s brake system or if the vehicle is involved in an incident which results in vehicle damage.

### DRIVERLESS BRAKE TESTING (EBS) (DV ONLY)

**Location:** Dynamic area

Autonomous Brake Testing checks that the vehicle can be brought to a controlled stop remotely.

Normal Brake test must be done before the Driverless Brake Test

After the Go Signal, the vehicle has to accelerate to at least 40 km/h in a straight line and stop when the RES button is pressed.

Once the RES is triggered, the vehicle has to stop within 10 meters, and have to switch off the tractive system.

(Shut down the engine in the case of CV cars, or switch off the HV in the case of EV cars.)

### PRE-RUN AND POST-INSPECTION

**Location:** Exit of the dynamic area

Pre-Run and Post-Inspection can be expected by the teams where points marked with Δ in the Inspection Sheet will be in focus. The scrutineers can decide to check other points as well. Based on the result of the Post-Inspection teams can receive time penalty or DQ according to IN12.1.

### VEHICLE TESTING

**Location:** see the map of the venue

Driving practice is only allowed within the designated test areas and at the designated times.

There will be two test tracks provided for the CV and EV teams. The ground is made of asphalt.

Teams may use the test area to set up and test their cars. The testing time per team depends on the waiting queue

and will be 3 to 5 minutes per run. For additional testing, teams have to go to the end of the queue.

**NOTE:** If no other team’s are waiting for testing, it’s allowed to use the test track continuously.



### ACTION CAMERAS ON THE CAR

As the rule D 2.2.1. states, “During driving, the mechanical integrity of the vehicle must be maintained.” Teams may register they action cameras at the event control. Losing a registered action camera will not lead to disqualification from a specific event, if the team agrees to share all recorded data with the organizers at the Event Control each day until the Event Control’s closing time.

## DYNAMIC DISCIPLINES

All of the dynamic disciplines are carried out in the dynamic area. For more details, please check the site plan in section.

### SKID PAD

FS East 2023 offers 4 tries for competing teams, including 2 drivers. Each driver has a maximum of two runs of Skidpad. Similar to the Acceleration event, the waiting queue for the Skidpad event is a two-lane queue: First one is for the first attempts, second lane for the second to fourth attempt of the team. The queue closes 15-30 minutes before the end of the event, depending on the number of cars waiting. There will be a two-lane queue for this event. First one is for the first try, second lane for the second to fourth try of the team. The queue closes 15-30 minutes before the end of the event, depending on the number of cars waiting. At the closing time of the Skidpad Event, only that vehicle is allowed to start their run, which is standing at the start line of the Skidpad Event. In case of longer queues in the 2nd - 4th attempt row, organizers have the right to let drivers from the 2nd to 4th attempt between the two first attempts.

Each driver can choose to drive one or two runs in a row. The second run may be performed immediately after the first run without re-entering the queue.

#### **MASTER RULE:**

The final appointment, when it is allowed to start a run in the dynamic area is 17:55 every day (Test Track, Skidpad, Acceleration, Autocross, Endurance). All drivetrains must be turned off by 18:00. ( All dynamic disciplines including Engine Test, Noise Test, Rain Test, Brake Test) Officials have the right to refuse the start of the run, if they judge, that the run will be not completed until the scheduled finish date of the event.

### **DV SKID PAD**

Each team will have two runs. There will be a two-lane queue for this event. Lane one is for the first run of the team, lane two for the second run. If the vehicle does not enter “AS Ready” state within 1 min after being staged, the team may be sent back to the end of its initial row by the officials. If this happens five times with the team, they may be sent back to end of the second row.

### ACCELERATION

FS East 2023 offers 4 tries for competing teams, including 2 drivers. Each driver has maximum two runs of Acceleration. Similar to the Skid Pad event, the waiting queue for the Acceleration event is a two-lane queue: First one is for the first attempts, second lane for the second to fourth attempt of the team. The queue closes 15-30 minutes before the end of the event, depending on the number of cars waiting. In case of longer queue in the 2nd - 4th attempt row, organizers have the right to let drivers from the 2nd to 4th attempt drivers between two first attempts.

After passing the finish line of the Acceleration, there is a big slow down area. To return to the start for the second run, you have to turn right, go back to the starting position and turn back right to the starting line. Follow the instructions by the marshals. On your way back, please maintain a slow car speed for your safety (max 25 kph) and that of the marshals.

The driver of the team can choose to drive one or two runs in a row. The second run may be performed immediately after the first run without stepping back to the end of the queue.

At the closing time of the Acceleration Event, only that vehicle is allowed to start their run, which is standing at the start line of the Acceleration Event.

### **MASTER RULE**

The final appointment, when it is allowed to start a run in the dynamic area is 17:55 every day (Test Track, Skidpad, Acceleration, Autocross, Endurance). All drivetrains must be turned off by 18:00. ( All dynamic disciplines including Engine Test, Noise Test, Rain Test, Brake Test) Officials have the right to refuse the start of the run, if they judge, that the run will be not completed until the scheduled finish date of the event.

### **DV ACCELERATION**

Each team will have two runs. There will be a two lane queue for this event. Lane one is for the first run of the team, lane two for the second run. If the vehicle does not enter “AS Ready” state within 1 min after being staged, the team may be sent back to the end of its initial row by the officials. If this happens five times with the team, they may be sent back to end of the second row.

The final appointment, when it is allowed to start a run in the dynamic area is 17:50 every day (Test Track, Skidpad, Acceleration, Autocross, Endurance). All drivetrains must be turned off by 18:00. ( All dynamic disciplines including Engine Test, Noise Test, Rain Test, Brake Test) Officials have the right to refuse the start of the run, if they judge, that the run will be not completed until the scheduled finish date of the event.

### AUTOCROSS

**Coursewalk:** non-motorised vehicles are allowed to use in a safe manner.

FS East 2023 offers 4 tries for competing teams, including 2 drivers. Each driver has maximum two runs of AutoX. Similar to the Acceleration and Skidpad event, the waiting queue for the Autocross event is a two lane queue: First one is for the first attempts, second lane for the second to fourth attempt of the team. In case of longer queue in the 2nd - 4th attempt row, organisers have the right to let 1 or more cars from the 2nd to 4th attempt drivers between two first attempts. The driver of the team can choose to drive one or two runs in a row. The second run may be performed immediately after the first run without stepping back to the end of the queue. Cones are used for the track boundary and for the slalom turns. The track direction is clockwise. Each run comprises one lap with a flying start. Each driver can choose to drive one or two runs in a row. The second run may be performed immediately after the first run without re-entering the queue. If the runs are performed separately, the driver must exit the course after the first run and drive through the driver change area slowly back to the start for the second run. Maximum 2 cars are allowed to run parallel on the AutoX track to fasten the AutoX Event. If a yellow flag interrupts the run of the cars, the run can be re-run.

If Track Marshalls notices fire from the running car, vaiwed yellow flag and big X will be shown by the Marshalls Hands over the head. Drivers must stop the vehicle immediately at safe place.

#### **MASTER RULE - Rule 55 for Autocross:**

The final appointment, when it is allowed to start a run in the dynamic area is 17:55 every day (Test Track, Skidpad, Acceleration, Autocross, Endurance). All drivetrains must be turned off by 18:00. During Autocross Event, the last allowed car to start the Autocross Event is the car, that stands at the Green Flag Starting Line at 17:55:00. This car is allowed to perform maximum two runs. Officials have the right to deny any starting attempts after 17:55:00. Therefore teams are welcomed to perform their attempts earlier during the event.

### ENDURANCE

**Coursewalk:** non-motorised vehicles are allowed to use in a safe manner.

The endurance track will be set up for Saturday and Sunday. The track direction is clockwise. The colour of the cones is similar to the Autocross event. The additional overtaking lanes are marked with blue cones.

The starting order for Endurance is based on the results of the Autocross event. The starting order will be displayed at the Event Control.

The IC and EV cars race separately, with the slowest car starting at the starting time of the Endurance event. The next car starts about 3 minutes later. Maximum three cars will be on the track at the same time. During the driver change, two scrutineers will check the car. After successful driver change, the second driver drives to the entrance gate. If a marshal causes the driver change to take longer than 3 minutes, the time caused by the marshal will be subtracted. Timekeeping is watching for these incidents.



**IMPORTANT:** In order to have equal and fair conditions during the Endurance event at least 3 cars have to be on the track during the whole time of the Endurance event.  
Therefore the Organisers will maintain a waiting queue of 3 teams. It is the team’s responsibility to arrive in the waiting queue before the deadline -which will be announced for each team in the loudspeakers 15 minutes before the deadline.  
**A delay will be penalised with 2 minutes penalty and the team will be able to start only at the end of the endurance event.**

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

If you get a blue flag while driving, please drive into the next overtaking lane. At least 2 overtaking zones will be provided. Please start slowing down when you are in the overtaking lane, NOT before. For the faster car, it is important not to follow the car in front too closely, otherwise serious accidents may be caused if the cars touch each other. In the overtaking area wait for the green flag to re-enter the track. Rear-ending a slower car will definitely lead to a disqualification of the faster car!

If Track Marshalls notices fire from the running car, vaived yellow flag and big X will be shown by the Marshalls Hands over the head. Drivers must stop the vehicle immediately at safe place.

Last Lap table will be shown to the drivers before the last laps of the running car. After getting the checquered flag, drive to the Driver Change Area slowly.

In case of extremely slow running cars, officials have the right to disqualify the slow vehicle according to 2023 FS Rules D9.2.4.

**MASTER RULE**  
The final appointment, when it is allowed to start a run in the dynamic area is 17:55 every day (Test Track, Skidpad, Acceleration, Autocross, Endurance). All drivetrains must be turned off by 18:00. (All dynamic disciplines including Engine Test, Noise Test, Rain Test, Brake Test) Officials have the right to refuse the start of the run, if they judge, that the run will be not completed until the scheduled finish date of the event.

Vehicles that successfully finish Endurance and those that make it past the driver change must report to the Parc Fermé **upon request of scrutineers. They will stay there until passing the post-endurance scrutineering.**

**DV AUTOCROSS AND TRACKDRIVE**  
**Coursewalk:** non-motorised vehicles are allowed to use in a safe manner.  
During the course walk no equipment (e.g. antennas, sensors, cameras, etc) other than analog measurement devices (i.e. measurement wheel or measurement tape) is allowed.

Driverless Autocross Event takes place on the same track as Driverless Trackdrive Event. Driverless Autocross and Driverless Trackdrive Event will be the same in the Event Schedule, teams can choose, whether they start their Autocross or their Endurance Run, when entering the track

**The Trackdrive track will be set up for Friday. The track direction is clockwise.**

**The starting order for Trackdrive results from the Skid Pad and Acceleration event. There will be one run consisting of ten laps. The starting order will be displayed at the Event Control.** If the vehicle does not enter “AS Ready” state within 1 min after being staged, the team may be sent back to the end of the starting order by the officials. Please look for the 5 minutes preparation team described in the FS East rules!

STATIC EVENTS

REVIEW PERIOD

During the review period teams can discuss their static event results with the corresponding static event leader. The static event leaders can offer an insight into the score sheet of the respective team or provide feedback based on the score sheet. During this period objective, administrative mistakes can be protested (i.e. mistake in the summarization), but the subjective decision of the judges about the given points cannot be protested.

ENGINEERING DESIGN EVENT

**Location:** Team’s pits (Initial judging)  
Dynamic area (Engineering Design Final) - in case of rain: alternative location

During the competition, a discussion with the judges will take place, next to the team’s vehicle.  
For DV category the design judging includes the judging of both the “base vehicle” and the autonomous system. Teams with one common DV and EV/CV car will be judged in the EDE DV Event.

ENGINEERING DESIGN FINAL

Top teams from each category will qualify to the Engineering Design Final. There is no time limit in the design final. The design final is not public.  
The Engineering Design Event Final will be organized according to the event schedule.  
A briefing for the participating teams will be held about the practical information regarding the design final on the day of the final in the Event Control.

COST AND MANUFACTURING EVENT

**Location:** Team’s pits (Initial judging)  
Dynamic area (Cost and Manufacturing Final) - in case of rain: alternative location

During the competition, a discussion with the judges will take place, next to the team’s vehicle.  
The discussion is split into three parts: The Bill of Material (BOM) Discussion, the Cost Understanding and the Real Case Scenario presentation.

Schedule of the Cost and Manufacturing Event for Judging (max. 55 minutes):

- 5 min for introductory presentation of the car and/or team,
- 15 min for discussion and questions about CRD,
- 15 min for the discussion of the Cost Understanding,
- 15 min for Real Case Scenario presentation,
- 5 min for consultation of the judges and feedback to the teams

COST AND MANUFACTURING FINAL

Top teams from CV, EV and DV will qualify to the Cost and Manufacturing Final. The Cost and Manufacturing Final is not public. A briefing for the participating teams will be held about the practical information regarding the final on Friday afternoon in the Event Control. The location of the final will be announced on the briefing.



## BUSINESS PLAN PRESENTATION EVENT

**Location:** Business Rooms (Initial judging),  
Catering (Business Plan Presentation Final)

### Schedule for each presentation in the Initial Judging (max. 30 minutes)

- Max. 5 minutes for set-up & preparation
- 10 min for Business Presentation
- 10 min for Q&A on the presentation
- Max. 5 min de-installation

This time schedule needs to be followed strictly to not disrupt the overall time schedule for the whole day.

During the presentations only judges and the presenting team members can participate and special permission to official Press-staff. Special entry permission should be asked and decided by the Business Event Leader. If the team distributes handouts to the judges, they must collect them after their presentation.

## FEEDBACKS & REVIEW PERIOD

Teams can receive feedback from the judges on Wednesday. A timeslot will be allocated to each non-finalist team. The schedule for the feedback will be uploaded to the website latest on Tuesday evening. Teams are advised to bring their presentation slides to the feedback (e.g. on computer, or on their phone), so the judges can give feedback & suggestions on the presentation.

Finalist teams will receive feedback only after the Final.

## BUSINESS PLAN PRESENTATION FINAL

Top teams from each category decided by the Judges given by the results of the initial round will qualify to the Business Plan Presentation Final. This Final will be held according to the schedule. The teams will present to the selected Judges and the event is open to all Visitors (i.e. other teams, guests etc.).

## DATA PROJECTION EQUIPMENT

### INITIAL JUDGING

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

## FINALS

Teams must hand in their presentations for the finals on a pendrive, including special fonts that they use. Presentations will be projected from one computer for every team.

## RESULTS

### REQUIRED REVIEW

Any team that intends to protest a rule interpretation, score, judge's decision or any other aspect of the competition, must present the issue to the FS East rules committee by sending an e-mail to [hello@fseast.eu](mailto:hello@fseast.eu) with the subject line starting with [PROTEST]. Protest proposals submitted in any other form will not be considered for review.

### CAUSE FOR PROTEST

A team may protest any rule interpretation, score or official action (unless specifically excluded from protest) which they feel has caused some actual, non-trivial harm to their team, or has had a significant effect on their score. Teams may not protest rule interpretations or actions that have not caused them any significant damage.

### PROTEST PERIOD

Protests must be filed within one hour after the action being protested has occurred or the scores for the activity involving the protest subject are posted.

### PROTEST FORMAT

Protests must be handed in by sending an e-mail to [hello@fseast.eu](mailto:hello@fseast.eu) with the subject line starting with [PROTEST].

### PROTEST BOND

The protesting team must post a 25 points bond to be deducted from their score if the protest is denied.

### DECISION

The decision of the officials regarding any protest is final.

## FS EAST CAMP RULES

Those teams who booked their accommodation and intend to stay at the FS East Camp have to accept the following guidelines and rules. We created this list of rules to ensure all the necessary safety and comfort elements for the campers.

In emergency cases the event site emergency scenarios are the normatives (see page 2-3).

In any urgent cases you can call the emergency numbers.

### CHECKING-IN TO THE CAMPSITE

Checking-in to the campsite is handled at the temporary Ticket Center located at the entrance of the FS East Camp. After a successful registration campers get their wristbands and may proceed to the FS East Camp. Campsite registration is available between 12:00 and 18:00 on Tuesday (August 1st), and the rest of the event days during the opening hours of the Ticket Center. Continuous camp duty - people, who can answer your questions - will be available at the entrance as well.

### In case you arrive after the opening hours of campsite registration, call us in advance!

All team members who booked their accommodation at the campsite must show up, sign the check-in form, and agree the FS East Camp Rules in order to access the campsite. We're only able to let in the members of the teams who've already transferred the accommodation fee. Additional team members are able to pay by cash at check-in at the Ticket Center.

### RESERVABLE AREA

Based on the number of team members we provide a camping area of approx. 225 square meters for each team. Larger constructions (e.g. kitchen tents, pools, football field, etc.) should be mentioned in advance in the Accommodation Booking form. Constructions higher than 6 meters are not allowed to be built up on the premises of the campsite.

### PARKING IN THE CAMPSITE

The campsite has a separated parking area. Parking is allowed only in the designated area.

Please note, that you can't park your vehicles neither in the Social area of the FS East Camp nor between the tents.

**ATTENTION:** Make sure that your caravan or car is not dropping or flowing. Prevent it!

### COOKING, FIRES AND SMOKING

Using open fire (e.g. charcoal, gas stove, firewood) for cooking is restricted to the premises of the Fun & Grill area. Electric cooking devices can be operated at your own tents as well considering the limitations of the power supply.

**NOTE:** If you have any cultural or religious objections regarding these rules, please contact us in advance.

Smoking is strictly prohibited in the sleeping area, in all tents, in the parking slots and in the toilet or shower containers.

### LI-ION BATTERY IN THE CAMPING

Maintenance and storage of ANY non-commercial Li-Ion battery unit, or bare battery cells in the camp site is strictly forbidden. If you see any suspicious activity report it to the Officials or Camping Security. Violation of this rule by any means leads to immediate DSQ from the event and ban from the camping.

### DRINKS

**NOTE:** Alcoholic drinks are forbidden at the event site - so just drink as much as you can "sleep out", to be perfectly fit for the next day.

### BATHROOMS

We provide separate bathroom containers for male and female participants at the campsite with showers.

### POWER SUPPLY

The electric network at the campsite provides electricity for each team to consume. You can also bring your own power supply - in that case you must prepare with one fire extinguisher for each of them.



NOTES

10MM DOTMATRIX

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

Handwriting practice lines for notes.

10mm dot matrix grid for drawing or design.



# FORMULA STUDENT EAST

AUG  
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2023

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DIGITÁLIS VÁLLALKOZÁSOK  
SZÖVETSÉGE



## CHANGELOG

Version	Date	Modification	Page
1.0.0	20th of July 2023	Initial release	-



Részletek vagy az egész dokumentum felhasználása csakis a Járműmérnökök Egyesülete előzetes írásos engedélyével lehetséges.  
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