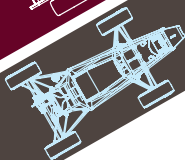
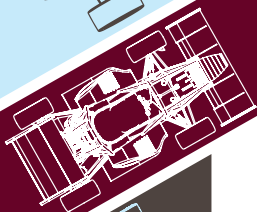
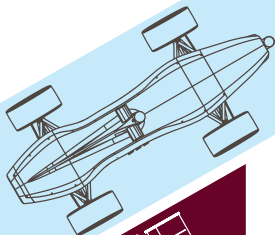


FORMULA STUDENT

Institution of
**MECHANICAL
ENGINEERS**

6-10 JULY 2022
Silverstone
Race Circuit,
UK



HANDBOOK

FOR LIVE EVENT ATTENDEES

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RULES OF ENGAGEMENT

This event is held under the General Regulations of Motorsport UK (incorporating the provisions of the International Sporting Code of the FIA), the Formula Student Rules 2022, FS-AI 2022 Rules and any other subsequent written instructions that the Organisers issue for the event.

Motorsport UK Permit Number:
CoE 124452



Disclaimer: This information is for guidance only and does not replace or supersede the official Formula Student Rules governing the event. If there are any conflicts between this document and the Rules, then the Rules prevail. The Organisers reserve the right to make amendments to the schedules, plans and procedures as they see fit.

Contents

Acceleration Run-Off	05
Accreditation	05
Announcements.....	06
Assistance And Help	06
Awards Ceremonies	07
Business Plan Presentation	10
Business Plan Presentation Final	11

Contents

Camera Mounts	11
Campsite	11
Car Set-Up Alterations	11
Catering	12
Clothing.....	12
Concept Class.....	13
Cost & Manufacturing Final	14
Decal Positioning On Cars.....	14
Drivers' Briefings	15
Driver's Personal Protective Equipment (PPE)	16
Drones	16
Dynamic Events.....	16
Electric Supply.....	17
Emergency Response.....	17
Energy Meters.....	18
Engineering Design Final.....	18
Engine & Electric Motor Running	19
Filming & Photography	20
First Aid	21
Formula Student Artificial Intelligence (FS-AI)	21
Fuel.....	22
Garage Allocations	22
Information Point	23
Insurance And Permit	24
Judging Schedule	24
Mathworks Closing Ceremony	25
Media Links.....	25

Contents

Opening Ceremony.....	26
Paddock Safety Team.....	26
Parking.....	26
Partners And Sponsors	27
Pavilion	27
Press And Media	28
Prohibited Items.....	28
Results, Protests And Feedback.....	29
Rules Of Conduct.....	30
Safety.....	31
Scrutineering.....	32
Sign On And Registration.....	35
Site Access / Opening Times	36
Smoking And E-Cigarettes/Vaping	37
Spectators.....	38
Taxi Companies	38
Team Photograph	38
Timetable	39
Transponders	39
Tyres.....	39
Vehicle Modifications	40
Vehicle Movements	40
Water	40
Welding And Hot Works	40
Wet Weather Running	43
Wireless Telemetry.....	43

Acceleration Run-off

An Acceleration Run-Off for the fastest 6 cars is planned to immediately follow the main Acceleration event on Saturday. Please refer to the event timetable for confirmation of timings, but also listen out for PA announcements. Please see Rule D5.2 in the Rules for the Acceleration Run-Off procedure.

Accreditation

To gain access to Silverstone, you will require accreditation.

Accreditation will be issued in advance via email as an e-ticket and must be presented on arrival at live event. The e-ticket can either be printed at home to bring with you as a hard copy or shown on your smartphone screen (make sure your device is charged ahead of arrival!). Only those eligible to attend the live event will be issued with an e-ticket.

On arrival to Silverstone, you need to show your e-ticket and all registered and paid for team members will be issued with wristband accreditation at registration on Wednesday, which will be required in order to gain access to the venue from Thursday – Sunday. The wristbands feature RFID tags with your contact

details. These tags can be scanned at sponsor and partner exhibition stands, should you wish to share your details with potential future employers, contacts and/or suppliers. All team members will be required to sign a consent form on receipt of their wrist band. The wristbands are festival style, secure and tamper proof and cannot be replaced if lost or stolen. If you are worried that your wristband has become loose or the secure fastening is not functioning correctly, return it to event officials at the Accreditation Centre (car park 49) where you can exchange it for a new one.

Announcements

There is a public address system in the main paddock at Silverstone for making announcements. If you wish to make a public announcement, proceed to Information Point underneath Race Control and speak to event officials.

Assistance and Help

See also 'Information Point'.

Event officials can be identified by their uniform, as follows (See Appendix 1 for uniform guide):

Black polos	Team FS
Green polos	Scrutineers
Purple polos	Dynamic Events Team
Blue polos	Static Events Judges
White shirts	Event Officials

Everyone is here to help you, or direct you to someone who can help, with any queries you may have. The Information Point, underneath Race Control, is open every day from Wednesday. Please refer to the event timetable for confirmation of opening times.

Awards Ceremonies

Awards ceremonies will take place on Saturday and Sunday evenings in the Pavilion. Please refer to the event timetable for confirmation of timings.

Winning teams in first place and for certain awards will be asked to come up on the stage as in previous years to collect the award from the officials and have their team photo, while teams receiving second and third place awards will be asked to go to the back of the Pavilion to receive their award and have their photo taken.

SATURDAY AWARDS

SPONSOR	AWARD
IMechE	Concept Class Engineering Design
IMechE	Concept Class Cost & Manufacturing
IMechE	Formula Student Acceleration Winner
IMechE	Formula Student Skid Pad Winner
IMechE	Formula Student Sprint Winner
IMechE	Craig Dawson Award - Most Valuable Team Member
Racing Pride Aston Martin	Racing Pride Aston Martin Diversity and Inclusion Award
IMechE	Formula Student Suzanne Royce Outstanding Contribution Award
RACE TECH	RACE TECH William Kimberley award
IMechE	Fastest Egress
IMechE	FS-AI Class Business Plan Presentation Winner
IMechE	FS-AI DDT Class Autonomous Design Winner
IMechE	FS-AI ADS Class Autonomous Design Winner
IMechE	FS-AI Class Real World AI Winner
IMechE	FS-AI Simulation Development Winner
IMechE	FS-AI DDT Class Overall Static Events Winner
IMechE	FS-AI ADS Class Overall Static Events Winner
IMechE	Sim Racing Winner

SUNDAY AWARDS

SPONSOR	AWARD
IMechE	Formula Student Cost & Manufacturing
IMechE	Formula Student Engineering Design
IMechE	Formula Student Overall Static Events
McKinsey & Company, Inc.	McKinsey Business Plan Presentation
IPG Automotive	Lap Time Simulation Formula Student Class
IPG Automotive	Lap Time Simulation Concept Class
IMechE	Formula Student Overall Winner
IMechE	Formula Student Runner Up
IMechE	Formula Student Third Place
Bentley Motors	Bentley Overall Dynamic Events Winner
IMechE	Formula Student Endurance Award
IMechE	Formula Student Most Efficient Car
IMechE	Concept Class Overall Winner
IMechE	Formula Student Top Individual Driver
IMechE	Allan Staniforth Award - Best Newcomer
Faraday Institution	Faraday Institution Best Newcomer EV
IMechE	Formula Student Most Cones Hit
IMechE	Formula Student Furthest Travelled Cone
IMechE	Formula Student Most Entertaining Driver
IMechE	Faculty Advisor Outstanding Contribution
IMechE	FS-AI DDT Class Overall Winner
IMechE	FS-AI ADS Class Overall Winner
IMechE	FS-AI Acceleration Winner
IMechE	FS-AI Skid Pad Winner
IMechE	FS-AI Sprint Winner
IMechE	FS-AI Endurance Winner
IMechE	FS-AI Overall Dynamic Events Winner

The Business Plan Presentation

The Business Plan Presentation event will take place at the Silverstone UTC, opposite the National Pit straight. The walking route is via Copse tunnel.

Please refer to the maps at the back of this handbook for directions. If you wish to use Apple Mac hardware, you must provide a Thunderbolt to HDMI/VGA adapter. Power / connector cables will not be available to hire from event officials. Each team will need to bring:

- A laptop (with a fully charged battery) containing their presentation
- HDMI or VGA cable to connect laptop to screens / projectors
- 3.5mm jack for audio (if applicable to your presentation)

Please note: You should allow at least 15 minutes to walk to Silverstone UTC from the National Paddock and you should aim to arrive 5-10 minutes prior to your scheduled presentation time. To comply with UTC safety protocols, all team members are required to sign in and out so allow at least 10-15 minutes prior to your judging slot for this.

Business Plan Presentation Final

The Business Plan Presentation Final for FS and Concept Class, will take place during the live event on Saturday 9 July in the Pavilion. Please check event timetable for confirmation of time. The winners will be announced at the Awards Ceremony on Sunday 10 July

Camera Mounts

Any cameras mounted to competition vehicles must comply with Rules T13.5. The mounts will be sealed as part of the Technical Inspection process. Any competition vehicle with an unsealed camera mount will not be allowed on track.

Campsite

A campsite operated by Whittlebury Hall, walking distance from Silverstone Circuit, is our preferred supplier for your accommodation. If you require booking information, please contact eventenquiries@imeche.org.

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 alterations, e.g. to tyre pressures and suspension settings, to give vehicle characteristics best suited to each specific event. Please see Rule IN1.5 in the Formula Student Rules for a list of what can be modified.

Catering

Pit Stop Café

Offering hot food including burgers, jacket potatoes, pizzas and daily specials, including a roast on Sunday! Located opposite garages 1-6.

Wednesday-Sunday: 07:30-18:00 (hot food will come off at 5pm)

Paddock Grill

Offering fast food and a licensed bar for burgers and beer on the go! Located in central paddock, between garages 6 and 7.

Thursday-Saturday: 11:00-20:00

Sunday: 11:00-19:00

Food stopped serving at: 19:00 Thursday, 19:30 Friday and Saturday, 18:00 Sunday

Illy/Coffee House

Wednesday-Sunday: 08:00 - 16:00

Clothing

Team members are encouraged to wear their branded uniforms and clothing but must adhere to the following safety requirements for the safety of themselves and others:

DO

- In hot areas (where cars are running) ensure arms and legs are covered at all times

- Wear fully enclosed shoes. We recommend safety shoes / boots to protect feet and ankles
- Dress for British weather! Ensure you can protect yourself from heat / sun, wind and rain by having hats, sunglasses and water/wind proof layers
- Wear any Personal Protective Equipment (PPE) issued to you by your university, by event officials or as stipulated as a requirement in the Rules, appropriate for working on cars or car parts

NOT RECOMMENDED TO

- Wear shorts, sleeveless or short sleeved tops in hot areas or whilst working in or around vehicles
- Wear flip flops or sandals in hot areas or whilst working in or around vehicles
- Forget sunscreen!

Concept Class

Concept Class teams will be based in the Pavilion for their Design & Cost judging. Teams will be allocated booth space approximately 2 metres wide x3 metres deep. Cost and Design judges will visit teams at their booth space according to the judging schedule.

Access to the Pavilion is as follows:

Set up: Thursday 7 July from 07:00 (gate opening time)

De-Rig: Friday 8 July by 20:00

Business Plan Presentation judging will take place at the Silverstone UTC (see also 'Business Plan Presentation'). Concept Class awards presentations will take place predominantly on Saturday evening but with the Business Plan Presentation award and overall winner on Sunday.

There will be a Concept Class teams official photo from 18:30 on Thursday on the track. Teams should meet in the Pavilion to be escorted to the circuit by Team IMechE. Team members and flags only (no car parts or rolling chassis).

Cost & Manufacturing Final

The Cost & Manufacturing Final is a closed event and will take place on Saturday evening in the Pavilion. Refer to the event timetable for confirmation of time and location. Timings and preparation requirements will be communicated to all finalists directly. The results will be announced at the Awards Ceremony on Sunday.

Decal Positioning on Cars

Please refer to Rule T12.4 regarding all cars to accommodate the IMechE and Scrutineering approval decals. The car weight label will also be affixed in this area.

Running cars need to allow an 8cm x 8cm space on the right side of the cockpit for the driver activity check, which is used for the dynamic events.

Drivers' Briefings

The Clerk of the Course Safety Briefing will take place at the following times:

Saturday: 07:45* Pavilion (All Drivers to attend)

Sunday: 07:45* Pavilion Endurance (Endurance Drivers only)

**Refer to the event timetable for confirmation of times.*

Attendance is mandatory. Drivers will be issued with a different wristband following each briefing, on departure from the Pavilion, as confirmation of attendance.

STRICTLY No briefing wristband = No drive!

It is recommended that all drivers familiarise themselves with marshal flags in the 2022 Motorsport UK Yearbook (the 'Blue Book') which are included in Appendix 1 of this handbook, prior to event.

Drivers' Personal Protective Equipment (PPE)

Refer to T13 in the Rules for full list of Drivers' equipment requirements.

Drones

The use of or drones, is strictly prohibited by the venue operators, Silverstone Circuits Ltd. Anyone found to be in breach of this may be ejected from the venue, unable to continue with the competition and, in extreme cases, subject to prosecution for breach of the Civil Aviation Authority's Air Navigation Order 2016.

See also 'Filming'.

Dynamic Events

Note where these are located and the times these activities are operating. Refer to the event timetable for confirmation of times.

All activities will close at the time defined in the official event timetable and you will not be permitted to run after these times, **even if you are in the queue.**

Please note: Weather and other conditions may alter the activities open times, amended only at the Official discretion of the event officials. Updates will be posted online and communicated via Public Address (PA) announcements where possible.

Teams will be given their running order for the Endurance based upon their time recorded in the Sprint event. This running order will be determined by event officials and announced no later than one hour before the timetabled start time for the Endurance event and online via PA announcement.

For all dynamic activities, access to the assembly area is restricted to 1 driver + 3 team members (which may include a second driver) per team. Only team members with Team Hot Area tabards (pink) will be permitted access to the dynamic areas.

Electric Supply

Please note that power adapters will **not** be available to hire from event officials. The power adapters needed for the garages are '16A C-Form Single Phase Outlet' which are readily available online.

Emergency Response

- **Fire**

Only attempt to fight fires if you are trained and confident in doing so. On discovering a fire, alert event officials immediately. A dedicated Fire Tender will be on site during event operating hours and fire extinguishers are available in all garages.

- **Medical Emergency**

If you, or someone close by, requires emergency medical assistance, e.g. a severe burn, collapse or choking, **NOT** wasp sting, small cut or stubbed toe, alert an event official immediately. Calmly and clearly communicate the nature of the concern and the location assistance is required.

For all walking wounded or minor medical complaints, report to event officials at the Information Point.

Please do not proceed to the Medical Centre. Mobile medics are available to respond to medical calls.

Energy Meters

Energy Meters will be issued to all EV Team Leaders at EV Scrutineering.

All EVs must be fitted with one of these and under no circumstances can teams fit their independently sourced energy meters and connection components.

Engineering Design Final

The Engineering Design Final is a closed event and will take place on Saturday 9 July in the Pavilion. Please refer to event timetable for confirmation of time. Timings and preparation requirements will be communicated to all finalists directly. The results will be announced at the Awards Ceremony on Sunday.

Engine & Electric Motor Running

See also 'Vehicle Movement'.

Engines and electric motors must only be run in the following areas, between the hours of 09:00 and 18:00

- Scrutineering (as directed by Scrutineers)
- Brake test
- Noise test
- FS Class Practice area, which is at Skid Pad on Friday and at Wellington Straight on Saturday and Sunday
- FS AI Practice Area which is Medical Car Park
- Dynamic events

Engine running area (next to Brake test)

Engines may be run in the **engine running area** provided the car has passed **the chassis, safety and tech inspections** and the following conditions are satisfied:

1. There is a marshal/official present who has visually checked your car for chassis, safety and tech stickers - if there is no marshal present, please be patient and do not start your engine before they return
2. The car is on an adequate stand
3. The drive wheels are at least 10.2cm (4in) off the ground or the drive wheels have been removed

No work should be undertaken underneath the vehicles while the engine is running and a hazard triangle **must** be in place to warn pedestrians.

Fire extinguishers **must** be close by the vehicle and readily accessible at all times.

- **All team members must be trained in the correct use of fire extinguishers**
- A fire extinguisher **must** accompany the car, carried alongside it, **wherever** it is moved in the paddock.
- A team member **must** hold a fire extinguisher ready **whenever** the engine is running in the engine running area.

Filming & Photography

There are various film crews and photographers working on behalf of the IMechE and our partners and sponsors. If you do not wish to be filmed, please advise event officials in the Information Point underneath Race Control.

University photographers or camera operators will be issued with one tabard (yellow) per team during the Garage Welcome visits from officials on Wednesday 6 July between 3-5pm. permitting access to the Team Press Area. See also 'Press & Media'.

The official photographers of Formula Student will be providing a professional photography service to all of the competing teams. The photos will be on the IMechE website shortly after the event to download free of charge.

The use of drones is strictly prohibited by the venue operators, Silverstone Circuits Ltd. See also 'Drones'.

First Aid

If you require First Aid, please report to your nearest event official who will be able to contact Race Control who will then contact the appropriate services required. Please do not proceed to the Medical Centre, mobile medics are available to attend to you directly. For very minor incidents, a First Aid Kit is held at the Information Point underneath Race Control.

Formula Student Artificial Intelligence (FS-AI)

FS-AI teams will have allocated garage space as well as dedicated practice area on Thursday and Friday in the Medical Car Park and their dynamic events will take place on Brooklands Corner.

Design, Real World AI and Simulation Development events will be held in the Pavilion and Business Plan Presentation events will take place at Silverstone UTC Teams should present to judges according to the judging schedules.

ADS teams should also present with their vehicles.

Fuel

A free supply of fuel will be onsite all four days of the competition, supplied by Anglo American Oil Company. Cars which need to be drained at the end of the event prior to transportation must be taken to the Fuel Station by the deadline of 1 hour after the end of the Endurance event on Sunday. No open fuel containers are allowed and all fuel containers must be DOT approved. Waste oil can be disposed of in the oil waste recepticals in the Support Paddock.

Once at the competition site cars can only be fuelled at the FS Fuel Station.

Garage Allocations

All teams with running cars have been allocated their garage space according to the judging schedule (see also Judging Schedule). This will be published online at <https://www.imeche.org/events/formula-student/team-information/forms-and-documents>

Each garage will accommodate a maximum of 8 teams, with space divided into 6m deep x 4m wide pits for each team.

Access to the garages will be available from 14:00 on Wednesday on a controlled first come, first served basis from the collecting area in Car Park 49. Teams will be allocated a reasonable amount of time to unload at their garage before support vehicles need to leave the paddock.

All cars must be in garages before 20:00 on Wednesday, when all support vehicles must have vacated the paddock and be parked in the team parking area.

Teams arriving after this time will be required to park outside the paddock, unload their vehicle and push it into the paddock to their allocated garage space.

Information Point

This will be located in the garages underneath Race Control and will be open and attended by event officials during the following times:

Wednesday: 14:00-18:00

Thursday-Saturday: 08:00-18:00

Sunday: 08:00-16:00

Services include:

- Copies of the Judging Schedule
- General enquiries
- Official protests / appeals
- PA announcement requests
- Printing (charges may apply)
- Results enquiries
- Team Hot Area bib return (Sunday)
- Team Press Area bib return (Sunday)
- Transponder issue (from Thursday) and return (Sunday)

Insurance and Permit

The event is operated under Certificate of Exemption 124452 permit issued by the UK governing body for motorsport, Motorsport UK. The event is insured by the Motorsport UK's master policy, public liability insurance held by the Institution of Mechanical Engineers and event insurance held by Goose Live Events.

In accordance with Rule A4.2, teams should hold adequate insurance for participation in the event, including but not limited to personal accident insurance and public liability insurance. Teams from outside of the EU are also required to hold suitable medical insurance.

Judging Schedule

All teams are allocated times for their static events via the judging schedule. This will be published prior to the event at <https://www.imeche.org/events/formula-student/team-information/forms-and-documents>

It is your responsibility to **know where you need to be and when**. A master copy of the Judging Schedule will be held at the Information Point underneath Race Control.

Static event judging will take place in the Pavilion and Silverstone UTC. You will need to take your vehicles from your pit to the Pavilion in time for your judging session. Please do not arrive any more than 15 minutes early for your judging session or you will be asked to return to your pits in order to minimise crowding.

Please also be advised that there will be a limit of 6 team members permitted to attend each static event judging session. Some swapping in between events will be permitted but additional team members will not be permitted into the Pavilion to spectate due to strict capacity limits.

Mathworks Closing Ceremony

Sponsored by our Partners, MathWorks, the closing awards ceremony will take place on Sunday 10 July in the Pavilion. Please see event timetable for confirmation of time.

Media Links

Please use our social media channels to follow and post what is happening at the event.

- www.formulastudent.com
- www.facebook.com/formulastudent
- www.youtube.com/fsimeche
- www.flickr.com/photos/fsuk
- Instagram: @formulastudent
- Twitter: @FormulaStudent

The current hashtags are #formulastudent and #FS2022

Opening Ceremony

The opening ceremony will take place on Wednesday evening in the Pavilion (check event timetable for confirmation of timings) and will feature a keynote speaker, messages of support from our Ambassadors, introductions to the organising committee and volunteers and an overview of what to expect during the event. Attendance is essential for all teams.

Paddock Safety Team

Event officials will operate paddock patrols during the hours that the event site is open to teams each day.

Teams must adhere to any and all instructions issued by event officials.

Parking

Vehicles can be parked free onsite. Please note that no support vehicles will be allowed in the paddock area between 20:00 Wednesday and until advised by Officials following the end of the Endurance event on Sunday. Therefore, once a team has unloaded their FS car and equipment to the garage, the support vehicle will not be permitted to re-enter the paddock until Sunday. Teams wishing to leave prior to this time may push their cars (with driver in cockpit) to the team's support vehicle.

Personal vehicles and trailers must be parked in the public car parks only. Only FS competition vehicles or official vehicles will be allowed in the track areas.

Motorcycles, bicycles and scooters (including electric bikes and scooters), rollerblades, skateboards, hoverboards etc. are prohibited.

The use of self-propelled pit carts, tool boxes, tyre carriers or similar motorized devices in any part of the competition site, including the paddocks, is prohibited.

Partners and Sponsors

We are pleased to welcome many of our Partners, Sponsors, Supporters and Media Partners to Silverstone. Many of them will have a physical presence in the paddock with marquees, demonstrations and displays along with giveaways, competitions, tech talks etc.

Many of our Partners and Sponsors are looking to recruit the best and brightest young engineers. That's you, by the way! Make sure you visit them all to discuss your future prospects and keep in touch with them by sharing your contact details via your RFID tagged accreditation wristband.

Pavilion

Pavilion is the giant marquee in the space between Brooklands and Woodcote hospitality suites. This is where judging and ceremonies will take place.

Press and Media

Media accreditation is available to affiliated members of the press only and by prior arrangement with IMechE Press Office via media@imeche.org or +44 (0)20 7973 1261. After signing on, an individually numbered tabard will be issued which should be worn at all times so that you can be identified by Marshals.

For team photographers wishing to get closer to the action, we will have a Team Press Area for you to have access to whilst your car is on the Sprint and Endurance track. A tabard will be issued to teams at Sign On and Registration at Driver Sign On on Wednesday (see 'Sign On & Registration'). There is a strict limit of one pass per team, however this is interchangeable amongst team members provided it is only used by one person at a time. Access to this exclusive area is only available to those wearing a tabard and will be strictly controlled by event officials. Please follow instructions from event officials at all times.

Don't forget to upload your photos to social media using #FS2022.

Prohibited Items

The following apply: A6.6 Formula Student Rules 2022

The use of motorcycles, quads, bicycles, scooters, skateboards, rollerblades or similar person-carrying devices by team members and spectators in any part of the competition area, **including the paddocks, is prohibited.**

Smoking, including e-cigarettes and vaping, is prohibited in all enclosed areas including (but not limited to) grandstands, garages and marquees. It is also strictly forbidden in the pit lane, on the race circuit and in all hot areas. If you need to smoke, please do so only in well ventilated, outdoor open areas, well away from others and dispose of your cigarettes responsibly.

Results, Protests and Feedback

Results

Results will be displayed at the Information Point underneath Race Control. An announcement will be made over the PA system when these are available.

In the event of any dispute between the online and master Results, then the master Results displayed at Information Point will be taken as the correct version.

Protests

Please refer to Rules A3.7 for clarification of the protest protocols. If you wish to lodge an official protest regarding the published scores, please visit the Information Point and state the event result(s) you wish to protest. Info Point staff will then contact the relevant official.

Feedback

Cost and Manufacturing, Engineering Design and Business Plan Presentation feedback will be provided in the following ways:

Business Plan Presentation: Teams will be given verbal feedback immediately after their presentation. Each Team Leader has been sent a copy of the recording of their team's Business Plan Presentation including verbal feedback.

Teams are strongly encouraged to attend the Business Presentation Final on Saturday as this will allow you to watch the finalists and will answer many common questions.

Cost and Manufacturing: Feedback will be emailed to all teams after the event.

Engineering Design: Teams will be provided, as far as possible, with verbal feedback at the Judging session. Individual Design Score Sheets will be emailed to teams after the event: the timing being dependent upon volunteer work commitments.

Rules of Conduct

A special note must be made of the 'Rules of Conduct' in Rule A3 as detailed under the Formula SAE regulations and the Formula Student specific Rules.

Any violation of these Rules by a team member may lead to disqualification from the competition of that participant's entire team.

Any person considered to be contravening the Rules banning the use of alcohol, illegal drugs, weapons or other illegal material will automatically be expelled along with their entire team.

Safety

Under the Health and Safety at Work Act 1972, we all have a duty of care to ourselves and others who may be affected by our actions or omissions. This means that not only must we conduct our duties in a safe manner, but we should be vigilant for any unsafe practices carried out by others. As Event Organisers, we have put together the Health & Wellbeing Charter which you will find on our website. Examples of unsafe practices include misuse of equipment, not wearing appropriate personal protective equipment (PPE), conducting hot works outside of designated areas, working on accumulators outside of the designated areas and without an Electrical Systems Officer present (see EV Protocols document) and working whilst tired or under the influence of alcohol or other substances. Motorsport is, by its very nature, dangerous. This is not, however, a justification to condone unsafe practices. In general, common sense prevails and if something feels or looks unsafe to you, it should be discontinued immediately and challenged.

A Paddock Safety Team will patrol the garages each day and night whilst teams are onsite (see also Paddock Safety Team). If you observe anything you deem unsafe and do not feel comfortable challenging it yourself, speak to a member of the Paddock Safety Team who are identified by their green tabards.

Scrutineering

Scrutineering will begin on Wednesday with the queue order published at Information Point from Wednesday 6 July. It is the **team's responsibility** to leave Scrutineering if there is a clash with a scheduled static event. If you have to leave then please inform the Scrutineering queue monitor so that your re-entry to the Scrutineering process can be managed when you return.

Scrutineering is split into the areas described below. Teams will be directed which area to head to from the queue and after they pass through each area.

Electric Vehicles: For EVs only, EVs must have their accumulators removed from the vehicle before attempting scrutineering for the first time. The accumulator must only be reinstalled to the vehicle when given permission to do so by the EV Scrutineering team.

Safety: Conducted by the on-site Motorsport UK Scrutineers. Driver's Equipment, Steering, Suspension, Brakes and Driver's Harnesses are all inspected here.

Chassis: Vehicle is weighed and then checked to confirm that it is built as described in the team's SES and IAD submissions. Don't forget to bring any relevant physical test samples or receipts for purchase.

Tech: The vehicle is checked for compliance with all other technical Rules. Some items covered in Safety or Chassis scrutineering may be reinspected. Driver Egress checks are also completed in this section, on Thursday at least this will be for the tallest driver only. Once all of the above sections are passed the team may attempt the remaining scrutineering areas in the order described below.

Fuel (IC only): All IC vehicles must proceed to the fuelling station before entering Tilt.

Tilt: The vehicle rollover stability is checked, during which there must be no fluid leaks from the vehicle.

Noise: The exhaust noise level of IC vehicles and the ready to drive sound for EV vehicles are checked here.

Brake: The braking performance of all vehicles is checked here.

Once scrutineering for all of the above areas have been successfully completed the vehicle is then eligible to attempt the Dynamic Events.

Delivery

The earliest we can receive car shipments to Silverstone is **12:00 Tuesday 5 July 2022**. There will be no one available to accept delivery before this time, your vehicle will be returned to the port and you may incur additional charges.

Please only arrange delivery between the hours of 12:00-17:00 on 5 July or between 09:00-17:00 on Wednesday 6 July.

Team members will have access to the circuit from **14:00 Wednesday 6 July.**

THERE ARE NO EXCEPTIONS. PLEASE DO NOT SHIP ANY ITEMS NEEDED PRIOR TO THIS WITH YOUR VEHICLE E.G. CAMPING EQUIPMENT AS YOU WILL NOT BE PERMITTED ACCESS.

The address to ship to is:

**YOUR TEAM NAME, YOUR UNIVERSITY NAME,
YOUR CAR #**

**c/o Neil Carr-Jones, Formula Student UK
National Paddock
Silverstone Circuit
Silverstone
NN12 8TN**

Collection

Crates must be collected no later than **20:00 Sunday 10 July**.

Please only arrange collection between the hours of **09:00-17:00**.

Sign on and registration

This will take place in the Pavilion on Wednesday. Teams will be allocated time slots to attend between 12:00-17:30. If you cannot attend your allocated time slot you should still come to the Pavilion as soon as you can, but be prepared to wait as priority will be given to those attending at their correct time slot.

If your team is not able to attend registration on Wednesday, email fs@imeche.org and we will advise you how you can collect your registration packs*.

Your team should attend as a complete team, where possible, and Faculty Advisors and Team Leaders must be present. Teams should submit their Motorsport UK indemnity forms as per the key dates, which must be completed and signed by the Faculty Advisor. At registration, the IMechE team will cross check your indemnity against those arrived on site to check everyone has signed. Drivers will need to present their driving licences for inspection and will then be issued with a driver wristband which needs to be kept on for the duration of the event.

Other items that should be brought to registration:

- Proof of relevant insurances
 - Proof of medical insurance (non-EU teams only)
- Registration packs contain the following:

All teams

- RFID accreditation wristbands* (can only be issued to individuals, cannot be collected on behalf of others)
- Team Handbooks
- Event guide

FS and FS-AI only

- 4 x Pink and 1 x Yellow Tabard with number corresponding to car number
- Driver wristbands – numbered and lettered A-F (max 6 drivers per team) numbered corresponding to car number FS only

** Accreditation is required from Thursday onwards to gain access to the circuit at both the entrance via the campsite walking route and the Main Entrance*

Site Access / Opening Times

Each day that you arrive at Silverstone, security staff will ask to see your RFID wristband and it will be scanned for admission.

If you wish to leave the venue but plan to return the same day, on any day, you must ask security staff to scan you out otherwise they will not be able to scan you back in again until the following day.

Note that the following gates are in operation for access/egress during the live event:

Wednesday 6 July Main Entrance 14:00-23:00
(last admission 22:00)

Thursday 7 July Main Entrance and Gate 5
(from campsite) 07:00-23:00 (last admission 22:00)

Friday 8 July Main Entrance and Gate 5
(from campsite) 07:00-23:00 (last admission 22:00)

Saturday 9 July Main Entrance and Gate 5
(from campsite) 07:00-23:00 (last admission 22:00)

Sunday 10 July Main Entrance and Gate 5
(from campsite) 07:00-23:00 (last admission 16:00)

Smoking and e-cigarettes/vaping

Smoking, including e-cigarettes and vaping, is prohibited in all competition areas.

Spectators

Saturday-Sunday: 08:00-18:00 (last admission 17:00) Spectator tickets are available to purchase in advance of the event from

www.silverstone.co.uk/events/formula-student/

or from the Ticket Office outside the circuit's Main Entrance Saturday-Sunday (subject to availability).

Taxi Companies

Deano's: 01327 359113

Towcester Taxis: 01908 263263

M B Cars: 01327 352483

Sadies Cars: 01327 358484

Team Photograph

See also 'Filming & Photography'.

The FS2022 Official Photograph will take place on Friday at 18:30 approx. (refer to the event timetable for confirmation of time).

There will also be a Concept Class only photo on Thursday evening (approximately 18:30. See also 'Concept Class').

Timetable

The official event timetable is published online at <https://www.imeche.org/events/formula-student/team-information/forms-and-documents> and a master copy will be displayed on the at the Information Point underneath Race Control.

In the event of any dispute between the online and master timetable, then the master timetable displayed at the Information Point will be taken as the correct timetable.

Transponders

Transponders will be issued to all FS and FS-AI ADS Team Leaders at Sign On & Registration (see also 'Sign On & Registration'). Teams will be required to sign for the transponder and they must be returned to the Information Point within 30 minutes of the close of the Endurance event on Sunday. Non-return will incur a fee of £500 + VAT.

Tyres

Hoosier Tyres are the official tyre supporter for Formula Student UK. Their services will be available in the Paddock as follows:

Thursday 12:00 – 18:00

Friday 09:00 – 18:00

Saturday 09:00 – 18:00

Vehicle Modifications

No unapproved modifications are allowed after your car has been scrutineered. Refer to 'Car Set Up Alterations' for approved modifications.

Vehicle Movement

See also 'Engine & Electric Motor Running'.

Refer to Rule A6.7. Vehicles must not move under their own power anywhere other than the practice or competition tracks.

See also 'Engine and Electric Motor Running'.

Driving off-site (out of the paddock) is absolutely prohibited. Teams found to have driven their Formula Student car at an off site location, including the campsite, during the period of the competition will be disqualified from the competition.

Water

Drinking water is available onsite from the Pit Stop Cafe and taps around the paddock, please stay hydrated! Where possible, please try to use refillable water bottles to reduce the impact of plastic waste on our environment.

Welding and Hot Works

For the HSE's latest guidance regarding safe working practices whilst welding, see <https://www.iosh.co.uk/News/HSE-changes-to-welding-fume-control-standards-what-you-need-to-know.aspx>

Hot Works

For simplicity, hot works will be defined as anything generating a spark e.g. grinding, using a blow torch etc. A dedicated space for hot works and welding is located in Garage 6.

Team members wishing to conduct hot works must report to this area with their Faculty Advisor*, who must accompany the team members whilst conducting any hot working. The team members and Faculty Advisor will be required to sign in and out of this area.

There are no exceptions – no Faculty Advisor, no hot working.

Welding

We have a dedicated welding facility in Garage 6 which is available at the following times:

Friday 09:00-18:00

Saturday 09:00-18:00

Sunday 09:00-15:00

All welding must take place in this dedicated area. Welding in garages is NOT permitted.

At the sole discretion of the welding technicians, students may be permitted to weld provided the following criteria is met:

- Your Faculty Advisor* and team members requesting permission to weld have made themselves known to the technicians expressly stating their request
- The team members have and are wearing suitable PPE (disposable suits and gloves), including eye and skin protection and P3 respirators
- Completion of a safety briefing on fire, breathing and exposure to fumes (including correct use of the extraction equipment) and access in and around the scrutineering bay given by the technicians

There are no exceptions.

No Faculty Advisor, no student welding.

Wet Weather Running

The British weather can be unpredictable and it is possible that we will have to run some or all of the Dynamic events in wet conditions. The Rules for tyre selection will follow the Rule D3.

Wireless telemetry

If you plan to use wireless telemetry at Silverstone, please configure wireless access points / chipsets to run on 2.4ghz. This is of extreme importance in order to prevent interference with event WiFi running on 5ghz which is essential for the successful and smooth running of the event.

Appendix 1: Motorsport Uk Flags

FLAG SIGNALS



Blue
Overtaking flag



Green
Road clear



White
Service car or slow moving vehicle



Yellow
Danger



Yellow/Red
Slippery surface



Red
Cease racing



Yellow/Black chequered
Slow down, no overtaking (barging only)



Purple
Code 60
Race Neutralised



Black/White diagonal
Warning flag



Black, Orange disc
Mechanical failure



Black
Report to CoF



Black/White chequered
End of race

Appendix 2: Uniform Guide



Appendix 2: Uniform Guide



Appendix 2: Uniform Guide



Appendix 2: Uniform Guide



White shirts featuring FS logo identify Formula Student Organising Committee members.



Appendix 2: Uniform Guide

Pink Tabards = Team Hot Area (max 4 per team)

Yellow Tabards = Team Press Area (max 1 per team)

Orange Tabards = Official Media and Photographers



Appendix 3: Maps and Plans

FORMULA STUDENT

Institution of
**MECHANICAL
ENGINEERS**

SILVERSTONE

6-10 July 2022

www.formulastudent.com

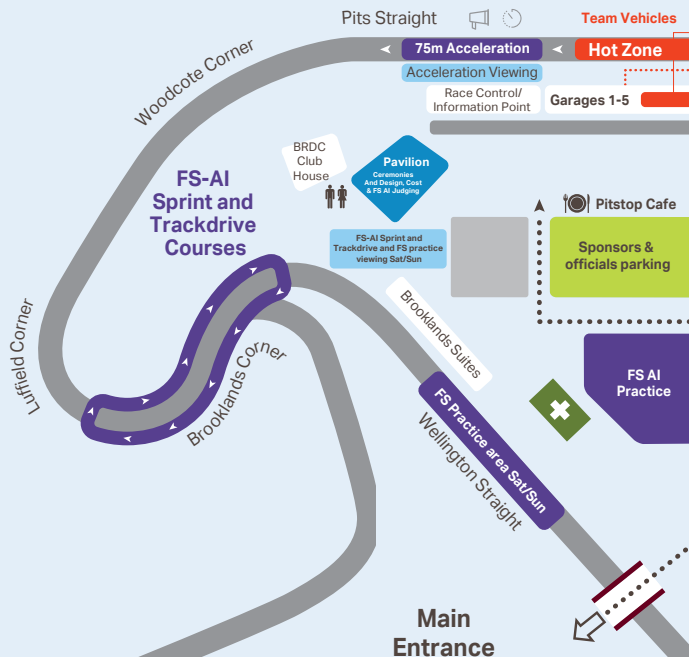
 @formulastudent

 #fs2022

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 facebook.com/formulastudent

 uk.linkedin.com/in/formulastudent



 Dynamic Events

 Scrutineering

 Student Press Area

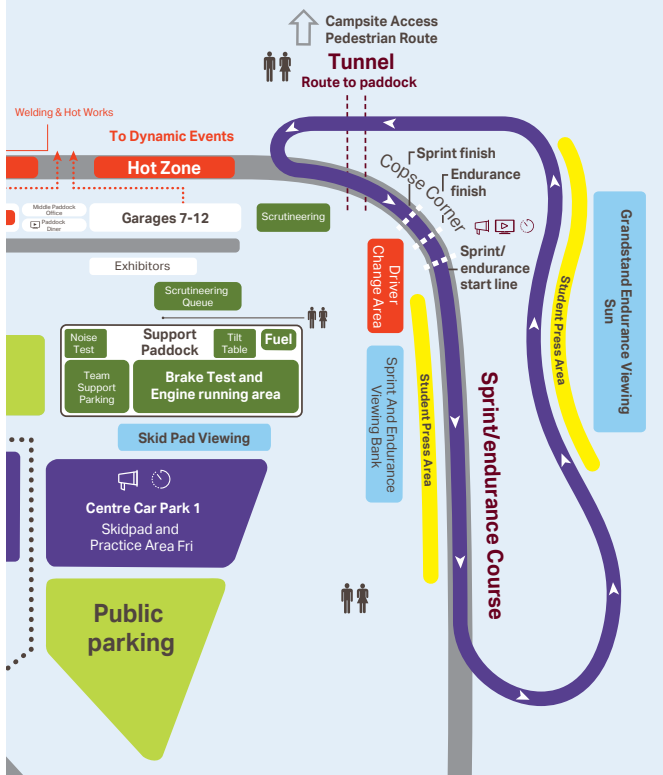
 Viewing Area

 Parking



VENUE MAP

NATIONAL CIRCUIT



Judging
Locations



Catering



Toilets



Timekeeping
and Commentary



Tv Screen

