

# Formula IHU Competition Handbook v.1.0

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Abbreviation	Full Form	
ASES	Accumulator Structural Equivalency Spreadsheet	
ВРР	Business Plan Presentation	
BPPV	Business Plan Pitch Video	
вом	Bill of Materials	
ссвом	Costed Carbonized Bill of Materials	
CEEF	Cost and Emissions Explanation File	
CET	Central European Time	
CRD	Cost Report Documents	
cv	Combustion Vehicle	
стѕ	Chassis Type Selection	
DGUV	German Social Accident Insurance (Deutsche Gesetzliche Unfallversicherung)	
DNA	Did Not Attempt	
DSS	Design Spec Sheet	
EDR	Engineering Design Report	
EEST	Eastern European Summer Time	
EET	Eastern European Time	
E85	Ethanol Fuel Mixture (85% Ethanol, 15% Gasoline)	
ESF	Electrical System Form	
ESO	Electrical System Officer	
ESOQ	Electrical System Officer Qualification	
EV	Electric Vehicle	
FS	Formula Student	
FSG	Formula Student Germany	
FIHU	Formula IHU	
GDPR	General Data Protection Regulation	
ніс	Health Insurance Certificate	
IAD	Impact Attenuator Data	
RON98	Research Octane Number 98	
SE3D	Structural Equivalency 3D Model	
SES	Structural Equivalency Spreadsheet	
SM	Supporting Material	
итс	Coordinated Universal Time	
vsv	Vehicle Status Video	

### 1. General Information

### 1.1. Competition Overview

Formula IHU is part of the Formula Student World Competition Series.

Formula IHU 2025 will consist of two separate classes, the Internal Combustion Vehicle (CV) Class and the Electric Vehicle (EV) Class.

There will be no Driverless Cup or Driverless Events at Formula IHU2025.

Available Slots:

- 20 CV Class teams
- 40 EV Class teams

### 1.2. Applicable Rules

Compliance with general Formula Student Rules **"FS Rules"** (FS-Rules 2025 v1.1) as published on the FSG homepage, with specific FIHU additions and clarifications.

### 1.3. Official Communication Channels

General Inquiries: <a href="mailto:info.formulaihu@ihu.gr">info.formulaihu@ihu.gr</a>

Technical Inquiries: technical.formulaihu@ihu.gr

Official Website: <a href="https://formulaihu.ihu.gr/">https://formulaihu.ihu.gr/</a>

### 1.4. Event Date and Location

The competition dates are the 26th-31st of August 2025.

The track is the **Serres International Circuit** located in Northern Greece.

### 1.5. Language and Time Format

### 1.5.1. Official Language

The official language of Formula IHU) is **English**. All official documents, communication, and presentations must be conducted in English to ensure consistency and inclusivity among international participants.

#### 1.5.2. Date and Time Format

All dates and times in this handbook, as well as in any official communications, will adhere to the following standards:

- Date format:DD-MM-YYYY (e.g., 25-06-2025)
- Time format: HH:mm: ss in 24-hour notation (e.g., 14:30:00 for 2:30 PM)

Athens, Greece observes daylight saving time, switching between Eastern European Time (EET, UTC+2) during standard time and Eastern European Summer Time (EEST, UTC+3) during daylight saving time.

- Sunday, October 27, 2024: Wintertime started. The time was set back one hour from 04:00 to 03:00 local time, switching to UTC+2 (EET).
- Sunday, March 30, 2025: Summertime starts. The time will be set forward one hour from 03:00 to 04:00 local time, switching to UTC+3 (EEST).

When planning deadlines and schedules, ensure you account for these seasonal time changes.

For real-time verification of the current time in Athens, refer to <a href="https://time.is/Athens">https://time.is/Athens</a>.

### 1.6. Team Behavior

### 1.6.1. Testing & Work Safety

FIHU strictly follows FS Rules, A 6.3

### 1.6.2. Clear message of zero tolerance of all forms of violence and hate crime

We aim to proactively promote awareness and emphasize our zero-tolerance policy toward any form of violence or hate crime. In the event of an incident during the competition, we are committed to providing you with confidential support and assistance.

If any type of **violent, racist, or non-sportsmanship** behavior is noticed (before or during the competition), the FIHU organizers have the right to disqualify the team from the competition.

### 1.7. GDPR

In relation to the event organized by the International Hellenic University (IHU), your personal data, including your name, contact details, and administrative information, are collected to facilitate your participation in the event, implement organizational arrangements, and enter the venue.

During the event, you may be photographed or filmed. Having requested your consent by written or oral statement, the IHU may disclose, publish, transmit, or quote such material in activities intended for the public.

You can withdraw consent anytime and object to the processing indicating it to the organisers. The IHU processes personal data per Regulation (EU) 2018/1725.

### 1.8. Event Handbook

An event handbook will be published before the competition including further information.

### 1.9. Protests

As per FS rules A3.7 detailed protest forms and procedures will be found in the Event Handbook.

# 2. Registration and Eligibility

### 2.1. Teams & Participants Eligibility

Eligibility strictly adheres to FSG 2025 Rules

A4: General Requirements for Teams & Participants\*

\*Requirements include that all participants must be university students or recent graduates of the same year (January 2025, and after).

### 2.2. Team Member Limits and Roles

There is no limit for team member number per team in FIHU

Role	Requirement	
Team Captain	Team Member	
Inspection Responsible	Team Member	
ESO	Team Member	
Driver	Team Member	
Faculty Advisor	University Faculty Member	

### 2.3. Team Account Setup

Each team will need to create an account at Formula IHU's official website: <a href="https://formulaihu.ihu.gr/">https://formulaihu.ihu.gr/</a>

First, a team must press register at the "Team Portal" and fill out the form.

The portal will open for teams wanting to register a week before the registration quiz.

Information that teams will need to create an account are:

Team Name: Text

**University** Name: Text

**Country**: Text

Category: CV (RON98) / CV (E85) / EV

Team Captain Full Name: Text

Team Captain Email (Username): Text

FSG ID: Text

Team Website: Text

Team Instagram: Text

Team Linkedin: Text

Chassis Type Selection: Tubular Space Frame/Monocoque

Vehicle number (C01-C99 for CV, E01-E99 for EV): Dropdown

Organization billing address: Text

**Organization Name: Text** 

Organization vat id: Text

Password: Text

### 2.4. Pre - Registered Teams

### 2.4.1. Greek Teams:

- 1) Aristotle Racing Team, Aristotle University
- 2) Aristotle University Racing Team Electric & Driverless, Aristotle University
- 3) Centaurus Racing Team, University of Thessaly
- 4) Democritus Racing Team, Democritus University of Thrace
- 5) FS TUC, Technical University of Crete
- 6) Minotaur Racing Team, Hellenic Mediterranean University
- 7) Pelops Racing Team, University of Peloponnese
- 8) Perseus Racing Team, University of Western Macedonia
- 9) Poseidon Racing Team, University of West Attica
- 10) Prom Racing Team, National Technical University of Athens
- 11) University of Patras Racing Team, University of Patras

### 2.4.2. Cypriot Teams:

- 1) Formula Racing Team University of Cyprus (FRTUC), University of Cyprus
- 2) Frederick University Formula Racing Team, Frederick University

### 2.5. Registration Quiz

Team selection and order will be decided based on the Registration Quiz performance.

### 2.5.1. Quiz Procedure

The guiz will be conducted on 30-01-2025 at 13:00 CET.

Teams can only take the quiz after completing the registration procedure at the IHUportal by 29-01-2025 at 23:59.

Teams are tasked to answer a series of 10 to 20 questions.

For each correct answer, the team gains points (points may vary between questions, depending on the complexity).

For each incorrect answer half of the question points will be deducted from the team score.

If a question is left blank, or the "not answer" choice is selected the team's score remains unaffected.

In case two or more teams have the same score, teams with faster quiz times will be favored.

### 2.5.2. Answer Sheet & Protests

An answer sheet will be provided shortly after the completion of the quiz.

The protest period ends on 31-01-2024.

Protests are to be sent to <a href="mailto:lnfo.formulaihu@ihu.gr">lnfo.formulaihu@ihu.gr</a> and should contain the question that they are referring to.

### 2.5.3. Registration Results

The registration results will be announced shortly after the protest period ends.

Team quiz scores will be used to settle priorities (e.g. inspection order, team number, etc).

### 2.5.4. Pre-registered teams - Quiz

Pre-registered teams should still participate in the Registration Quiz.

### 2.6. Fees and Payment Guidelines

Competition fee: 2.000 € plus VAT

This price includes:

- Team participation without limit to team members.
- Campsite for the duration of the competition without limit to team members.

After the quiz results, the International Hellenic University account for Formula IHU will be shared with the registered teams alongside the proforma invoice.

The payment period is 7 days from the date that the invoice is sent. If the registered teams face any issues with the payment they must contact the FIHU immediately at: <a href="mailto:info.formulaihu@ihu.gr">info.formulaihu@ihu.gr</a>

### 2.7. Cancellation and Refund Policy

If for any reason, the competition is canceled, teams can receive 90% of the net price.

If any team pays the fee to enter the competition and then withdraws, the price can not be refunded.

# 3. Document Submissions and Deadlines

### 3.1. Document Submission Dates

Document	EV	CV	Deadline	Submission	Format	File Size
Powertrain	Ø	Ø	29/01/2025 23:59:59	Formula IHU Portal	Registration	
Fuel Type Order		V	29/01/2025 23:59:59	Formula IHU Portal	Registration	
Chassis Type Selection (CTS)	Ø	V	29/01/2025 23:59:59	Formula IHU Portal	Registration	
Impact Attenuator Data	Ø	Ø	14/03/2025 14:00:00	FS Germany Portal		
Structural Equivalency 3D Model	Ø	Ø	14/03/2025 14:00:00	FS Germany Portal		
Structural Equivalency Spreadsheet	Ø	Ø	14/03/2025 14:00:00	FS Germany Portal		
Accumulator Structural Equivalency Spreadsheet	V		14/03/2025 14:00:00	FS Germany Portal		
Electrical System Form (ESF)	Ø		28/03/2025 14:00:00	FS Germany Portal		
Electrical System Officer Qualification (ESOQ)	$\square$		05/07/2025 23:59:59	Formula IHU Portal	.pdf	50MB
Business Plan Pitch Video	Ø	Ø	05/07/2025 23:59:59	Formula IHU Portal	.txt	50MB
Design Spec Sheet	Ø	Ø	05/07/2025 23:59:59	Formula IHU Portal	.pdf	50MB
Engineering Design Report	Ø	Ø	05/07/2025 23:59:59	Formula IHU Portal	.pdf	50MB
Team Member Designation	Ø	Ø	19/07/2025 23:59:59	Formula IHU Portal	xlsx	50MB
Cost Report Documents	Ø	Ø	19/07/2025 23:59:59	Formula IHU Portal	.zip	50MB
Vehicle Status Video (VSV)	Ø	Ø	30/07/2025 23:59:59	Formula IHU Portal	.txt	50MB

### 3.2. Important Submission Details

All deadlines mentioned in this handbook follow the Athens, Greece time zone, as outlined previously in <u>1.5.2</u>.

Unless explicitly stated otherwise, all FIHU deadlines are understood to end at 23:59 (11:59 PM) on the specified date. For example:

• A deadline of 20/04/2025 means 20th April 2025 at 23:59, in the Athens time zone.

To avoid confusion, always verify the current local time in Athens using <a href="https://time.is/Athens">https://time.is/Athens</a>

If a submission is not accepted at Formula IHU, the corrected version must be submitted within 168 hours (7 days) from the official request, and failure to comply will result in the team being disqualified from the competition

### 3.2.1. Use of FSG Online Tools

To ensure smooth submissions and collaboration with Formula Student Germany (FSG), Formula IHU (FIHU) incorporates the following procedures:

- Teams participating in FIHU are required to use FSG online tools for certain submissions.
- To access these tools, teams must register on the FSG platform for the current FSG event
- Teams competing in FIHU should follow FSG's guidelines for registration and tool usage to ensure compliance.
- The use of FSG tools is mandatory for specific documents and submissions required by FIHU.

### 3.2.1.1. For Combustion Vehicle (CV) Teams:

- CV teams can register directly on the FSG Team Details page without participating in the FSG Quiz.
- Registration is available on the day of the FSG Quiz and remains open for two weeks.

### 3.2.1.2. For Electric Vehicle (EV) Teams:

- EV teams must participate in the FSG Quiz to complete their registration as EV
- No payment to FSG is required for these registrations

#### 3.2.2. Powertrain selection

The powertrain selection must be chosen during the website registration process.

### 3.2.3. Chassis Type Selection (CTS)

The Chassis Type must be chosen during the registration process and on the FSG competition setting page.

### 3.2.4. Fuel Type Order

The Fuel Type must be chosen during the website registration process.

Available Fuel Types are:

- RON98
- E85

### 3.2.5. Electrical System Officer Qualification (ESOQ)

An ESOQ according to FSG Rule A4.3.8 or similar must be submitted at Formula IHU Portal.

If the team can't upload a certificate, it is the responsibility of the team to ensure that the chosen ESOs are well-trained according to the basis of DGUV 209-093 stage 2E/3E1. A liability statement must be uploaded to the Formula IHU Portal before the event. The team must also justify the reason for not being able to upload the certificate by sending an email to technical.formulaihu@ihu.gr

### 3.2.6. IAD, SES, ASES, SE3D, ESF

All submissions for SES, ASES, SE3D, IAD, and ESF documents must be made exclusively through the FSG platform. Document checks and feedback will also be managed solely via the FSG platform. Registration on the FSG platform is still required for teams participating in FIHU but not FSG. SESA is not required but it would be beneficial if it's uploaded

In case of late submission of SES, ASES, SE3D, IAD, and ESF a 10-point deduction per day per document will be applied.

#### 3.2.7. Business Plan Pitch Video

Teams must upload their Business Plan Pitch Video, according to FSG S2.3, as a Public or Unlisted YouTube video, and upload a .txt file with a link in it on the FIHU website.

In case of late submission of BPPV, a 5-point deduction per day will be applied to the Business Plan Presentation Event Points.

A team will be excluded from the BPP if a BPV is not provided.

### 3.2.8. Design Spec Sheet

Uploaded at FIHU Portal using the FIHU\_Design\_Spec\_Sheet.xlsx template.

The name of the uploaded file should have the following format:

Car Number\_University name\_FIHU\_DSS.xlsx

example "E00\_IHU\_FIHU\_DSS.xlsx"

In case of late submission of DSS, a 5-point deduction per day will be applied to the Engineering Design Events Points.

### 3.2.9. Engineering Design Report

The name of the uploaded file should have the following format:

Car Number\_University name\_FIHU\_EDR.pdf

example "E00\_IHU\_FIHU\_EDR.pdf"

In case of late submission of EDR, a 5-point deduction per day will be applied to the Engineering Design Events Points.

### 3.2.10. Team Member Designation

- Uploaded at FIHU Portal using the FIHU\_Team\_Member\_Designation.xlsx template.
- A valid health insurance in Greece or the EU must be provided (HIC).

#### 3.2.11. CRD

The Cost Report Documents should be uploaded as a zip file on the FIHU portal.

The BOM and CCBOM must be generated using the FSG CR tool. Once complete, the entire CR should be exported using the "PDF Export" function in the CR tool.

The exported PDF must be combined in a zip file along with the Cost and Emissions Explanation File (CEEF) and Supporting Material (SM), such as drawings, before being uploaded to the FIHU portal.

The uploaded file should be named in the following format:

[ZIP] [CarNumber\_UniversityName\_FIHU\_CRD.zip]

- [CarNumber\_UniversityName\_FIHU\_CC\_BOM.pdf] PDF exported from FSG
- [CarNumber\_UniversityName\_FIHU\_CEEF.pdf] Cost and Emissions Explanation File
- [CarNumber\_UniversityName\_FIHU\_SM.pdf] Supporting Material

E.g. For Car C99 from IHU University:

[ZIP] [C99\_IHU\_FIHU\_CRD.zip]

- [C00\_IHU\_FIHU\_CC\_BOM.pdf]
- [C00\_IHU\_FIHU\_CEEF.pdf]
- [C00\_IHU\_FIHU\_SM.pdf]

E.g. For Car E99 from IHU University:

[ZIP] [E99\_IHU\_FIHU\_CRD.zip]

- [E00\_IHU\_FIHU\_CC\_BOM.pdf]
- [E00\_IHU\_FIHU\_CEEF.pdf]
- [E00\_IHU\_FIHU\_SM.pdf]

#### 3.2.11.1. Late or non-submission

For each day past the deadline, a 15-point deduction from the Cost Event Total Points will be applied. This penalty also applies to incomplete or invalid submissions (e.g., if a team submits only 2 out of 3 CRDs, a 15-point penalty per day will be applied).

#### 3.2.12. CCBOM

The CCBOM must be created for the same "system" as defined in the S3.5.2 FS Rules 2025 v1.1.

### 3.2.13. Vehicle Status Video

- Teams must upload their Vehicle Status Video, as a Public or Unlisted Youtube video, and a .txt file with a link on the FIHU website.
- The name of the uploaded file should have the following format:
   Car Number\_University name\_FIHU\_VSV.txt , example "E99\_IHU\_FIHU\_VSV.txt"

In case of **late submission**, a penalty is applied. The points deducted are calculated with the following formula:

Total Points Deducted = 
$$10 \times \frac{1 - 1.09^{D}}{1 - 1.09}$$

D = total delay in days

Example for D = 14 days, Total Points Deducted = -260

If the VSV is not submitted by August 20th at 23:59, the team will be disqualified from all Dynamics Events. A feedback-only inspection will still be permitted, but the team will be placed at the bottom of the inspection queue, below teams passing Re-Inspection.

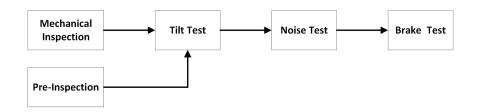
# 4. Technical Inspection

### 4.1. Vehicle Classes and Specifications

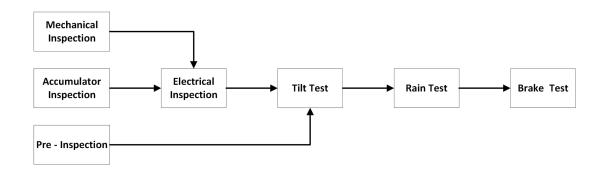
- CV Class: Internal Combustion Vehicles (Hybrid Powertrains are prohibited )
- EV Class: Electric Vehicles

### 4.2. Inspection Order

### 4.2.1. CV Class



### 4.2.2. EV Class



### 4.2.3. Initial Inspection Order

The order for the initial technical inspection will be determined by the FIHU organizers. The following factors will be taken into account:

- Class
- Quiz results
- VSV submission date

Technical inspections must be completed in the order shown in 4.2.1 & 4.2.2.

### 4.2.4. Re-Inspection

Teams can try a step of the Inspection process again as many times as they wish, as long as they are making the changes scrutineers note on the inspection sheet, the Technical Inspection is active, and a slot is available for the team. Teams that are on their first try for a Technical Inspection step always have priority over teams that have applied for Re-Inspection.

### 4.3. Technical Inspection Details

### 4.3.1. Inspection Sheet

The FIHU Inspection Sheet will be provided before the competition.

More details about the FIHU Inspection Sheet in the Event Handbook.

### 4.3.2. Inspection sticker

As per FS Rules IN1.3.1, the team should have approximately 15cm\*10cm free space on the nose of the vehicle for the inspection sticker.

### 4.3.3. Pre-Inspection

Integrated to Formula IHU Pre-Inspection will also be the following:

- Egress Test for all Drivers
- All the Inspection Parts that actively include the Driver will be conducted during the Pre-Inspection for all registered Drivers (e.g. driver gear, belts, roll hoops, etc)
- Detailed Pre-inspection procedures will be listed in the event handbook

#### 4.3.4. Accumulator & Electrical Inspection

There will be no cell temperature monitor device according to FSG Rules EV5.8.6.

The teams must bring the necessary equipment according to FSG Rules IN3.2.2. An Insulation Monitoring Device and a power supply will be available at the inspection area for the necessary checks of the inspection. It is recommended that the teams bring their own devices.

A data logger according to FSG Rules EV4.6 must be installed during the electrical inspection.

### 4.3.5. Mechanical Inspection

Mechanical inspection will contain all the points mentioned in the inspection sheet, excluding points mentioned in the pre-inspection.

### 4.3.6. Tilt Test

- Includes Vehicle Weighing.
- Officials have the right to tilt the vehicle on either side if deemed necessary.

### 4.3.7. Noise Test

Before the Noise Test procedure, the following will be checked:

- Shutdown System functionality.
- Intake closure (manual adjustment) stalls the engine.

### 4.3.8. Rain Test

The accumulator cannot be charged for one hour after a Rain Test attempt.

### 4.3.9. Brake Test

4-wheel lockup must happen simultaneously with small tolerance by the officials' judgment.

### 4.4. Good Engineering Practises

The car must strictly adhere to good engineering practices.

Officials can overrule areas that are "technically" FS Rules compliant if they deem them unsafe.

# 5. Equipment

### 5.1. Data Loggers

Data Loggers will be provided by the competition.

Details will be announced before the competition (Event Handbook).

### 5.2. Transponders

Transponders will be provided by the competition.

Details will be announced before the competition (Event Handbook).

### 6. Static Events

### 6.1. Engineering Design Event

### 6.1.1. Engineering Design scoring

The maximum score for the Engineering Design Event is 150 points.

### **6.1.2.** Engineering Design Scoring Categories

Judging Categories	Score
Overall Vehicle Concept & Team Management	35
Suspension & Vehicle Dynamics	25
Aero & Vehicle Dynamics	15
Chassis, ergonomics & Structural Design	30
Powertrain	20
Electronics (LV or CV Electronics)	10
Vehicle condition	5
EDR	10
Total	150

### 6.1.3. Engineering Design Event Procedure

The Engineering Design Procedure lasts 70 minutes

- 5 minutes: Judges introduce themselves to the team.
- 5 minutes: Team Captain delivers an overall presentation.
- 40 minutes: Open discussion between the team and the judges.
- 10 minutes: Judges private discussion.
- **10 minutes**: Judges provide brief feedback to the team.

### 6.1.4. Engineering Design Event Finals

- The finals will take place in the evening.
- Finalists will be announced through the team captains' communication channels.
- Detailed procedures for the finals will be outlined in the Event Handbook.
- The number of finalists may vary.

### **6.1.5.** Engineering Design Event Feedback

- Detailed, open-discussion feedback will be provided to teams after the conclusion of the Design Event.
- More information about the feedback process will be found in the Event Handbook.

### 6.2. Cost and Manufacturing Event

### 6.2.1. Cost and Manufacturing Objective

The objective of the Cost and Manufacturing Event at a Formula Student competition is to evaluate a team's ability to understand and control the cost and manufacturing feasibility of their race car project. This event aims to simulate the financial and production aspects of engineering in a professional motorsport environment.

Key objectives include:

Cost Management: Demonstrating an understanding of the car's cost breakdown by presenting a detailed and accurate cost report. This includes materials, labor, manufacturing processes, and overheads.

Manufacturing Feasibility: Showcasing the ability to design a car that is both high-performing and feasible for production, considering factors such as assembly methods, manufacturing techniques, and scalability.

Value Optimization: Highlighting decisions that balance cost, performance, and reliability, reflecting an efficient use of resources.

Presentation and Justification: Explaining and defending cost and manufacturing decisions during the event, including the ability to address judges' queries and justify trade-offs made during the design and manufacturing process.

Industry Relevance: Preparing participants for real-world engineering scenarios where cost control and manufacturability are critical to success.

#### 6.2.2. Cost Report Rule Changes and Clarifications

Changes in Cost and Manufacturing that will be implemented at Formula IHU are clarified below.

# 6.2.2.1. Changes relevant to Cost Report Documents (Addition to FS Rules 2025/S3.3.2)

Changes to the vehicle that were made as a result of direct requests from officials at the Tech Inspection do not have to be documented in the changelog. Instead, the Inspection Sheet can be shown as proof.

#### 6.2.2.2. Costed Carbonized Bill of Material (Addition to Rules 2025/S3.5.10)

The cost calculations must be completed as realistically as possible and exclude research, development, and capital expenditures for real estate (e.g. plant or development hours of the team). Space requirements for machines may be included.

### 6.2.2.3. Vehicle Condition (Addition to Rules 2025/S1.1.1)

Vehicles must be presented for judging in finished condition, fully assembled, complete, and ready to race.

If the team has not passed the accumulator inspection, the accumulator must be presented on the Hand Cart.

Note: Cars that are presented at cost Event with wet tires and are not included in the CRD (Cost Report Documents) will receive points deduction.

### 6.2.3. Cost and Manufacturing Scoring

#### 6.2.3.1. Points Distribution

Points Distribution is shown in the table below:

Category	Points
BOM Discussion	40
Cost Understanding	40
Real Case Scenario	20
Total	100

### 6.3. Business Plan Presentation Event

### 6.3.1. Business Plan Presentation Objective

The objective of the BPP is to assess the team's ability to develop and present a comprehensive business model. This business model must offer a product or a service based on the team's specific prototype vehicle or a specific component of it, providing a rewarding business opportunity that creates a monetary profit. The vehicle or component must be an essential part of the value proposition.

The judges should be considered potential investors or partners for the presented business model.

The quality of the actual prototype will not be considered as part of the BPP judging, therefore \$1.1 does not apply.

#### 6.3.2. Business Plan Presentation Procedure

Presentations are limited to a maximum of 10 min. The judges will stop any presentation exceeding 10 min.

The presentation will not be interrupted by questions. Immediately following the presentation there will be a 10-minute question and answer session.

One or more team members may present the business plan.

All team members involved in the BPP must be in the podium area and must be introduced to the judges at the beginning of the presentation. The team members who have been introduced may answer the judges' questions even if they were not presenting.

Anything presented past the assigned period will not be evaluated as part of the presentation.

Before the competition, a specific deep dive topic, which has to be part of the 10-minute presentation, will be published on the competition website.

#### 6.3.3. Pitch Video

To convince potential investors or partners that the team's presentation is worthy of their time, it is required that a Business Plan Pitch Video (BPPV) is submitted before the competition. The pitch video should be considered as the first impression of the business idea and has to contain the relevant investment figures.

The BPPV must not exceed a length of 30 seconds.

### 6.3.4. Business Plan Presentation Scoring

### 6.3.4.1. Points Scoring

The BPP will be evaluated on the categories specified in the following table.

Category	Points
Pitch Video	10
Content	20
Finances	10
Deep Dive Topic	10
Demonstration and Structure	15
Delivery	10
Questions	10
General Impression	15
Total	100

If the business model presented does not relate to one of the areas listed within 6.3.1., 15 penalty points will be deducted from the team's BPP scoring.

The competition will start with an initial judging. The scoring of the BPP is based on the average of the scores given by each of the judges.

After the initial judging the top 2-4 teams of each category will be chosen to participate in the BPP finals to determine the BPP winners. The BPP finals will be held separately from the initial judging and teams will be informed about their participation during the event.

### 6.3.4.2. Non-finalist Scoring

The scoring for the non-finalist is calculated as follows:

$$BPP\_SCORE = 70 \times \left(\frac{P_{team}}{P_{max}}\right)$$

 $\boldsymbol{P}_{team}$  is the score awarded to the team

 $\boldsymbol{P}_{max}$  is the highest score awarded to any team not participating in the finals

The scoring of the BPP finalists will vary from 75 to 71 points and is scored immediately after the BPP finals by all judges.7. Dynamic Events

## 7. Dynamic Events

### 7.1. Dynamic Events Overview

#### 7.1.1. Skid Pad

#### 7.1.1.1. No Autonomous Mode

- Manual Mode Only
- FS Rules D5.2.4 is void

#### 7.1.1.2. Number of Runs

Each team has four runs, independent of the number of drivers completing those four runs.

### 7.1.1.3. Skidpad Scoring

According to FS Rules D4.3.1 & D4.3.3

#### 7.1.1.4. Second Run

Each driver has the option to take the second run immediately after the first one and will have priority over waiting teams.

*Note:* This does not apply to the driver's 3rd & 4th runs.

### 7.1.2. Acceleration

### 7.1.2.1. No Autonomous Mode

- Manual Mode Only
- FS Rules D4.2.3 & D4.2.4 are void

### 7.1.2.2. Number of Runs

Each team has four runs independent of the number of drivers completing those four runs.

#### 7.1.2.3. Staging

The frontmost part of the vehicle, which can trigger the timing beam, will be staged 300mm from the Start Line.

#### 7.1.2.4. Second Run

Each driver has the option to take the second run immediately after the first one and will have priority over waiting teams.

Note: This does not apply to the driver's 3rd & 4th runs.

### 7.1.2.5. Acceleration Scoring

According to FS Rules D5.3.2

#### 7.1.3. Autocross

#### 7.1.3.1. Number Of Runs

Each team has four runs, two for each driver.

#### 7.1.3.2. Second Run

The driver has the option to take the second run immediately after the first one and will have priority over waiting teams.

### 7.1.3.3. Autocross Scoring

According to FS Rules D6.3.1

### 7.1.4. Endurance

### 7.1.4.1. Running Order

The Endurance Event running order will be established by the best Autocross Event lap time (without penalties) each team can accomplish. If a team is disqualified from the Autocross Event the best Autocross time will be taken into account to establish a running order with other disqualified teams. This does not apply if a team does not take part in the Autocross Event.

The Final Running order may vary from the above procedure if the officials see fit.

#### 7.1.4.2. Slot Arrival Time

Each team has to be ready and in queue for the Endurance Event 15 minutes before their designated time slot.

More details will be in the Event Handbook.

### 7.1.4.3. Out of Running Order

After the Running Order has finished, teams running out of order must be queued and waiting to start their runs. Failure to be in the queue will result in a DNA for that run.

### 7.1.4.4. Endurance Scoring

According to FS Rules D7.9

### 7.2. Dynamic Events Penalties

According to FS Rules D9

Some clarifications & changes may be on the event handbook

### 7.3. Drivers

### 7.3.1. Driver Eligibility

<u>Driver license:</u> Category B for EU countries or equivalent for non-EU citizens

Professional drivers with an active FIA license are not eligible to register as drivers in Formula IHU.

### 7.3.2. Number Of Drivers

Each team must register a minimum of four and a maximum of six drivers.

#### 7.3.3. Driver Runs

Event	Runs per Driver (max)	Number of Drivers (max)	
Skid Pad	4	4	
Acceleration	4	4	
Autocross	2	2	
Endurance	1	2	

Each driver has a maximum of (4) four total runs during the whole Formula IHU event.

Participation in the endurance event counts as 2 runs

#### 7.3.4. Driver Armband

Each Driver will be given four armbands, one for each possible run attempt. After each run, one armband will be removed (2 for the endurance event). Each driver will have their number from 1-6 written on all four of their armbands.

### 7.3.5. Driver Measurements

Each Driver will be measured both in height and weight and equipped with full racing gear. After each event, the officials may ask to re-evaluate those numbers. The acceptable deviation in weight and height is 5kg and 3cm respectively. At the time of the technical inspection, officials will request the tallest driver, identifying them by the number written on their armband.

# 8. Scoring and Awards

# 8.1. Total Points and Scoring System

Events	Points
Skid Pad	75
Acceleration	75
Autocross	100
Endurance	325
Efficiency	100
Engineering Design	150
Cost & Manufacturing	100
Business Plan	75
Total	1000

### 8.2. Awards Categories

### 8.2.1. CV Category Awards

- CV Overall Winners (1st, 2nd, 3rd)
- CV Overall Dynamics Winners (1st, 2nd, 3rd)
- CV Static Overall Winners (1st, 2nd, 3rd)
- Acceleration Winners (1st, 2nd, 3rd)
- Skidpad Winners (1st, 2nd, 3rd)
- Autocross Winners (1st, 2nd, 3rd)
- Endurance Winners (1st, 2nd, 3rd)
- Efficiency Winners (1st, 2nd, 3rd)
- Engineering Design Event Winners (1st, 2nd, 3rd)
- Cost & Manufacturing Winners (1st, 2nd, 3rd)
- Business Plan Presentation Winners (1st, 2nd, 3rd)
- Best CV Greek Team

### 8.2.2. EV Category Awards

- EV Overall Winners (1st, 2nd, 3rd)
- EV Overall Dynamics Winners (1st, 2nd, 3rd)
- EV Static Overall Winners (1st, 2nd, 3rd)
- Acceleration Winners (1st, 2nd, 3rd)
- Skidpad Winners (1st, 2nd, 3rd)
- Autocross Winners (1st, 2nd, 3rd)
- Endurance Winners (1st, 2nd, 3rd)
- Efficiency Winners (1st, 2nd, 3rd)
- Engineering Design Event Winners (1st, 2nd, 3rd)
- Cost & Manufacturing Winners (1st, 2nd, 3rd)
- Business Plan Presentation Winners (1st, 2nd, 3rd)
- Best EV Greek Team

### 8.2.3. Special Awards

- Best Social Media Team (1 Winner)
- Best Newcomer Team (1 Winner)
- Fastest Egress (1 Winner)
- Best Livery Design (1 Winner)
- Best Dressed Team (1 Winner)
- Flunky Ball Tournament Winners (1st, 2nd, 3rd)
- Most Steady Lap Time in Endurance (1 Winner)
- Coolest Radiator (1 Winner)