
Henkel
TEROSON
LOCTITE
FESTOOL
MATERIAL-PLASTIK
C3D
KNOTT
AUTOFLEX-GROUP
BIOTEK
29
ACPS AUTOMOTIVE

WHAT IS FORMULA STUDENT?

Formula Student

Engineering student teams design, develop and build a Formula-type racing car, with which they participate in international competitions

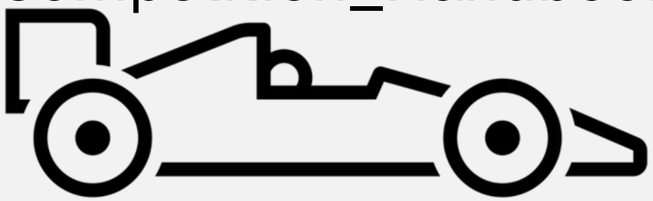
The Goal

Over the course of a one year competition season, train highly qualified university students proficient in engineering, organizational and management tasks.

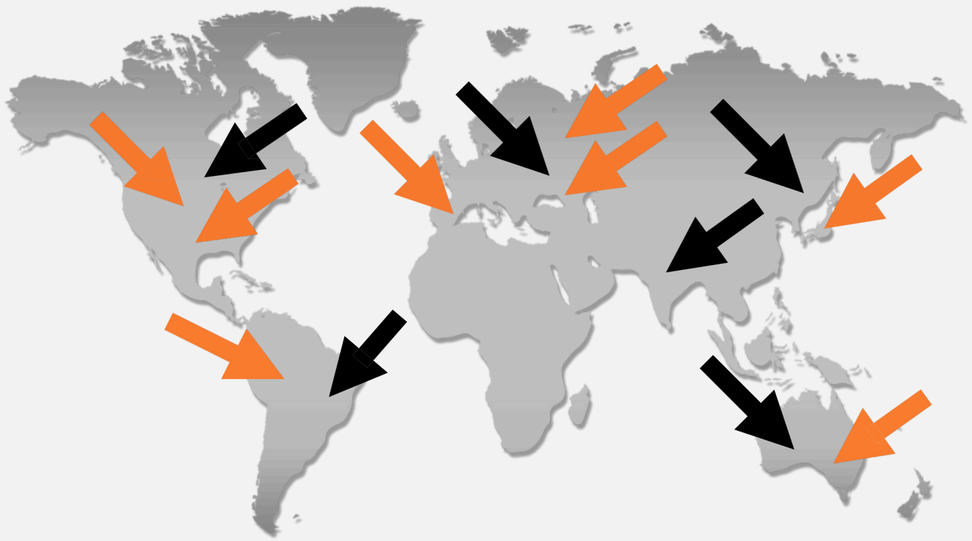
Rules and Handbook

I. Formula Student Rules 2025

II. FSEast_2025_ Competition_Handbook



How do we compete?



Categorys:

CV - Internal Combustion Engine Vehicle

EV - Electric Vehicle

DV - Driverless

End of January- Beginning of February:

QUIZ-DAY

STRUCTURE OF AN FS COMPETITION:STATIC EVENTS

Business Plan Presentation

An idea of how the racing car can best be integrated into a profitable business.

Cost and Manufacturing

Presenting the exact design and production costs of the current race car.

Engineering Design

Presentation of the racing car itself, its developments and design.

	BPP	C&M	ED
Maximum points	75	100	150

STRUCTURE OF AN FS COMPETITION: PRE-DYNAMIC EVENT INSPECTION

The car must pass several inspections before participating in the Dynamic Event.

PRE-INSPECTION

- Presentation of all helmets
- Presentation of all driver gear
- Presentation of two unused fire extinguishers
- Presentation of one set (4 pcs) of slick tires
- Presentation of one set (4 pcs) of rain tires

MECHANICAL SCRUTINEERING

Does the car comply with the competition regulations?

- **Presentation of various documents**
- **Presentation of various forms**
- **Jacks and push bar**
- **The tallest driver**

DYNAMICS SCRUTINEERING

- Driver Egress
- Brake Test
- Noise Test
- Tilt Test
- Vehicle Weighing

STRUCTURE OF AN FS COMPETITION: DYNAMIC EVENTS

Skidpad

The driver must drive the car in the shape of the number '8'. The first two laps are taken to the right, and the other two to the left (the first being the warm-up lap, and the second being the timed lap).

Endurance

The first driver must enter the driver change area after the first 11 km, where a driver change takes place. The second driver then continues and receives a signal to exit the track after the second 11 km.

Acceleration

The acceleration track is 75 meters long and at least 3 meters wide.

Autocross

A 1 km long track marked with cones must be completed in the shortest possible time.

Efficiency

The efficiency in terms of fuel consumption is monitored based on the distance covered during the Endurance event.

STRUCTURE OF AN FS COMPETITION: DYNAMIC EVENTS

	Skidpad	Acceleration	AutoX	Endurance+ Efficiency
Number of races	4	4	4	1
Number of drivers	2	2	2	2
Track length		75 m	1 km	22 km
Maximum score	50	50	100	250+75

Number of registered drivers:

Minimum of 4 drivers / team

”Wheel To Wheel”

STRUCTURE OF AN IDEAL FS SEASON

2024

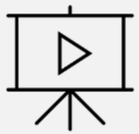
2025

September - December: design the new car

January: Start the procurement process.

End of January - Beginning of February

March: Everything in the workshop
Design Freeze event



May: Shakedown – the car rolls on its own power.

June: Tests
Rollout event

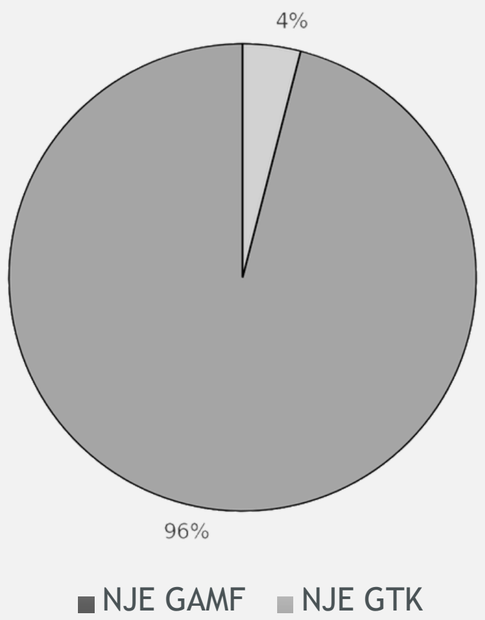
June - August: Formula Student competitions

NFS Team

Number of team members: 25 motivated students

Year of foundation: 2010

Our studies



NJE – GAMF: Vehicle Engineering– 68 %
Mechanical Engineering – 24 %
IT Engineering – 4 %

NJE - GTK:

Economics and Management -4 %

Our achievements

2021 – FS Russia
Engineering Design
II. Place

2021 – FS Easter
Business Plan Presentation
I. Place

2022 – FS Easter
Business Plan Presentation
III. Place

2024 - FS Poland
Overall
VIII. Place

OUR TEAM STRUCTURE

We organize our groups around the components of our car.

AERODYNAMICS

ELECTRONICS

PRODUCTION

POWERTRAIN

VEHICLE DYNAMICS

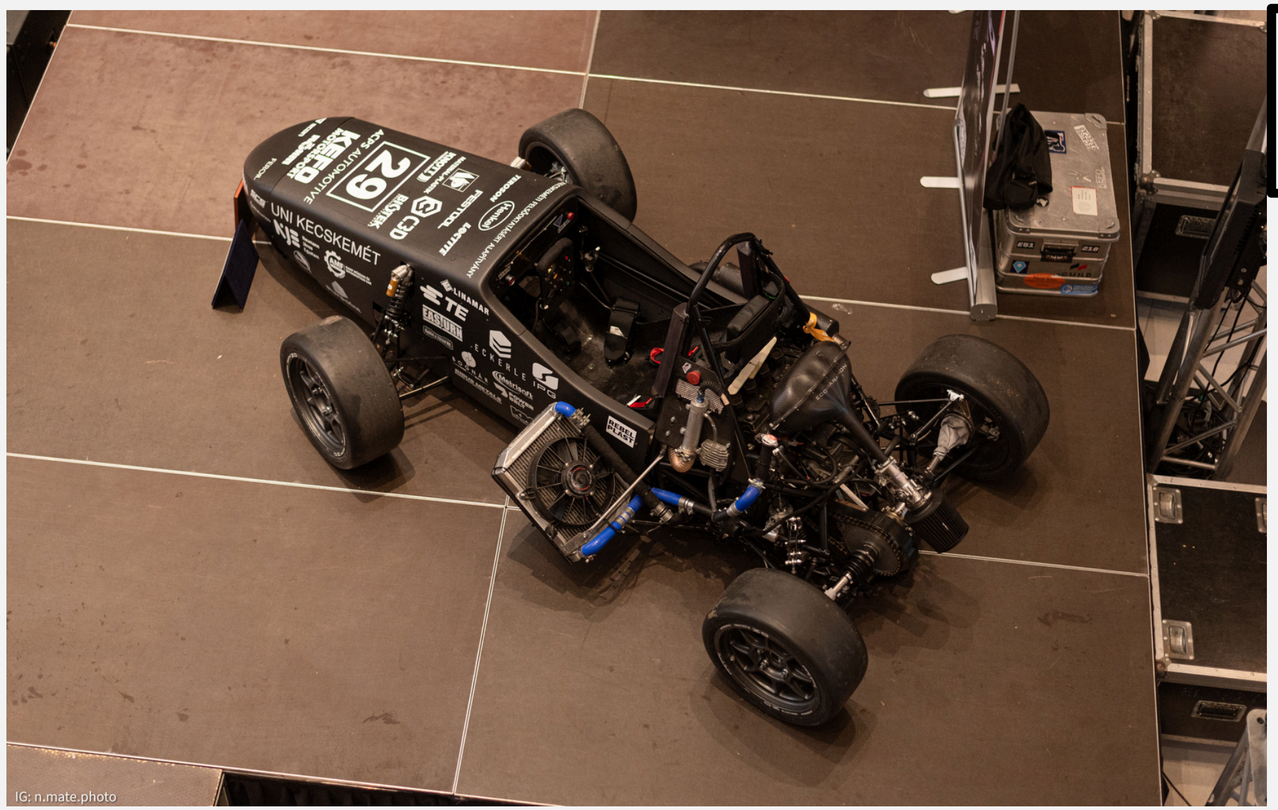
MANAGEMENT

CHASSIS

80%
Our design and manufacturing

KMS’25

20%
Purchased components



Chassis:
Lattice steel tube frame

Yamaha R6 (2004)
600 cm3, 100 hp,
60 Nm torque

Car weight: 240 kg
Top speed: 160 km/h
0-100 km/h: 3,5 mp

Tires: Continental C21
Wheels: OZ Formula Student Magnesium

Aerodynamics:
Geometry designed for low speeds, optimized for cornering.

THE KEY TO OUR SUCCESS

THE KEY TO OUR SUCCESS Beyond our dedication and knowledge.
our success lies in our SPONSORS, who support our work.

With financial support.

With product and service support.

With manufacturing support.

With intellectual support.

OUR SPONSOR CATEGORIES

PARTNER CATEGORIES
0-250.000 ft

BRONZE CATEGORIES
250.000-500.000 ft

SILVER CATEGORIES
500.000-750.000 ft

GOLD CATEGORIES
750.000-1.000.000

PLATINA CATEGORIES
1.000.000 ft -

OUR SERVICES

	PARTNER	BRONZE	SILVER	GOLD	PLATINUM
Website visibility	✓	✓	✓	✓	✓
Social media presence	✓	✓	✓	✓	✓
Placement of the company's logo on our roll-up	✓	✓	✓	✓	✓
Joint appearance at events	✓	✓	✓	✓	✓
Frequent collaboration with the companies	✓	✓	✓	✓	✓
Company logo on the back of our sponsor t-shirts		✓	✓	✓	✓
Small sticker on the rear wing		✓	✓	✓	✓
Highlighting joint events on our website			✓	✓	✓
Available job positions on our website			✓	✓	✓
Small sticker on the front or rear wing			✓	✓	✓
Medium-sized sticker on the side of the car				✓	✓
Large sticker on the side of the car					✓
Company logo on the front of our sponsor t-shirts					✓

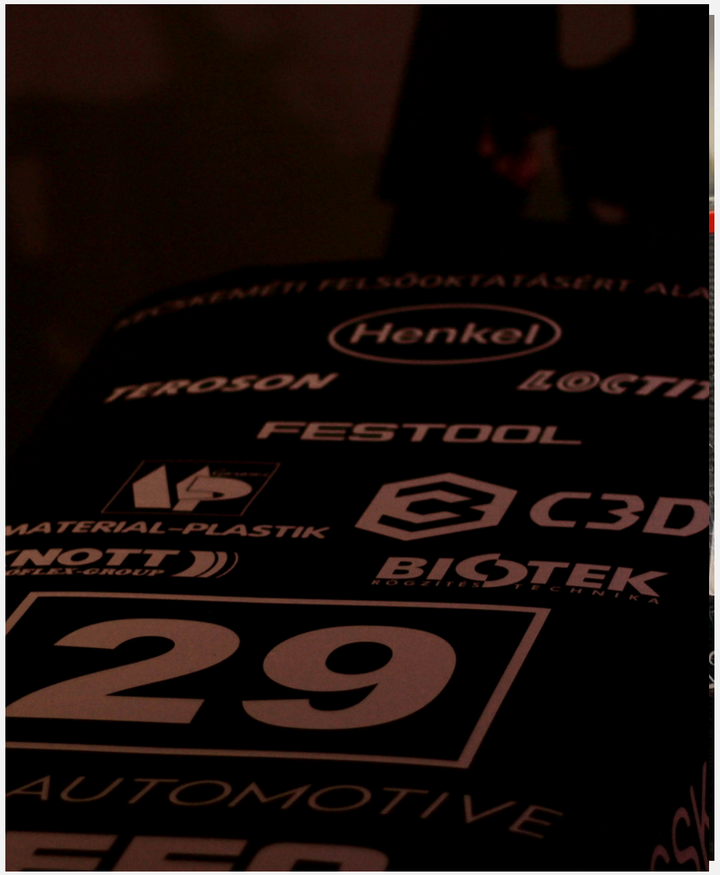
LONG-TERM GOALS

Transition primarily to hybrid, later to an electric powertrain.

Building a full monocoque chassis.

Achieving first place in the Hungarian FS field.

Achieving a place in the TOP 100 internationally.



SHORT-TERM GOALS

Building a completely new Formula Student race car from scratch.

Participation in at least 2 international competitions.

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”Together we are stronger!”

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