

Summer School INSA Hauts-de-France – ITS

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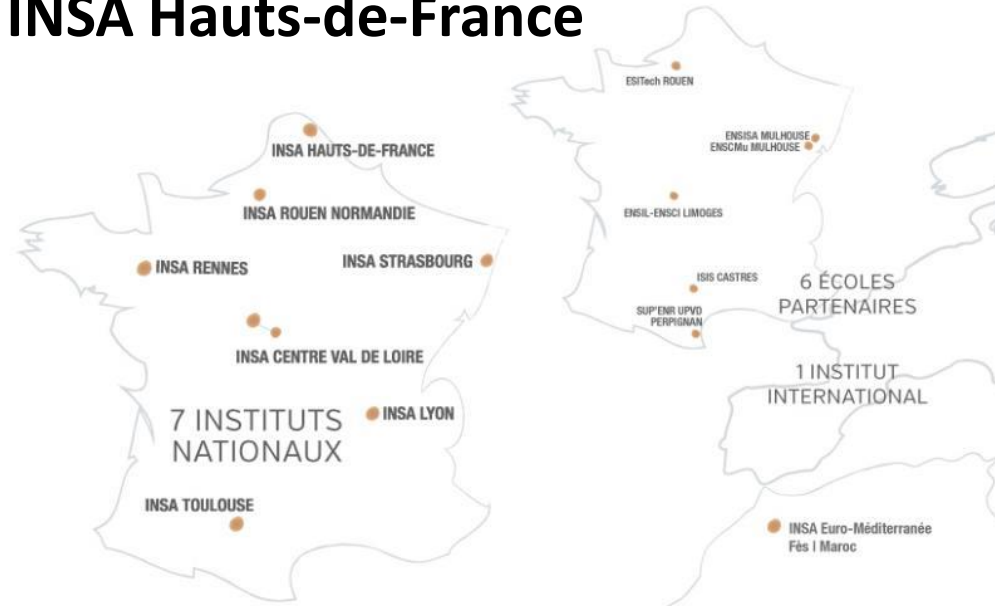
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1. Presentation of INSA Hauts-de-France

INSA Hauts-de-France is one of
the 7 Institutes of the INSA
group

and

one of the 3 Institutes of
Université Polytechnique
Hauts-de-France (UPHF)



INSA Group: 13 higher education institutions
7 INSA in France

+ 6 associated schools

22,179 students among them 35% of female

4,649 international students

INSA Hauts-de-France: key figures

- 4900 students,
- More than 300 faculty members,
- 65 technical and administrative staff,
- 13 Master degrees (24 mentions),
- 9 engineer degrees.

Nine Training sectors

- Mechanical, Energy and Transport Engineering,
- Civil Engineering and Domotics,
- Mechatronics, Electronics and Embedded Systems,
- Multimedia,
- Industrial Engineering, Quality, Health and Safety and E-logistics, Automation,
- Computer Science, Networks, Telecommunications and Cyber-security,
- Mathematics,
- Physics, Chemistry and Material science,
- Sport and Physical Activities.

Engineer training in twelve specialization fields:

Eight initial training fields :

- Mechatronics
- Mechanics and Energetics
- Electronics and Embedded systems
- Industrial Engineering
- Civil Engineering and Building
- Computer Science and Cyber security
- Industrial Automation
- Multimedia

Four apprentice training fields :

- Industrial Engineering
- Electrical Engineering and Industrial Computer Science
- Mechanical Engineering
- Computer Science

2. Presentation of the Summer School

General theme:

- **Transportation and mobility:** teaching and research fields at INSA Hauts-de-France and Université Polytechnique Hauts-de-France (UPHF).



2. Presentation of the Summer School

Organization:

- **Dates:** from June 26th to June 30th
- **Location:** INSA Hauts-de-France, Campus Le Mont Houy, Valenciennes, France
- Between 15 and 20 students
- **Planning:**
 - From Monday to Thursday:
 - Morning: Theoretical and applied courses
 - Afternoon: Visits (laboratories, companies)
 - Friday: presentation by the students (work in group) to obtain 2 credits



2. Presentation of the Summer School

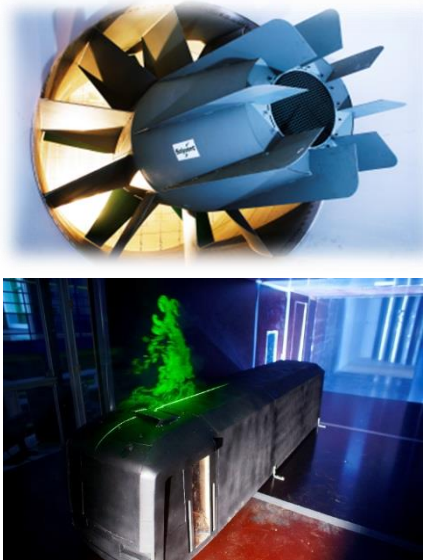
Provisional program (the date for every course and visit can change) :

Date	9:00-12:00	13:30-16:30
Monday, June 26th	Welcome Course 1: Electrical vehicles	Course 2: French culture Visit 1: Laboratory Welcome cocktail
Tuesday, June 27th	Course 3: Reinforced thermoplastics in transport Course 4: Human-computer interaction in transport	Visit 2: Company (to be confirmed)
Wednesday, June 28th	Course 5: Aerodynamics in transport Course 6: Safety in transport	Course 7: French culture Visit 3: City tour
Thursday, June 29th	Course 8: Alternative fuels Course 9: Thermal confort	Visit 4: Company (to be confirmed)
Friday, June 30th	Presentation by the students (30 min per group of 3 students)	Free time

Meet with local PhD students during the research laboratory visits

Visit of laboratory: examples of platforms

Wind tunnel



Internal combustion
and hybrid engines



Drive simulator



Hot air engines for micro-cogeneration



Autonomous vehicle



Crash and Impact tests



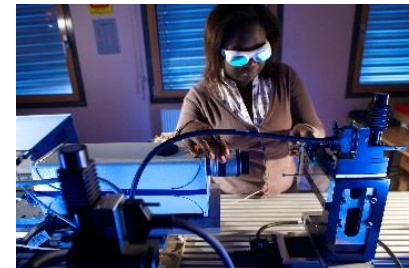
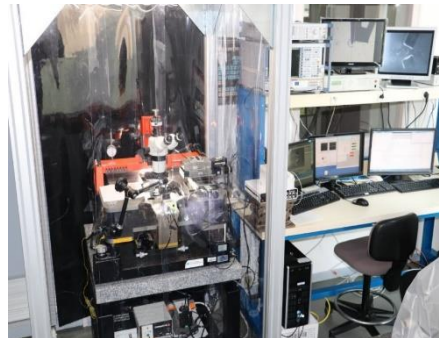
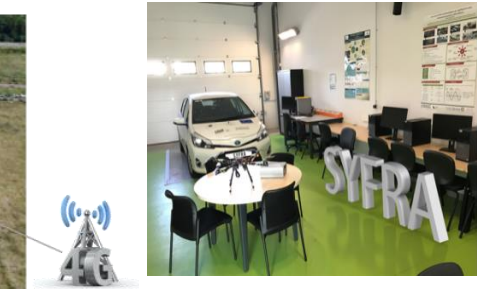
FabLab

Visit of laboratory: examples of platforms

SYFRA : SYstem For smart Road Applications



Syfra



- **Visit of companies (to be confirmed)**
 - Leading automotive and rail companies:
Alstom, Stellantis, Toyota
- **Visit of Valenciennes**



For the second week: possibility to stay in the same residence in Valenciennes and free visits of cities



Lille: 30 mn



Brussels: 1h00



Paris: 2h



3. Estimated budget for one student

- **Accommodation:** residence « Les Tertiales » in the city center
 - Services: elevator, individual shower, Wifi, individual kitchenette, laundry machines
 - **Price: 25€/night**
 - Possibility of staying in the same residence for the second week at the same cost
- **Total: 250 €/student**, including: accommodation, 5 lunches, tram tickets (between the residence and the University), city tour and company visits
- **Plane ticket (arrival: Brussels or Paris): to book quickly**



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