



The French Institute of Automotive & Transport Engineering

ISAT, located in Nevers (2 hours south from Paris & close to the famous Nevers/Magny Cours circuit) is a state-run institution covering the whole range of jobs and skills related to the automotive and transport industries, with a strong expertise in mechanical & electrical engineering and energetics from design to production (R & D, design & development, industrialisation, manufacturing, quality, purchasing, embedded electronics...)

- created in 1991, ISAT belongs to the University of Burgundy
- certified & accredited by the French education authority (CTI)
- Bachelor & Master course (scientific & technical ground subjects followed by specialization courses, social sciences & economics)
- ~ 800 alumni engineers already trained
- classes of 150 students (working groups of 15 to 30)
- ~ 45 tenured staff in teaching & research
- over 50 lecturers with an industrial background
- 8 000 m² site dedicated to teaching, research & student life
- 1 transfer of technology centre 'Magnytude'
- 1 research laboratory 'DRIVE'

ISAT is part of the Polytechnicum de Bourgogne/Franche Comté network together with 13 other engineering & business-oriented Grandes Ecoles*

* French prestige university-level college with competitive entrance.

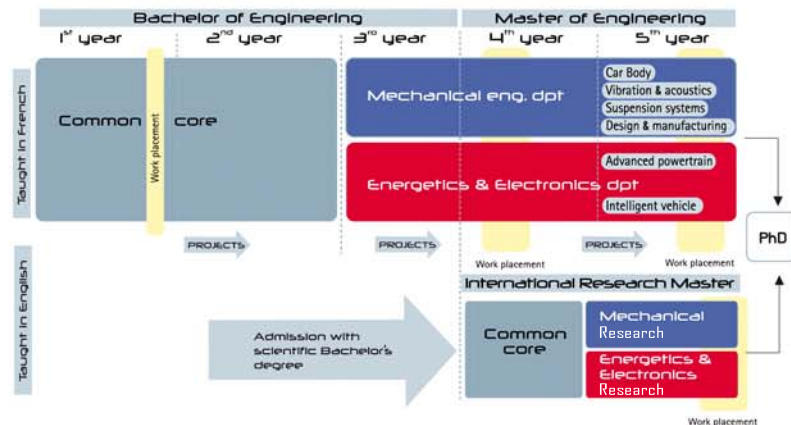
NEW COURSE: Master's degree in English

ISAT launches an international research Master's degree in Automotive Engineering and Sustainable Mobility. This two-year Masters degree totally taught in English aims at studying the whole dimension of a complex system such as an automobile, enhancing the aspects of Mechanical engineering, Energetics and Embedded Electronics, in the real context. It focuses on "Research & Development" and leads to further doctoral studies.

all details available on website

<http://www.isat.fr/fr/International/115>

Bachelor & Master Courses



- solid scientific & technical training (mathematics, physics, chemistry, IT, mechanical design & manufacturing, industrial production management...)
- cultural openness supported by economic contents, marketing, law, human resources, communication, sport, 2 compulsory foreign languages
- professional integration via in-situation job interviews, CV techniques, in-school career fairs...
- 3 work-placement periods totalling over 12 months
- hands-on experience in leading automotive technology & work in project groups throughout the Bachelor & Master course

COURSE IN FRENCH

- choice of 2 departments in the last 3 years:
 - 'Concept Car' (CC) focusing on mechanical engineering & design
 - EP2E geared towards energetics and the environment
- 5th-year specialisation contents:
 - Concept Car dpt: car body, vehicle design & manufacturing, suspension systems, vibration & acoustics
 - EP2E Energetics dpt: intelligent vehicle, advanced powertrain

COURSE IN ENGLISH

- choice of 2 options:
 - mechanical design
 - electrical design & energetics

How to enrol at ISAT ?

French applicants:

admission after selection by exam or application & interview within 1st, 2nd, 3rd or 4th year (all details available on website <http://www.isat.fr/fr/entrer-a-l-ISAT>)

Foreign applicants:

- on an individual basis (outside an exchange programme): entry into 1st, 2nd, 3rd & 4th year according to the student's academic level all details available on website http://www.isat.fr/fr/entrer-a-l-ISAT/Voie_Internationale
- within an exchange programme with one of our foreign partner-universities: entry into 2nd, 3rd, 4th or 5th year according to specific signed agreements all details available on website <http://www.isat.fr/fr/International/what-is-isat>



Discover the world of automotive competition

Throughout the Bachelor & Master courses, students participate in projects that can take various forms i.e. industrial, innovation, students' challenges such as the Formula Student, Shell Eco Marathon, Mini-Baja, Kart Low-Cost. Check for details on our website <http://www.isat.fr/fr/formation/projets-3a>

State-of-the-art equipment

6 experimental platforms with advanced technical equipment

- mechanical engineering & composite materials: scanning electron microscope, multi-axis mechanical testing machines
- vibration & acoustics: vibration / noise measuring chamber
- energetics: engine test beds, vehicle dynamometer
- information technology & electronics: NI acquisition hardware & software
- manufacturing processes: machining centre, CATIA workstation
- computer labs (Office, Internet, CAD, high-speed prototyping)

ISAT & Research

Following the Master's degree taught in French and in English, students can take a PhD degree in the 'DRIVE' (research department in vehicle engineering for the environment) research laboratory. The 'DRIVE' research laboratory has 4 themes:

- composite materials
- vibration & acoustics
- energetics
- embedded electronics

Among our research partners: Alstom Transport, Dupont de Nemours, EADS-Airbus, RATP, Faurecia, Eurocopter, Renault, CEA, Peugeot...

Transfer of technology centre

Magnytude was established in 2003 as a technological R & D centre aimed at the automotive & transportation sector. Due to its situation on the Nevers/Magny-Cours circuit surrounded by high-tech companies, Magnytude is an exceptional interface with the motor industry. Magnytude acts as a professional training pole where ISAT students can take courses and carry out industrial work placements.



ISAT goes global

ISAT has over 30 international partner-universities hosting our students worldwide: Spain, China, Malaysia, Sweden, Netherlands, Great Britain, Germany, Belgium, Romania, USA, Canada, Mexico...

<http://aldan.u-bourgogne.fr/moveon/moveonline/cooperations/search.php>
<http://www.isat.fr/fr/International/partir>

Employment

- gross average salary starts at 3 000 € per month in France
- rapid professional integration on the European market
- 70 % in the automotive branch & 15 % in other transportation fields
- 55 % in R & D or engineering design-related positions
- 25 % in production-related positions (manufacturing, industrial methods, quality, logistics)
- 10 % in sales engineering, purchasing, after-sales service
- 18 % work abroad

Student life

Student life is enhanced with an activities programme including a dozen associations: students' union, sporting activities, musical practice and concerts, humanitarian actions (4L Trophy, academic support), entertainment (Gala, career fairs), motor-sport challenges (Bol d'Or Classic, car rallies...)



ISAT

49 rue Mademoiselle Bourgeois,
BP 31 - 58027 NEVERS Cedex - FRANCE

How to contact us:

Tel.: +33 3 86 71 50 00

Fax: +33 3 86 71 50 18

communication_isat@u-bourgogne.fr

www.isat.fr

ISAT
Institut Supérieur de l'Automobile et des Transports