

Bien établir son contrat d'étude
How to establish properly one's learning agreement

Description of the SGM (Material science and engineering) department

The SGM department is an interdisciplinary department which aims at teaching the materials science as well as their use in various domains (engineering).

The department interdisciplinary teaching appears through the numerous categories of studied materials, spanning from the metals and their alloys to the organic materials (polymers...) through the semiconductors.

The interdisciplinary nature of the department is also visible in the diversity of businesses to which the engineer students are prepared: jobs related to the elaboration and synthesis (metallurgy, synthesis chemistry...) as well as to their design and molding and behavior in service (fatigue, corrosion...).

Eventually, the teaching program is interdisciplinary in the application domains targeted. Those span from the technologies of information and communication (micro-nanoelectronics, opto-electronics) to structural materials (building coatings and materials) or to materials for the transport industry (automobile, aeronautics...) or even to the biotechnologies (biocompatible materials).

Structure of the teaching program

The teaching program at the SGM department is decomposed in three years. The first two years are dedicated to basic teaching modules. The modules consist of lectures (in French) and exercise sessions called TD (tutorials in 3 groups of about 25 students). Two TD groups are taught in French and the third one in English. Backing these modules, some practicals are planned (lab work of 3h in group of 3 students). The practicals are taught in French for the students from the TD French groups and in English for the students of the mast group.

The last year of the department consists of lectures without TD. Some practicals (TP) or final research projects (PFE) are proposed in french or english. The PFE are lab works under the supervision of a professor on industrial. They take place a day per week at the beginning of the autumn semester and next occupy several days per week till the end of March. The spring semester (5 months) is devoted to the industrial (or lab) internship.

It is worth noticing that the last year is structured in 3 distinct platforms: MSD (structural materials), PPF (polymer and formulation), SCM (semiconductors and microsystems). Each platforms proposes and manages its own PFE and TP.

How to constitute the Learning Agreement (LA):

The complete teaching offer of the SGM department is available at :

<https://exchange-student.insa-lyon.fr/>

Select the language and Science et Génie des Matériaux.

The exchange students are allowed to choose courses from the three years of the program in the department. The main constraint is to avoid timetable conflicts between courses from different years. For this purpose, it is necessary to consult the course timetable from the department.

Attention: the course GEMA (management) is shown as a 1st or 2nd semester course while it is actually a full year course which is available ONLY to students staying the WHOLE year at the INSA.

The exchange students are allowed to choose 1 or 2 courses from other departments or master programs. Here again, the main constraint limiting the choice is to avoid timetable conflicts between

courses from other departments and those selected among the SGM offer. For this purpose, it is necessary to consult the course timetable from the other departments by contacting directly the concerned secretaries.

One last important point: as mentioned, the last year is structured in three distinct platforms. Hence their respective lectures can take place at the same time. The same timetable constraint applies here as it does with courses from different years or departments.

In conclusion, since a large choice of courses is proposed, one has to be very careful about the possible timetable conflicts and one ought to take a deep look at the timetables of interest.

In case you need some help or details, feel free to contact the professor in charge on the exchange students at the SGM department:

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