

Scientific spirit and approach are needed. It is beneficial but not essential that students have followed in « 2nde »:

CIT : "Création et Innovation Technologique »
 Or MPS : « Méthodes et Pratiques Scientifiques »
 Or SI : « Sciences de l'Ingénieur »

Equipment of E-S laboratory

- ☞ 26 computers connected to ADSL network
- ☞ CAD softwares, PLC programming softwares, electronical CAS and CAD softwares, electrotechnical CAS and CAD softwares, microcontrollers.
- ☞ Multi-technical systems: Robot, electrical pruning shears, electrical golf trolley, automatic portal and automatic door, automated marking press, network barrier system, etc...)
- ☞ Professional measuring equipment (Labview).

Post high school studies

« baccalauréat » S-En.Sc allows to continue various studies:

Long studies : « *classes préparatoires aux grandes écoles, écoles d'ingénieurs avec prépa intégrée (INSA, ISAT etc. ...), université* »

Short studies : « *Institut Universitaire de Technologie, Sections de Technicien Supérieur, ...* »

In the last 5 years, the average distribution in post high school studies has been:

17% at the university, 41% at the « IUT » et 42% in « classes préparatoires » and « écoles d'ingénieurs ».

Success rates in S - En.Sc

2012	2011	2010
95%	95%	97%

Contacts

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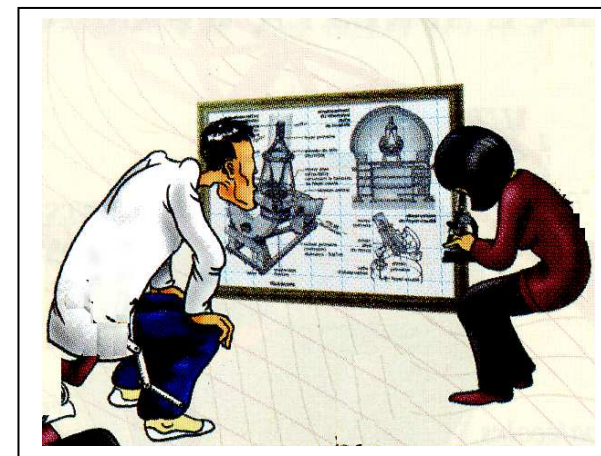
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Baccalauréat
 Général
 Série Scientifique



En-Sc
Engineering
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PRESENTATION OF THE TRAINING

An engineer has received a scientific training to solve complex problems. He designs, realizes and implements products, systems or services. He also leads teams to complete projects. In addition to technical and scientific knowledge, he must have social, economic and human knowledge.



He can work in several fields :

- automobile, rail, aviation, lifting materials...
- food processing, chemistry, pharmaceutical laboratories,...
- oil, nuclear power, renewable energies...
- civil engineering, building,...
- telecommunications, robotics, medical equipment,

PROGRAMS AND SCHEDULES :

	« Première »	« Terminale »	coef
French	4h		4
Philosophy		3h	3
History-géography	4h	2h*	3
LV1 et LV2	4.5h	4h	3
ECJS	0.5h	0.5h	
Mathematics	4h	6h+2h*	7+2*
Physics chemistry	3h	5h+2h*	6+2*
ES	7h	8h	8
			written/15 & project/5
Sports	2h	2h	2
Coaching	2h	2h	
TPE/PPE	1h	2h	2

* For the candidates who have chosen a teaching of speciality (not compulsory).

ENGINEERING LESSONS CONTENTS

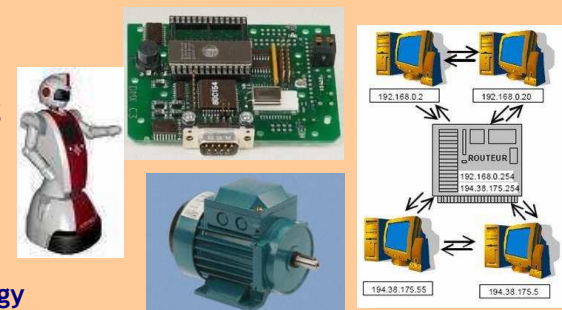
In each field (automotive, railway...) the engineer has to implement his knowledge in :

☞ Electronics

☞ Electrical Engineering

☞ Automatism

☞ Information Technology

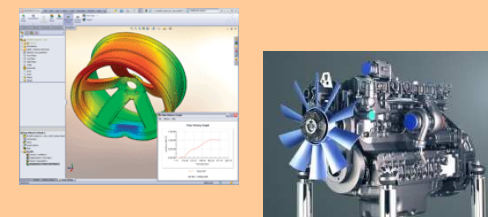


That's why these topics are treated in a week,

- ☞ by 1 h of lesson (class)
- ☞ and 2 h of « TP » (Practical work) (group)

☞ Mechanics

☞ Mechanical Engineering



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- ☞ by 1 h of lesson (class)
- ☞ and 2 h of « TP » (Practical work) (group)

The using of softwares is privileged (microprocessors programming, CAD, Programmable Logic controller...)

An engineer, with the complexity of the problems to be solved, never works alone. This capacity to work in a team is developed during:

☞ The « TPE » (« Les Travaux Personnels Encadrés ») in « 1° »
(1h /week)

☞ The « Project » (« Projets Interdisciplinaires ») in « Tle »
(70h/year)