

# Science Semester in English open to Foreign Cadets : 458 h – 30 ECTS

## Course module with the Geopolitics Semester cadets 28 h – 2 ECTS

Tactical and Historical Studies  
12h  
1 ECTS

French defence policy  
16 h  
1 ECTS

Course module  
with the  
Geopolitics  
Semester cadets  
60 h – 4 ECTS

The images  
of war  
22 h  
2 ECTS

Terrorism in Africa  
22 h  
2 ECTS

Visit to Normandy  
16 h  
0 ECTS

## SPECIFIC CLASSES IN ENGLISH 270 h – 21 ECTS

Logic, proofs, programming 110h - 8 ECTS

Introduction to  
mathematical  
logic and  
lambda calculus  
40 h  
3 ECTS

Functional  
Progr, Language  
theory  
50 h  
3 ECTS

Algorithms  
and  
Programming C  
20 h  
2 ECTS

Randomness, information, computation 72 h - 6 ECTS

Probability  
Theory  
32 h  
2 ECTS

Information  
theory  
20 h  
2 ECTS

An introduction  
to quantum  
computing  
20 h  
2 ECTS

Cryptology: Theory and Practice 88 h - 7 ECTS

A short  
introduction  
to algebra  
20 h – 2 ECTS

Proofs of  
Security  
20 h – 2 ECTS

Design,  
security of  
cryptographic  
algorithms,  
cryptanalysis  
20 h – 2 ECTS

Complexity  
8 h - 0 ECTS

Computational  
number  
theory and  
public key  
cryptography  
20 h – 1 ECTS

## Foreign cadets only - 100 h - 3 ECTS

French language  
44 h - 3 ECTS

Mathematics tutarate  
16 h - 0 ECTS

Various Presentations  
2 h

Personal Work  
38 h