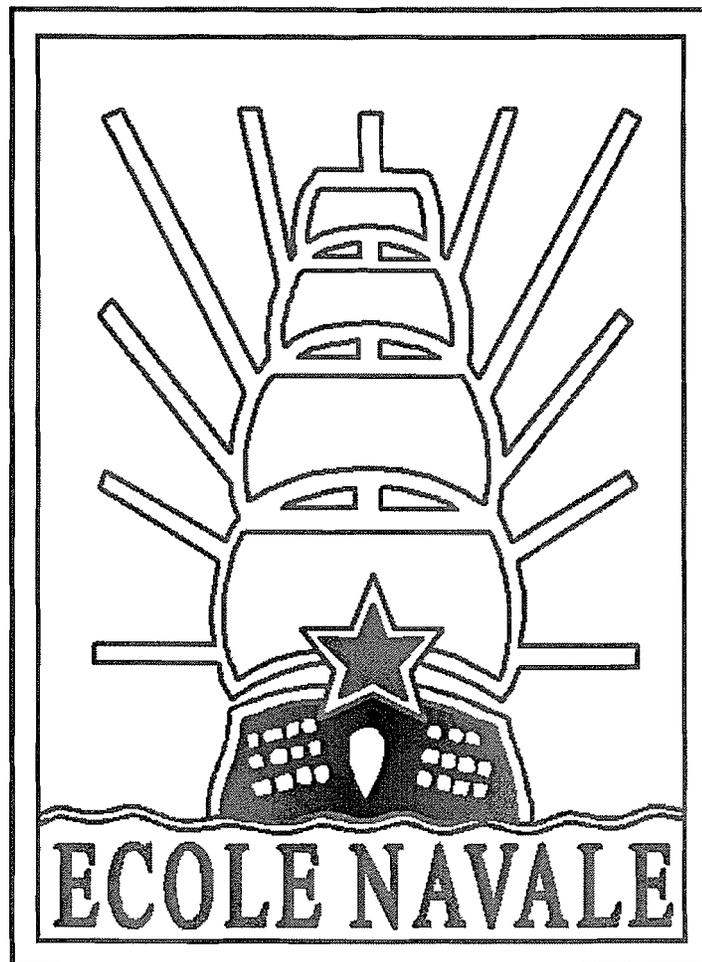


ECOLE NAVALE

EDUCATION DEPARTMENT

FIFTH SEMESTER

**TRAINING TO INTERNATIONAL RELATIONS
FINAL SCIENTIFIC STUDIES PROJECT**



HISTORICAL REVIEW OF THE DOCUMENT

Edition	Date	References	Evolutions	Performed by
1	01/10/05		First edition	

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INTRODUCTION

The objectives of semester 5 are as follows:

1. **SHORT-LISTING FOR AERONAUTICS AND DIVING**

During S5, a period is dedicated to the short-listing of cadets for the specialities of pilot in aeronautics and clearance diver.

Pre-selections of special warfare officers are organised during semester 7.

2. **SCIENTIFIC FINAL PROJECT**

Scientific final projects conclude the scientific training cycle which began at semester 2. They are 11 weeks long.

3. **INTRODUCTION TO INTERNATIONAL RELATIONS**

This semester initiates the training cycle of officer cadets in the field of international relations whose study goes on until semester 6. Its aim is to make cadets discover the different aspects of the world in which they are going to lead their operational action. This module is completed by courses on maritime geography, international sea law and an introduction to international economic problems.

4. **TRAINING PERIOD FOR DISCOVERING THE CIVILIAN MARITIME WORLD**

Officer cadets perform a training period so as to open up on the civilian maritime world and to observe the different management methods.

5. **MEN COMMAND AND ADMINISTRATION OF THE PERSONNEL IN THE NAVY**

Thought on the role of the officer and command which was initiated at the beginning of the schooling goes on until semesters 5 and 6 with the leadership practical exercise. It is developed in concrete terms with a few basic techniques for the personnel management and is completed by a knowledge of rules linked with administration and employment of the personnel. A seminar is shared with the cadets from HEC (grande école for management and business studies) so as to reflect on leadership.

The general architecture of the semester is indicated below. It takes into account planning constraints linked with the different training period for short-listing of specialities:

S35	S36	S37	S38	S39	S40	S41	S42	S43	S44	S45	S46	S47	S48	S49	S50	S51	S52	S01	S02	S03	S04	S05	S06
Training period for discovering the civilian maritime world				Final studies project											LEAVES		C E 1 1		P r e s e n t a				
Aeronautics short-listing		LEAVES		Final studies project											LEAVES		p r e s e n t a t i o n		C E 1 2				
Aeronautics short-listing				Final studies project											Training period for discovering the civilian maritime world		Divers short-listing						

TRAINING PROGRAMME OF THE SEMESTER

	Subject	HO	HNO	Coeff.	ECTS
FMM	Corvette	35	24	9	/
FMI	Final studies project	350		18	35
	Oral presentation	35			
FHM	Communication techniques	8			10
	International relations / geopolitics	20			
	Economy	22		2	
	Management – Human resources	20			
	Geography	18		*	
	LV2 / English	10			
	Short-listing / Training period for discovering the civilian maritime world	175			
	<i>Land</i> leadership exercise (Barracuda)			6	
	Sport by squad	8			
	Sport option	12	8		
Admiral cross-country running					
Other	Study	13			/
	Suppleness	9			
	TOTAL	735	32	35	45

* joint test with the one dealing with sea law at semester 6

Nota bene: Coloured modules are also part of the professional master syllabus.

Title I: SEAMAN TRAINING

1. OBJECTIVES

The objectives of this training is to keep up and strengthen the learning that was acquired in the previous semesters.

2. CORVETTE

Cadets carry out a corvette of one week at sea. They perform at least **8** hours of watch-keeping in F1 (function one: officer of the watch in pairs).

General objectives for this corvette are:

- navigation /manoeuvre: acquisition of coastal and ocean navigation – tactics – manoeuvre;
- ship : auxiliary elements (study for the installation of cold production).

An official order paper provides the level of the cadets and details the objectives they have to reach for the next corvette.

Title II: HUMAN AND MILITARY TRAINING

This training is composed of the following modules:

- practical training to leadership;
- men command and administration of the personnel in the navy;
- sport;
- training period for discovering the maritime world;
- expression and communication techniques;
- international relations and geopolitics;
- maritime geography and international law of the sea;
- introduction to economic matters.

PRATICAL TRAINING TO LEADERSHIP

Ensigns (*enseignes de vaisseau de 2^{ème} classe*) are an example for the cadets, in terms of military behaviour. They take part as often as possible in the supervision of cadets, especially for the muscular awakening sessions in the morning.

They develop their thought on command and action at the head of a group, thanks to interviews with the officer responsible for their courses and also with the other officers of the academy.

Supervision missions and interview sessions with the officer responsible for their class take place on order and on personal initiative.

PRACTICE OF LANGUAGES: ENGLISH OR SECOND MODERN LANGUAGE

1. OBJECTIVES

To gain autonomy, ease and correction in the practice of the language;

To prepare the CML2 for those who did not obtain it yet;

For those who already passed the English CML2, the objective is to improve their skills in the practice of a second modern language.

2. INITIAL PROGRAMME

Courses dedicated to the teaching of languages represent 10 UI whatever the language which is taught. It represents 2 UI per week of presence at school.

2.1. **English**

Cadets who go on with the English courses are those who did not get yet the English CML2. Main subjects of English courses are the following ones:

- written expression;
- oral expression and oral presentations;
- written and oral comprehension;
- phonology;
- grammar.

2.2. **Second modern language**

Cadets who already own the English can either begin a new modern language or carry on with one they already began to study. They have the choice between the following ones:

- German, non beginner;
- Spanish, non beginner;
- Russian, non beginner.

At the beginning of the semester, a test is put in place to check the level of the cadets who registered at German, Spanish and Russian courses.

PHYSICAL EDUCATION

This semester is characterized by an **intensified physical and sport training** by group (8UI). It is also composed of a physical education by sport option (20 UI including 8 in HNO).

1. OBJECTIVES

To develop physical capacities and especially endurance.

To develop motor skills that are specific to sport and physical activities that are chosen.

To acquire a certain level of practice in a physical and sport activity through the teaching by sport option.

To prepare the *T.S.G.E.D.*

To prepare competitions that are organised by the French federation for academic sport and also take part in them.

2. INITIAL PROGRAMME

2.1. Teaching by group

8 teaching units are dedicated to muscular strengthening.

2.2. Teaching by sport option

Cadets have to keep the sport option they attended the year before.

- Team physical and sport activities: football, rugby, handball, volley-ball, basketball, sailing;
- Individual physical and sport activities: athletics, cross-country running, orienteering, horse riding, fencing, swimming, badminton, tennis, judo/karate.

HO/HNO teaching	Number of teaching units
Tuesday HNO	8
Thursday HO	12

**MEN COMMAND AND ADMINISTRATION OF THE
PERSONNEL IN THE NAVY (FIRST PART)**

1. OBJECTIVES

To become initiated into a few management techniques so as to:

- command men in a changing environment: on land and at sea, in peacetime or in times of crisis;
- be able to conduct an efficient action;
- to favour the motivation and cohesion of one's crew, at hierarchic levels;
- to familiarize oneself with transfers of power and posts takeover;
- to grasp one's own way functioning and the ones of main speakers.

2. DETAILED PROGRAMME

Code: MANAG	TYPE	UI	Subject	Observations
1C	Course	1	Introduction to management	
2C	Course	1	To know oneself: To discover the kind of relationships one has with the others and be able to adapt it according to people and situations Individual tests	
3P	Tutorial	2	Individual interviews management: To be able to lead professional interviews (embarking, objectives setting-up, assessment / marking, reproofs / redirecting) Methods and practical cases	1 teacher from the Political and social sciences department 2 external speakers LVE
4P	Tutorial	2	Meetings management: To be able to use the meeting as a communication tool and master bases for chairing a group. (Methods and practical cases) Transfers of power and posts takeover: method	
6P	Tutorial	2	Management in situation: To know how to motivate one's team (information, objective, leaders, deadlines) and manage malfunctioning (skills, conflicts, problems). Methods and practical cases	
7P	Tutorial	2	Management in situation : the organisational context: To identify the different types of organisations and circumstances and accordingly adapt one's management. Methods and practical cases	
8P	Tutorial	2	Introduction to management control and quality in the navy as command tools. Methods and examples	
9C	Course	4	Seminar on men management and conduct with the students from HEC ENTREPRENEURS Conference on specific features of men conduct in the French navy. Conference on different management levels in the civilian world.	Class
10P	Tutorial	3	Seminar on men management and conduct with the students from HEC. Practical cases	By half-watches
TOTAL		19		

Courses are given by class, tutorials by groups of 12 or 25 cadets.

Assessment is carried out at semester 6 and is shared with the second part of the module "men command and administration of the personnel in the navy".

INTERNATIONAL RELATIONS AND GEOPOLITICS

1. GENERAL MATTERS

The module dedicated to international relations is based on 46 teaching units and is composed of two sections:

- courses and conferences (24 UI);
- tutorials (11 sessions of 2 UI = 22 UI).

Nota bene: The teaching given for this subject is shared out between semesters 5 and 6. It corresponds to about 23 teaching units of courses and tutorials during each semester.

The assessment of this module is carried out during the 6th semester and deals with all the aspects developed during these two semesters.

2. GENERAL COURSES AND CONFERENCES

2.1. Objectives

- To present the programme for semesters 5 and 6 as well as the different subjects that are linked with this module (maritime geography, international sea law, economy).
- To provide basic knowledge in the field of international relations and geopolitics.
- To organize meetings between cadets from the academy and external high-level specialists.
- To root and strengthen learning issuing from projects on global and regional matters.

2.2. Detailed programme

Conferences and tutorials themes change each year according to current developments.

Code: GEOP	Type	UI	Subject	Speakers
1C	Course	2	General introduction to international relations and geopolitics	External speaker
2C	Course	2	American superpower and evolution of Atlantic relations	
3C	Course	2	The new composition of Europe	
4C	Course	1	Terrorist threats in the world since September, 11th - to set up a map of main terrorist focuses in the world	Social and political sciences teacher
6C	Course	1	Massive destroying weapons: proliferation, spreading, etc.... - to define the possibility of new weapons; to think about the relevance of a military use of nuclear power in a multi-polar world.	
8C	Course	1	Crisis of the State in Africa - to make a fundamental distinction between state and ethnic group - to learn key figures concerning commercial and maritime aspects of these conflicts	
10C	Course	1	Russia geostrategy (I) - to find out stakes of oil and gas - to distinguish relations between EU, Russia and countries along the Black Sea	
12C	Course	1	Russia geostrategy (2)	
14C	Course	1	Pacific Asia between China and Japan - to study a space with a high economic growth but shared between two regional naval powers	

16C	Course	1	Southeast Asia between economic growth and political gradual decline - to understand main factors that make a foreign region become similar to Western countries	
18C	Course	1	Central America and South America, essential crossroads for trade globalization - to remind and define special links between France and Caribbean region as well as Central America - to define main trade exchanges in the region (legal and illegal)	
20C	Course	1	Arabian-Israeli conflicts and their consequences in the Near East - to remind and define main influence areas of large monotheist religions - o make a distinction between the different hypotheses concerning the region reshaping	
24C	Conference	2	Conferences themes are set each year according to current developments , publications and available speakers	External speakers (including a teacher from Strategic studies at BRNC)
25C	Conference	2		
26C	Conference	2		
27D	Test	2	Assessment*	Social and political sciences teacher
28C		1	Test marking	
TOTAL		24		

*assessment is carried out at semester 6 and deals with the whole module (shared out on semesters 5 and 6).

NB. 1: As far as possible, the course on a given theme and the tutorial which develops this theme are at least seven days apart.

NB. 2: The programme indicated above gathers all courses of the module for semesters 5 and 6. The part of the courses that are given at semester 5 is defined each year according to planning constraints and the availability of the speakers.

3. TUTORIALS

3.1. Objectives

- To grasp the current international context from different points of view (juridical, historical, economic, demographic, religious and geopolitical).
- To place the important international stakes of the current world.
- To understand and analyse balance of power on the international scene.
- To put forward one's opinion and discuss a topic linked with international relations.
- To be able to develop an elaborate thought on international strategic matters.

3.2. Detailed programme

Tutorial sessions take place by groups of 13 cadets (organization by watch). Those and conferences are at least seven days apart.

Tutorial team: SPS teachers, economy teacher and teachers from the Human and Military Training Department.

CODE: GEOP	Type	UI	Subject
5P	T.D	2	American superpower and evolution of Atlantic relations
7P	TD	2	The new composition of Europe
9P	T.D	2	Terrorist threats in the world since September, 11 th
11P	T.D	2	Massive destroying weapons: proliferation, spreading, etc....
13P	Course + Tutorial	2	Crisis of the State in Africa
15P	Course +Tutorial	2	Russia geostrategy
17P	Course +Tutorial	2	Turkey and European building process
19P	T.D	2	Pacific Asia between China and Japan
21P	T.D	2	Southeast Asia between economic growth and political gradual decline
22P	T.D	2	L'Amérique centrale et l'Amérique du sud, carrefours essentiels de la mondialisation du commerce
23P	T.D	2	Arabian-Israeli conflicts and their consequences in the Near East
TOTAL		22	

NB.: The programme indicated above concerns all tutorials of the module for semesters 5 and 6. Those that are carried out during semester 5 are defined each year according to planning constraints and the availability of the speakers.

INTRODUCTION TO ECONOMIC MATTERS

1. OBJECTIVES

To acquire a few bases in economy so as to understand the evolutions of the economic context and stakes in the world:

- To understand in broad outline the main mechanisms of the market economy and also the main levers of the economic policy;
- To be aware of main global economic matters;
- To complete and deepen, through economy, topics that are addressed in the field of international relations and geopolitics.

2. PEDAGOGICAL PLAN

All these courses are generally given by squad and correspond to a total amount of 18 UI (9 sessions of 2 UI). Assessment corresponds to 1 UI ; another one is planned for the marking. A maximum of two sessions is organised each week. If courses and assessment cannot take place during semester 5, because of the cadets' timetable, a part of the programme dedicated to economy will be given in S6. Hours that are postponed can be used in S5 for international relations, maritime geography, international sea law or the management of men in the navy.

3. INITIAL PROGRAMME

CODE: ECO	Themes	UI	Speaker
1C	Foundations of the economic knowledge Economic functions	2	Economy teacher
2C	Balances and imbalances of the economic activity: market and price setting	2	
3C	Balances and imbalances of the economic activity: job market, employment, unemployment	2	
4C	The regulation of the economic activity The intervention of the State Economic policies	2	
5C	International economic relations: international exchanges foundations	2	
6C	International economic relations: international trade and raw materials market	2	
7C	Global economy: the European Union	2	
8C	Global economy: international financial and monetary orders and disorders	2	
9C	Global economy: heterogeneity of the global economy	2	
10D	Assessment: written test, whole class	1	
11C	Test marking: whole class	1	
TOTAL		20	

MARITIME GEOGRAPHY

1. OBJECTIVES

- To have a global view of spaces in which large navies lead their action;
- To understand the importance of oceans and seas in the geopolitics of the modern world;
- To determine major maritime stakes;
- To forecast future evolutions of the maritime world.

2. PEDAGOGICAL PLAN

Two courses of 2 teaching units taking place in lecture halls, during two successive half-days at the end of the week. Written test shared with the course related to international law of the sea in S6.

If all courses cannot take place in S5, because of the cadets' schedule, a part of the maritime geography programme will be provided in S6. Hours that are postponed this way, can be used in S5 for international relations, international law of the sea as well as command and administration of the personnel in the navy.

3. INITIAL PROGRAMME

Code: GEO	Subject	Speaker	UI
1	The world of today: is there a naval point of view?	Geography teacher	2
2	The oceanic expanding, overall tectonic driving force		1
3	Geography of maritime resources		1
4	Great oceanic phenomena		1
5	Routes challenge		1
6	<u>Le défi des seuils</u>		1
7	Machines challenge		1
8	Maritime borders challenge (linked with the international law of the sea)		1
9	The Atlantic		2
10	The Pacific		2
11	The Mediterranean sea		2
12	Test on a chart (15 minutes) and then the Indian Ocean		3
13	Written test*		/
TOTAL			18

*The assessment of this module is shared with the one dedicated to international law of the sea, which is carried out at semester 6.

EXPRESSION AND COMMUNICATION TECHNIQUES

MEDIA AND COMMUNICATION WITH THE PRESS

1. GÉNÉRAL MATTERS

This last module dedicated to expression and communication techniques (15 UI) is shared out between semesters 5 and 6 (respectively 8 and 7 UI). **It concerns all the cadets who did not take part in the training period for discovering the civilian maritime world.**

Training objectives for this semester are as follows:

- to know how communication within the French navy is organised;
- to approach relations with the different press organisations;
- to be able to write a simple article as well as a press pack;
- to become initiated to the interview technique.

Assessment takes place at S6.

2. PEDAGOGICAL PLAN

As far as possible, this expression/communication programme is planned at the same time for cadets who work on the activities following the training period (DMMC 2C, DMMC 3D et DMMC 4 D) .

3. DETAILED PROGRAMME

Code: COMM	Course	Concerned teachers and cadets	Duration
1 C	Conference made by the officer in charge of regional communication or by the commander of <i>SIRPA MER</i> (Department for information and public relations of the navy).	All cadets who did not take part in the training period for discovering the civilian maritime world.	2
2 P	Presentation of the communication/media module. Preparation of practical cases: theoretical work on communication strategy, «language elements», methods for writing a press pack and advice for a TV interview.	All cadets who did not take part in the training period for discovering the civilian maritime world. Sharing out by third	3
3 P	1 st filmed interview of each cadet on a given situation.	Team work/3 teachers: 2 from the Naval supply officers school and one from the Communication department of the academy	3
TOTAL			8

TRAINING PERIOD FOR DISCOVERING THE CIVILIAN MARITIME WORLD

I. OBJECTIVES

The training period for discovering the civilian maritime world has a threefold objective:

- To give cadets the opportunity to meet other professionals from the maritime world, to better know them and share their current concerns;
- To enable them to assist the daily action of a decision-maker so as to observe and then put into practice management and work organisation techniques;
- To write an article on a current maritime topic to be published in the studies report of the navy and aimed at general public. Full of information, illustrated by photos, charts and vivid statistic tables, this document represents an important personal work of investigation, of synthesis, popularization and communication.

Nota bene: some cadets won't be able to perform this discovery training period because of pre-selection training courses. As far as these cadets are concerned, the training period and assessment are replaced by the module of « media training » in the field of expression and communication techniques.

2. INITIAL PROGRAMME

The training period for discovering the civilian maritime world is five weeks long. It takes place by organisations that are linked with the civilian maritime world, in France, in overseas départements and regions or abroad: commercial or fishing commissioning, ports, shipyards, administrations intervening at sea, chambers of commerce and industry, prefectures of littoral départements, French embassies in large maritime countries.

Cadets are placed by the school (according to their skills and also wishes if possible) in the different organisations that have accepted to receive trainees. The cadet must generally be alone in the organisation which receives him.

These activities can be organised at the same time as the module on expression and communication, which is attended by cadets who did not take part in the training period for discovering the civilian maritime world.

Code: DMMC	Activities	Speakers	Observations	UI
1P	Training period in the civilian maritime world	/		175
2C	Return from the training period: reminders on terms for the oral presentation and the writing of articles	Expression and communication teacher	Lecture hall Class	2
3D	Report oral presentation in front of a jury(35 minutes per cadet)	The composition of the juries is based on an order from the Department of human and military training		3
4D	Report oral presentation in front of a jury(35 minutes per cadet)	The composition of the juries is based on an order from the Department of human and military training		3
TOTAL				183

Title III: ENGINEER TRAINING

Semester 5 finalizes the scientific teaching at the academy with the scientific final project.

Department: Department for scientific teaching
Prerequisite courses: TC9, PIA, PVA
Courses or Modules for which this module is necessary: none
Number of ECTS credits: 35

1. COURSE OBJECTIVE

The objectives of these final studies projects are manifold. They enable cadets to organise themselves, to open up on the world and to use the skills, working methods and scientific knowledge that they acquired throughout their schooling. Moreover, training periods can be a good way to put in place or as well strengthen partnerships between the IRENav (research centre of the academy) and other organisations.

Summary of teaching content:

Projects are subjected to a scientific report. They are presented by cadets in front of a jury of specialists. Of course, Europe is one of the favoured destinations, but other countries located farther, are also possible.

Connections with other courses:

This project is realised under the form of a training period by pairs. Those can take place in companies, research or development laboratories, outside the navy and if possible, outside defence, either in France or abroad. It is the final outcome of scientific training at the École navale.

2. DETAILED PROGRAMME

Training period of 10 weeks and a few days for preparing the oral presentation. Then, oral presentation, in English for training periods abroad.

- Supervision Project: 350 h
- Assessment: 1 h for the oral presentation + written report (in English for projects carried out abroad)