



ACADEMIC YEAR 2006-2007

**DIPLOMA SUPPLEMENT
BACHELOR CPE LYON
Informatics and communication networks**

«This diploma supplement model was developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates, etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why. (Source: European Commission, Council of Europe and UNESCO).»

The Lyon School of Chemistry Physics and Electronics (CPE Lyon) prepares and trains scientists/engineers in three specialities: **chemistry-process engineering** (CGP), **electronics-telecommunications-computer science** (ETI) and **Computer Science and Communication Networks** (IRC). The latter speciality takes place via a block release system of studies alternating between school and company.

This diploma supplement applies specifically to the certificate of CPE Lyon awarded at the end of the third year of study, corresponding to the end of the first year of the engineer cycle, a total of 6 academic semesters plus industrial placements.

1 INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1 Surname:

1.2 First name(s):

1.3 Date of birth:

1.4 Student identification number:

2 INFORMATIONS IDENTIFYING THE QUALIFICATION

2.1 Name of qualification

**Bachelor Certificate of the Lyon School of Chemistry Physics and Electronics,
CPE Lyon,
Speciality Informatics and Network Communications
In partnership with the Lyon Institute of Engineering Techniques of Industry**

2.2 Main fields of study for the qualification

Fundamental scientific disciplines:

Computer science, networks and telecommunications, electronics, signal processing, mathematics, human, economic and social sciences, languages.

2.3 Name and status of awarding institution

Ecole Supérieure de Chimie Physique Electronique de Lyon (CPE Lyon)

Domaine scientifique de la Doua

43 boulevard du 11 novembre 1918, BP 2077, 69616 Villeurbanne cedex – France –

Private engineering school, recognised by the State, education accredited by the Commission des Titres d'Ingénieur.

2.4 Name and status of institution administering the studies

Idem.

2.5 Language of instruction/examination

French and English.

3 INFORMATION ON THE LEVEL OF THE QUALIFICATION

3.1 Level of qualification

Three (3) years of higher education after the baccalauréat (end of secondary school) leading to the award of the Bachelor Certificate of CPE Lyon, 195 ECTS credits.

3.2 Official length of programme

The total length of studies for the award of the diploma is three (3) years (six semesters):

- Preparatory cycle: four (4) semesters of education to obtain a DUT (University Diploma of Technology) or BTS (vocational training certificate for advanced technicians). This is equal to 120 ECTS credits.
- Bachelor programme: two (2) semesters of education at CPE Lyon following recruitment on the basis of academic performance. The programme at CPE Lyon corresponds to 75 ECTS credits.

The total for the Bachelor Certificate is 195 ECTS credits.

3.3 Access requirements

CPE Lyon recruits into year 3 of the programme via several routes:

- For students with the status of apprentice: the holders of a DUT or a BTS and having signed an apprentice contract. Admission is granted after a very selective procedure based on several criteria: pre-selection on the basis of academic performance followed by an interview to determine personality and motivation, evaluation of the level and the potential in languages. Approximately 25% of the candidates are admitted at the end of this procedure.
- For students in continuing education: the holders of a DUT or a BTS and having three (3) years of professional experience. The candidates are selected on the basis of their academic results obtained during a preparation period.

4 INFORMATION ON THE LEVEL OF THE QUALIFICATION

4.1 Mode of study

The study takes place by alternating the studies between School and Industry. The students have the status of apprentices or of continuing education students.

4.2 Organisation of the programme

- Since September 2004, in the framework of the European Higher Education Area, CPE Lyon has established a semester system and an evaluation based on credit accumulation, called ECTS credits.
- The study programme has a modular structure based on the following main themes: informatics, networks and telecommunications, electronics, signal processing, mathematics, human, economic and social sciences, languages. Each module is of 3, 6 or 9 ECTS credits. A module corresponds to a mixture of lectures, tutorials, practical work, personal study, group project work and e-learning. The distribution and the evaluation of the pedagogic activities are adapted according to the learning outcomes of each module. A module of 3 ECTS credits represents about 75 to 80 hours of work, including personal study.
- Alternating with the academic periods, the students must carry out a project during their periods in industry: 21 ECTS credits.

4.3 Acquired competences

The competences targeted by this programme are the basic competences in computer science, networks, mathematics, electronics.

4.4 Programme details

The 5th and 6th semesters are organised in the following way:

Academic year 2006-2007

		Credits
SEMESTER 5		27
Mathematics	Mathematics	6
Electronics and signal processing 1	Fundamentals of electronics	6
Informatics 1	Fundamentals of computer science	6
Languages and international culture 1	English	3
Human, economic and social sciences 1	Management	3
Human, economic and social sciences 2	Law and responsibility	3
SEMESTER 6		27
Electronics and signal processing 2	Computer architecture	3
Electronics and signal processing 3	Signal processing	3
Electronics and signal processing 4	Industrial automatics and optoelectronics	3
Informatics 2	Algorithms, object oriented and structured programming	9
Networks and Telecommunications 1	General concepts of networks	3
Languages and international culture 2	English	3
Human, economic and social sciences 3	Self-awareness: ethics and responsibility	3
Project 1	Project 1 in industry, year 3	21

The detailed description of each module is available on the website www.cpe.fr

4.5 Grading scheme and grade distribution information

The diploma is awarded, by a jury for the award of the Bachelor, to those students who have been awarded the credits:

- for the academic semesters.
- for the industrial project.

In year 3 (semesters 5 and 6), each semester is validated, with the award of 27 ECTS credits, if all the modules are validated.

A module is validated if an average of 10/20 is obtained over all the activities assessed for that module (marked from 0 to 20). Each module validated gives rise to the award of 3, 6 or 9 ECTS credits. These are given a grade A, B, C, D or E according to the distribution: A = top 10%; B = next 25%; C = next 30%; D = next 25%; E = next 10%.

The project is subject to a specific assessment: scientific and technical quality of the project, evaluation by the company of the student's professional and behavioural aptitudes, the quality of the report, and the quality of the oral presentation. The validation of the project leads to the award of 21 ECTS credits.

The validation juries are official bodies of CPE Lyon and are authorised to take the above decisions. The jury for the validation of a semester is comprised of the Director of CPE Lyon, the Director of Studies, the Director of the ITII, the coordinator of the teaching of informatics and of communication networks, the coordinator of the human and social science teaching, the Language Coordinator, and two industrial representatives.

4.6 Overall classification of the qualification

Not applicable.

5 INFORMATIONS ON THE FUNCTION OF THE QUALIFICATION

5.1 Access to further study

Year 4 after the Baccalaureat (second year of the engineer cycle) in order to obtain the title of graduate engineer of CPE Lyon at the Master level.

5.2 Professional status

Not applicable

6 ADDITIONAL INFORMATION

6.1 Additional information on the academic and professional curriculum

was admitted to CPE Lyon after a preparatory cycle conforming to the admission conditions defined in paragraph 3.3.

The study programme is summarised in the following table:

	Academic Semester	Period from	to	Institution	Country	Language of instruction
Preparatory programm	1 ^{er} cycle					
Cursus Bachelor	Semester 5					
	Semester 6					

Industrial Projects	Period from	to	Company	Country	Language	Theme of the project
Project 1						

Degree obtained at the end of this programme:

**Bachelor Certificate of the Lyon School of Chemistry Physics and Electronics,
CPE Lyon,
Speciality Informatics and Communications Networks**
In partnership with the Lyon Institute of Engineering Techniques of Industry

6.2 Other sources of information

<http://www.cpe.fr>

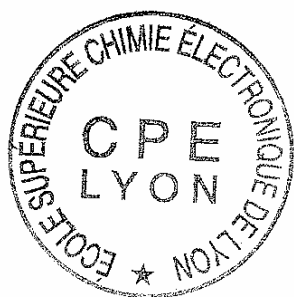
7 CERTIFICATION OF THE SUPPLEMENT

7.1 Date: January 31, 2008

7.2 Signature: Gérard Pignault

7.3 Capacity: Directeur of CPE Lyon

7.4 Official stamp or seal:



8 INFORMATION ABOUT THE HIGHER EDUCATION SYSTEM IN FRANCE

