

## Diploma Supplement

The Diploma Supplement was developed by the European Commission, Council of Europe and by 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 is free from any value-judgements, equivalence statements or suggestions about recognition. Information is provided in eight sections. Where information is not provided, an explanation will give the reason why.

### **1. Information identifying the holder of the qualification**

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#### **1.1 Family name(s)**

FERRO

#### **1.2 Given name(s)**

DEMETRIO

#### **1.3 Birth date (dd/mm/yyyy)**

02/12/1990

#### **1.4 Student identification number or code**

0612700274

### **2. Information identifying the qualification**

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#### **2.1 Name of the qualification and (if applicable) title conferred (in original language):**

Laurea in Computer Engineering

#### **2.2 Main field(s) of study for the qualification**

Information technology engineering - L-8

#### **2.3 Name and status of awarding institution (in original language):**

University of SALERNO, Statal

Head Office: Via Giovanni Paolo II, 132, Fisciano (Salerno), Italy

#### **2.4 Name and status of institution (if different from 2.3) administering studies (in original language):**

Not applicable

#### **2.5 Language(s) of instruction/examination**

Italian

### **3. Information on the level of the qualification**

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#### **3.1 Level of qualification**

1° cycle

### 3.2 Official length of programme

Three years (180 credits are required in order to graduate)

### 3.3 Access requirement(s)

The Italian school leaving qualification or a comparable foreign qualification.

There is also an entrance test.

## 4. Information on the contents and results gained

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### 4.1 Mode of study

Full time

### 4.2 Programme requirements

180 credits are required in order to graduate

### 4.3 Programme details (e.g modules or units studied) and the credits obtained

Exam Date	Didactic activity	SSD (Italian)	Year	CFU/ECTS credits
18/11/2019	English Language (Language certificate: B2)	--	1	0.01 (entrance test)
25/02/2010	Mathematics I (Algebra, Analysis)	MAT/05	1	9
01/03/2010	Chemistry	CHIM/07	1	6
21/06/2010	Logical Networks	ING-INF/05	1	6
26/07/2010	Mathematics II (Calculus, PDE)	MAT/05	1	9
26/01/2011	Fundamentals of Programming (C language)	ING-INF/05	1	6
01/02/2011	Mathematics III (Complex analysis, ODE)	MAT/05	2	6
21/02/2011	Computer Architecture (Assembly language)	ING-INF/05	2	9
30/06/2011	Physics (Mechanics, Electromagnetism)	FIS/01	1	12
22/09/2011	Algorithms and Data structures (C language)	ING-INF/05	1	9
29/09/2011	Fundamentals of Automatic Control	ING-INF/04	2	9
23/01/2012	Signal Theory (Matlab)	SECS-S/02	2	12
08/02/2012	Object-oriented Programming (Java language)	ING-INF/05	2	9
28/02/2012	Electrotechnics (Matlab, Matlab GUI)	ING-IND/31	2	9
12/07/2012	Theory and techniques of telecommunications	ING-INF/03	2	9
11/09/2012	Databases (SQL language)	ING-INF/05	3	9
29/10/2012	Computer Technologies of Automatic Control	ING-INF/04	2	6
25/01/2013	Computer Networks: Architectures and Services	INF/01	3	9
08/04/2013	Telecommunications Systems	ING-INF/03	3	6
10/05/2013	Antennas and Wireless Links	ING-INF/05	3	9
18/07/2013	Digital Circuits	ING-INF/01	3	6
01/07/2013	Internship at <a href="#">Co.Ri.Tel.</a> (Ericsson, Fisciano, Italy)	--	3	11
02/09/2013	Seminars	--	3	1
24/09/2013	Final thesis title: <i>"Information flows hidden in network traffic: analysis of embedding policies"</i>	--	3	3

## **5. Information On The Function Of The Qualification**

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### **5.1 Access to further study**

This degree gives access to 2<sup>nd</sup> cycle study programmes (Laurea Magistrale, Master Universitario di I Livello).

### **5.2 Professional status (if applicable)**

The Degree in Computer Engineering allows access – after passing a state examination - to Section B of the National Register of Engineers – Information Sector.

Job opportunities are related to those areas in which products and systems in information technology, telematics and automation are designed and developed. In particular:

- software design and production;
- design and implementation of computer networks and computer systems;
- manufacturing companies, sectors of public administration and service businesses that employ information systems for the management and automation of production processes;
- engineering companies such as consulting or system integrators;
- society and public service management (telecommunications, energy, transport, etc.).

## **6. Additional information**

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### **6.1 Additional information**

#### **Extra-credits activities:**

Date: 18/11/2009; Activity: English Language (0.01 ECTS); Mark: Passed.

The Programme has been positively assessed as Degree in Engineering with the high quality standards EUR-ACE (European Accredited Engineer <http://www.enaee.eu/eur-ace-system>).

### **6.2 Further information sources**

University <http://www.unisa.it/> web pages

Ministry web pages with description of all accredited Italian Universities programmes and information about <http://off.miur.it/> <http://www.study-in-italy.it/>

NARIC Information Italia (National Academic Recognition Information Centre). Information Centre on Academic Mobility and Equivalence <http://www.cimea.it>.

## **7. Certification of the supplement**

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**This Diploma Supplement refers to the following original documents:** Data of this certificate are exported from the data base of the University Computer Service Department

### **7.1 Date (dd/mm/yyyy)**

29/01/2016

### **7.2 Name and signature**

Salvatore CARANNANTE



### **7.3 Capacity**

The Head of the Research and Didactics Area

### **7.4 Official stamp or seal**



## **8. Information on the national higher education system**

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The Italian University System The Italian university system is organised in three cycles, according to the Bologna structure: the main academic degrees are the Laurea (1st cycle), the Laurea Magistrale (2nd cycle) and the Dottorato di Ricerca (3rd cycle). The system also offers other study programmes and related qualifications.

**First cycle.** This cycle consists exclusively of Corsi di Laurea. These degree programmes provide students with an adequate command of general scientific methods and contents as well as with specific professional skills. The general access requirement is the Italian school leaving qualification awarded after completion of 13 years of schooling and passing the relevant State examination; comparable foreign qualifications may also be accepted. Admission to some degree courses may be based on specific course requirements. The studies last 3 years. The Laurea is awarded to students who have gained 180 ECTS credits (called Crediti Formativi Universitari- CFU) and satisfied all curricular requirements, including the production of a final written paper or equivalent final project. The Laurea gives access to the Corsi di Laurea Magistrale as well as to other 2nd cycle study programmes.

**Second cycle.** The main degree programmes in this cycle are the Corsi di Laurea Magistrale. They provide education at an advanced level for the exercise of highly qualified activities in specific areas. Access is by a Laurea degree or a comparable foreign degree; admission is based on specific course requirements determined by single universities. The studies last 2 years. The Laurea Magistrale degree is awarded to students who have gained 120 ECTS/CFU credits and satisfied all curricular requirements, including the production and public defence of an original dissertation. Some programmes (namely, those in dentistry, medicine, veterinary medicine, pharmacy, architecture, construction engineering/architecture, law, primary education) are defined "single cycle programmes" (Corsi a ciclo unico); for these programmes access is by the Italian school leaving qualification (or a comparable foreign qualification); admission is based on entrance exams. The studies last 5 years (6 years and 360 ECTS/CFU credits in the cases of medicine and dentistry). A Laurea Magistrale degree is awarded to students who have gained 300 ECTS/CFU credits and satisfied all curricular requirements, including the production and public defence of an original dissertation. A Laurea Magistrale degree gives access to Corsi di Dottorato di Ricerca as well as to other 3rd cycle study programmes.

**Third cycle.** The main degree programmes in this cycle are Corsi di Dottorato di Ricerca (research doctorate programmes); the students/young researchers enrolled in these programmes will acquire methodologies for advanced scientific research, will be trained in new technologies and will work in research laboratories, wherever appropriate. Access is by a Laurea Magistrale degree (or a comparable foreign degree); admission is based on a competitive exam; studies last at least three years and include the completion and public defence of an original research project.

### **Other programmes.**

- Corsi di Specializzazione. These are 3rd cycle programmes intended to provide students with the knowledge and skills required for the practice of highly qualified professions, mainly in medical, clinical and surgical specialities. Admission is by a Laurea Magistrale degree (or by a comparable foreign degree) and is based on a competitive exam; studies may last from 2 (120 ECTS/CFU credits) to 6 years (360 ECTS/CFU credits) depending on the discipline. The final degree awarded is a Diploma di Specializzazione.

- Corsi di Master Universitario di primo livello These are 2nd cycle programmes intended to provide students with further specialization or higher continuing education after completion of the first cycle. Access is by a Laurea degree (or a comparable foreign degree); admission may be subject to additional requirements. Studies last at least 1 year (60 ECTS/CFU credits). The qualification awarded (Master Universitario di primo livello) does not give access to Corsi di Dottorato di Ricerca or to any other 3rd cycle programme

since this type of course does not belong to the general requirements established at national level, but it is offered under the autonomous responsibility of each university.

- **Corsi di Master Universitario di secondo livello** These are 3rd cycle programmes intended to provide students with further specialization or higher continuing education studies after completion of the second cycle. Access is by a Laurea Magistrale degree (or a comparable foreign degree); admission may be subject to additional requirements. Studies last at least 1 year (60 ECTS/CFU credits). The qualification awarded (Master Universitario di secondo livello) does not give access to Corsi di Dottorato di Ricerca or to any other 3rd cycle programmes, since this type of course does not belong to the general requirements established at national level, but it is offered under the autonomous responsibility of each university.

**Credits:** degree courses are structured in credits (Crediti Formativi Universitari - CFU). University credits are based on the workload students need in order to achieve the expected learning outcomes. Each credit corresponds to 25 hours of student workload, including independent study. The average workload of a full time student is conventionally fixed at 60 credits per year. Thus, the CFU fully coincide with ECTS credits.

**Classes of Degree Courses:** all degree programmes of Laurea and Laurea Magistrale sharing general educational objectives are grouped into "classes". In developing the specific learning outcomes of single programmes, Universities have to comply with some national requirements for each class concerning the types (and corresponding amount of credits) of teaching learning activities to be included. Degrees belonging to the same class have the same legal value.

**Academic Titles:** Those who receive the Laurea are entitled to be called "Dottore", the holders of a Laurea Magistrale have a right to the title of "Dottore Magistrale", the Dottorato di ricerca confers the title of "Dottore di Ricerca" or "PhD".

**Joint Degrees:** Italian universities are allowed to establish degree programmes in cooperation with Italian and foreign partner universities, on completion of which joint or double/multiple degrees can be awarded.

**Further information:** Italian Qualifications Framework Quadro dei Titoli Italiani - QTI  
<http://www.quadrodeititoli.it>

