POLITECNICO DI MILANO

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Register number: 0214-0449

DIPLOMA SUPPLEMENT

INTRODUCTION

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 enclosed. 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

1.1   Family name(s)
       CIGLIANO
1.2   Given name(s)
       FABIO
1.3   Date of birth (day/month/year)
       26/03/1988
1.4   Student identification number or code (if available)
       714321

2   INFORMATION IDENTIFYING THE QUALIFICATION

2.1   Name of the qualification and (if applicable) title conferred
       (in original language)
       Laurea in ENGINEERING OF COMPUTING SYSTEMS
       Dottore
2.2   Main field(s) of study for the qualification
       09 Information Technology
2.3   Name and status of awarding institution (in original language)
       Politecnico di Milano (State university), Piazza Leonardo da Vinci 32,
       20133 Milano
2.4   Name and status of institution (if different from 2.3) administering
       studies (in original language)
       NA
2.5   Language(s) of instruction/examination
       Italian

3   INFORMATION ON THE LEVEL OF THE QUALIFICATION

3.1   Level of qualification
       1st Cycle / 6° level of the NQF (National Qualifications Framework)
3.2   Official length of programme
       Three years / 180 credits
3.3   Access requirement(s)
       Secondary school leaving qualification, or foreign comparable
       qualifications

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4   INFORMATION ON THE CONTENTS AND RESULTS GAINED

4.1   Mode of study
        The Course requires full time attendance and involves classroom and
        laboratory activities
4.2   Programme requirements
        Graduates will:
        - have adequate knowledge of mathematical and scientific methods and their
        applications so as to be able to analyse and describe engineering
        problems;
        - have sound knowledge of engineering methods and their applications in
        information technology, and be able to identify and solve problems in the
        field using the most up-to-date methods and tools;
        - be able to use tools and techniques to design components, systems and
        processes;
        - be able to conduct experiments and analyse their results;
        - be able to understand the impact of engineering solutions on society and
        the environment;
        - understand professional and ethical responsibilities;
        - know business culture with regards to economics, management and
        organisation;
        - have a knowledge of current issues in the field;
        - have good interpersonal and decision-making skills;
        - understand the importance of keeping abreast of developments in the
        field;
        - be able to effectively communicate, in written and oral form, in at
        least one European Union language other than Italian.

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4.3   Programme details (e.g., modules or units studied) and the individual
       grades/marks/credits obtained

Code	Course units	CFU/ECTS credits	Grade	Date
060012	COMPUTER PROGRAMMING 1	7.50	23	14/02/2008
060013	COMPUTER ARCHITECTURES AND OPERATING SYSTEMS	10.00	27	10/07/2008
060023	BASIC CIRCUIT THEORY	7.50	20	08/07/2008
060028	EXPERIMENTAL PHYSICS A + B	10.00	18	17/09/2009
072608	MATHEMATICAL ANALYSIS 1	7.50	26	08/02/2008
072609	LINEAR ALGEBRA AND ANALYTIC GEOMETRY	5.00	22	19/02/2008
072610	MATHEMATICAL ANALYSIS 2 (FOR STUDENTS IN INFORMATION ENGINEERING)	10.00	27	30/06/2008
061195	PROBABILITY	5.00	19	01/09/2010
061204	BUSINESS ECONOMICS AND ORGANIZATION D	10.00	21	14/07/2009
061207	FUNDAMENTALS OF AUTOMATIC CONTROL (FOR STUDENTS IN INFORMATION ENG.)	10.00	20	08/02/2009
061208	INTRODUCTION TO ELECTRONICS	10.00	21	02/03/2009
061234	INTERNETWORKING WITH TCP/IP	5.00	30	01/07/2009
061237	SOFTWARE ENGINEERING	7.50	26	02/07/2009
061239	ORDINARY DIFFERENTIAL EQUATIONS (FOR STUDENTS IN COMPUTER ENG.)	5.00	22	01/09/2011
070344	FUNDAMENTALS OF SIGNALS AND TRANSMISSION	5.00	27	31/08/2009
070345	FUNDAMENTALS OF TELECOMMUNICATIONS NETWORKS	5.00	24	08/07/2009
061238	PROGRAMMING LANGUAGES, DATA STRUCTURES AND ALGORITHMS	5.00	19	02/02/2010
061373	INDUSTRIAL APPLICATIONS OF COMPUTER SYSTEMS	5.00	25	04/02/2011
061420	DATA BASES	5.00	20	05/03/2010
070302	INDUSTRIAL AUTOMATION	5.00	22	23/02/2010
070324	ALGEBRA AND MATHEMATICAL LOGIC	5.00	21	05/09/2011
070342	ROBOTICS	5.00	24	23/07/2010
070507	FINAL DEGREE TEST (7.5 CPS)	7.50	--	18/02/2014
C) 070824	INTERNSHIP	7.50	--	26/04/2010
072615	KNOWLEDGE ENGINEERING	5.00	19	06/09/2010
073840	DIGITAL LOGIC DESIGN	5.00	18	01/03/2011
082942	PROJECT IN COMPUTER SCIENCE ENGINEERING	2.50	30	06/09/2013

C) Recognition of Prior Learning.

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4.4 Grading scheme and (if available) grade distribution guidance
     Individual subjects are graded on a scale from 1 to 30, with 18 and 30 as
     minimum and maximum grade respectively. A "cum laude" can be added to the
     maximum grade as a special distinction.

GRADE DISTRIBUTION TABLE

Grade	%
18	24.14
19	8.74
20	9.76
21	6.94
22	7.65
23	7.22
24	7.22
25	5.18
26	5.33
27	4.49
28	4.68
29	1.83
30	4.59
30 cum laude	2.23

The table shows the percentage distributions of the marks obtained considering
the 3 previous years and lessons given in study courses belonging to the same
main field of study(s) for qualification of the graduate student.

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4.5   Overall classification of the qualification (in original language):
       Final mark: 90/110, awarded on 25/02/2014

       Final marks range from 66 to 110. A "cum laude" can be added to the
       maximum grade as a special distinction.

GRADE DISTRIBUTION TABLE

Grade	%
68	0.14
71	0.14
72	0.14
73	0.68
74	0.27
75	1.09
76	1.77
77	2.45
78	2.59
79	1.77
80	4.90
81	5.17
82	5.85
83	5.85
84	6.80
85	6.26
86	6.12
87	5.44
88	5.31
89	2.45
90	5.85
91	3.95
92	2.72
93	2.86
94	2.99
95	3.67
96	1.77
97	1.77
98	1.22
99	0.82
100	1.63
101	0.95
102	0.95
103	0.41
104	0.54
105	0.68
106	0.54
107	0.41
108	0.27
110	0.41
110 cum laude	0.41

The table shows the percentage distributions of the final marks obtained
considering the 3 previous years in courses belonging to the same main field of
study(s) for qualification of the graduate student.

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5   INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1   Access to further study
        The qualification grants access to "Laurea Magistrale" (2nd degree),
        "Corso di Specializzazione di primo livello" (1st level Specialization
        Course) and "Master Universitario di primo livello" (1st level University
        Master)
5.2   Professional status (if applicable)
        Gives access to the state exam required to practice as: JUNIOR ENGINEER OF
        COMPUTING SYSTEMS

6   ADDITIONAL INFORMATION

6.1   Additional Information

        EUROPEAN LANGUAGE KNOWLEDGE (EXCEPTING ITALIAN)   2.50   Successful

6.2   Further information sources
        http://www.polimi.it/; http://www.miur.it/; http://www.inginf.polimi.it/

7   CERTIFICATION OF THE SUPPLEMENT

7.1   Date (day/month/year) (*)

7.2   Name and signature (*)
        Dott.ssa Assunta Marrese
7.3   Capacity
        Il Dirigente dell'Area Servizi agli Studenti e ai Dottorandi
7.4   Official stamp or seal (*)

(*) Date, signature and stamp are available only if requested by the holder of
the Diploma Supplement

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8   INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM

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

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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.

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Further information:
Italian Qualifications Framework (Quadro dei Titoli Italiani - QTI)
http://www.quadrodeititoli.it

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THE ITALIAN UNIVERSITY SYSTEM

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                    _____
3rd cycle          | Dottorato di Ricerca      |        _____
                   |                           |       | Master Universitario      |
                   | Scuola di Specializzazione|       | di II Livello             |
                   |_____|   /   |_____|
                        ^              ^          /
                        |              |         /
                    _____   _____   _____
2nd cycle          |           | | Laurea Magistrale      | | Master Universitario      |
120 CFU/ECTS       |  Laurea   | |_____| | di I Livello              |
                   | Magistrale|          ^             /   |_____|
                   | a ciclo   |          |            /
                   |  unico    |  _____   /
1st cycle          | (single   | | Laurea         |
180 CFU/ECTS       |  cycle)   | |_____|
                   |_____|
                        ^              ^
                        |              |
     _____
    |                                                                   |
    |  Upper Secondary Education (5 years)                              |
    |_____|
    |                                                                   |
    |  Lower Secondary Education (3 years)                              |
    |_____|
    |                                                                   |
    |  Primary Education (5 years)                                      |
    |_____|
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