

# Diploma Supplement

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.

## 1 INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

### 1.1 Family name(s)

SPARK

### 1.2 Given name(s)

ISABRIGHT

### 1.3 Date of birth (day/month/year)

18 May 1983

### 1.4 Student identification number or code

X696969

## 2 INFORMATION IDENTIFYING THE QUALIFICATION

### 2.1 Name of qualification and (if applicable) title conferred

Master of Engineering

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

Civil Engineering

### 2.3 Name and status of awarding institution

University of Wales

### 2.4 Name and status of awarding institution (if different from 2.3) administering studies

University of Wales Swansea

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

English

## 3 INFORMATION ON THE LEVEL OF THE QUALIFICATION

### 3.1 Level of qualification

Bachelor/Masters (Integrated first and second cycle degree)

### 3.2 Official length of programme

4 years

### 3.3 Access requirements

Entry requirements are typically expressed in terms of the UCAS Tariff with the normal requirement between 240-300 points overall which might include the requirement of specific subject for specific schemes. A pass in one of a range of other qualification including Access courses and diplomas, BTEC qualifications, European Baccalaureate, International Baccalaureate would also be accepted.

## 4 INFORMATION ON THE CONTENTS AND RESULTS GAINED

### 4.1 Mode of study

Full time

### 4.2 Programme requirements

In order to satisfy the requirements of the programme, students must demonstrate that they have met the learning outcomes as outlined below.

#### 4.2.1 Knowledge and understanding

- Basic applied mathematical techniques including numerical methods.
- The fundamental properties of Civil Engineering materials including steel, concrete, geomaterials, masonry, timber and others.
- Basic concepts of the analysis of structures and the behaviour of fluids and soils.
- Principles of the design of structures and their foundations.
- The general principles of business organisation, legal matters, financial management and analysis and project management.
- The role of the Civil Engineer in society, the profession and environmental responsibilities.
- Civil engineering construction and contract management, including health & safety issues.

#### 4.2.2 Intellectual (thinking skills)

- Identify and formulate engineering problems independently.
- Chose appropriate mathematical or computational techniques for the analysis of civil engineering problems
- Solve standard civil engineering problems by using appropriate simplifying assumptions; applying qualitative conceptual models when appropriate; or choosing adequate quantitative models and analysis techniques to provide sufficient output to facilitate an acceptable design.
- Apply the knowledge base to create new solutions to civil engineering problems.
- Apply basic judgement to safety, management of risk, reliability, costs & benefits, and environmental impact.
- Select, evaluate, interpret and, when necessary, generate data from a variety of sources in order to reach informed decisions.

#### 4.2.3 Practical Skills (Subject-Specific)

- Use appropriate mathematical techniques for the analysis of civil engineering problems.
- Program and use a computer to perform a numerical calculation.
- Use approximate design procedures.
- Use appropriate analysis and design software.

- e. Employ quantitative models of civil engineering structures and projects and apply the results to design and project specification.
- f. Identify appropriate code of practice and regulatory information.
- g. Prepare technical reports.
- h. Prepare hand drawn sketches; technical drawings, including use of appropriate software; and other forms of graphical information.
- i. Use appropriate measuring and surveying equipment

#### 4.2.4 Key skills

- a. Apply logical thought processes in problem solving.
- b. Work in a team.
- c. Write clear and concise reports.
- d. Deliver clear and concise oral presentations.
- e. Demonstrate effective learning techniques such use of library and electronic information sources.
- f. Use a PC to write reports, prepare presentations and construct and manipulate a spreadsheet.
- g. Manage resources and time, and study independently.
- h. Recognise career and employment opportunities
- i. Undertake life long learning.
- j. Appreciate health and safety issues

#### 4.3 Programme details and the individual grades/marks/credits obtained.

The University issues an official transcript to each student on graduation. The transcript which presents the full details of the study is given below.

HESA ID 0000010518775

Date of commencement of studies : 23 September 2002

#### Enrolled 2002/2003 - BEng, Civil Engineering Level 1 undergraduate

Location of Study : Singleton Campus

Level	Module	Title	Result	%	Credits Awarded	ECTS Credits
1	EG-120	Strength of Materials	54	P	10	5
1	EG-121	Surveying	64	P	10	5
1	EG-122	Conceptual Design	54	P	10	5
1	EG-123	Engineering Material	29	TF	0	0
1	EG-125	Civil Laboratory II	59	P	10	5
1	EG-160	Fluid Mechanics 1	45	P	10	5
1	EG-163	Design and Laboratory Classes 1	80	P	10	5
1	EG-164	Engineer in Society	40	P	10	5
1	EG-166	Engineering Mechanics	71	P	10	5
1	EG-167	ICT Skills	68	P	10	5
1	EG-189	Engineering Analysis 1	59	P	10	5
1	EG-190	Engineering Analysis 2	57	P	10	5

**Total Credits Awarded : 110 55**

**Completed Level**

#### Enrolled 2003/2004 - BEng, Civil Engineering Level 2 undergraduate

Location of Study : Singleton Campus

Level	Module	Title	Result	%	Credits Awarded	ECTS Credits
2	EG-201	Fluid Mechanics II	48	P	10	5
2	EG-221	Structural Mechanics IIa	44	P	10	5
2	EG-222	Reinforced Concrete Design	49	P	10	5
2	EG-223	Basic Soil Mechanics	64	P	10	5
2	EG-224	Steel Design	61	P	10	5
2	EG-225	Structural Mechanics IIb	56	P	10	5
2	EG-226	Reinforced Concrete Design Practice	68	P	10	5
2	EG-227	Steel Design Practice	60	P	10	5
2	EG-228	Civil Laboratory III	54	P	10	5
2	EG-260	Dynamics 1	43	P	10	5
2	EG-285	Statistical and Computational Methods	68	P	10	5
2	GEL200	Introductory Geology for Engineers	64	P	10	5

**Total Credits Awarded : 120 60**

**Completed Level**

#### Enrolled 2004/2005 - BEng, Civil Engineering Intercalary/Sandwich year undergraduate

Location of Study : Distance learning whether abroad or in industry

Level	Module	Title	Result	%	Credits Awarded	ECTS Credits
E	EG-E05	Industrial Placement Year (Civil Engineering)		P	120	60

**Total Credits Awarded : 120 60**

**Continue to next academic year**

#### Enrolled 2005/2006 - MEng, Civil Engineering Level 3 undergraduate

Location of Study : Singleton Campus

Level	Module	Title	Result	%	Credits Awarded	ECTS Credits
3	EG-320	Structural Mechanics III	69	P	10	5
3	EG-321	Geomechanics	68	P	10	5
3	EG-323	Finite Element Method	62	P	10	5
3	EG-324	Level III Project	64	P	20	10
3	EG-326	Engineering of Foundation	77	P	10	5
3	EG-328	Superstructure Design	66	P	10	5
3	EG-329	Hydrology and Unsteady Flow	77	P	10	5
3	EG-331	Super Structure Design Practice	72	P	10	5
3	EG-386	Engineering Management	65	P	10	5
3	EG-399	Engineering Analysis 3	72	P	10	5
3	EGZ300	Environmental Engineering Practice	56	P	10	5

**Total Credits Awarded : 120 60**

**Completed Level**

**Enrolled 2006/2007 - MEng, Civil Engineering Level M undergraduate**

Location of Study : Singleton Campus

Level	Module	Title	Result	%	Credits Awarded	ECTS Credits
M	CI-M19	Reservoir Simulation	87	P	10	5
M	EG-M23	Finite Element Computational Analysis	82	P	10	5
M	EG-M24	Advanced Structural Design	80	P	10	5
M	EG-M25	Advanced Structural Analysis	77	P	10	5
M	EG-M30	Advanced Structural Stimulation	72	P	10	5
M	EG-M47	Entrepreneurship for Engineers	72	P	10	5
M	EG-M62	Group project	83	P	30	15
M	EGIM04	Advanced Fluid Mechanics	66	P	10	5
M	EGIM07	Dynamics and Transient Analysis	76	P	10	5
M	EGIM16	Communication skills for research engineers	62	P	10	5

**Total Credits Awarded : 120 60****Completed Course**

Result Legend: P = Pass, CF=Condoned Fail, TF=Tolerated Fail, F=Fail, CP=Compensatory Pass, UP=Unfair Practice, NE=Not Entered. Level "E" not subject to Result Marking

**Degree, etc. gained and date of Award**

**Qualified for : MEng in Civil Engineering (First Class Honours), 27 June 2007**

**Admitted to the degree on : 19 July 2007**

**4.4 Grading scheme and, if available, grade distribution guidance**

First Class Honours	70-100%
Second Class Honours, First Division	60-69.99%
Second Class Honours, Second Division	50-59.99%
Third Class Honours	40-49.99%
Pass Degree	35-39.99%
Fail	0-34.99%

The class of Honours degree is normally determined using marks from modules attracting 360 credits (180 ECTS credits) which would have been pursued during Levels 2, 3 and M (i.e. for a full-time candidates Year 2, Year 3 and the Final year).

Marks of modules pursued during Level 2 (i.e. for full time candidates, the second year) would be given a weighting of 1.

Marks of modules pursued during Level 3 (i.e. for full time candidates, the third year) would be given a weighting of 2.

Marks of modules pursued during Level M (i.e. for full time candidates the Final Year of Study) would be given a weighting of 2.

The overall average mark is arrived at by means of a formula and supplementary rules printed annually in the Academic Handbook.

**4.5 Overall classification of the qualification**

First Class Honours

**5 INFORMATION ON THE FUNCTION OF THE QUALIFICATION****5.1 Access to further study**

Access to postgraduate research study (second cycle degree or third cycle degree), normally with 2nd class honours or above

**5.2 Professional status**

The Institution of Civil Engineers

**6 ADDITIONAL INFORMATION****6.1 Additional information**

The University of Wales Swansea was established in 1920. It offers a full range of degrees, including those at Bachelors level (First Cycle), Taught Master's (Second Cycle), and Research degrees, leading to Master and Doctor awards. It is a member of the national University of Wales, which itself was established in 1893.

Swansea has more than 12 000 full and part-time students, of whom approximately 1200 are Research students. It offers a broad range of subjects, including Medicine and Health Science, Law, Engineering, key Science disciplines, Business and Economics, Media and Communications Studies, Psychology, Humanities, Modern Languages, etc.

At the Research degree level, each department offers Doctorate degrees and students are supervised by staff who are leading researchers in their disciplines. Over 90% of the academic staff are active in research, with some departments at the University being given the highest grading for research excellence through the national Research Assessment Exercise.

Swansea has developed strong links with other European universities and is a member of the European Universities Association.

**6.2 Further information sources**

University of Wales Swansea Academic Handbook for Undergraduate Students/ University of Wales Swansea Academic Handbook for Taught Masters Level Schemes (from the appropriate year of study); University of Wales Swansea Undergraduate Prospectus, University of Wales Swansea Postgraduate Prospectus; University of Wales Swansea website: [www.swan.ac.uk](http://www.swan.ac.uk)

**7 CERTIFICATION OF THE SUPPLEMENT****7.1 Date**

29 August 2007

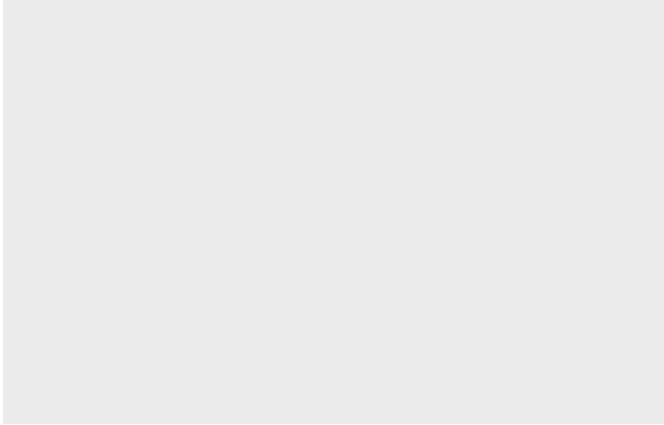
**7.2 Signature**

H.D.L. Morris

**7.3 Capacity**

Academic Registrar

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



### **8 INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM**

Please note: During the implementation period of the framework for Higher Education Qualifications (FHEQ), the levels used at University of Wales Swansea, which appear in Section 4.3 of this document, do not correspond with those described in the attached addendum, which provides information on the Higher Education System in England, Wales and Northern Ireland. As clarification, the levels are as follows, with Swansea's levels appearing first and with the corresponding FHEQ levels appearing in brackets: Level 1 (4); Level 2 (5); Level 3 (6); Level M (7)