MODULE SPECIFICATION TEMPLATE

**SECTION 1: MODULE SPECIFICATIONS**

1. Title of the module

EL542 Creativity in interactive and tangible media

1. School or partner institution which will be responsible for management of the module

Engineering and Digital Arts

1. Start date of the module

September 2014

1. The number of students expected to take the module

70

1. Modules to be withdrawn on the introduction of this proposed module and consultation with other relevant Schools and Faculties regarding the withdrawal

This module replaces EL337 Digital Visual Narrative

1. The level of the module (e.g. Certificate [C], Intermediate [I], Honours [H] or Postgraduate [M])

I

1. The number of credits and the ECTS value which the module represents

15 (7.5 ECTS)

1. Which term(s) the module is to be taught in (or other teaching pattern)

Summer

1. Prerequisite and co-requisite modules

Prerequisite: EL313 - Introduction to Programming

1. The programmes of study to which the module contributes

BSc Multimedia Technology & Design

BSc Multimedia Technology & Design with a Year in Industry

BA in Digital Arts

BA in Digital Arts with a Year in Industry

1. The intended subject specific learning outcomes

Upon successful completion of the module, students will:

1. Be able to develop an original idea on a given theme, research it and visualise it in interactive form
2. Be able to evaluate critically a wide range of interactive methods, visual styles, and choose the best suited to the intention of a particular topic
3. Be able to implement and develop interactive systems through visual display and tangible interface
4. Be able to use appropriate software tools to create professional interactive tangible media
5. Have a full understanding and appreciation of future media technologies

These outcomes are related to the programme learning outcomes in the appropriate curriculum maps as follows:

MTD/MTDwInd: A1,A3,A6, B4,B5,B7,B8, C1,C3-C9

DA/DAwInd: A1,A3,A6,A7, B4,B5,B7,B8, C3-C9

1. The intended generic learning outcomes

Upon successful completion of the module, students will:

1. Be proficient in the use of ICT
2. Develop personal and interpersonal skills, working as a member of a team
3. Be able to communicate effectively through media
4. Be able to work in a creative way
5. Be able to organise and manage time and resources

These outcomes are related to the programme learning outcomes in the appropriate curriculum maps as follows:

MTD/MTDwInd: D2 – D7

DA/DAwInd: D2 – D7

1. A synopsis of the curriculum

Why interactive and tangible media

Processing motion

Tangible user interfaces

Creativity with curves

Mixed reality

Web and wireless communication

Gestures

Sensing environment

Advanced topics

1. Indicative Reading List

Shiffman, D (2012). Nature of code. ISBN: 0985930802. Full e-book available : http://natureofcode.com/

Banzi, M( 2011) Getting started with Arduino. Maker Media. ISBN: 1449309879

Reas, C & Fry, B (2010) Getting started with Processing. Maker Media. ISBN: 144937980X

1. Learning and Teaching Methods, including the nature and number of contact hours and the total study hours which will be expected of students, and how these relate to achievement of the intended module learning outcomes

There will be 29 contact hours consisting of 9 lectures (addressing all subject learning outcomes), 18 hours of workshops (addressing learning outcomes 11.3 and 11.4, and generic learning outcomes 12.1-12.2). and a presentation of the final project which will take 2 hours (generic learning outcomes 12.2 and 12.3). The total student workload will be 150 hours

1. Assessment methods and how these relate to testing achievement of the intended module learning outcomes

Assessment of this module is 100% by coursework:

Workshops exercises – teamwork (40%): assess learning outcomes 11.3 and 11.4, and generic learning outcomes 12.1-12.2

Final project and video presentation of the project – teamwork (50%): assess learning outcomes 11.1, 11.2, 11.3, 11.4 and 11.5 and the generic learning outcomes, 12.1 – 12.5.

Class quiz (10%) : assess learning outcome 11.3 and 11.5

1. Implications for learning resources, including staff, library, IT and space

The laboratories will run in the Summer term and will utilise existing resources augmented with specific components such as Bluetooth modules, accelerometers and ultrasonic sensors. 3 demonstrators will support these workshops

1. The School recognises and has embedded the expectations of current disability equality legislation, and supports students with a declared disability or special educational need in its teaching. Within this module we will make reasonable adjustments wherever necessary, including additional or substitute materials, teaching modes or assessment methods for students who have declared and discussed their learning support needs. Arrangements for students with declared disabilities will be made on an individual basis, in consultation with the University’s disability/dyslexia support service, and specialist support will be provided where needed.
2. Campus(es) where module will be delivered: Canterbury

**If the module is part of a programme in a Partner College or Validated Institution, please complete the following:**

1. Partner College/Validated Institution:
2. University School responsible for the programme:

**SECTION 2: MODULE IS PART OF A PROGRAMME OF STUDY IN A UNIVERSITY SCHOOL**

**Statement by the School Director of Learning and Teaching/School Director of Graduate Studies (as appropriate):** "I confirm I have been consulted on the above module proposal and have given advice on the correct procedures and required content of module proposals"

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| ................................................................Director of Learning and Teaching/Director of Graduate Studies (delete as applicable)…………………………………………………Print Name | ..............................................Date |

**Statement by the Head of School:** "I confirm that the School has approved the introduction of the module and, where the module is proposed by School staff, will be responsible for its resourcing"

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| .................................................................Head of School…………………………………………………….Print Name | ..............................................Date |

**SECTION 3: MODULE IS PART OF A PROGRAMME IN A PARTNER COLLEGE OR VALIDATED INSTITUTION**

(Where the module is proposed by a Partner College/Validated Institution)

**Statement by the Nominated Officer of the College/Validated Institution** (delete as applicable)**:** "I confirm that the College/Validated Institution(delete as applicable) has approved the introduction of the module and will be responsible for its resourcing"

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| .................................................................Nominated Responsible Officer of Partner College/Validated Institution ………………………………………………….Print Name………………………………………………….. Post | ..............................................Date |

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Partner College/Validated Institution

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Last updated February 2013