UNIVERSITY OF NOTTINGHAM

PROGRAMME SPECIFICATION

SESSION 2012/2013

Section A. Basic Information

1 Title

Doctor of Philosophy IDIC Digital Technologies

2 Course Code

G59D

3 School(s) Responsible For Management Of The Course

Computer Science 100%

4 Type of Course

Multidisciplinary

5 Mode of Delivery

Full time

6 Accrediting Body

Not applicable

7 Relevant QAA Subject Benchmark(s)

Section B. General Information

Educational Aims

This inter-disciplinary programme aims to provide students from a diversity of backgrounds with an intensive four-year postgraduate research programme that blends knowledge and skills in ubiquitous computing technologies within the Digital Economy, together with an awareness of technological, human/societal and economic/business innovation aspects of the Digital Economy which will set the context for their PhD research and prepare students for a career in an industrial, commercial or research environment. Students will gain experience of the type of problems encountered by academic and industrial researchers, both via taught courses and project work on an individual and group basis. Written and oral presentations will be undertaken at various stages of the course. The programme also aims to assist students to develop and demonstrate their ability to think logically and critically, to acquire and utilise problem-solving skills, to become competent users of relevant equipment and software, and to communicate results effectively.

Outline Description of Course

This PhD is a full-time postgraduate research degree studied over a four-year period (full-time) comprising a formal training programme and an original doctoral research project examined by viva voce.

The first year of the programme (months 1-12) is based at the Horizon Doctoral Training Centre (Jubilee Campus) predominantly to under formal training but also to develop the doctoral research project and establish the arrangements for research supervision. All students are therefore full registered as PhD students at the UK campus alongside students registered on G59P Digital Economy Horizon DTC.

The second part of the programme (months 13-48) is based at the Division of Computer Science at the Universityâ€™s campus in Ningbo, China. Student registration will therefore transfer to Ningbo as full-time PhD students at that campus and will be examined at that campus.

Funding from the University and Ningbo Education Bureau has been secured to recruit up to 50 students onto this programme over three intakes. The first intake of approximately 12 students will be in 2012/13 (start of session). A further intake of 18 students is expected in 2013/14 and another 20 in 2014/15

Distinguishing Features

The formal training component is a multi-disciplinary course run jointly by the School of Computer Science, the Faculty of Engineering (Department of Mechanical, Materials and Manufacturing Engineering and Department of Civil Engineering) and Nottingham University

Business School. All students will take a mix of modules from all schools and departments and, as a consequence, are expected to benefit considerably from the differing perspectives and approaches to teaching and learning. All students will be assigned two supervisors â€" one from each of the UK and Ningbo campuses.

Section C. Supplementary Regulations

1 Admission Requirements

Course Requirements 2.1 (Upper 2nd class Hons degree or international equivalent)

Including Including Sciences, Social Sciences, Engineering, Psychology, Computer Science, Information Systems Degrees

Excluding Arts

IELTS Requirements IELTS Requirements 6.5 (no less than 6.0 in any element)

UK Graduate Applicants are normally required to have a minimum of a Second Class, Division I Honours degree in Computer Science, Engineering, Social Science or another relevant discipline. In exceptional cases, relevant work experience will be taken into account. International Student Applications are welcomed from overseas students with equivalent qualifications to those stated above.

N.B. Applicants from certain countries may have these requirements waived subject to the University of Nottingham Policy for Waiving English Language Entry Requirements at: http://www.nottingham.ac.uk/quality-manual/recruitment-admissions/Policy-forÂ¬Waiving-English-Language-Requirements%20.doc. For those students who do not reach the standard prescribed above, the English language requirement will be deemed to have been met upon successful completion of a full-time intensive English language and academic preparation course of appropriate length in the University Centre for English Language Education (CELE).

2 Course Structure

Module availability on non-compulsory modules is subject to timetabling and pre-requisite restrictions.

Year 1

Compulsory

Students must take all modules in this group

Code	Title	Credits	Compensatable	Taught
MM4HCI	Human-Computer Systems	10	Y	Spring
N14T15	Innovation and Technology Transfer	10	Y	Autumn
MM4HSD	Contemporary Issues in Human Factors and Interactive Systems	10	Y	Spring
G54UBI	Ubiquitous Computing	10	Y	Spring
G54URP	DTC Digital Society PhD Research Proposal	20	N	Full Year
G54PLP	DTC Digital Society Practice Led Project	20	Y	Spring
G54RPS	Research and Professional Skills	10	N	Full Year
G54GRP	Horizon DTC Group Project	10	Y	Autumn
G54CCS	Connected Computing at Scale	10	Y	Autumn
L34113	Emerging Technologies and Society	20	Y	Autumn
	Credit Total	**130**		

Restricted

Group:1

Students must take 30 credits from this group

Code	Title	Credits	Compensatable	Taught
MM4COG	Cognitive Ergonomics in Design	10	Y	Autumn
F84240	Geospatial Information Services	10	Y	Spring
G64ICP	Introduction to Computer Programming	10	Y	Autumn
MM4SHP	Studying Human	20	Y	Autumn

	Performance			
H23VG1	Geospatial Engineering 1	10	Y	Autumn
Q34182	Research Methods in Applied Linguistics: Corpus Linguistics and Discourse Analysis	15	Y	Autumn
N14G05	Innovation Management	10	Y	Spring
G64ADS	Advanced Data Structures	20	Y	Autumn
G54GAM	Games	10	Y	Spring
Q34198	Research Methods in Applied Linguistics: Quantitative and Qualitative Methods	15	Y	Spring
G54MET	Methods for Understanding Users in Computer Science	10	Y	Spring
G53NMD	New Media Design	10	Y	Spring
G54MDP	Mobile Device Programming	10	Y	Spring
G54PDC	Parallel and Distributed Computing	10	Y	Spring
G54ORM	Operations Research and Modelling	10	Y	Autumn
	Credit Total	**180**		

Additional Components

Modules are structured into the following streams: Core, Human, Technology and Innovation

3 Assessment

All Supplementary or course Regulations should be read in the context of the relevant University Study Regulations .

Please refer to this information on http://www.nottingham.ac.uk/regulations/ .

Progression Information:

The overall programme will comply with the Universityâ€™s regulations for postgraduate research degrees. Within the first year (formal training component), module assessment and progression will be in compliance with the Universityâ€™s postgraduate taught regulations, which can be found at:
http://www.nottingham.ac.uk/quality-manual/studyregulations/taught-postgraduateregulations.htm

The Faculty will provide information on the marking criteria used. These criteria will provide students with clear guidance on the performance required to obtain marks at various levels (e.g. 70%+, 60-69, 50-59, 40-49).

Degree Information:

Within the formal training stage, at most 15 credits can be below 40%, but not below 30%, and be compensated if the student has passed modules worth at least 80 credits and has a weighted average of at least 50%.

Candidates who fail taught modules will be allowed one reassessment for each module. The reassessment will usually be at the end of the summer for the academic year in which the original failed assessment took place.

Candidates who withdraw from the programme prior to the successful of the PhD may be awarded a Postgraduate Diploma provided they have successfully completed 120 credits with an overall credit weighted average mark of at least 50% with at least 80 taught credits of at least 50% and with at most 20 credits below 40%

Your Diploma classification is based primarily on your final mark; the average of your module marks, weighted by credit points.

The overall mark is rounded to the nearest integer and the degree class determined as follows:
>=70 Diploma with Distinction
68-69 Borderline* (Diploma with Distinction)
60-67 Diploma with Merit
59 Borderline* (Diploma with Merit)
49 Borderline Diploma

Course Weightings %

Degree Calculation Model:

4 Other Regulations

Note that for the award of a Diploma with Merit or Distinction the overall

marks given must be achieved using first-sit marks only, i.e. resit marks are not taken into account.

*In the case of borderlines, in the absence of (formal) extenuating circumstances, the higher classification is awarded if and only if the candidate has achieved at least 80 credits with marks above that borderline. For example, if a student had a final mark of 68, but had 80 credits of modules with marks of 70 or more then they would be awarded a Diploma with Distinction otherwise they would be awarded a Diploma with Merit.

Candidates who withdraw from the programme prior to the successful of the PhD may be awarded a Postgraduate Certificate provided they have successfully completed 60 credits with an overall credit weighted average mark of at least 50% with at least 40 credits of at least 50% and with at most 20 credits between 40-49%.

Your Certificate classification is based primarily on your final mark; the average of your module marks, weighted by credit points.

The overall mark is rounded to the nearest integer and the degree class determined as follows:
>=70 Certificate with Distinction
68-69 Borderline* (Certificate with Distinction)
60-67 Certificate with Merit
59 Borderline* (Certificate with Merit)
49 Borderline Certificate

Note that for the award of a Certificate with Merit or Distinction the overall marks given must be achieved using first-sit marks only, i.e. resit marks are not taken into account.

*In the case of borderlines, in the absence of (formal) extenuating circumstances, the higher classification is awarded if and only if the candidate has achieved at least 40 credits with marks above that borderline. For example, if a student had a final mark of 68, but had 40 credits of modules with marks of 70 or more then they would be awarded a Certificate with Distinction otherwise they would be awarded a Certificate with Merit.

Section D. Learning Outcomes

Knowledge and Understanding

A graduate should be able to demonstrate knowledge and understanding of:

- the fundamental scientific principles and theories appropriate to the course

- advanced techniques appropriate to the application of the technologies studied in the course
- research methods and techniques
- relevant management and practices
- the need to consider human factors in the design of computing systems
- the strengths and weaknesses of computer tools, applications and other resources with respect to systems design
- the development, management and exploitation of information systems and their impact upon organisations

Intellectual Skills

A graduate should be able to:

- select and apply scientific, technological, numerical and quantitative principles to model, analyse and solve problems
- acquire and analyse, systematically and effectively, substantial quantities of information
- analyse and critically evaluate methodologies and results
- understand and logically evaluate requirements and specifications
- understand complex ideas and relate them to specific problems or questions

Professional/Practical Skills

A graduate should be able to:

- plan, manage, execute and report on practical tasks
- recognise professional, ethical and legal issues involved in the exploitation of information systems
- carry out research in an appropriate area of through scientific, commercial and industrial literature and other sources and summarise findings
- use relevant specialist laboratory and test equipment
- evaluate systems in relation to performance, quality, safety, satisfaction and well-being

Transferable/Key Skills

A graduate should be able to:

- communicate with clarity, in writing, verbally and through presentations to groups
- work effectively, independently, within a team and under direction
- recognize, define, analyze and solve complex problems accurately
- make appropriate use of specialist and generic software packages
- adopt effective strategies for study and a critical approach in investigation
- develop the ability to plan and manage projects effectively