

APPLIED COMPUTING

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Undergraduate:

COMPUTING
(January and September Entries)

COMPUTING WITH ACCOUNTING and FINANCE
(January and September Entries)

COMPUTING WITH BUSINESS AND MANAGEMENT
(January and September Entries)

COMPUTING WITH COMMUNICATION STUDIES
(January and September Entries)

COMPUTING WITH ECONOMICS
(January and September Entries)

Graduate:

GRADUATE CERTIFICATE IN COMPUTING
(July Entry)

GRADUATE DIPLOMA IN COMPUTING
(January and April Entries)

Postgraduate:

MSc/POSTGRADUATE DIPLOMA IN INNOVATIVE COMPUTING
(January Entry)

MSc/POSTGRADUATE DIPLOMA IN APPLIED COMPUTING
(January, April and September Entries)

COMPUTING [BSc]

January Entry

All courses are 15 units, except where specified as 30 units or 45 units.

	SINGLE HONOURS		
Term	YEAR ONE		
1 Winter	Introduction to Computer Systems [4]	Mathematics for Computing [4]	Structured Programming [4]
	*Study Skills for Science		
2 Spring	Introduction to Operating Systems [4]	Object-Oriented Programming [5]	Introduction to Statistics [4]
	THE PRELIMINARY EXAMINATION		
3 Summer	Principles of Database Systems [5]	Human-Computer Interaction [5]	Data Structures and Algorithms [5]
4 Autumn	Software Engineering [6]	Principles of Computer Networks [5]	ONE of: Advanced Programming [5] Mobile Application Development [5]
	THE PART 1 EXAMINATION		
	YEAR TWO		
5 Winter	Software Project Management [6]	Project [6] (45 units)	ONE of: Image Processing [6] Embedded Systems [6]
	*Professional, Ethical and Legal Issues		
6 Spring	Internet and World Wide Web [5]	Project [6] (45 units)	Information Security [6]
	THE PART 2 STAGE 1 EXAMINATION		
7 Summer	Multimedia Systems [5]	Project [6] (45 units)	Interactive Computer Graphics [6]
8 Autumn	Cloud Computing [6]	Database Technologies [6]	Data Mining [6]
	THE PART 2 STAGE 2 EXAMINATION		

This programme is the fast-track 2 year programme.

Study Skills for Science and Professional, Ethical and Legal Issues are two skills courses that do not count any units of credit. Students must pass both courses. Students will not be awarded a degree until they pass both courses

COMPUTING [BSc]

September Entry – 9 terms

All courses are 15 units, except where specified as 30 units or 45 units

	SINGLE HONOURS		
Term	YEAR ONE		
1 Autumn	Introduction to Statistics [4]	Introduction to Computer Systems [4]	
2 Winter	Structured Programming [4]	Mathematics for Computing [4]	
	*Study Skills for Science		
3 Spring	Introduction to Operating Systems [4]	Object-Oriented Programming [5]	
	THE PRELIMINARY EXAMINATION		
4 Summer	Principles of Database Systems [5]	Human-Computer Interaction [5]	Data Structures and Algorithms [5]
5 Autumn	Software Engineering [6]	Principles of Computer Networks [5]	ONE of: Advanced Programming [5] Mobile Application Development [5]
	THE PART 1 EXAMINATION		
	YEAR TWO		
6 Winter	Software Project Management [6]	Project [6] (45 units)	ONE of: Image Processing [6] Embedded Systems [6]
	*Professional, Ethical and Legal Issues		
7 Spring	Internet and World Wide Web [5]	Project [6] (45 units)	Information Security [6]
	THE PART 2 STAGE 1 EXAMINATION		
8 Summer	Multimedia Systems [5]	Project [6] (45 units)	Interactive Computer Graphics [6]
9 Autumn	Cloud Computing [6]	Database Technologies [6]	Data Mining [6]
	THE PART 2 STAGE 2 EXAMINATION		

This programme is the fast-track 2 ¼ year programme.

This programme is the only entry point for Computing Major combined degree programme.

Study Skills for Science and Professional, Ethical and Legal Issues are two skills courses that do not count any units of credit. Students must pass both courses. Students will not be awarded a degree until they pass both courses

COMPUTING WITH ACCOUNTING AND FINANCE [BSc]

January Entry

All courses are 15 units, except where specified as 30 or 45 units.

	COMBINED PROGRAMMES		
	MAJOR		MINOR
Term	YEAR ONE		
1 Winter	Introduction to Computer Systems [4]	Structured Programming [4]	Introduction to Financial Accounting [4]
	*Study Skills for Science		
2 Spring	Introduction to Operating Systems [4]	Object-Oriented Programming [5]	Introduction to Management Accounting [4]
	THE PRELIMINARY EXAMINATION		
3 Summer	Principles of Database Systems [5]	Human-Computer Interaction [5]	Management Accounting [5]
4 Autumn	Software Engineering [6]	Principles of Computer Networks [5]	Financial Accounting [5]
	THE PART 1 EXAMINATION		
	YEAR TWO		
5 Winter	Software Project Management [6]	Project [6] (45 units)	Financial Reporting [6] (30 units)
	*Professional, Ethical and Legal Issues		
6 Spring	Internet and World Wide Web [5]	Project [6] (45 units)	Financial Reporting [6] (30 units)
	THE PART 2 STAGE 1 EXAMINATION		
7 Summer	Multimedia Systems [5]	Project [6] (45 units)	Taxation B [6]
8 Autumn	Cloud Computing [6]	Database Technologies [6]	Auditing [6]
	THE PART 2 STAGE 2 EXAMINATION		

This programme is the fast-track 2 year programme.

Study Skills for Science and Professional, Ethical and Legal Issues are two skills courses that do not count any units of credit. Students must pass both courses. Students will not be awarded a degree until they pass both courses

COMPUTING WITH ACCOUNTING AND FINANCE [BSc]

September Entry – 9 terms

All courses are 15 units, except where specified as 30 units or 45 units

	COMBINED PROGRAMMES		
	MAJOR		MINOR
Term	YEAR ONE		
1 Autumn	Introduction to Statistics [4]	Introduction to Computer Systems [4]	
	THE PRELIMINARY EXAMINATION		
2 Winter	Structured Programming [4]		Introduction to Financial Accounting [4]
	*Study Skills for Science		
3 Spring	Introduction to Operating Systems [4]	Object-Oriented Programming [5]	Introduction to Management Accounting [4]
	THE PRELIMINARY EXAMINATION		
4 Summer	Principles of Database Systems [5]	Human-Computer Interaction [5]	Management Accounting [5]
5 Autumn	Software Engineering [6]	Principles of Computer Networks [5]	Financial Accounting [5]
	THE PART 1 EXAMINATION		
	YEAR TWO		
6 Winter	Software Project Management [6]	Project [6] (45 units)	Financial Reporting [6] (30 units)
	*Professional, Ethical and Legal Issues		
7 Spring	Internet and World Wide Web [5]	Project [6] (45 units)	Financial Reporting [6] (30 units)
	THE PART 2 STAGE 1 EXAMINATION		
8 Summer	Multimedia Systems [5]	Project [6] (45 units)	Taxation B [6]
9 Autumn	Cloud Computing [6]	Database Technologies [6]	
	THE PART 2 STAGE 2 EXAMINATION		

This programme is the fast-track 2 ¼ year programme.

This programme is the only entry point for Computing Major combined degree programme.

Study Skills for Science and Professional, Ethical and Legal Issues are two skills courses that do not count any units of credit. Students must pass both courses. Students will not be awarded a degree until they pass both courses

COMPUTING WITH BUSINESS AND MANAGEMENT [BSc]**January Entry**

All courses are 15 units, except where specified as 30 units or 45 units

	COMBINED PROGRAMMES		
	MAJOR		MINOR
Term	YEAR ONE		
1 Winter	Introduction to Computer Systems [4]	Structured Programming [4]	Introduction to Management [4]
	*Study Skills for Science		
2 Spring	Introduction to Operating Systems [4]	Object-Oriented Programming [5]	Introduction to Business [4]
	THE PRELIMINARY EXAMINATION		
3 Summer	Principles of Database Systems [5]	Human-Computer Interaction [5]	Marketing 1 [4]
4 Autumn	Software Engineering [6]	Principles of Computer Networks [5]	Marketing 2 [5]
	THE PART 1 EXAMINATION		
	YEAR TWO		
5 Winter	Software Project Management [6]	Project [6] (45 units)	Consumer Behaviour [6]
	*Professional, Ethical and Legal Issues		
6 Spring	Internet and World Wide Web [5]	Project [6] (45 units)	Corporate Strategy and Strategic Management [6]
	THE PART 2 STAGE 1 EXAMINATION		
7 Summer	Multimedia Systems [5]	Project [6] (45 units)	International Business [6]
8 Autumn	Cloud Computing [6]	Database Technologies [6]	Human Resource Management [6]
	THE PART 2 STAGE 2 EXAMINATION		

This programme is the fast-track 2 year programme.

Study Skills for Science and Professional, Ethical and Legal Issues are two skills courses that do not count any units of credit. Students must pass both courses. Students will not be awarded a degree until they pass both courses

COMPUTING WITH BUSINESS AND MANAGEMENT [BSc]

September Entry – 9 terms

All courses are 15 units, except where specified as 30 units or 45 units

	COMBINED PROGRAMMES		
	MAJOR		MINOR
Term	YEAR ONE		
1 Autumn	Introduction to Statistics [4]	Introduction to Computer Systems [4]	
	THE PRELIMINARY EXAMINATION		
2 Winter	Structured Programming [4]		Introduction to Management [4]
	*Study Skills for Science		
3 Spring	Introduction to Operating Systems [4]	Object-Oriented Programming [5]	Introduction to Business [4]
	THE PRELIMINARY EXAMINATION		
4 Summer	Principles of Database Systems [5]	Human-Computer Interaction [5]	Marketing 1 [4]
5 Autumn	Software Engineering [6]	Principles of Computer Networks [5]	Marketing 2 [5]
	THE PART 1 EXAMINATION		
	YEAR TWO		
6 Winter	Software Project Management [6]	Project [6] (45 units)	Consumer Behaviour [6]
	*Professional, Ethical and Legal Issues		
7 Spring	Internet and World Wide Web [5]	Project [6] (45 units)	Corporate Strategy and Strategic Management [6]
	THE PART 2 STAGE 1 EXAMINATION		
8 Summer	Multimedia Systems [5]	Project [6] (45 units)	International Business [6]
9 Autumn	Cloud Computing [6]	Database Technologies [6]	
	THE PART 2 STAGE 2 EXAMINATION		

This programme is the fast-track 2 ¼ year programme.

This programme is the only entry point for Computing Major combined degree programme.

Study Skills for Science and Professional, Ethical and Legal Issues are two skills courses that do not count any units of credit. Students must pass both courses. Students will not be awarded a degree until they pass both courses

COMPUTING WITH COMMUNICATION STUDIES [BSc]

January Entry

All courses are 15 units, except where specified as 30 units or 45 units

	COMBINED PROGRAMMES		
	MAJOR		MINOR
Term	YEAR ONE		
1 Winter	Introduction to Computer Systems [4]	Structured Programming [4]	English Composition [4]
	*Study Skills for Science		
2 Spring	Introduction to Operating Systems [4]	Object-Oriented Programming [5]	Discourse and Debate [4]
	THE PRELIMINARY EXAMINATION		
3 Summer	Principles of Database Systems [5]	Human-Computer Interaction [5]	Intercultural Communication [6]
4 Autumn	Software Engineering [6]	Principles of Computer Networks [5]	Global Communication [6]
	THE PART 1 EXAMINATION		
	YEAR TWO		
5 Winter	Software Project Management [6]	Project [6] (45 units)	Diversity in English [6]
	*Professional, Ethical and Legal Issues		
6 Spring	Internet and World Wide Web [5]	Project [6] (45 units)	Change in English [6]
	THE PART 2 STAGE 1 EXAMINATION		
7 Summer	Multimedia Systems [5]	Project [6] (45 units)	Language and Society [6]
8 Autumn	Cloud Computing [6]	Database Technologies [6]	Language and Power [6]
	THE PART 2 STAGE 2 EXAMINATION		

This programme is the fast-track 2 year programme.

Study Skills for Science and Professional, Ethical and Legal Issues are two skills courses that do not count any units of credit. Students must pass both courses. Students will not be awarded a degree until they pass both courses

COMPUTING WITH COMMUNICATION STUDIES [BSc]**September Entry – 9 terms**

All courses are 15 units, except where specified as 30 units or 45 units

	COMBINED PROGRAMMES		
	MAJOR		MINOR
Term	YEAR ONE		
1 Autumn	Introduction to Statistics [4]	Introduction to Computer Systems [4]	
	THE PRELIMINARY EXAMINATION		
2 Winter	Structured Programming [4]		English Composition [4]
	*Study Skills for Science		
3 Spring	Introduction to Operating Systems [4]	Object-Oriented Programming [5]	Discourse and Debate [4]
	THE PRELIMINARY EXAMINATION		
4 Summer	Principles of Database Systems [5]	Human-Computer Interaction [5]	Intercultural Communication [6]
5 Autumn	Software Engineering [6]	Principles of Computer Networks [5]	Global Communication [6]
	THE PART 1 EXAMINATION		
	YEAR TWO		
6 Winter	Software Project Management [6]	Project [6] (45 units)	Diversity in English [6]
	*Professional, Ethical and Legal Issues		
7 Spring	Internet and World Wide Web [5]	Project [6] (45 units)	Change in English [6]
	THE PART 2 STAGE 1 EXAMINATION		
8 Summer	Multimedia Systems [5]	Project [6] (45 units)	Language and Society [6]
9 Autumn	Cloud Computing [6]	Database Technologies [6]	
	THE PART 2 STAGE 2 EXAMINATION		

This programme is the fast-track 2 ¼ year programme.

This programme is the only entry point for Computing Major combined degree programme.

Study Skills for Science and Professional, Ethical and Legal Issues are two skills courses that do not count any units of credit. Students must pass both courses. Students will not be awarded a degree until they pass both courses

COMPUTING WITH ECONOMICS [BSc]

January Entry

All courses are 15 units, except where specified as 30 units or 45 units

	COMBINED PROGRAMMES		
	MAJOR		MINOR
Term	YEAR ONE		
1 Winter	Introduction to Computer Systems [4]	Structured Programming [5]	Principles of Microeconomics [4]
	*Study Skills for Science		
2 Spring	Introduction to Operating Systems [4]	Object-Oriented Programming [5]	Principles of Macroeconomics [4]
	THE PRELIMINARY EXAMINATION		
3 Summer	Principles of Database Systems [5]	Human-Computer Interaction [5]	Microeconomic Theory [5]
4 Autumn	Software Engineering [6]	Principles of Computer Networks [5]	Microeconomic Policy [5]
	THE PART 1 EXAMINATION		
	YEAR TWO		
5 Winter	Software Project Management [6]	Project [6] (45 units)	ONE of: History of Economic Thought [6] Industrial Organisation and Strategy [6] Regulation and Privatisation [6]
	*Professional, Ethical and Legal Issues		
6 Spring	Internet and World Wide Web [5]	Project [6] (45 units)	ONE of: Health Economics and Policy [6] Public Sector Economics [6] Welfare Economics [5]
	THE PART 2 STAGE 1 EXAMINATION		
7 Summer	Multimedia Systems [5]	Project [6] (45 units)	ONE of: International Economics [6] Money, Banking and Financial Markets [6]
8 Autumn	Cloud Computing [6]	Database Technologies [6]	The Economics of Europe [5]
	THE PART 2 STAGE 2 EXAMINATION		

This programme is the fast-track 2 year programme.

Study Skills for Science and Professional, Ethical and Legal Issues are two skills courses that do not count any units of credit. Students must pass both courses. Students will not be awarded a degree until they pass both courses

COMPUTING WITH ECONOMICS [BSc]

September Entry – 9 terms

All courses are 15 units, except where specified as 30 units or 45 units

	COMBINED PROGRAMMES		
	MAJOR		MINOR
Term	YEAR ONE		
1 Autumn	Introduction to Statistics [4]	Introduction to Computer Systems [4]	
	THE PRELIMINARY EXAMINATION		
2 Winter	Structured Programming [4]		Principles of Microeconomics [4]
	*Study Skills for Science		
3 Spring	Introduction to Operating Systems [4]	Object-Oriented Programming [5]	Principles of Macroeconomics [4]
	THE PRELIMINARY EXAMINATION		
4 Summer	Principles of Database Systems [5]	Human-Computer Interaction [5]	Microeconomic Theory [5]
5 Autumn	Software Engineering [6]	Principles of Computer Networks [5]	Microeconomic Policy [5]
	THE PART 1 EXAMINATION		
	YEAR TWO		
6 Winter	Software Project Management [6]	Project [6] (45 units)	ONE of: History of Economic Thought [6] Industrial Organisation and Strategy [6] Regulation and Privatisation [6]
	*Professional, Ethical and Legal Issues		
7 Spring	Internet and World Wide Web [5]	Project [6] (45 units)	ONE of: Health Economics and Policy [6] Public Sector Economics [6] Welfare Economics [5]
	THE PART 2 STAGE 1 EXAMINATION		
8 Summer	Multimedia Systems [5]	Project [6] (45 units)	ONE of: International Economics [6] Money, Banking and Financial Markets [6]
9 Autumn	Cloud Computing [6]	Database Technologies [6]	
	THE PART 2 STAGE 2 EXAMINATION		

This programme is the fast-track 2 ¼ year programme.

This programme is the only entry point for Computing Major combined degree programme.

Study Skills for Science and Professional, Ethical and Legal Issues are two skills courses that do not count any units of credit. Students must pass both courses. Students will not be awarded a degree until they pass both courses

GRADUATE CERTIFICATE IN COMPUTING

July Entry

All courses are 15 units, except where specified as 30 units.

This programme of study is intended primarily for graduates from a non-computing background to obtain fundamental knowledge and understanding of a range of core subjects in IT and computing. The overall aims are to:

- Equip graduates who want to develop their careers in their own areas of speciality with a solid understanding and awareness of IT and computing
- Convert those who want to change their careers into the IT and computing field.

Term	
1 Summer	THREE of: Algorithms [5] Introduction to Computer Systems [4] Fundamentals of Database Systems [5] Structured Programming [5]
2 Autumn	THREE of: Database Technologies [6] Data Mining [6] Principles of Computer Networks [5] Object-Oriented Programming [5] Software Engineering [6]

Graduates who successfully complete the programme are eligible for entry into one of the masters degree programmes in the department.

GRADUATE DIPLOMA IN COMPUTING

January Entry Point for 12-month Programme

April Entry Point for 9-month Programme

This programme of study is intended primarily for graduates from any non-computing background to obtain fundamental knowledge and understanding on a range of core subjects in Computing. The overall aim of education is to either equip the graduates who want to develop their careers in their own areas of speciality with additional understanding and awareness of IT and Computing, or help those who want to change their careers into IT and Computing.

Term			Postgraduate Project/dissertation [6] ## (45 units)
1 Winter	ONE of: Introduction to Computer Systems [4] Mathematics for Computing [4]	Structured Programming [4]	
2 Spring	ONE of: Internet and World Wide Web [5] Introduction to Operating Systems [4]	ONE of: Information Security [6] Object-Oriented Programming [5]	
JUNE EXAMINATION			
3 Summer	ONE or TWO of: Data Structures and Algorithms [5] Human-Computer Interaction [5] Principles of Database Systems [5]	Interactive Computer Graphics [6]	
4 Autumn	ONE or TWO of: Database Technologies [6] Data Mining [6] Mobile Application Development OR Advanced Programming [5] Principles of Computer Networks [5] Software Engineering [6]		
DECEMBER EXAMINATION			

Notes:

This programme of study can be taken on a full-time basis (over 9 or 12 month period) or on a part-time basis over a period of no more than 24 months. For full-time students, the January entry point requires students taking 2 courses per term. Except for the last term, students cannot take two courses from the same slot. The April entry requires students taking 2 or 3 courses per term, and the courses must be approved by the Programme Director. For the part-time option, students can take less than 2 courses in a term or take a gap term, subject to the approval of the Programme Director.

This programme can be taken as a stand-alone or as a pre-Master in Computing qualification. Candidates who successfully complete the required 150 units of credit of the PG Diploma are eligible for entry to one of the masters programmes in the department.

Project

The project runs over 3 terms. A pass in the project is a requirement for the award of a degree. The degree will not normally be awarded a higher classification than that awarded to the project.

MSc/PG DIPLOMA in INNOVATIVE COMPUTING

January Entry

All courses are 15 units, except where specified as 30 units or 90 units

This programme of study aims to train first-degree holders in computing-related areas into specialists in selected areas of IT and computing. Based on the current expertise in the Department, the programme offers students opportunities for in-depth study in secure mobile and wireless communication systems, biometrics and authentication, information security, data mining and knowledge discovery, and web technologies and applications.

The programme is carefully designed to suit the varied needs of different students from different backgrounds and with different career objectives, in the IT fields.

Term			
1 Winter	Programming (Crash Course) [6]	Applied Imaging Techniques [7]	Project [7] ## (90 units)
	Research Methods [7] #		
2 Spring	Web Technologies and Applications [7]	Information Security in Communications [7]	Project [7] ## (90 units)
JUNE EXAMINATION			
3 Summer	Applied Techniques of Data Mining [7]	Mobile and Wireless Communications [7]	Project [7] ## (90 units)
4 Autumn	Project [7] ## (90 units)		
DECEMBER EXAMINATION			

Research Methods

Research methods is a skills course to be taken by all masters and research students. It does not carry any units of credit.

Project

The project runs over 4 terms. A pass in the project is a requirement for the award of a degree. The degree will not normally be awarded a higher classification than that awarded to the project.

MSc/PG DIPLOMA in APPLIED COMPUTING

All courses are 15 units, except where specified as 30 units or 90 units

This programme of study aims to train first-degree holders in computing-related areas into specialists in selected areas of IT and computing. Based on the current expertise in the Department, the programme offers students opportunities for in-depth study in secure mobile and wireless communication systems, biometrics and authentication, information security, data mining and knowledge discovery, and web technologies and applications.

The programme is carefully designed to suit the varied needs of different students from different backgrounds and with different career objectives, in the IT fields.

JANUARY ENTRY

Term			
1 Winter	Programming (Crash course) [6]	Applied Imaging Techniques [7]	Research Methods (Skills Course)
2 Spring	Web Technologies and Applications [7]	Information Security in Communications [7]	
JUNE EXAMINATION			
3 Summer	Applied Techniques of Data Mining [7]	Mobile and Wireless Communications [7]	Project [7] ## (90 units)
4 Autumn	ONE of: Database Systems [6] Software Engineering [6]		
DECEMBER EXAMINATION			
5 Winter	Project [7] ## (90 units)		
6 Spring			
PROJECT EXAMINATION			

Research Methods

Research methods is a skills course to be taken by all masters and research students. It does not carry any units of credit.

Project

A pass in the project is a requirement for the award of a degree. The degree will not normally be awarded a higher classification than that awarded to the project.

SEPTEMBER ENTRY

Term			
1 Autumn	ONE of: Database Systems [6] Software Engineering [6]	Research Methods (Skills Course)	
DECEMBER EXAMINATIONS			
2 Winter	Applied Imaging Techniques [7]	Programming (Crash course) [6]	
3 Spring	Web Technologies and Applications [7]	Information Security in Communications [7]	Project [7] ## (90 units)
JUNE EXAMINATIONS			
4 Summer	Applied Techniques of Data Mining [7]	Mobile and Wireless Communications [7]	Project [7] ## (90 units)
5 Autumn	Project [7] ## (90 units)		
DECEMBER EXAMINATIONS			
6 Spring	Project [7] ## (90 units)		
PROJECT EXAMINATION			

Research Methods

Research methods is a skills course to be taken by all masters and research students. It does not carry any units of credit.

Project

A pass in the project is a requirement for the award of a degree. The degree will not normally be awarded a higher classification than that awarded to the project.

APRIL ENTRY

Term			
1 Spring	Web Technologies and Applications [7]	Information Security in Communications [7]	
JUNE EXAMINATIONS			
2 Summer	Applied Techniques of Data Mining [7]	Mobile and Wireless Communications [7]	
3 Autumn	Programming (Crash course) [6]	ONE of: Database Systems [6] Software Engineering [6]	Research Methods (Skills Course)
DECEMBER EXAMINATIONS			
4 Winter	Applied Imaging Techniques [7]	Project [7] ## (90 units)	
5 Spring	Project [7] ## (90 units)		
JUNE EXAMINATIONS			
6 Summer	Project [7] ## (90 units)		
PROJECT EXAMINATION			

Research Methods

Research methods is a skills course to be taken by all masters and research students. It does not carry any units of credit.

Project

The project runs over 4 terms. A pass in the project is a requirement for the award of a degree. The degree will not normally be awarded a higher classification than that awarded to the project.