



Promoting excellence in higher education

Measuring Student Experience:
Relationships between Teaching
Quality Instruments (TQI) and
Course Experience Questionnaire
(CEQ)

Resource Document

2011

Lead Institution:

The University of Melbourne

Partner Institutions:

Australian Council for Educational Research Flinders University Graduate Careers, Australia University of Tasmania University of Wollongong

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2011

ISBN 978-1-921856-74-7

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APPENDIX A: INSTITUTIONAL PRACTICES - TQIS FROM AUSTRALIAN TERTIARY INSTITUTIONS¹

Table A.1: Names and acronyms given to subject specific teaching questionnaires at Australian tertiary institutions

Institution	Name of survey	Acronym
Australian Defence Force Academy (* also UNSW)	Course and Teaching Evaluation and Improvement	CATEI
Australian Graduate School of Management	Did not participate in survey.	
Bond University	Teaching Evaluations	TEVALS
Charles Darwin University	Student Experience of Learning and Teaching	SELT
Charles Sturt University	Student Evaluation System	SES
CQUniversity Australia	Teaching Evaluation Questionnaire	TEQ
Curtin University of Technology	eVALUate	eVALUate
Deakin University	Student Evaluation of Teaching and Units	SETU
Edith Cowan University	Unit and Teaching Evaluation Instrument	UTEI
Flinders University	Student Evaluation of Teaching	SET
Griffith University	Student Experience of Teaching	SET
James Cook University	Student Feedback about Teaching	SFT
La Trobe University	Student Evaluation of Teaching	SET
Macquarie University	Learner Experience of Teaching	LET
Monash University	Monash Questionnaire on Teaching	MonQueST
Murdoch University	Student Surveys of Teaching	SST
Queensland University of Technology	Student Evaluation of Teaching (Individual)	SET
RMIT University	Student Experience Survey	SES
Southern Cross University	Student Evaluation of Teaching	SET
Swinburne University of Technology	Teaching Evaluation	TE
The Australian National University	Student Evaluation of Teaching	SET
The University of Adelaide	Student Experience of Learning and Teaching	SELT
The University of Melbourne	Quality of Teaching	QOT
The University of New South Wales	Course and Teaching Evaluation and Improvement	CATEI
The University of Newcastle	Student Evaluation of Teaching	SET
The University of Notre Dame Australia	Teacher and Course Evaluation	TCE
The University of Queensland	Teaching Evaluations	TEVAL
The University of Sydney	Unit of Study Evaluation	USE
The University of Western Australia	Student Perceptions of Teaching	SPOT
University of Ballarat	Student Evaluation of Teaching	SET
University of Canberra	Teaching Questionnaire	TQ
University of New England	Evaluation of Lecturer Teaching Performance	ELTP
University of South Australia	Student Evaluation of Teaching	SET
University of Southern Queensland	Student Feedback on Teaching and Courses	SFTC
University of Tasmania	Student Evaluation of Teaching and Learning	SETL
University of Technology, Sydney	The Student Feedback Survey	SFS
University of the Sunshine Coast	Student Feedback on Teaching	SFT
University of Western Sydney	Student Feedback on Teaching	SFT
University of Wollongong	Teacher Evaluation Student Questionnaire	TESQ
Victoria University	Student Evaluation of Teaching	SET

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¹ This information was correct when surveyed (May-June 2006). Of course, institutional practices change regularly. The Australian Defence Force Academy uses the same evaluation form as The University of New South Wales. The Australian Catholic University does not currently evaluate teaching at present. Neither RMIT nor UTS responded to the survey. Information about their surveys was obtained from their web site.

Table A.2: Description of Australian TQIs

University name	Name of survey	Separate survey for Units/Subjects	Online or paper-based	Data collection period	Is survey compulsory?	Data available?	Number of questions on survey	Other questions?
Bond University	TEVALS	N	PB	16 years	Yes. (collected 3 times a year)		16 Likert qs: strongly agree – strongly disagree)	4 open questions plus an open response box
Charles Darwin University	Student Experience of Learning and Teaching (SELT)	Yes. HE and VET use marginally different surveys. Previous systems were: Questionnaire on Student Perceptions on Teaching (QSPOT); and Questionnaire on Unit/Module Evaluation Feedback (QUMEF)	Both	2 years	No, except for promotion purposes. There is also a separate Teacher Evaluation survey which is not compulsory.	No	8 Likert qs (7 = strongly agree; 1 strongly disagree)	2 open questions
Charles Sturt University	Student Evaluation System (SES)	No.	Online	1 year	Yes every year.	No. If there is a Memorandum of Understanding	11 Likert Qs 7 point scale	2 open questions
Central Queensland University Australia	Teaching Evaluation Questionnaire	N	PB		Yes. Once per year.		10 fixed Likert questions plus10 other questions	
Curtin University of Technology	eVALUate	Y Unit and teacher survey	OL	3 semesters from new system (Around 10 years old system)	Unit – Y Teaching – N	Unit – Y Teaching -No	For unit, 11 Likert (1 = strong disagree, to strong agree)	2 open questions
Deakin University	Student Evaluation of teaching and Unit	Y. There is one survey of 18 questions; questions 1-7 relate to the teaching of the unit (although not named teaching staff) while questions 8-18 are about the unit	OL. Phased in from 2004.	3 years	Yes. All units every semester	Case by case basis. Will need to run past Executive	5 Likert (1 = strongly disagree, 5 strongly agree	One open question
Edith Cowan University	Unit and Teaching Evaluation Instrument (UTEI)	Y. UTEI in three-parts: Unit, lecturing and tutoring	PB	2002. "Authenticated" data since 2004.	Yes.	Raw data confidential but available for approved research.	11 Likert (strongly disagree; strongly agree)	2 open questions
Flinders University	Student Evaluation of Teaching	N	PB	10 years	Yes, effectively mandatory. No SETs no tenure or promotion. 2 year intervals.		11 Likert (7= strongly agree; 1 = strongly disagree)	2 open questions

University name	Name of survey	Separate survey for Units/Subjects	Online or paper-based	Data collection period	Is survey compulsory?	Data available?	Number of questions on survey	Other questions?
Griffith University	Student Experience of Teaching (SET)	N	PB	One year	Yes	Would need permission granted by DVC (Academic)	10 Likert qs, 10 optional from question bank	3 open questions for comment
James Cook University	Student Feedback about Teaching (SFT)	N	PB	6 years	Yes.		16 Likert (1 = completely unacceptable; 5 = outstanding) 4 additional qs	
La Trobe University	Student Evaluation of Teaching	Y- Quality Assurance of Units (QAU)	Both	12 years	Yes. Compulsory for new staff and those who are applying for promotion. Optional for existing staff.	No standard form. Staff choose own questions	Lectures choose to make own survey from q bank. 20 maximum. 5 Likert scale (5 = True all the time, 1 = True none of the time	One open question.
Macquarie University	Learner Experience of teaching (LET)	Y – Learner experience of Unit	PB and OL	13 years.	No. In some divisions it is compulsory.	Confidential.	6 core Likert questions, up to 6 additional qs	2 open questions.
Monash University	MONash QUEstionnauireon Teaching (MonQueST)	Y- Student Evaluation of Units	OL	16 years	No. But needed for promotion	DVC permission needed	23 Likert questions (All or almost all – Entirely inappropriate)	1 open comment box
Murdoch University	Student Surveys of Teaching	Y. Student Surveys of Units	PB	Since 1993. (13 years)	No.	Confidential	15 Likert questions: strongly agree – strongly disagree	3 open-ended questions
Queensland University of Technology	(New) Student Evaluation of Teaching (Individual) (SET)	Y. Combined teaching and Unit Survey (SEUT) Quality of Unit and Teaching Student Survey (QUTSS). QUTSS is a minievaluation for each student and unit enrolled in	Both	9 years	Mandatory for all teaching staff who teach for minimum of 14 hours in a semester. Once a semester	Confidential	10 mandatory Likert questions and 10 optional 5 point scale?	Three open-ended comments
RMIT University	Student Experience Survey	N	PB	Did not respond to survey			6 Likert qs on good teaching scale	Other likert questions on generic skills, clear goals, overall satisfaction, workload, assessment, etc

University name	Name of survey	Separate survey for Units/Subjects	Online or paper-based	Data collection period	Is survey compulsory?	Data available?	Number of questions on survey	Other questions?
Southern Cross University	SET	N	OL	2 years	Yes	No, but future data may be made available.	6 Likert qs (1 = strongly disagree; 5 strongly agree). 8 additional likert qs from question bank	2 open questions.
Swinburne University of Technology	Teaching Evaluation	Y – Student Feedback on Subjects	PB, moving to OL	More than 10 years for SFS, SFT from 2006	No for Teaching Evaluation. Yes for Subject Evaluation	Raw data not available. Aggregated data may be made available.	12 Likert. Strongly disagree; strongly agree	4 open comment boxes (2 with Likert selection)
The Australian National University	SET	Y SET (Large group teaching) SET (course evaluation)	PB	Up to 11 years for some questions	No, but universal over a 2-3 year cycle.	No. Raw data is confidential.	7 Likert (1 = very poor; 7 excellent)	2 open questions
The University of Adelaide	Student Experience of Learning and Teaching (SELT). (Prior to 2001, SET)	Y (Course SELT) Introducing a program SELT that makes to CEQ questions.	РВ	13 years	Mandatory for promotion applications Teacher SELT every second year, course SELT every 3 rd year.	Y	7 Likert (1 = very poor-7 = outstanding)	2 comment boxes.
The University of Melbourne	Quality of Teaching (QOT)	N	РВ	10 years	Yes	Yes – with ethics clearance	9 Likert qs (strongly agree – strongly disagree)	Additional comments box
The University of New South Wales	Course and Teaching Evaluation and Improvement (CATEI)	Y. CATEI Evaluation of a Course	РВ	10 years	Yes. Every year in one course. Courses every two years.	N. Looking into deidentified data for course review.	10 Likert (strongly agree; strongly disagree)	2 comments boxes
The University of Newcastle	SET	N	PB	10 years	No.	No - Confidential	8 Standard question (Likert 5 = strongly agree; m1 = strongly disagree) Plus 4 + additional from question bank.	A separate page for written comments.
The University of Notre Dame Australia	Teacher and Course Evaluation (TCE)	N	PB, OL in 2-3 years	9 years (since 1997)	TCEs should be administered in all regular classes, but department chairs make the final decision. (In 2006 95% of courses were evaluated).	Confidential	13 Likert 5 scale: (No improvement needed; Major improvements are called for)	1 yes/no q. 4 additional Likert qs. 1 4 scale (Much more than average, less than average) 3 Likert 5 scale (Excellent, very poor)
The University of Queensland	Student Evaluation of Teaching (TEVAL)	Y.	PB	6 years	No. Only Course evaluation compulsory	No. Only if MOU	11 Likert questions (5 = strongly agree; 1 = strongly disagree	

University name	Name of survey	Separate survey for Units/Subjects	Online or paper-based	Data collection period	Is survey compulsory?	Data available?	Number of questions on survey	Other questions?
The University of Sydney	* does not focus on one teacher specifically. Uses "feedback for teachers" survey for teaching feedback.	Y. Student Course experience Questionnaire (SCEQ) and Course experience Questionnaire (CEQ)	PB	5 years.	No, however SET is compulsory for subjects.	No. ILT staff only	11 Likert questions (1 = strong disagree, 5 = strongly agree)	Each question asks for comments to explain the reasons for ranking.
The University of Western Sydney	Student Feedback on Teaching (SFT) (SEEQ Survey)	N	РВ	10 years	Yes Once per year.	N.	31 Likert. 1 = strongly disagree; 9 strongly agree) plus additional qs if wanted	2 comments boxes
University of Ballarat	SET	N	PB	7 years	Virtually compulsory within a rolling one-year period. Required for Performance Review and Development Plan	No – used for internal reporting only.	10 Likert questions	
University of Canberra	Teaching Questionnaire	Y. A Units questionnaire	PB	10 years	No.	No.	15 Likery qs. 12 optional questions.	5 open comment questions.
University of New England	Evaluation of Lecturer Teaching Performance	Y Student Feedback on Unit	РВ	9 years	No – conducted at the request of the lecturer. But must be used for promotion and becoming more widespread for performance reviews.	No, but permission may be granted with all identifying information removed	15 Likert (1 = strongly disagree; 6 = strongly agree)	2 comment boxes.
University of South Australia	SET	Y. Course Evaluation Instrument	Both	More than 6 years	Effectively mandatory	Generally confidential, but can possibly be used	10 Likert 5-point scale Strongly Agree, Agree, Neutral, Disagree, Strongly Disagree.	2 Open-ended questions
University of Southern Queensland	Student Feedback on Teaching and Courses (SFTC)	N	PB	10 + years	Until 2006 compulsory. Now "as appropriate"	No	11 Likert questions (5 = strongly agree; 1 = strongly disagree)	5 open comment questions
University of Tasmania	Student Evaluation of Teaching and Learning (SETL)	Υ	PB	13 years	Yes Teaching staff every 2 years Units every 3.	No.	10 Likert qs (1 = strongly disagree; 5 strongly agree)	3 open questions.
University of Technology Sydney	Did not respond to survey						8	
University of the Sunshine Coast	Student Feedback on Teaching (SFT)	Υ	РВ	5 years (informally); 5 years formally	Yes Once per year.	No	20 Likert questions 10 core items and up to 10 from item bank 5 point scale	3 open questions.

University name	Name of survey	Separate survey for Units/Subjects	Online or paper-based	Data collection period	Is survey compulsory?	Data available?	Number of questions on survey	Other questions?
University of Western Australia	Student Perceptions of Teaching (SPOT)	Y – Student Unit's Reflective Feedback	РВ	Since 1992 (14 years)	N – strongly endorsed but not mandatory	N	3 core Likert questions, rest chosen from item bank	
University of Wollongong	Teacher Evaluation Student Questionnaire	Y- Subject Evaluation Survey	PB, recently obtained approval for OL	14 years (since 1992)	Yes, compulsory. 4-6 surveys when going for promotion/probation	Y, permission from DVC	14 Likert. Strongly agree; Strongly disagree	2 open questions in separate mid-term Teacher Evaluation Student Questionnaire
Victoria University	Student Evaluation of Teaching (SET)	Y – Student Evaluation of Subjects (SES)	PB	6 Years	SET – Not compulsory, but recommended SES - Compulsory	No, but permission may be granted with all identifying information removed	Likert. 10 mandatory; 20 total.	

APPENDIX B: DATA FOR THE ANALYSIS OF AUSTRALIAN TQIS

Table B.1: Data used for each university

Table B.1: Data used t																							
University	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	⁷ Q18		Classified	Is Survey	Separate	Years
																			Questions	Questions	compulsory	Survey	used
Bond Univ.	1	1	1	0	0	1	1	1	0	0	1	1	1	1	0	0	0	1	16	11	1	0	16
Charles Darwin Univ.	1	0	1	0	0	0	0	1	0	0	1	1	1	1	0	0	0	0	9	7	0	1	2
Charles Sturt Univ.	1	0	0	0	0	1	0	1	0	1	1	1	1	0	0	1	1	0	9	9	1	0	1
CQUniv. Australia	0	1	0	0	1	0	1	1	0	0	0	1	1	1	0	1	0	1	9	9	1	0	
Curtin Univ. of Technology	1	0	0	0	0	0	0	1	1	0	0	1	1	1	0	1	1	1	11	9	0	11	10
Deakin Univ.	1	0	0	0	0	0	0	1	1	0	1	1	0	1	0	1	0	1	9	8	1	1	3
Edith Cowan Univ.	1	0	1	1	0	1	0	0	1	0	1	0	0	1	1	0	0	1	11	9	1	1	4
Flinders Univ.	0	1	1	1	1	1	1	0	0	0	1	0	0	1	0	0	1	1	12	10	1	0	10
Griffith Univ.	0	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1	9	9	1	0	1
James Cook Univ.	0	1	1	1	0	1	1	0	0	0	1	1	0	1	0	1	0	1	12	10	1	0	6
La Trobe Univ.	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	6	4	1	1	12
Macquarie Univ.	0	1	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	6	4	0	1	13
Monash Univ.	1	1	1	1	1	1	0	1	0	0	1	1	0	1	0	1	0	0	12	11	0	1	16
Murdoch Univ.	1	1	1	1	1	1	0	1	0	1	0	1	1	1	0	0	0	0	15	11	0	1	13
Queensland Univ. of	0	1	0	1	0	0	0	0	1	0	0	1	1	1	1	1	0	1	9	9	1	1	9
Technology																							
RMIT Univ.	1	1	0	0	0	1	0	0	1	0	1	1	0	0	0	0	0	1	7	7	0	0	-
Southern Cross Univ.	1	1	1	Ō	0	Ó	1	Ō	0	Ō	0	Ô	Ō	1	Ō	0	Ō	1	8	6	1	0	2
Swinburne Univ. of Technology	0	1	0	1	0	Ō	1	1	Ō	Ō	1	1	1	1	Ō	1	Ō	1	12	10	1	1	10
The Australian National Univ.	Ö	1	1	0	1	ő	Ô	Ô	Ô	Ô	1	1	0	1	Õ	Ö	Õ	1	9	7	0	1	11
The Univ. of Adelaide		1	1	1	0	ŏ	Õ	Õ	Ö	Ö	1	Ô	Ô	1	Ö	ő	Õ	1	8	6	0	1	13
The Univ. of Melbourne	1	0	0	0	0	0	0	1	0	0	1	1	0	1	0	1	0	1	8	7	1	0	10
The Univ. of New South Wales	Ö	1	Ô	Ô	0	ő	ñ	1	Ô	Ô	1	1	Ô	1	Õ	Ö	Õ	1	8	6	1	1	10
The Univ. of Newcastle	1	'n	1	0	Ö	Ĭ	ñ	1	1	0	Ö	1	1	Ö	Ö	ő	0	1	8	8	'n	'n	10
The Univ. of Notre Dame	1	1	1	1	1	Ιi	ñ	1	ò	Ô	0	1	1	1	Ô	ő	1	ò	13	11	1	ñ	9
Australia	'	•	•	•		l '	Ü	•	U	Ü					Ū	"		Ü	10			· ·	J
The Univ. of Queensland	0	1	1	1	1	1	1	Ω	0	0	1	1	0	1	0	0	0	1	10	10	0	1	6
The Univ. of Sydney	1	<u> </u>	-	<u></u>	0	'n		<u> </u>	1	0	1	-	<u> </u>	-	0	0	1	-	12	9	1	<u></u>	5
The Univ. of Western Australia	Ö	1	1	1	0	1	1	n	1	0	1	'n	n	1	0	0	Ó	1	9	9	'n	1	14
Univ. of Ballarat	1	'n	1	1	0	0	'n	0	'n	0	0	1	1	1	1	0	0	1	8	8	1	'n	7
Univ. of Canberra		1	1	0	0	1	0	1	0	0	1	1	1	0	0	0	1	1	15	10	0	1	10
Univ. of New England		0	1	0	1		1	1	0	0	0	1	1	1	0	1	0	1	14	11	0	1	9
Univ. of South Australia	1	0	0	0	0	1	1	1	1	0	1	1		<u> </u>	0	0	0	1	9	0	1	<u> </u>	6
Univ. of Southern Queensland		0	0	0	•	0	n	1	1	0	1	1	0	1	U	0	0	1	12	0	1	1	10
	1	1	1	0	0		0	1	0	0	1	1	0	0	0	_	0	1		8	1	0	
Univ. of Tasmania	0	1	1	0	1	1	1	1	1	•	1	1	0	0	0	0	-	0	12	9	1	1	13
Univ. of Technology, Sydney	1	1	T	0	0	0	U	U	0	0	1	1	1	U	0		0	1	8	ŏ o	U	U	
Univ. of the Sunshine Coast	1	1	0	1	0	0	1	0	0	0	0	1	1	1	0	0	0	1	8	8	1	U	4
Univ. of Western Sydney	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	18	15	1	0	10
Univ. of Wollongong	1	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	1	8	6	1	1	14
Victoria Univ.	1	1	0	0	0	0	1	0	1	0	1	1	0	1	1	0	0	1	9	9	1	1	6

Table B.2: The similarity or proximity matrix which shows the number of questions in common between the institution's questionnaire²

able B.2: The similarity o																																						
Universities	1	2	3	4	5	6	5	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23 2	24	25	26 2	27 2	28 2	29 .	30	31	32	33	34 3	35 3	36 <i>3</i>	7 38
1 Bond Univ.	11																																					
2 Charles Darwin Univ.	7	7																																				
3 Charles Sturt Univ.	6	5	9																																			
4 CQUniv. Australia	7	4	4	9)																																	
5 Curtin Univ. of Technology	6	5	6	6	3	9																																
6 Deakin Univ.	6	5	5	5	5	7	8																															
7 Edith Cowan Univ.	6	4	3	2	2 ,	4	5	9																														
8 Flinders Univ.	7	3	3	5	5 :	3	3	6	10																													
9 Griffith Univ.	7	5	4	6	6	5	5	5	5	9																												
10 James Cook Univ.	8	4	4	6	3	4	5	6	8	7	10																											
11 La Trobe Univ.	4	2	2	3	3 ;	3	3	2	2	3	3	4																										
12 Macquarie Univ.	3	2	1	3		2	2	2	3	3	4	2	4				l																					
13 Monash Univ.	8	6	6	6		5	6	6	7	6	8	3	4	11			l																					
14 Murdoch Univ.	8	6	6	6	6	5	4	5	6	5	6	3	4	9	11																							
15 Queensland Univ. of Technology	5	3	3	6	3 (6	5	5	4	7	6	3	4	5	5	9																						
16 RMIT Univ.	6	3	4	3	} '	4	5	5	4	4	5	4	2	5	4	4	7																					
17 Southern Cross Univ.	6	3	1	4	1 :	3	3	4	5	4	5	3	2	4	4	3	3	6																				
18 Swinburne Univ. of Technology	8	5	5	8	3 (6	6	4	6	7	8	3	4	7	6	7	4	4	10																			
19 The Australian National Univ.	6	4	2	5	5 :	3	4	4	6	6	6	3	3	6	5	4	4	4	5	7																		
20 The Univ. of Adelaide	5	3	1	3	3	2	3	5	6	5	6	2	3	5	4	4	3	4	5	5	6																	
21 The Univ. of Melbourne	6	5	5	5	5 (6	7	4	3	5	5	3	2	6	4	4	4	3	6	4	3	7																
22 The Univ. of New South Wales	6	4	3	5	5 4	4	5	3	4	5	5	3	3	5	4	4	4	3	6	5	4	5	6															
23 The Univ. of Newcastle	7	5	5	4	1 (6	5	5	3	4	4	3	1	5	6	4	5	3	4	3	2	4	3	8														
24 The Univ. of Notre Dame Australia	8	6	6	6	3 (6	4	5	7	5	6	3	4	9	10	5	4	4	6	5	4	4	4	6	11													
25 The Univ. of Queensland	8	4	3	6	3	3	4	6	9	6	9	3	4	8	7	5	5	5	7	7	6	4	5	4	7	10												
26 The Univ. of Sydney	7	5	4	4	1 (6	6	6	6	6	6	4	3	6	5	5	6	5	5	6	5	5	5	5	6	6	9											
27 The Univ. of Western Australia	7	3	2	4	1 :	3	4	7	8	5	8	2	3	6	5	5	5	5	6	5	6	3	4	4	5	8	6	9										
28 Univ. of Ballarat	6	5	3	4	1 :	5	4	6	4	6	5	3	3	5	6	6	3	4	5	4	4	4	3	5	6	5	5	4	8									
29 Univ. of Canberra	9	6	7	5	5 (6	5	5	6	6	6	4	2	7	7	4	6	4	6	5	4	5	5	7	8	6	7	5	5	10								
30 Univ. of New England	9	6	6	8	3	7	6	5	6	6	7	3	2	8	8	5	4	5	7	5	3	6	4	7	8	7	5	5	6	7	11							
31 Univ. of South Australia	7	5	4	5	5 (6	7	5	4	4	5	3	2	5	4	4	5	4	6	4	3	6	5	5	4	5	6	5	4	5	6	8						
32 Univ. of Southern Queensland	8	5	5	4	1 .	4	5	5	5	5	6	4	2	7	6	3	6	4	5	5	4	5	5	6	6	6	6	5	4	8	6	5	8					
33 Univ. of Tasmania	7	4	4	5	5 :	3	4	4	6	4	6	2	2	7	6	3	5	3	5	5	3	3	4	5	6	7	5	6	2	6	6	5	6	9				
34 Univ. of Technology, Sydney	7	5	5	5	5	5	5	4	4	7	6	4	2	6	5	5	5	4	6	5	4	5	4	5	5	5	6	4	5	7	6	4	6	4	8			
35 Univ. of the Sunshine Coast	7	4	3	6	6	5	4	4	5	5	6	4	4	5	6	6	4	5	7	4	4	4	4	4	6	6	5	5	6	5	6	5	4	3	5	8		
	10	6	8	9) ;	8	8	7	8	7	9	4	4	10	10	8	7	5	10	6	5	7	6	7	9	9	7	8	6	8	10	8	7	8	7	8	15	
37 Univ. of Wollongong	4	3	3	3		5	4	4	2	3	2	2	1	2	4	4	3	3	3	2	2	3	2	4	3	2	4	3	4	3	4	4	2	1	3	4	6	6
38 Victoria Univ.	5	7	5	4		3	5	6	6	5	6	6	4	3	5	4	6	6	5	6	4	4	5	5	5	5	5	4	6	7	5	7	5	5	6	8	4	6 9

Note that the diagonals indicate the total number of questions for each university (these are the Russell & Rao (1940) similarity measures multiplied by 18)

Table B.3: The similarity or proximity matrix for the questions in the TQI questionnaires which shows the number of universities that use questions from each type³

Questions	Q1	Q2	Q3	Q	4 (Q 5	Q6	Q7	Q	8 Q	9 (Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18
Q1-Clear Aims	2																•			
Q2-Explanations	14	1 2 [.]	7																	
Q3-Organised	14	1 1	7 2	22																
Q4-Motivation/Enthusiasm of Lecturer	7	7 1	3 1	0	15															
Q5-Respect	Ļ	5 9	9	8	6	10														
Q6-Access	12	2 1	3 1	4	9	8	1	7												
Q7-Teacher Knowledge	7	7 1:	2	8	7	6	;	8 1	4											
Q8-Overall Teaching Quality	15	5 1	1 1	0	5	7	1	1	7	19										
Q9-Motivation/Enthusiasm of Student	10) .	7	5	4	2	(6	5	6	13									
Q10-Student Knowledge	4	1 :	2	1	2	2	;	3	1	3	2	4								
Q11-Stimulating/Interesting/Motivating	15	5 19	9 1	6	9	6	1:	3 1	0	13	9	2	25							
Q12-Gave Feedback	22	2 2	3 1	7	11	9	14	4 1	1	19	10	3	21	32	?					
Q13-Assessment	14	1 1	1 1	0	7	5	;	8	6	12	5	4	8	17	18	}				
Q14-Students Needs and learning Skills	18	3 2	1 1	7	15	9	1	1 1	3	14	10	3	19	24	. 14	30)			
Q15-Receives Feedback	3	3 ;	3	3	3	0		1	1	0	3	0	3	4	. 3	5	5 5			
Q16-Teaching Method/Material/Aids used	8	3 8	8	5	5	4		5	5	9	4	2	9	13	9) 11	2	13	3	
Q17-Workload	į	5 4	4	4	2	2		4	1	4	2	1	4	5	5 4	4	- 0	2	2 (6
Q18-Overall effectiveness	20) 2:	2 1	7	11	6	1:	2 1	3	13	12	2	21	25	14	- 25	5 5	11	4	4 31

³ Note that the diagonals indicate the total number of universities that ask each question (these are the Russell & Rao (1940) similarity measures multiplied by 38)

APPENDIX C: DESCRIPTION OF NEW SURVEY INSTRUMENTS

Table C.1: Average responses for the CEQ and new TQI by University and Subject

	Questions	Flinders	Melbo	urne Woll	ongong			smania		
		1	:	2	1	2	3	4		5
	Course Evaluation Questionnaire (5 point scale)									
21:	The lecturers put a lot of time into commenting on my work	3.5	2.8	2.6	2.9	2.9	3.0	2.9	3.1	3
2:	The lecturers normally gave me helpful feedback on how I was going	3.5	2.9	2.8	3.1	3.0	3.3	3.2	3.2	3
23:	The lecturers of this course motivated me to do my best work	3.9	3.3	3.1	3.1	3.0	3.4	3.3	3.7	3
24:	My lecturers were extremely good at explaining things	4.2	3.7	3.0	3.5	2.7	3.6	3.5	3.9	3
25:	The lecturers worked hard to make their subjects interesting	4.1	3.8	3.4	3.3	3.0	3.5	3.6	4.1	3
6:	The lecturers made a real effort to understand difficulties I might be having with my work	3.9	3.2	3.2	3.3	2.9	3.3	3.2	3.4	3
27:	The course helped me develop my ability to work as a team member	3.7	3.7	2.7	3.8	3.0	3.1	3.1	3.2	3
28:	The course sharpened my analytic skills	3.8	3.6	3.6	3.5	3.3	3.4	3.5	3.8	3
29:	The course developed my problem-solving skills	3.9	3.6	3.7	3.5	3.5	3.6	3.6	3.6	3
C10:	The course improved my skills in written communication	3.8	3.3	3.0	3.8	3.2	3.4	3.4	3.8	3
211:	: As a result of my course, I feel confident about tackling unfamiliar problems	3.8	3.3	3.4	3.4	3.1	3.4	3.5	3.6	3
:12	My course helped me to develop the ability to plan my own work	4.0	3.5	3.5	3.5	3.3	3.6	3.5	3.7	3
213:	Overall, I was satisfied with the quality of this course	4.2	3.7	3.6	3.4	3.0	3.5	3.7	4.1	3
	Teaching Quality Indicators (5 point converted from a 4 point scale)									
N 1:	I had a clear idea of what was expected of me in this subject	4.3	3.6	3.7	3.7	2.9	3.5	3.5	3.6	4
12:	The lecturer was good at explaining the subject matter	4.2	4.0	3.1	3.4	2.4	3.6	3.7	4.2	4
13:	The lecturer was well organised	4.3	4.3	3.9	3.8	2.6	4.0	3.6	4.2	4
14:	The lecturer communicated enthusiasm for the subject area	4.3	4.1	3.4	3.7	2.9	3.8	3.6	4.4	3
15:	The lecturer treated students with respect	4.5	4.3	4.2	4.2	3.6	4.1	4.2	4.4	4
16:	The lecturer has been available to discuss problems and questions relating to my assignments or examinations	4.2	3.7	3.8	3.9	3.0	3.6	3.7	3.9	4
17:	The lecturer knew the subject matter well	4.6	4.4	4.2	4.2	3.5	4.2	4.4	4.5	4
18:	This subject was intellectually stimulating	3.9	3.5	3.8	3.2	2.6	3.4	3.3	4.2	3
19:	The lecturer assisted me in gaining a good understanding of the subject matter	3.9	3.7	3.4	3.5	2.6	3.4	3.6	4.0	3
N 10:	The lecturer motivated me to learn	3.8	3.3	2.9	3.0	2.3	3.3	3.3	3.7	3
N11:	· · · · · · · · · · · · · · · · · · ·	3.7	3.1	3.1	3.4	2.7	3.2	3.3	3.3	3
V12 :	The lecturer clearly explained what I was required to do in assessment items	4.3	3.7	3.5	3.8	2.3	3.7	3.7	3.7	4
113:	Lecturers showed an interest in the academic needs of the students	4.1	3.9	3.7	3.9	2.6	3.7	3.8	3.7	3
\14 :	There was effective use of computer-based teaching materials in this subject	4.3	3.8	3.9	3.6	3.3	3.4	3.5	3.9	3
N15:	The lecturer presented an appropriate amount of material for the time available	4.3	4.0	4.0	3.7	3.5	3.9	3.5	4.0	4
	Number of responses	55	465	125	166	35	52	35	41	4

Figure C.1: Questionnaire administered at Flinders University

Student Evaluation of Teaching					FLIN	DERS	5
MPORTANT INSTRUCTIONS We are testing these questions to identify the best way of capturing feedback from students. Your input is below and mark the box which is closest to your experience. Provide one response to each item on the form inside each box. Leave the box blank if the statement does not apply. If you want to change your answ Example:	orm. Co	mplete	using a	black or	blue per	n. Place	a cle
Activities within the subject provided relevant learning experiences							
I understood the concepts presented in this subject							
The subject content was presented at an appropriate pace							Ē
The subject content was presented at an appropriate level of difficulty							F
The teaching materials and resources were helpful in directing my learning							
Teaching materials and resources were culturally inclusive							
This subject helped me develop my thinking skills (e.g. problem solving, analysis)				Н		П	
My ability to work independently has increased	$\overline{}$						
I understood the assessment requirements of the subject							
I received useful feedback on my learning	\vdash						F
I was able to access quality support (e.g. from lecturers, other students, the university) when appropriate							-
Overall I was satisfied with the quality of this subject	\Box						-
				> 0	a)		>
				Strongly disagree	▲ Disagree	A Agree	Strongh
I had a clear idea of what was expected of me in this subject							
The lecturer was good at explaining the subject matter							
The lecturer was well organised							
The lecturer communicated enthusiasm for the subject area							
The lecturer treated students with respect							
The lecturer has been available to discuss problems and questions relating to my assignments or exami	nations						
The lecturer knew the subject matter well							
This subject was intellectually stimulating							
The lecturer assisted me in gaining a good understanding of the subject matter							
The lecturer motivated me to learn							
I received helpful feedback on how I was going in this subject							
The lecturer clearly explained what I was required to do in assessment items							
Lecturers showed an interest in the academic needs of the students							
There was effective use of computer-based teaching materials in this subject							
The lecturer presented an appropriate amount of material for the time available							
			≥ e	g.	8		<u>></u>
Please respond to these items by reflecting on your overall course			Strongly disagree	◆ Disagree	Undecided	Agree	Strong
The lecturers put a lot of time into commenting on my work							
The lecturers normally gave me helpful feedback on how I was going							
The lecturers of this course motivated me to do my best work							
My lecturers were extremely good at explaining things							
The lecturers worked hard to make their subjects interesting							
The lecturers made a real effort to understand difficulties I might be having with my work							
The course helped me develop my ability to work as a team member							
The course sharpened my analytic skills							
The course developed my problem-solving skills							
The course improved my skills in written communication							
As a result of my course, I feel confident about tackling unfamiliar problems							
My course helped me to develop the ability to plan my own work							
			2				

Figure C.2: Questionnaire administered at Wollongong University

MPORTANT INSTRUCTIONS We are testing these questions to identify the best way of capturing feedback from students. You elow and mark the box which is closest to your experience. Provide one response to each item of inside each box. Leave the box blank if the statement does not apply. If you want to change you cample:	on the	form. Co	omplete	using a l	black or	blue per	n. Place	a cle
	Strongly disagree	Disagree	▲ Mildly disagree	Mildly agree	Agree	Strongly agree	Unable to judge	M/A
n this subject the learning objectives were made clear to me								Е
The assessment criteria were clearly stated at the beginning of the subject								
Feedback on my work was provided to me in time to prepare for other assessment tasks								
This subject helped me gain a better understanding of an area of study								
My learning in this subject was well supported by access to lecturers								
My learning in this subject was well supported by access to other assistance								
My learning in this subject was well supported by learning tasks								
My learning in this subject was well supported by learning resources								
My learning in this subject was well supported by eLearning (if used)								
Overall I was satisfied with the quality of this subject								I
had a clear idea of what was expected of me in this subject					Strongly	◆ Disagree	▲ Agree	Strongly
The lecturer was good at explaining the subject matter					$\overline{\Box}$	$\overline{\Box}$	H	F
The lecturer was well organised					Н	Н		-
The lecturer communicated enthusiasm for the subject area					П			F
The lecturer treated students with respect					Н	Н		F
The lecturer has been available to discuss problems and questions relating to my assignments of	or exam	inations	:					F
The lecturer knew the subject matter well						П	П	Ī
Fhis subject was intellectually stimulating						$\overline{\Box}$		Ē
The lecturer assisted me in gaining a good understanding of the subject matter					П	П	П	Ī
The lecturer motivated me to learn					П	$\overline{\Box}$		Ī
received helpful feedback on how I was going in this subject								Ī
The lecturer clearly explained what I was required to do in assessment items								
ecturers showed an interest in the academic needs of the students.								
There was effective use of computer-based teaching materials in this subject								
The lecturer presented an appropriate amount of material for the time available								
Please respond to these items by reflecting on your overall course				Strongly disagree	◆ Disagree	Undecided	A Agree	Strongly
The lecturers put a lot of time into commenting on my work								
The lecturers normally gave me helpful feedback on how I was going								
The lecturers of this course motivated me to do my best work								
My lecturers were extremely good at explaining things								Ę
The lecturers worked hard to make their subjects interesting								
The lecturers made a real effort to understand difficulties I might be having with my work				Ш				
The course helped me develop my ability to work as a team member						Ш		
The course sharpened my analytic skills				Ц	Ц	Ц		Ę
The course developed my problem-solving skills					Ш	Ш		
The course improved my skills in written communication				Ш	Ш		Ш	Ę
As a result of my course, I feel confident about tackling unfamiliar problems								
My course helped me to develop the ability to plan my own work								

Figure C.3: Questionnaire administered at The University of Melbourne

IMPORTANT INSTRUCTIONS					
The Quality of Teaching Questionnaire uses standard questions to survey and compare subjects across all courses at T are an important contribution to the improvement of our courses. Provide one response to each item on the form. Comp x' inside each box. Leave the box blank if the statement does not apply. If you want to change your answer, fill in the en Example:	lete using tire box an	a black d mark	or blue pe the correc	en. Place	
	Strongly disagree	◆ Disagree	Neither agree nor disagree	Agree	Strongly
Please respond to these statements about the quality of teaching and challenges of the subject.					
had a clear idea of what was expected of me in this subject.					
This subject was well taught.					
This subject was intellectually stimulating.					
Please comment on your progress and involvement with other students and staff.					
I received helpful feedback on how I was going in this subject					
In this subject, lecturers showed an interest in the academic needs of the students.					
I felt part of a group of students and lecturers committed to learning in this subject.					
Please comment on whether there was good use made of computer-based teaching resources, e.g. interactive materials, a web-based home page for the subject, etc.					
There was effective use of computer-based teaching materials in this subject.					
Web-based materials for this subject were helpful.					
Finally, take all of these and other aspects of the subject into account.					
Overall, I was satisfied with the quality of the learning experience in this subject.					
		Strongly	Disagree	ee	Strongly
		Str	Dis	▲ Agree	Str
I had a clear idea of what was expected of me in this subject					E
The lecturer was good at explaining the subject matter					
The lecturer was well organised					Ī
The lecturer communicated enthusiasm for the subject area					
The lecturer treated students with respect					
The lecturer has been available to discuss problems and questions relating to my assignments or examinations					
The lecturer knew the subject matter well					
This subject was intellectually stimulating					
The lecturer assisted me in gaining a good understanding of the subject matter					
The lecturer motivated me to learn					
I received helpful feedback on how I was going in this subject					
The lecturer clearly explained what I was required to do in assessment items					
Lecturers showed an interest in the academic needs of the students					
There was effective use of computer-based teaching materials in this subject					
The lecturer presented an appropriate amount of material for the time available					
Please respond to these items by reflecting on your overall course	Strongly disagree	Disagree	Undecided	▲ Agree	Strongly
The lecturers put a lot of time into commenting on my work					
The lecturers normally gave me helpful feedback on how I was going					
The lecturers of this course motivated me to do my best work					
My lecturers were extremely good at explaining things					
The lecturers worked hard to make their subjects interesting					
The lecturers made a real effort to understand difficulties I might be having with my work					
The course helped me develop my ability to work as a team member					
The course sharpened my analytic skills					Ī
The course developed my problem-solving skills					E
The course improved my skills in written communication					Г
			F	F	F
As a result of my course, I feel confident about tackling unfamiliar problems					1
As a result of my course, I feel confident about tackling unfamiliar problems My course helped me to develop the ability to plan my own work					F

Figure C.4: Questionnaire administered at the University of Tasmania

IMPORTANT INSTRUCTIONS					
We are testing these questions to identify the best way of capturing feedback from students. Your input is very valuable tonest and serious with respect to your teaching and learning experiences. Please read each of the statements below our experience. Provide one response to each item on the form. Complete using a black or blue pen. Place a clear 'x he statement does not apply. If you want to change your answer, fill in the entire box and mark the correct box.	v and mar	k the box	which is	s closes	st to
Example: X or X	-				
	Strongly disagree	Disagree	ıtral	ee	Strongly
	Stro		Neutral	Agree	Str
The unit addressed the learning outcomes stated in the Unit Outline					
The criteria for each assessment component were clearly identified		H			-
The workload in this unit was appropriate				H	
There was reasonable opportunity for interaction with lecturers					-
I was given useful feedback on my assessment work					-
Submitted work was returned to me in a reasonable time frame				H	-
				Н	-
The unit stimulated my interest in the subject area					
I gained a good understanding of the subject matter I enhanced my skills in this unit					_
•		Н		Н	L
The unit was well taught					L
		Strongly disagree	Disagree	Agree	Strongly
		_		_	1
I had a clear idea of what was expected of me in this subject		Н		Н	F
The lecturer was good at explaining the subject matter				Н	L
The lecturer was well organised					L
The lecturer communicated enthusiasm for the subject area					L
The lecturer treated students with respect				Ш	Ļ
The lecturer has been available to discuss problems and questions relating to my assignments or examinations		Н			Ļ
The lecturer knew the subject matter well					L
This subject was intellectually stimulating					-
The lecturer assisted me in gaining a good understanding of the subject matter					Ļ
The lecturer motivated me to learn					Ļ
I received helpful feedback on how I was going in this subject		Щ		Ш	L
The lecturer clearly explained what I was required to do in assessment items					H
Lecturers showed an interest in the academic needs of the students		Н			-
There was effective use of computer-based teaching materials in this subject		Н		Щ	Ļ
The lecturer presented an appropriate amount of material for the time available			ш	Ш	
Please respond to these items by reflecting on your overall course	Strongly disagree	Disagree	Undecided	Agree	Strongly
The lecturers put a lot of time into commenting on my work					
The lecturers normally gave me helpful feedback on how I was going		$\overline{\Box}$			Ť
The lecturers of this course motivated me to do my best work					T
My lecturers were extremely good at explaining things					Ī
The lecturers worked hard to make their subjects interesting					Ī
The lecturers made a real effort to understand difficulties I might be having with my work					Г
The course helped me develop my ability to work as a team member					
The course sharpened my analytic skills					r
The course developed my problem-solving skills			П		F
The course improved my skills in written communication					Ī
As a result of my course, I feel confident about tackling unfamiliar problems					_
My course helped me to develop the ability to plan my own work					

APPENDIX D: FORM OF THE CEQ/GDS QUESTIONNAIRE

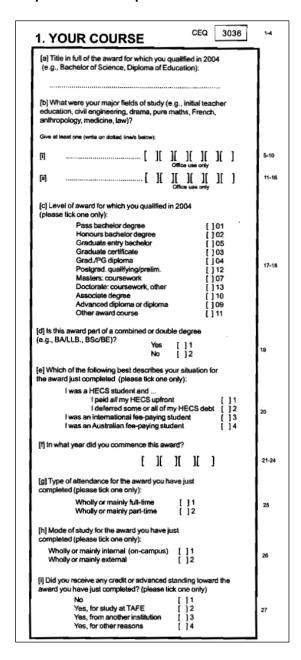
Figure D.1: The Course Experience Questionnaire for both majors

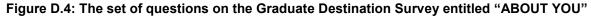
COURSE EXPERIENCE QUESTIONNAIRE The purpose of these questions is to collect graduates' perceptions of their university study						ı			Maria		
xperience. Please complete the following questions on the basis of your most recent program if study.	b	ease	Majo write se be	on di	otted				Major se write d line bek	on dotted	
The term 'course' in this context refers either to the degree you have just completed or o the major field/s of study which made up that degree.											
f you have completed a degree in a single major or field of study only (for example, medicine, engineering, architecture, pharmacy, education, law, physiotherapy), please use the left hand column of numbers only (headed "Major 1"). Name the field to which your responses apply please write on the dotted line) and circle your responses to the statements below.][EQ n	I][][1	[]	[]	Q major [][ce use, 2	11 11	
f you completed a double degree (such as arts/law or commerce/law) or a double major (for example, English and history, computer science and mathematics, psychology and sociology, pictory and zoology), please use both columns of numbers. Name one field at the top of peach column (please write on the dotted line) and circle your relevant response to the statements below.	Stronoty disagnee			9	Storighy agree		Strongly disagree		;	Srongly agree	
The staff put a lot of time into commenting on my work	T	2	3	4 :	5 22	•	1	2	3 4	5 24	-
I found my studies intellectually stimulating		2	3	4	5 ,2	1	1	2	3 4	5 20	
The teaching staff normally gave me helpful feedback on how I was going	Ť	2	3	4	5 22	2	1	2	3 4	5 271	
The course helped me develop my ability to work as a team member	- 1	2	3	4	5 22	3	1	2	3 4	5 274	
I found the course motivating	T.	2	3	4	5 2	•	1	2	3 4	5 276	
It was always easy to know the standard of work expected	1	2	3	4	5 7	ÿ	1	2	3 4	5 276	
The teaching staff of this course motivated me to do my best work	1	2	3	4	5 2	•	1	2	3 4	5 276	
The library resources were appropriate for my needs	-	2	3	4	5 23	,	1	2	3 4	5 200	
Overall, my university experience was worthwhile	1	2	3	4 :	5 P		1	2	3 4	5 20	
The course sharpened my analytic skills	1	2	3	4	5 22	۰	1	2	3 4	5 20	
My lecturers were extremely good at explaining things	1	2	3	4	5 23	•	1	2	3 4	5 💌	
The teaching staff worked hard to make their subjects interesting	1	2	3	4	5 2	•	1	2	3 4	5 34	
I felt part of a group of students and staff committed to learning		2	3	4	5 P	2	1	2	3 4	5 200	
Students' ideas and suggestions were used during the course		2	3	4	- 1		1	2	3 4	5 260	
I learned to explore ideas confidently with other people	1	2	3	4	5 ×	'	1	2	3 4	5 290	
The course developed my problem-solving skills		ı 2	3	4			1		3 4		
The staff made a real effort to understand difficulties I might be having with my work	1	1 2	3	4	5 24	•	1		3 4		
I usually had a clear idea of where I was going and what was expected of me in this cour	se i	2	3	4		7	1	2	3 4	5 200	
I felt I belonged to the university community		2					1		3 4		
The course improved my skills in written communication				4 !			1	2	3 4	5 300	
The study materials were clear and concise	1	1 2	3	4 !	5 .25	2	1	2	3 4	5 201	
The course has stimulated my interest in the field of study				4 :		4	1	2	3 4	5 300	
It was made clear what resources were available to help me learn					5 25		- 1		3 4		
It was often hard to discover what was expected of me in this course					5 *	•			3 4		
Course materials were relevant and up to date		2		noutmu		•			3 4	5 300	
As a result of my course, I feel confident about tackling unfamiliar problems		2				,	1	2	3 4	5 300	
My course helped me to develop the ability to plan my own work		2		do notine			1	NAME AND ADDRESS OF	3 4	and the same based	
I was able to explore academic interests with staff and students				4		•	1		3 4		
The staff made it clear right from the start what they expected from students				4 :		•	1			5 34	
Where it was used, the information technology in teaching and learning was effective		2			-			_	3 4	_	
Overall, I was satisfied with the quality of this course		2	3	4	5 *	•	1	2	3 4	5 317	

Figure D.2: The Graduate Destination Survey, the student ID and Graduation Date as recorded in the part of the survey

Please give your name so that it can	Family name [include previous name if relevant]
be deleted from the mailing list for follow-up questionnaires. It will not be disclosed to any outside	Student number Graduation ceremony date
organisation or individual.	Email address
	Postal Address This is a new address, please update my records []

Figure D.3: The set of responses for the questions entitled "YOUR COURSE"





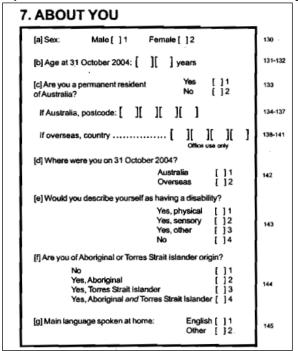
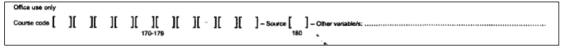


Figure D.5: The course code as recorded in the portion of the survey



APPENDIX E: DISTANCE MATRIX FOR RESPONSES TO CEQ AND NEW TQI SURVEY

Table E.1: Distance table for CEQ questions based on the responses for The University of Melbourne

	able E.1: Distance table for CEQ questions based on the respo	onses for The University of Melbourne
	Question	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
1	The staff put a lot of time into commenting on my work	0
2	I found my studies intellectually stimulating	434 0
3	The teaching staff normally gave me helpful feedback on how I was going	337 426 0
4	The course helped me develop my ability to work as a team member	541 539 512 0
5	I found the course motivating	440 335 424 502 0
6	It was always easy to know the standard of work expected	481 479 462 564 465 0
7	The teaching staff of this course motivated me to do my best	399 421 390 530 393 453 0
8	The library resources were appropriate for my needs	537 469 531 605 503 536 522 0
9	Overall, my university experience was worthwhile	453 324 439 523 366 479 430 448 0
10	The course sharpened my analytic skills	467 348 455 542 400 486 449 461 327 0
11	My lecturers were extremely good at explaining things	427 388 420 555 402 453 395 484 400 408 0
12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	415 388 412 547 400 472 388 487 398 418 325 0
13	I felt part of a group of students and staff committed to learning	448 420 430 495 410 494 416 518 413 440 421 398 0
14	Students ideas and suggestions were used during the course	466 478 450 522 469 508 459 539 479 486 455 436 427 0
	I learned to explore ideas confidently with other people	475 441 454 480 435 504 457 524 430 438 460 452 411 426 0
		499 400 479 498 428 503 478 505 398 357 452 462 451 475 402 0
	The staff made a real effort to understand difficulties I might be having with my work	434 486 416 550 468 494 419 554 484 496 447 439 456 456 468 489 0
	I usually had a clear idea of where I was going and what was expected of me in this course	452 433 428 547 425 386 428 507 425 446 419 422 444 476 458 460 428 0
19	I felt I belonged to the university community	543 529 524 548 516 551 524 576 496 532 528 532 466 520 491 520 526 504 0
20	The course improved my skills in written communication	500 461 506 595 479 543 499 520 452 424 467 465 506 524 489 485 522 498 562 0
		465 416 454 558 431 443 447 479 411 424 388 400 449 477 466 451 476 405 525 453 0
22	The course has stimulated my interest in the field of study	480 355 469 569 367 513 449 512 370 407 423 418 449 504 464 449 502 450 539 467 427 0
23		485 428 471 552 452 486 474 443 413 428 431 428 459 475 463 449 492 433 526 477 405 443 0
		522 510 504 614 515 455 513 565 507 518 493 500 527 547 543 542 529 424 583 562 479 531 495 0
		470 396 466 560 437 487 465 444 393 406 405 402 453 475 463 439 491 437 537 467 382 433 386 506 0
	As a result of my course, I feel confident about tackling unfamiliar problems	477 396 463 521 414 489 455 489 385 378 432 434 442 468 411 369 477 441 507 457 423 414 427 519 407 0
)	470 392 462 527 415 497 458 485 381 375 435 432 447 481 424 393 484 441 523 430 421 419 423 521 411 339 0
		452 434 434 526 429 503 423 519 431 445 439 428 416 448 409 450 436 449 483 490 453 440 451 531 456 417 408 0
		444 452 429 545 449 399 432 511 451 459 417 420 448 457 469 473 436 364 521 497 401 476 424 447 427 450 451 441 0
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	519 470 502 535 486 514 511 489 454 463 477 471 486 500 487 461 518 478 543 517 452 498 435 540 427 459 455 494 458 0
31	Overall, I was satisfied with the quality of this course	416 341 404 523 351 457 395 473 320 371 369 363 393 447 421 412 440 386 489 445 386 358 408 479 387 382 384 405 400 436 0

APPENDIX F: DESCRIPTIONS OF DATA USED IN CHAPTER 5

Figure F.1: Distribution of the Individual continuous variables.

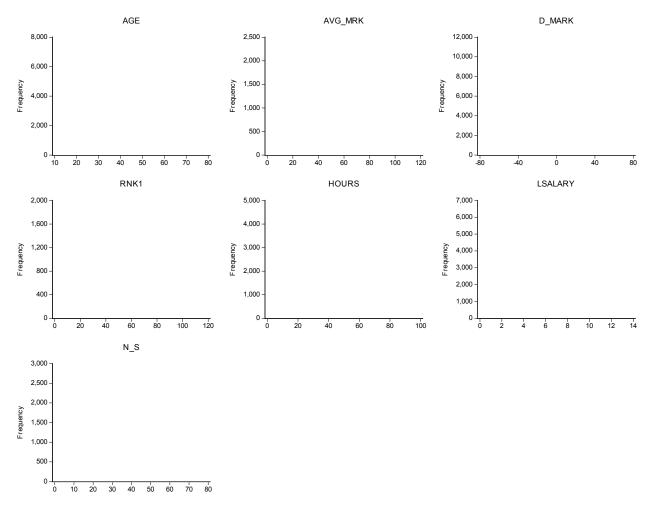


Figure F.2: Distribution of the Subject Specific continuous variables

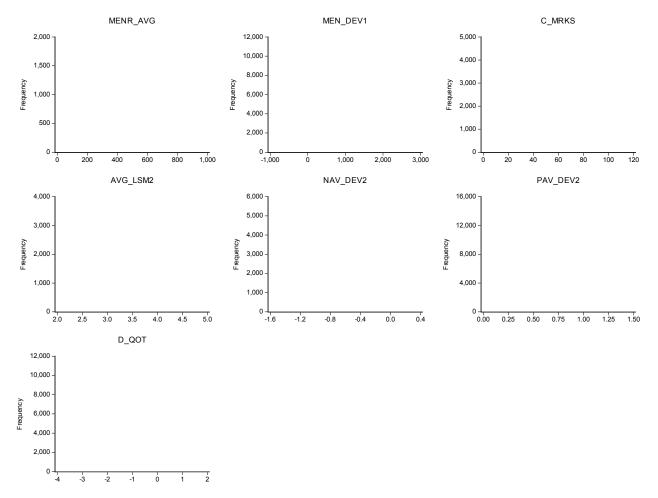


Figure F.3: Distribution of the CEQ responses

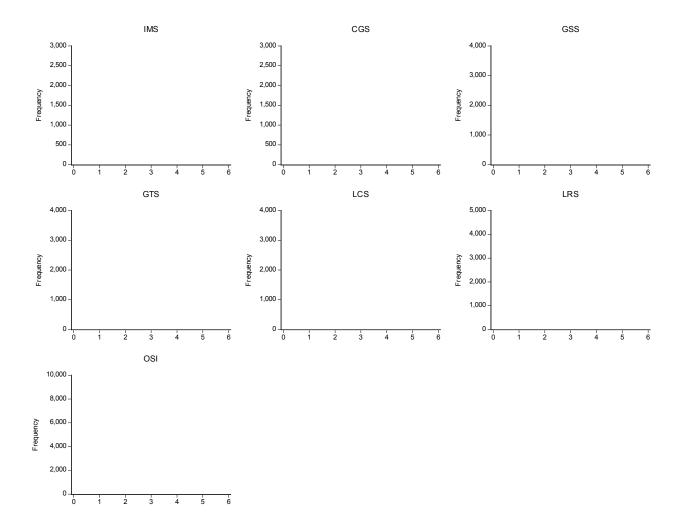


Table F.1: Distribution of graduates by faculty

Faculty	%
ARCH	4.71
ARTS	21.77
ECON	10.16
EDUC	5.01
ENGI	7.21
LAW	5.18
AGRI	4.30
MEDI	7.07
MUSI	2.04
SCI	29.03
VET	1.48
VCA	2.06

Table F.2: Distribution of responses for fixed effects used in Model #1 - Courses at The University of Melbourne

AWDSTRM1	%
BA	10.15
BCom	6.71
BSc	4.98
B.Arts	4.58
B.A. AA	3.81
BSc(Hons)	3.27
BA(Hons)	3.25
B.Com. AA	2.84
B.Com	2.26
B.Sc. BB	1.78
B.A.(Hons) AA	1.72
B.Sc	1.71
B.Sc.(Hons) AA	1.61
BMedSc	1.36
B.Sc(Hons)	1.27
B.Arts(Hons)	1.27
BCom(Hons)	1.23
MB BS	1.14
BBiomedSc	0.98
BArch	0.95
BCS	0.94
LLB	0.91
BIS	0.77
BMus	0.71
BPhysio	0.68
B.Com.(Hons) AA	0.66
M.B.& B.S. AA	0.64
BEd(Prim)	0.63
BTeach(Prim)	0.63
BE(SoftEng)	0.62
BVSc	0.59
B.Sc. AA	0.55
BA(Media&Comm)	0.55
BAgrSc	0.47
MBBS	0.47
B.Arch	0.46
B.Arch. AA	0.46
BASc	0.46
BECS	0.46
BE(Mech&ManufEng)	0.45
B.Com(Hons)	0.45
B.Physio. AA	0.44
LL.B. AA	0.44
BE(ChemEng)	0.42
BE(CivEng)	0.42
BE(ElecEng)	0.41
B.P.D.(Arch) AA	0.41
B.Teach.(Prim.) PR	0.41
B.E.(Chem) AC	0.40

AWDSTRM1	%
B.IS	0.40
MB BS(GE)	0.40
B.Teach(Prim)	0.39
BE(Mechtrc)	0.39
B.E.(Mech&Mnfg) AF	0.38
B.V.Sc. VS	0.38
B.Plan&Des(Arch)	0.38
B.A. ZA	0.37
B.Ed.(Prim.) CC	0.36
B.Mus	0.35
BBiomedScience AA	0.35
B.Physio	0.34
BPD(Arch)	0.34
B.Ed(Prim)	0.33
BSW	0.33
B.Eng(Mechtrc)	0.32
BCA	0.32
BCreative Arts CA	0.32
BDSc	0.31
B.BiomedSc	0.30
B.I.S. AA	0.30
B.Mus. AA	0.28
BAgr	0.28
B.Eng(Chem)	0.27
BGeomE	0.26
B.CreatArts	0.25
AdvDipAgr	0.24
B.EarlyChildStud	0.24
B.Eng(Civil)	0.24
B.Optom. AB	0.24
B.VetSc	0.23
B.AgrSc	0.23
B.Agr.Sc. AA	0.22
B.Optom	0.22
AdvDipHort	0.21
B.CompSc	0.21
B.E.(Software) SE	0.21
BOptom	0.21
BPC	0.21
BPD(PC)	0.21
B.E.(Civil) AV	0.21
B.Prop&Constr. PC	0.21
B.Arts(Media&Comm)	0.20
B.C.S. AA	0.20
B.D.Sc. AA	0.20
B.SocWrk	0.20
BCom(Mgt)	0.20
BE(CompEng)	0.20
B.For.Sc. AA	0.19

AWDSTRM1	%
B.MedSc	0.19
Dip.IS	0.19
B.P.D.(P&C) PC	0.19
BUPD	0.19
B.AppSc(Agr)	0.18
B.Eng(Sftwr)	0.17
B.E.(Electric.) EE	0.17
B.E.Child.St. BB	0.16
BE(EnvEng)	0.16
BNSc(AccIrt)	0.16
BVSc(PV)	0.16
Adv.Dip.Hort. AA	0.16
B.GeomEng	0.16
B.Teach.(Sec.) SC	0.16
BEd & Training AA	0.16
BPPM(Hons)	0.16
B.Plan&Des(PC)	0.15
BAgrSc(Hons)	0.15
BSc(Hons)(Psych)	0.15
B.PC	0.15
BGeoEng EG	0.15
BPubPol&Man(Hn) HN	
BSc(Hon)(Psych) PY	0.15
BEd&Tr	0.14
AdvDipForMgt	0.13
B.DentSc	0.13
B.S.W. AA	0.13
B.Sc(Hons)(Psych)	0.13
BAnimScMgt	0.13
BECS(PathwayProg)	0.13
BPPM	0.13
B.E.(Envir.Eng. AR	0.13
BMusPerf(OrchInstrm)	0.13
BResMgt	0.13
B.Eng(Mech&Manuf)	0.12
BA(Psych)(Hons)	0.12

AWDSTRM1	%
BDramArt	0.12
BForSc	0.12
B.Com(Mgt)	0.11
B.Teach(Sec)	0.11
BMus(Thrpy)	0.11
BUrbPlan&Dev AA	0.11
DipIS	0.11
B.App.Sc.(Agr) DA	0.10
B.C.S.(Hons) AA	0.10
B.Eng(Elec)	0.10
AdvDip.Agr	0.10
B.A.(Med&Comm) MC	0.10
BMusPerf(Hons)	0.10
DipOHT(DentThrpy)	0.10
B.App.Sc.(Hort) BH	0.09
B.Arts⪼	0.09
B.I.S (Hons) AA	0.09
B.Mus.Per-Or.In OI	0.09
B.VetSc(PV)	0.09
BA(Media&Comm)(Hons)	0.09
BDance	0.09
BDramArt(Prod)	0.09
BPC(Hons)	0.09
DipOHT(DentHyg)	0.09
AdvDip.Hort	0.09
BCreatArts(Hon) CA	0.09
BMusPerf(Improv)	0.09
Dip.M.LFrench FR	0.09
B.Agr	0.08
B.ForSc	0.08
BHort	0.08
BResMgt(Hons)	0.08
BSW(Hons)	0.08
BTeach(Sec)	0.08
All Others	4.97

Table F.3: Distribution of responses for fixed effects used in Model # 2 - Duties at Job since course completion

Duties	%
UNKNOWN	24.73
Int/Element Sales	4.76
Oth Bus, Info Prof	3.15
Int/Element Clerical	2.47
Computing Prof	2.24
Accountants, Auditors	2.12
Lawyer	2.05
Building and Plumbing	1.88
Primary Sch Teacher	1.78
Other Business and In	1.77
General Medical Pract	1.75
Uni Lecturer, Tutor	1.66
Int/Element Service	1.60
Bus/Admin Assoc Prof	1.45
Other Engineer	1.23
Adv Cleric, Serv Work	1.18
Physiotherapist	1.14
Business, Org Analys	1.07
Air Transport Profess	1.07
Environ, Ag Sci Prof	1.06
Architect, Lndsc Arch	1.04
Veterinarian	1.04
Chiropractors and Ost	1.02
Accountants	0.98
Human Resource Profes	0.98
Oth Tech, Assoc Prof	0.96
Mngng Superv SaleSvc	0.94
Secondary Sch Teacher	0.93
Extra-Systemic Teach	0.89
Bldg/Arch/Surv TechO	0.89
Social, Comm Worker	0.79
Primary School Teache	0.75
Tradesperson	0.69
Medical Sci Prof	0.68
Civil Engineer	0.68
Admin Assoc Prof	0.67
Optometrist	0.62
Visual Arts and Craft	0.62
Mech. Engineer	0.60
Prod/Transport Work	0.59
University Lecturers	0.57
Other Professional	0.55
Business and Organisa	0.55
Waiters	0.55
Auctioneers, and Stoc	0.46
Specialist Manager	0.44
Dental Practitioner	0.42
Life Scientist	0.39
Veterinarians	0.39

Duties	%
Other Social Prof	0.38
Artistic Directors, a	0.38
Policy Analyst	0.35
Marketing Specialist	0.35
Finance Assoc Prof	0.35
Middle School Teacher	0.34
Pre-Primary Teacher	0.33
Voc Ed Teacher	0.33
Other Social Professi	0.33
Oth Nat, Phys Sci	0.33
Financial Brokers	0.32
Dental Practitioners	0.32
Mechanical, Productio	0.31
Cartographer, Surv	0.30
Elect. Engineer	0.30
Other Building and En	0.30
Journalist, Related	0.29
Personnel Specialist	0.28
Musician, Composer	0.28
Other Managing Superv	0.28
Mathematician, Stat	0.28
Receptionists	0.26
Education Advisers an	0.26
Urban & Reg Planner	0.25
Sci Tech, Tech/Off	0.25
Other Professionals	0.25
Physiotherapists	0.25
Psychiatrists	0.24
Other Miscellaneous T	0.24
Journalists and Other	0.23
Electrical and Electr	0.23
Medical Technicians	0.23
Author, Related Prof	0.22
Photographers	0.22
Economist	0.20
Market Res Analyst	0.18
Medical Scientists	0.18
Film, Television, Rad	0.18
Mathematicians, Stati	0.18
Architectural, Buildi	0.18
Fashion, Industrial a	0.18
Geologist	0.17
Technical Sales Rep	0.17
Auditors, Company Sec	0.17
Early Childhood (Pre-	0.17
Manager, Admin	0.17
Dieticians	0.17
Checkout Operators an	0.16
Advertising Prof	0.15

Duties	%
Vis Arts, Crafts Prof	0.15
Farmer, Farm Manager	0.15
Chemist	0.15
Gallery, Library and	0.15
Bar Attendants	0.14
Quantity Surveyor	0.13
Contract, Program and	0.13
Children's Care Worker	0.13

Duties	%
Actuary	0.12
Med Tech, Tech/Off	0.12
Other Sales Support W	0.12
Farm Hands	0.11
Accounting Clerks	0.10
All Others	4.95

Table F.4: Distribution of responses for fixed effects used in Model #3 - Industry in which the graduate was currently employed

Industry	%
Unknown	24.71
Agriculture nfd	9.48
Wholesale & Retail	5.27
Higher Education	3.61
Hospital, Nursing Homes	3.07
Manufacturing	2.53
Legal and Accounting	2.17
Accounting Servs	2.17
Sheep, Beef Cattle &	2.09
Fruit & Tree Nut Grow	2.00
Accommodation, Cafe, Restaurants	1.99
Legal Services	1.98
Architectural Services	1.79
State Government	1.68
Primary Education	1.62
Hospitals and Nursing	1.58
Veterinary Services	1.45
Mushroom & Vegetable	1.37
Government Administration	1.36
Consultant Eng Services	1.25
Post School Education	1.24
Secondary Education	1.00
Dairy Cattle Farming	0.98
Federal/Community Government	0.94
Construction	0.92
Ag, Forest, Fishing	0.84
Medical, Dent Service	0.76
Packaging Services	0.76
Marketing and Business	0.73
Computer Services	0.71
Primary & Secondary Education	0.67
Technical Services	0.66
Cafes and Restaurants	0.66

Industry	%
Local Government	0.65
Communications Services	0.65
School Education: Primary	0.65
Other Personal Services	0.58
Technical Services: A	0.45
Medical and Dental Services	0.44
Central Government Administration	0.44
Other Crop Growing	0.43
Mining	0.42
Other Business Services	0.41
Airport Operations &	0.39
Water Transport Support	0.39
Supermarket and Grocery	0.38
Electric, Gas, Water	0.38
Other Education	0.36
Accommodation	0.35
Interest Groups	0.35
Scientific Research	0.33
Transport, Storage	0.33
School Education: Sec	0.32
Other Health Services	0.31
Recreational Good Ret	0.30
Specialised Food Retail	0.29
Pre-school, Kinder	0.28
Sport	0.24
Supermarket & Grocery	0.23
Services to Agriculture	0.22
Computer & Electronic	0.22
School Education: Com	0.20
All Others	4.98

Table F.5: Distribution of responses for fixed effects used in Model # 4 - Major as defined by DEST Codes

maj1	%
Teacher Education:	4.73
History	4.44
Psychology	4.40
Accounting	4.20
Banking & Finance	3.34
Political Science	3.20
Literature	2.85
Architecture	2.83
General Medicine	2.76
Law	2.55
Music	2.11
Computer Science	2.07
Electronic Engineer	1.99
Biological Sciences	1.95
Information Systems	1.91
Economics	1.88
Medical Science	1.79
Biochemistry & Cell	1.77
Agricultural Scienc	1.75
Zoology	1.67
Genetics	1.58
Microbiology	1.57
Veterinary Science	1.47
Criminology	1.47
Physiotherapy	1.45
Mathematics	1.39
Southern Europe Lan	1.36
Philosophy	1.31
Insurance & Actuarial	1.16
Chemical Sciences	1.06
Communication and M	1.05
Business Management	1.04
Horticulture	1.04
Fine Arts	1.04
Marketing	0.97
Chemical Engineering	0.95

maj1	%
Pharmacology	0.94
Audio Visual Studies	0.94
Eastern Asian Language	0.94
Civil Engineering	0.91
Mechanical Engineer	0.90
Physics	0.87
Human Geography	0.86
Building	0.84
Social Work	0.81
Anthropology	0.77
Written Communication	0.73
Pathology	0.70
Electrical Engineer	0.68
Optometry	0.67
Dentistry	0.67
Human Biology	0.65
Business & Management	0.62
Northern Europe Lan	0.56
Linguistics	0.55
Botany	0.54
Policy Studies	0.52
Earth Sciences	0.51
Forestry Studies	0.51
Archaeology	0.46
Urban Design & Regi	0.46
Drama & Theatre Stu	0.46
Animal Husbandry	0.45
Geomatics Engineering	0.44
Computer Engineering	0.43
Geology	0.39
Studies in Human So	0.38
Environmental Engineering	0.37
Land, Parks and Wildlife	0.32
Sociology	0.31
All Others	4.79

Table F.6: Distribution of responses for fixed effects used in Model #5 - The University of Melbourne department in which the majority of subjects were taken

UOM Department of Major	%
School of Culture and Communication	5.81
Law	4.44
Arch Build & Plan	4.33
School of Behavioural Science	4.26
School of Politics, Sociology and	
Criminology	4.11
School of Historical Studies	3.84
Medicine	3.82
Economics	3.58
Information Systems	3.31
Accounting & Business Info Systems	2.96
Mathematics & Statistics	2.69
Comp Science & Software Eng	2.57
Science & Math Education	2.45
Asia Institute	2.33
Management	2.31
Inst. of Land & Food Resources	2.18
Mechanical & Manufacturing Eng	2.18
Biochemistry & Molecular Biology	2.05
Music	2.03
Zoology	1.80
Civil & Environmental Eng	1.79
School of Social and Environmental	
Inquiry	1.65
Electrical & Electronic Eng	1.48
School of Languages & Linguistics	1.36
Chemical & Biomolecular Eng	1.31
School of Physiotherapy	1.29
Microbiology & Immunology	1.26
Chemistry	1.24
Vic Coll of the Arts	1.22

UOM Department of Major		%
Anatomy & Cell Biology		1.03
Science		1.03
French, Italian and Spanish Studies		1.02
Physiology		1.01
Genetics		0.99
AHCCA (Sch Arts Hist Cin Class	&	
Archeo)		0.93
Physics		0.93
School of Dental Science		0.89
Social Work		0.88
Veterinary Science		0.88
School of Philosophy		0.87
School of Creative Arts		0.77
Finance		0.76
Learning & Education Development		0.73
Optometry & Vision Sc		0.70
Earth Sciences		0.69
Geomatics		0.60
Mathematics & Statistics		0.58
Learning & Education Development		0.57
Pathology		0.49
Lang Literacy & Arts Education		0.48
Agriculture & Resource Mgt		0.46
Voc Education & Training		0.44
Botany		0.44
School of Music (VCA)		0.44
Pharmacology		0.42
German & Swedish Studies		0.42
All Others		4.87

Table F. 7: Distribution of responses for fixed effects used in Model #6 - Alternative DEST Major Code

Psychology 3.9 History 3.9 Law General 3.3 Accounting 3.3 Banking and Finance 3.2	94 39 33 27 76
History 3.9 Law General 3.3 Accounting 3.3 Banking and Finance 3.2	39 33 27 76 74
Law General 3.3 Accounting 3.3 Banking and Finance 3.2	33 27 76 74
Banking and Finance 3.2	27 76 74
Banking and Finance 3.2	76 74
1	74
Alcinecture 2.1	
Teacher Education: Primary 2.7	SQ
General Medicine 2.6	JO
Literature 2.6	33
Political Science 2.6	32
Computer Science General 2.5	51
Information Systems General 2.2	24
Music 2.2	20
Economics 1.9	93
Medical Science 1.8	38
Biochemistry and Cell Biology 1.8	36
Zoology 1.7	71
Agricultural Science 1.6	36
Genetics 1.5	58
Electronic Engineering 1.5	56
Mathematics 1.5	55
Biological Sciences nec 1.5	54
Microbiology 1.4	18
Criminology 1.4	16
Veterinary Science 1.4	16
Physiotherapy 1.4	
Southern European Languages 1.3	
Philosophy 1.3	37
Business Management 1.1	
Building General 1.0)5
Pharmacology 1.0	
Fine Arts 1.0	
Physics 1.0)3
Insurance and Actuarial Studies 1.0	
Teacher Education: Early Childhood 1.0	
Horticulture 1.0	
Chemical Sciences General 0.9	
Marketing 0.9	
Communication and Media Studies nec 0.9	
Chemical Engineering 0.9	92

n_ceqmj	%
Eastern Asian Languages	0.91
Social Work	0.91
Audio Visual Studies	0.88
Mechanical Engineering	0.86
Civil Engineering General	0.85
Human Geography	0.84
Anthropology	0.83
Written Communication	0.81
Teacher Education: Secondary	0.70
Dentistry	0.69
Optometry	0.67
Northern European Languages	0.64
Pathology	0.63
Business & Management General	0.63
Electrical Engineering	0.62
Human Biology	0.57
Archaeology	0.52
Policy Studies	0.52
Studies in Human Society nec	0.52
Biological Sciences General	0.51
Botany	0.50
inguistics	0.49
Earth Sciences General	0.48
Forestry Studies	0.48
Drama and Theatre Studies	0.46
Computer Engineering	0.44
Animal Husbandry	0.42
Teacher Education: Vocational	
Education and Training	0.42
Geomatic Engineering General	0.41
Jrban Design and Regional Planning	0.39
Geology	0.36
Environmental Engineering	0.34
Environmental Studies nec	0.33
Southeast Asian Languages	0.33
Sociology	0.32
_and, Parks and Wildlife Management	0.31
Ecology and Evolution	0.29
All Others	4.79

Table F.8: Distribution of responses for fixed effects used in Model #7 - Faculty of course and the level of the degree

Faculty	Level of Degree	%
FAC_SCI	Bachelor degree (pass)	21.95
FAC_ARTS	Bachelor degree (pass)	14.71
FAC_ECON	Bachelor degree (pass)	7.74
FAC_SCI	Bachelor degree (honours)	7.09
FAC_ENGI	Bachelor degree (pass)	6.98
FAC_MEDI	Bachelor degree (pass)	6.65
FAC_ARTS	Bachelor degree (honours)	6.62
FAC_LAW	Bachelor degree (pass)	4.81
FAC_EDUC	Bachelor degree (pass)	3.00
FAC_AGRI	Bachelor degree (pass)	2.67
FAC_ARCH	Bachelor degree (graduate)	2.42
FAC_ECON	Bachelor degree (honours)	2.37
FAC_ARCH	Bachelor degree (pass)	1.92
FAC_MUSI	Bachelor degree (pass)	1.81
FAC_EDUC	Bachelor degree (graduate)	1.74
FAC_VCA	Bachelor degree (pass)	1.65
FAC_VET	Bachelor degree (pass)	1.49
All Others		4.39

APPENDIX G: RESULTS BY DEPENDENT VARIABLES ACROSS MODELS.

Table G.1: Coefficient Estimates by CEQ Scale

Model								
1	2	3	4	5	6	7	- Effect	Туре
		-				nd Standa		
0.001703	0.004108**	0.004473***	0.002731	0.002493	0.002755	0.004859***	AGE _ Age based on census date	CE⁴
4.341511***	2.424957***	2.994222***	5.063023***	2.942186***	2.945535***	3.155126***	Intercept	CE
-0.10804**	0.063163*	0.060109*	0.019035	0.033876	0.007148	-0.00804	avg_lsm2 _ Avg q2 by LSMEAN	CE
0.000678	0.002831*	0.002894*	0.001239	0.001911	0.001164	0.00245	avg_mrk _ Avg Mark over all subjects taken	CE
-0.0008	-0.00099	-0.00087	-0.00078	-0.00088	-0.0009	-0.00105	c_mrks _ % of Close marks in subjects taken	CE
-0.00317**	-0.00241*	-0.00258**	-0.00309**	-0.00292**	-0.00307**	-0.00277**	d_mark _ Change in avg mark for last year	CE
0.05449**	0.039946	0.060915**	0.046285*	0.04119	0.037227	0.054616**	d_qot _ Change in avg qot for last year	CE
-0.00014	-0.00106	-0.00129**	-0.00041	0.000121	-0.00017	-0.00002	hours WORKING HOURS	CE
0.003227*	-0.00074	0.000652	0.003442*	0.003153*	0.003612*	0.004103**	Isalary _ Log (+1) of starting salary	CE
0.000162	0.00014*	0.000173	0.000154	0.000154	0.000012	0.000159	men_dev1 _ enrol - enr_avg	CE
-0.00006	-5.65E-6	-0.00003	9.772E-6	0.000134	0.0000122	-0.00009	menr_avg _ Average Enrolment over yrs	CE
-0.00034	0.000963	0.001067	0.000433	0.000122	0.000812	0.001109	n_s _ number of subjects taken	CE
0.21634**	0.239376***	0.223167***		0.348355***	0.250695***	0.206623***		CE
-0.0713	0.239376	0.223107	0.03998	-0.00285	0.230093	0.200023	nav_dev2 _ diff < 0 avg qot q2	CE
							pav_dev2 _ diff > 0 avg qot q2	
0.000471	0.00003	0.000085	0.000509	0.000219	0.000569	0.000204	rnk1 _ Avg rnk for last year	CE FS⁵
12.8743***	11.31167***	10.60796***		11.36743***	11.17371***	11.44184***		_
9.070961***	69.47192***			78.39164***		74.63006***	= *	FS
57.16642***	57.77282***	58.02907***		54.38779***	57.4899***	58.69312***	attend*fywork	FS
2.48454***	2.362881**	2.096974**		2.551313***		3.027431***	furlev _ LEVEL OF Further STUDY	FS
1.571499	3.439222***		1.425228	1.068119	1.683117	1.034779	level _ LEVEL OF QUAL	FS
9.30233***				8.269449***		10.48892***	n_cour _ number of courses reported on	FS
-0.12266	-0.01629	-0.02507	0 .	0 .	0 .	0 .	a_erb	RE ⁶
1.098619***	0.955627***	0.987385***	0.943463***	0.92764***	0.936618***	0.942891***	a_erb*a_erb	RE
				GSS	S _ Generi	c Skills		
-0.00574***	-0.00332**	-0.00357***	-0.00402***	-0.0047***	-0.00525***	-0.00433***	AGE _ Age based on census date	CE
3.265503***	203.644	3.869551***	3.743075***	-129.148***	-117.074***	3.127843***	Intercept	CE
0.031405	-0.07607**	-0.08356***	-0.03995	0.067968	-0.00936	0.040509	avg_lsm2 _ Avg q2 by LSMEAN	CE
0.001166	0.000174	0.000335	0.000624	0.000133	0.000365	0.001712	avg_mrk _ Avg Mark over all subjects taken	CE
0.000237	-0.0003	-0.0002	-0.00005	-0.00022	-0.00006	0.000056	c_mrks _ % of Close marks in subjects taken	CE
-0.00224**	-0.00232**	-0.00218**	-0.00207*	-0.00294***	-0.00222**	-0.00166	d_mark _ Change in avg mark for last year	CE
-0.00729	0.005879	0.011906	-0.008	-0.01901	-0.01727	0.007516	d_qot _ Change in avg qot for last year	CE
0.000523	0.000442	0.001019*	0.000465	0.000467	0.0002	0.000544	hours _ WORKING HOURS	CE
0.004163**	0.003132	0.003757**	0.004186***		0.004507***	0.004**	Isalary _ Log (+1) of starting salary	CE
0.00003	0.000024	0.000043	0.000053	8.581E-8	0.000071	0.000034	men_dev1 _ enrol - enr_avg	CE
-0.00001	-0.00007	-0.00012**	-0.00006	0.000071	0.000029	-0.00006	menr_avg _ Average Enrolment over yrs	CE
0.000806	0.001488**	0.001673***		0.001791**	0.000643	0.001333**	n_s _ number of subjects taken	CE
-0.02534	-0.01006	-0.11394*	0.043226	0.140092*	0.132787*	-0.09875	nav_dev2 _ diff < 0 avg qot q2	CE
0.073336	0.115236	0.211811**	0.137519	-0.00481	0.098431	0.175771	pav_dev2 _ diff > 0 avg qot q2	CE
0.002303***	0.002406***	0.002385***	0.002446***	0.002579***	0.002474***	0.00203***	rnk1 _ Avg rnk for last year	CE
1.781679*	1.747816*	1.748716*	1.79597*	1.72415*	1.624495	1.882622**	Country*SEX	FS
2.572622*	2.184481*	2.73415**	6.015676***		5.883906***	7.348119***	SURYR _ Year survey conducted	FS
3.124967***				3.398851***		4.065102***	attend*fywork	FS
1.729066*	2.388648**	2.827344***		1.889342**	1.667487*	2.285072**	furlev LEVEL OF Further STUDY	FS
		11.49133***		16.5953***	16.28055***		-	FS
3.970604***							level _ LEVEL OF QUAL	FS FS
1.604675	2.338981*	2.386519*	2.294242*	1.774152	2.390511*	2.068275	n_cour _ number of courses reported on	
1.457218***	1.522703***	1.561415***	1.490666***	1.513482***	1.477938***	1.523163***	a_erb	RE
-0.13901	-0.25029**	-0.28926***	-0.22053**	-0.25048***	-0.20541**	-0.24481**	a_erb*a_erb	RE

⁴ Levels of significance denoted by asterisks : * α = .1, ** α = .05, *** and α = .01.
⁵ The values reported are the *F*-statistics for the composite hypothesis that all estimated parameters are zero.

⁶ Levels of significance denoted by asterisks : * α = .1, ** α = .05, *** and α = .01.

1002881	odel	2	3	4	5	6	7	- Effect	Туре
0.00281			<u> </u>	7				Lifett	, y pe
1,58462 1,58802 2,38564 2,190228 1,167913	002881*	0.004527***	U UU\030***	0.004000**				AGE Age based on consus date	CE
0.0002449								= 0	CE
0.002479								•	CE
0.00138									CE
0.00348"									CE
0.01694	.00347***	-0.00318***	-0.0031***	-0.00304**	-0.00339***	-0.00277**	-0.0028**	d_mark _ Change in avg mark for last year	CE
0.00019 0.00082 0.00042 0.000888 0.002902 0.002895 0.002895 0.00281 salary _ Log (*1) of starting salary 0.00011 0.000011 0.000012 0.000101 0.000013 0.00011 0.000013 0.00011 0.000013 0.00011 0.000013 0.00011 0.000013 0.00011 0.000013 0.00011 0.000013 0.00011 0.000013 0.00011 0.000013 0.00011 0.000013 0.00011 0.000013 0.00011 0.000013 0.00011 0.000013 0.00011 0.00016 0.00017 0.00018 0.00016 0.00	.01694	-0.00205	0.020355	0.013455	-0.0095	0.001205			CE
0.000191	.00012	-0.00035	9.419E-6	-0.00002	-0.0001	0.00012	-0.00003		CE
0.000251	002139	-0.00082	0.000442	0.002658	0.002902	0.002959*	0.002853	Isalary _ Log (+1) of starting salary	CE
		0.000011		0.000199*	0.000102	0.000216**	0.000083	men_dev1 _ enrol - enr_avg	CE
	.00021***	-0.00027***	-0.00033***	-0.00017**	-0.00018**	0.000013	-0.00019***	menr_avg _ Average Enrolment over yrs	CE
0.01771 -0.01946 0.032588 0.012563 0.041911 0.152073 0.064967 pav dev2 diff > 0 avg got q2 0.002578" 0.0026278" 0.002638" 0.0020684" mlx Avg risk for last year 0.055190 0.02528" 0.002638" 0.002064" mlx Avg risk for last year 0.055190 0.02528" 0.002638" 0.002064" mlx Avg risk for last year 0.055190 0.002638" 0.002684" mlx 0.002638" 0.002684" mlx 0.002638" 0.002684" mlx 0.002684* m								n_s _ number of subjects taken	CE
									CE
1851064 0.572777 0.489341 0.748908 0.00333 0.069822 0.497333 0.0urtry*SEX 0.328603 0.388573 0.3874595 0.748908 0.788087 0.375465 0.3813154 JRFK "Fear survey conducted 0.3886373 0.3754684 0.375465 0.3813154 JRFK "Fear survey conducted 0.3866373 0.3754684 0.375465 0.3813154 JRFK "Fear survey conducted 0.3866373 0.3865873 0.386243" 0.328638" 0.328638" 0.328638" 0.328638" 0.328639" 0.3286388" 0.328638"									CE
									CE
1388678								•	FS
1.186024*** 3.158484*** 2.701773*** 3.805717*** 3.27493*** 3.384316*** 2.515054*** furlow LEVEL OF Further STUDY								-	FS
1,584552** 1,107881*** 10,64445*** 12,8081*** 23,87362*** 19,76671*** 1,900027** level LEVEL OF CUML LEVEL									FS
12.94179" 11.196" 10.45225" 9.236193" 8.485062" 6.471596" 8.210803" n. cour number of courses reported of 3.085139" 0.4888029" 0.512439" 0.492139" 0.492139" 0.475584" 0.7531463" a.erb a								-	FS
								-	FS
									FS
								_	RE RE
0.002722	290036	1.165095	1.100///	1.143990					KE
		0.000=1:::	0.00==:=::	0.00======					
									CE
0.00277								•	CE
									CE
0.00329*** -0.00342*** -0.0034*** -0.00394** -0.00367*** -0.00368** -0.00728 -0.00329** -0.00348 -0.00394** -0.00394** -0.00394** -0.00368** -0.00728 -0.00329** -0.00321** -0.00348** -0.00321** -0.00321** -0.00321** -0.00321** -0.00321** -0.00321** -0.00321** -0.00321** -0.00034** -0.00034** -0.00034** -0.00004** -0.00007** -0.00007** -0.00007** -0.00007** -0.00007** -0.00008** -0.00008** -0.00008** -0.00001** -0.00004** -0.00008** -0.00001** -0.00004** -0.00008** -0.00012** -0.00028** -0.000321** -0.00033** -0.00033** -0.00033** -0.00031** -0.00004** -0.00008** -0.00001** -0.00004** -0.00008** -0.00001** -0.0001** -0.00001** -0.00001** -0.0001** -0.0001** -0.0001** -0.0001** -0.0001** -0.0001** -0.0001** -0.0001									CE
0.003721 -0.00408									CE
0.001688** 0.00037									CE
0.000084									CE
								-	CE
									CE CE
0.0001									CE
0.315805*** 0.347249*** 0.290072*** 0.271013*** 0.2924 0.182621** 0.35838*** nav_dev2_ diff < 0 avg qot q2 0.06734 -0.03361** -0.00224 0.027401 -0.02824 0.080784 0.02804 pav_dev2_ diff > 0 avg qot q2 0.00341*** 0.003345** 0.003455** 0.003455** 0.003455** 0.003455** 0.003455** 0.003455** 0.003455** 0.00345** 0.00245** 0.00245** 0.00245** 0.00245** 0.00245** 0.00245** 0.00245** 0.00245** 0.00345** 0.00424** 0.00424** 0.00424** 0.00424** 0.00424** 0.003465** 0.00444** 0.00445**									CE
0.006734 0.03613 0.0022 0.027401 0.02824 0.080784 0.02804 pav_dev2_diff > 0 avg_qot_q2 0.003474*** 0.003411*** 0.003485*** 0.003255*** 0.003405*** 0.003239*** 0.00322*** rnk1_Avg_rnk for last year 0.093485*** 0.0683069 0.6847045 0.688049 0.522607 0.623687 0.00268** 0.000268** 0.0002									CE
0.003474*** 0.003411*** 0.003485*** 0.003325*** 0.003369*** 0.003328*** 0.00322*** mk1_Avg rnk for last year 0.017909 0.647405 0.601506 0.552202 0.688049 0.522607 0.623687 Country*SEX 0.83069 1.049899 5.709488*** 6.920656*** 5.4785554**** 6.357691** SURYR_Year survey conducted 0.352842*** 3.483593*** 4.584911*** 3.360223*** 3.606825*** 3.340098*** 3.707348									CE
0.917909									CE
1.834845									FS
3.352842*** 3.483593*** 4.584911*** 3.360223*** 3.606825*** 3.340098*** 3.707348*** attend*fywork 2.145381** 2.91479*** 2.73104*** 2.504144*** 1.797663* 1.913471** 1.917217** furlev_LEVEL OF Further STUDY 3.584497** 12.04744*** 12.47725*** 9.633226** 4.731295*** 8.451837*** 0.92235								-	FS
2.145381** 2.91479*** 2.73104*** 2.504144*** 1.797663* 1.913471** 1.917217** furlev _ LEVEL OF Further STUDY 3.584497*** 12.04744*** 12.47725*** 9.633226*** 4.731295*** 8.451837*** 0.92235 4.00283*** 2.086075*** 2.139788*** 2.044726*** 2.045564*** 2.015706*** 2.1017754*** a erb 4.03621*** -1.1497*** -1.19002*** -1.12377*** -1.12969*** -1.10043*** -1.18153*** a erb									FS
1.204744*** 12.47725*** 9.63326*** 4.731295*** 8.451837*** 0.92235 level _ LEVEL OF QUAL								•	FS
1.40218								-	FS
1.990333*** 2.086075*** 2.139788*** 2.044726*** 2.045764*** 2.015706*** 2.107754*** a_erb								_	FS
-1.03621***									RE
LRS									RE
-0.00287* -0.00255* -0.00358*** -0.00287** -0.00264* -0.00224 -0.00363*** AGE_Age based on census date -0.5527 -0.058089*** -118.511*** 3.721679*** 3.543853*** 86.35321 3.733014*** AGE_Age based on census date -0.0665 -0.05631* -0.04142 0.004924 0.031665 -0.02522 0.011429 avg_Ism2_Avg_Q2 by LSMEAN -0.002836** 0.001762 0.002036 0.002976** 0.002725** 0.002957** 0.003141*** avg_mrk_Avg_Mark over all subjects tage -0.00081 -0.00126** -0.00104* -0.0009 -0.00101* -0.00075 -0.00068 c_mrks_% of Close marks in subjects -0.01856 0.000038 -0.00009 0.000215 0.000504 0.000068 0.00019 0.000667 d_mark_Change in avg_mark for last year -0.00076 -0.00071 -0.0007 -0.00066 -0.00055 -0.00079* -0.00087* hours_WORKING HOURS -0.0006822*** 0.004761** 0.005477*** 0.006211*** 0.006021*** 0.000684*** 0.000029*** 0.000335*** 0.000359*** 0.000181*** 0.000181** 0.000059 -0.0001 -0.0001 -0.0001 -0.00004 -0.00018** 0.000029*** 0.000335** 0.000393 0.000677 0.000924 0.000055 0.0000258 n_s_number of subjects taken 0.349942*** 0.400135** 0.304168** 0.349574*** 0.352681*** 0.269265*** 0.263062*** nav_dev2_diff < 0.avg_qt_q2 -0.00012 0.000158 0.000034 -0.00004 -0.00004 -0.00005 -0.00036 rnk1_Avg_rnk for last year -0.00012 0.368083 0.334011 1.540899 1.735658 1.402005 2.082244 3.283001** 2.098589* 2.264128** 1.995246* 2.13246* 2.074052* 2.457055** 4.596993*** 4.312789*** 2.317466* 2.958351** 2.99801** 2.096269* n_cour_number of courses reported of the course reported of the cours	.0002.			20					
1.000665	00207*	0.00255*	0.00250***	0.00207**	_				CE
0.00665								_ •	CE
0.002836** 0.001762 0.00236 0.002976** 0.002725** 0.002957** 0.003141** avg_mrk_Avg Mark over all subjects to c_mrks_% of Close marks in subjects to c_mrks_width in subjects to c_mrks_% of Close marks in subjects to c_mrks_width in subjects								•	CE
-0.00081									CE
0.000038 -0.00009 0.000215 0.000504 0.000068 0.00019 0.000667 d_mark_ Change in avg mark for last year 0.01856 0.000636 0.000026 -0.01462 -0.01683 -0.01148 -0.0081 d_qot_ Change in avg qot for last year 0.00076 -0.00071 -0.0007 -0.00066 -0.00055 -0.00079* -0.00087* hours_ WORKING HOURS 0.00082**** 0.0004761*** 0.005477*** 0.006211**** 0.006484**** 0.006808**** lsalary_ Log (+1) of starting salary 0.00003 -0.0001 -0.00011 -0.00014 -0.000189*** 0.000097 -0.00012 men_dev1_enrol - enr_avg 0.00016 0.000249 0.00033 0.000677 0.00018*** 0.000441 0.000222**** men_avy_Average Enrolment over yr. 0.01753 0.04785 0.304168*** 0.349574*** 0.352681**** 0.269265**** 0.263062*** n_av_dev2_diff < 0 avg qot q2 0.00012 0.00015 0.00034 -0.0004 -0.00004 -0.00005 -0.00036 rnk1_Avg rnk for last year 1.731831*								5 = 5	CE
0.001856 0.000636 0.000026 -0.01462 -0.01683 -0.01148 -0.0081 d_qot_Change in avg qot for last year -0.00076 -0.00071 -0.0007 -0.00066 -0.00055 -0.00079* -0.00087* hours_WORKING HOURS lsalary_Log (+1) of starting salary men_dev1_enrol - enr_avg men_dev1_enrol - enr_avg men_dev1_enrol - enr_avg men_avg_Average Enrolment over yr:									CE
0.00076 0.00071 0.0007 0.00066 0.00055 0.00079* 0.00087* 0.00087* 0.006808*** 0.004761** 0.005477*** 0.006211*** 0.006021*** 0.006484*** 0.006808*** 0.006808*** 0.0001 0.00011 0.00011 0.00004 0.00008 0.00005 0.0001 0.000222*** 0.000335*** 0.000359*** 0.000181*** 0.000189** 0.000097 0.000222*** 0.000222*** 0.000249 0.00039 0.000677 0.00924 0.000641 0.000258 0.3040942*** 0.304168*** 0.349574*** 0.352681*** 0.269265*** 0.263062*** 0.00722 0.00722 0.00012 0.000158 0.000034 0.00004 0.00004 0.00005 0.00022 0.00039 0.000679 0.000222*** 0.000641 0.000258 0.000641 0.000258 0.000641 0.000258 0.000641 0.000258 0.000641 0.000258 0.000641 0.000258 0.000641 0.000258 0.000641 0.000258 0.000641 0.000258 0.000641 0.000258 0.000641 0.000258 0.000641 0.000258 0.000641 0.000258 0.000641 0.000258 0.000064 0.00064 0.00064 0.00064 0.00064 0.00064 0.00065 0.00064 0.00064 0.00064 0.00064 0.00064 0.00064 0.00064 0.00064 0.00065 0.00036 0.00036 0.00064 0.00064 0.00064 0.00065 0.00036 0.00064 0.00064 0.00064 0.00065 0.00036 0.00064									CE
0.006822*** 0.004761** 0.005477*** 0.006211*** 0.006021*** 0.006484*** 0.006808*** 0.006808*** 0.0001 0.0001 0.0001 0.00001 0.00001 0.00001 0.00001 0.000035*** 0.00035*** 0.000359*** 0.000181*** 0.000189** 0.000097 0.000222*** 0.000222*** 0.00018 0.000249 0.000393 0.000677 0.000924 0.000641 0.000258 0.3040942*** 0.304168*** 0.349574*** 0.352681*** 0.269265*** 0.263062*** 0.00022 0.000359** 0.000359*** 0.000359*** 0.304168*** 0.349574*** 0.352681*** 0.269265*** 0.263062*** 0.00022 0.00036 0.00022									CE
0.00003								_	CE
0.000209*** 0.000335*** 0.000359*** 0.000181*** 0.000189** 0.000097 0.000222*** menr_avg_Average Enrolment over yrange. 0.00016 0.000249 0.000393 0.000677 0.000924 0.000641 0.000258 n_s_number of subjects taken 0.340942*** 0.400135*** 0.304168*** 0.349574*** 0.352681*** 0.269265*** 0.263062*** nav_dev2_diff < 0 avg qot q2									CE
0.00016 0.000249 0.000393 0.000677 0.000924 0.000641 0.000258 n_s_number of subjects taken nav_dev2_diff < 0 avg qot q2 pav_dev2_diff < 0 avg qot q2 pav_dev2_diff > 0.04785 0.17533 -0.04785 -0.02266 -0.10227 -0.22363* -0.08969 -0.0722 pav_dev2_diff > 0 avg qot q2 pav_dev2_diff > 0 avg qot q2 pav_dev2_diff > 0.00015 1.731831* 1.42128 1.502509 1.526438 1.501209 1.316382 1.795387* Country*SEX 1.053991 0.368083 0.334011 1.540899 1.735658 1.402005 2.082244 SURYR_Year survey conducted attend*fywork 0.50712 1.339092 1.851902* 0.532893 0.724267 0.5336 0.775762 furley_LEVEL OF Further STUDY 0.693196 0.323884 1.638925 0.92584 0.82812 0.956667 2.108181* level_LEVEL OF QUAL 2.022536 4.596993*** 4.312789*** 2.317466* 2.958351** 2.9801** 2.096269* n_cour_number of courses reported on									CE
0.340942*** 0.400135*** 0.304168*** 0.349574*** 0.352681*** 0.269265*** 0.263062*** nav_dev2 _ diff < 0 avg qot q2 0.17533									CE
0.17533 -0.04785 -0.02266 -0.10227 -0.22363* -0.08969 -0.0722 pav_dev2_diff > 0 avg qot q2 -0.00012 0.000158 0.000034 -0.00004 -0.00004 -0.00005 -0.00036 rnk1_Avg rnk for last year -0.7731831* 1.42128 1.502509 1.526438 1.501209 1.316382 1.795387* Country*SEX -0.053991 0.368083 0.334011 1.540899 1.735658 1.402005 2.082244 SURYR_Year survey conducted 2.830001** 2.098589* 2.264128** 1.995246* 2.13246* 2.074052* 2.457055** attend*fywork -0.50712 1.339092 1.851902* 0.532893 0.724267 0.5336 0.775762 furlev_LEVEL OF Further STUDY -0.693196 0.323884 1.638925 0.92584 0.82812 0.956667 2.108181* level_LEVEL OF QUAL -1.00012								_ _ _	CE
0.00012 0.000158 0.00034 -0.0004 -0.0004 -0.00005 -0.00036 rnk1 Avg rnk for last year 1.731831* 1.42128 1.502509 1.526438 1.501209 1.316382 1.795387* Country*SEX 1.053991 0.368083 0.334011 1.540899 1.735658 1.402005 2.082244 SURYR_Year survey conducted 2.830001** 2.098589* 2.264128** 1.995246* 2.13246* 2.074052* 2.457055** attend*fywork 0.50712 1.339092 1.851902* 0.532893 0.724267 0.5336 0.775762 furlev_LEVEL OF Further STUDY 0.693196 0.323884 1.638925 0.92584 0.82812 0.956667 2.108181* level_LEVEL OF QUAL 2.022536 4.596993*** 4.312789*** 2.317466* 2.958351** 2.9801** 2.096269* n_cour_number of courses reported on									CE
1.731831* 1.42128 1.502509 1.526438 1.501209 1.316382 1.795387* Country*SEX 1.053991 0.368083 0.334011 1.540899 1.735658 1.402005 2.082244 SURYR_Year survey conducted 2.830001** 2.098589* 2.264128** 1.995246* 2.13246* 2.074052* 2.457055** attend*fywork 0.50712 1.339092 1.851902* 0.532893 0.724267 0.5336 0.775762 furlev_LEVEL OF Further STUDY 0.693196 0.323884 1.638925 0.92584 0.82812 0.956667 2.108181* level_LEVEL OF QUAL 2.022536 4.596993*** 4.312789*** 2.317466* 2.958351** 2.9801** 2.096269* n_cour_number of courses reported on the course of course of courses reported on the course of									CE
1.053991 0.368083 0.334011 1.540899 1.735658 1.402005 2.082244 SURYR_Year survey conducted 2.830001** 2.098589* 2.264128** 1.995246* 2.13246* 2.074052* 2.457055** attend*fywork 0.50712 1.339092 1.851902* 0.532893 0.724267 0.5336 0.775762 furlev_LEVEL OF Further STUDY 0.693196 0.323884 1.638925 0.92584 0.82812 0.956667 2.108181* level_LEVEL OF QUAL 2.022536 4.596993*** 4.312789*** 2.317466* 2.958351** 2.9801** 2.096269* n_cour_number of courses reported on the course of course of courses reported on the course of course of courses reported on the course of course									FS
2.830001** 2.098589* 2.264128** 1.995246* 2.13246* 2.074052* 2.457055** attend*fywork 0.50712 1.339092 1.851902* 0.532893 0.724267 0.5336 0.775762 furlev_LEVEL OF Further STUDY 0.693196 0.323884 1.638925 0.92584 0.82812 0.956667 2.108181* level_LEVEL OF QUAL 2.022536 4.596993*** 4.312789*** 2.317466* 2.958351** 2.9801** 2.096269* n_cour_number of courses reported o								•	FS
0.50712 1.339092 1.851902* 0.532893 0.724267 0.5336 0.775762 furlev_LEVEL OF Further STUDY 0.693196 0.323884 1.638925 0.92584 0.82812 0.956667 2.108181* level_LEVEL OF QUAL 2.022536 4.596993*** 4.312789*** 2.317466* 2.958351** 2.9801** 2.096269* n_cour_number of courses reported on the course of cou									FS
0.693196								<u> </u>	FS
2.022536 4.596993*** 4.312789*** 2.317466* 2.958351** 2.9801** 2.096269* n_cour_number of courses reported o								-	FS
								n_cour _ number of courses reported on	FS
1.11947*** 1.175391*** 1.195888*** 1.157806*** 1.137979*** 1.156826*** 1.153682*** a erb									RE
0.20225** 0.07175 0.061105 0.11062 0.14421* 0.121848 0.13162 a_erb*a_erb								_	RE

Model								
1	2	3	4	5	6	7	Effect	Туре
				OSI_	Overall Sa	tisfaction		
-0.00408*	-0.00261	-0.00178	-0.00186	-0.00257	-0.00231	-0.00226	AGE _ Age based on census date	CE
4.691054	-2.61544***	3.574119***	-4.39494***	3.078296***	13.33883	2.366437**	Intercept	CE
0.184715***	0.083809*	0.102834**	0.083487	0.078259	-0.11984*	0.264366***	avg_lsm2 _ Avg q2 by LSMEAN	CE
0.003906**	0.002655	0.002333	0.003915**	0.003196	0.004102**	0.004772**	avg_mrk _ Avg Mark over all subjects taken	CE
0.000162	-0.00032	-0.00034	-0.00022	-0.00038	-0.00034	-0.00013	c_mrks _ % of Close marks in subjects taken	CE
-0.00308**	-0.00351**	-0.00328**	-0.00275*	-0.00355**	-0.00298*	-0.0024	d_mark _ Change in avg mark for last year	CE
-0.00568	0.001247	0.023906	0.011667	0.002123	-0.0003	0.025185	d_qot _ Change in avg qot for last year	CE
0.000578	0.001024	0.001526*	0.000613	0.000739	0.000612	0.000548	hours _ WORKING HOURS	CE
0.006102***	0.005272*	0.005267**	0.00621***	0.006095***	0.006556***	0.006347***	Isalary _ Log (+1) of starting salary	CE
-0.00003	-0.00009	-0.00006	-0.00004	-0.00013	-0.00001	-0.00005	men_dev1 _ enrol - enr_avg	CE
-0.00009	-0.00013	-0.00015*	-0.00003	0.000019	-0.00004	-0.00004	menr_avg _ Average Enrolment over yrs	CE
-0.00059	0.000157	0.000069	0.000457	0.000402	0.000825	0.000293	n_s _ number of subjects taken	CE
0.403102***	0.46559***	0.397554***	0.396062***	0.447859***	0.27171***	0.374579***	nav_dev2 _ diff < 0 avg qot q2	CE
-0.07389	-0.07409	0.042997	0.037962	0.055283	0.12255	0.059955	pav_dev2 _ diff > 0 avg qot q2	CE
0.003026***	0.003033***	0.003147***	0.002921***	0.003117***	0.003032***	0.002489***	rnk1 _ Avg rnk for last year	CE
1.134225	0.835894	0.88413	0.81946	1.001547	0.91608	0.989681	Country*SEX	FS
0.748619	0.982842	0.972741	2.451933*	2.405507*	2.267893*	2.59079*	SURYR _ Year survey conducted	FS
4.701615***	5.139738***	6.221694***	5.135022***	4.668304***	5.205842***	5.588696***	attend*fywork	FS
1.533271	1.873728*	1.761072*	1.817907*	1.531761	1.641802*	1.375226	furlev _ LEVEL OF Further STUDY	FS
1.995007*	49.88052***	2.176664*	0.99854	1.986615*	1.268993	0.30871	level _ LEVEL OF QUAL	FS
1.031647	1.560942	1.560363	1.07436	0.684343	0.810987	0.878207	n_cour _ number of courses reported on	FS
1.34916***	1.37898***	1.373116***	1.337631***	1.332579***	1.325031***	1.363555***	a_erb	RE
0 .	-0.03081	0 .	0 .	0 .	0 .	0 .	a_erb*a_erb	RE

Table G.2: R-square for each model

		Model							
Depend	dent Variable	1	2	3	4	5	6	7	
CGS	Clear Goals and Standards	0.18	0.16	0.14	0.14	0.15	0.14	0.13	
IMS	Intellectual Motivation	0.21	0.20	0.19	0.19	0.20	0.21	0.18	
LRS	Learning Resources	0.21	0.18	0.17	0.18	0.19	0.19	0.17	
GSS	Generic Skills	0.23	0.21	0.20	0.20	0.21	0.22	0.19	
GTS	Good Teaching	0.26	0.24	0.23	0.24	0.24	0.26	0.22	
OSI	Overall Satisfaction	0.17	0.15	0.14	0.14	0.15	0.15	0.13	

Table G.3: Descriptive statistics of the variables used in the analysis.

Variable	Label	Observat	ions Mean	StdDev	Min	Max
GTS	Good Teaching	17218	3.38	0.81	0.00	5.00
GSS	Generic Skills	17217	3.73	0.73	0.00	5.00
OSI	Overall Satisfaction	17167	3.84	0.98	0.00	5.00
CGS	Clear Goals and Standards	12899	3.13	0.70	0.00	5.00
IMS	Intellectual Motivation	17216	3.98	0.84	0.00	5.00
LRS	Learning Resources	17207	3.71	0.70	0.00	5.00
n_s	number of subjects taken	17223	19.92	12.85	1.00	71.00
n_cour	number of courses reported on	17223	1.55	0.69	1.00	4.00
num	number of questions answered	17223	30.43	2.98	0.00	32.00
own_cm	Proportion of close marks received	17223	80.0	0.06	0.00	0.50
avg_mrk	Avg Mark over all subjects taken	17223	72.60	8.14	2.00	100.00
rnk1	Avg rnk for last year	17223	58.06	21.72	0.50	100.00
d_mark	Change in avg mark for last year	17092	1.39	5.73	-57.00	74.00
c_mrks	% of Close marks in subjects taken	17223	11.54	11.96	0.00	100.00
avg_lsm2	Avg q2 by LSMEAN	16341	3.94	0.25	2.11	4.89
nav_dev2	diff < 0 avg qot q2	16341	-0.10	0.12	-1.25	0.00
avg_lsm2	Avg q2 by LSMEAN	16341	3.94	0.25	2.11	4.89
pav_dev2	diff > 0 avg qot q2	16341	0.03	0.08	0.00	1.48
d_qot	Change in avg qot for last year	16957	0.05	0.25	-3.27	1.69
men_dev1	enrol – enr_avg	13931	26.39	68.70	-646.79	2337.36
mh1_avg	Average proportion H1s over yrs	13931	0.20	0.10	0.02	0.89
menr_avg	Average Enrolment over yrs	13931	169.00	131.28	3.25	987.67
hours	Working Hours	16230	25.20	19.44	0.00	99.00
Isalary	Log (+1) of starting salary	16230	6.63	4.94	0.00	13.38
a_erb	Avg Extreme response style Factor (all surveys) 17200	0.23	0.20	0.00	1.00

APPENDIX H: RESULTS BY MODEL ACROSS THE DEPENDENT VARIABLES.

Effect	type	CGS	GSS	GTS	IMS	LRS	OSI
		Model 1					
AGE _ Age based on census date	CF ⁷	0.001703	-0.00574***	0.002881*	0.002722	-0.00287*	-0.00408*
Intercept	CF	4.341511***	3.265503***	1.564621*	3.055064***	65.15527	4.691054
avg_lsm2 _ Avg q2 by LSMEAN	CF	-0.10804**	0.031405	0.180542***	0.119377**	-0.00665	0.184715***
avg_mrk _ Avg Mark over all subjects taken	CF	0.000678	0.001166	0.002449	0.00277*	0.002836**	0.003906**
c_mrks _ % of Close marks in subjects taken	CF	-0.0008	0.000237	-0.00138**	-0.0001	-0.00081	0.000162
d_mark _ Change in avg mark for last year	CF	-0.00317**	-0.00224**	-0.00347***	-0.00329**	0.000038	-0.00308**
d_qot _ Change in avg qot for last year	CF	0.05449**	-0.00729	0.01694	0.003721	-0.01856	-0.00568
hours _ WORKING HOURS	CF	-0.00014	0.000523	-0.00012	0.001268**	-0.00076	0.000578
Isalary _ Log (+1) of starting salary	CF	0.003227*	0.004163**	0.002139	0.003038	0.006822***	0.006102***
men_dev1 _ enrol - enr_avg	CF	0.000162	0.00003	0.00019*	0.000064	-0.00003	-0.00003
menr_avg _ Average Enrolment over yrs	CF	-0.00006	-0.00001	-0.00021***	-0.00004	0.000209***	-0.00009
n_s _ number of subjects taken	CF	-0.00034	0.000806	0.000255	0.0001	0.00016	-0.00059
nav_dev2 _ diff < 0 avg qot q2	CF	0.21634**	-0.02534	0.382225***	0.315805***	0.340942***	0.403102***
pav_dev2 _ diff > 0 avg qot q2	CF	-0.0713	0.073336	-0.01771	-0.06734	-0.17533	-0.07389
rnk1 _ Avg rnk for last year	CF	0.000471	0.002303***	0.002578***	0.003474***	-0.00012	0.003026***
Country*SEX	FS ⁸	12.8743***	1.781679*	0.651064	0.917909	1.731831*	1.134225
SURYR _ Year survey conducted	FS	9.070961***	2.572622*	0.326603	1.834845	1.053991	0.748619
attend*fywork	FS	57.16642***	3.124967***	4.358575***	3.352842***	2.830001**	4.701615***
furley LEVEL OF Further STUDY	FS	2.48454***	1.729066*	3.196024***	2.145381**	0.50712	1.533271
level _ LEVEL OF QUAL	FS	1.571499	3.970604***	4.584582***	3.584497***	0.693196	1.995007*
n cour number of courses reported on	FS	9.30233***	1.604675	12.94179***	1.40218	2.022536	1.031647
a_erb	RE ⁹	-0.12266	1.457218***	0.395139***	1.990333***	1.11947***	1.34916***
a_erb*a_erb	RE	1.098619***	-0.13901	1.290638***	-1.03621***	0.20225**	
		Model 2					
AGE _ Age based on census date	CF	0.004108**	-0.00332**	0.004527***	0.003516**	-0.00255*	-0.00261
Intercept	CF	2.424957***	203.644	1.588202**	3.226691***	4.058089***	-2.61544***
avg_lsm2 _ Avg q2 by LSMEAN	CF	0.063163*	-0.07607**	0.249703***	0.118775***	-0.05631*	0.083809*
avg_mrk _ Avg Mark over all subjects taken	CF	0.002831*	0.000174	0.002679*	0.001993	0.001762	0.002655
c_mrks _ % of Close marks in subjects taken	CF	-0.00099	-0.0003	-0.00135**	-0.00015	-0.00126**	-0.00032
d_mark _ Change in avg mark for last year	CF	-0.00241*	-0.00232**	-0.00318***	-0.00342***	-0.00009	-0.00351**
d_qot _ Change in avg qot for last year	CF	0.039946	0.005879	-0.00205	-0.00408	0.000636	0.001247
hours _ WORKING HOURS	CF	-0.00106	0.000442	-0.00035	0.00037	-0.00071	0.001024
Isalary _ Log (+1) of starting salary	CF	-0.00074	0.003132	-0.00082	0.002205	0.004761**	0.005272*
men_dev1 _ enrol - enr_avg	CF	0.00018*	0.000024	0.000011	-0.00004	-0.0001	-0.00009
menr_avg _ Average Enrolment over yrs	CF	-5.65E-6	-0.00007	-0.00027***	-0.00008	0.000335***	-0.00013
n_s _ number of subjects taken	CF	0.000963	0.001488**	0.000835	0.000153	0.000249	0.000157
nav_dev2 _ diff < 0 avg qot q2	CF	0.239376***	-0.01006	0.549736***	0.347249***	0.400135***	0.46559***
pav_dev2 _ diff > 0 avg qot q2	CF	0.118294	0.115236	-0.01946	-0.03613	-0.04785	-0.07409
rnk1 _ Avg rnk for last year	CF	0.00003	0.002406***	0.002427***	0.003411***	0.000158	0.003033***
Country*SEX	FS	11.31167***	1.747816*	0.537277	0.647405	1.42128	0.835894
SURYR _ Year survey conducted	FS	69.47192***	2.184481*	0.685733	0.863069	0.368083	0.982842
attend*fywork	FS	57.77282***	3.290158***	4.965811***	3.483593***	2.098589*	5.139738***
furlev _ LEVEL OF Further STUDY	FS	2.362881**	2.388648**	3.135484***	2.91479***	1.339092	1.873728*
level _ LEVEL OF QUAL	FS	3.439222***	36.63712***	13.07881***	12.04744***	0.323884	49.88052***
n_cour _ number of courses reported on	FS	10.87345***	2.338981*	11.196***	1.438656	4.596993***	1.560942
a_erb	RE	-0.01629	1.522703***	0.486829***	2.086075***	1.175391***	1.37898***
a_erb*a_erb	RE	0.955627***	-0.25029**	1.185695***	-1.1497***	0.07175	-0.03081
							_

Levels of significance denoted by asterisks : * α = .1, ** α = .05, *** and α = .01.

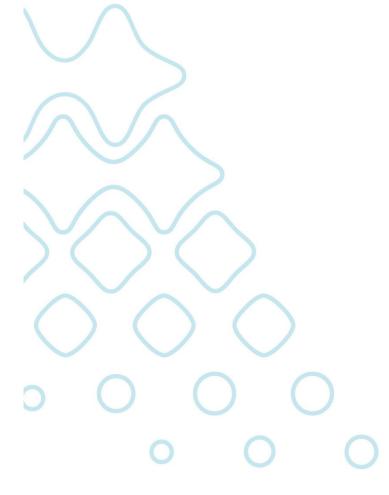
The values reported are the *F*-statistics for the composite hypothesis that all estimated parameters are zero.

⁹ Levels of significance denoted by asterisks : * α = .1, ** α = .05, *** and α = .01.

Effect	type	CGS	GSS	GTS	IMS	LRS	OSI
		Model 3					<u>,</u>
AGE _ Age based on census date	CF	0.004473***	-0.00357***	0.004939***	0.003915**	-0.00358***	-0.00178
Intercept	CF	2.994222***	3.869551***	-23.5364	3.096371***	-118.511***	3.574119***
avg_lsm2 _ Avg q2 by LSMEAN	CF	0.060109*	-0.08356***	0.281099***	0.097735***	-0.04142	0.102834**
avg_mrk _ Avg Mark over all subjects taken	CF	0.002894*	0.000335	0.002496*	0.002168	0.002036	0.002333
c_mrks _ % of Close marks in subjects taken	CF	-0.00087	-0.0002	-0.00132**	-0.00011	-0.00104*	-0.00034
d_mark _ Change in avg mark for last year	CF	-0.00258**	-0.00218**	-0.0031***	-0.00334***	0.000215	-0.00328**
d_qot _ Change in avg qot for last year	CF	0.060915**	0.011906	0.020355	0.003947	0.000026	0.023906
hours _ WORKING HOURS	CF	-0.00129**	0.001019*	9.419E-6	0.001577**	-0.0007	0.001526*
Isalary _ Log (+1) of starting salary	CF	0.000652	0.003757**	0.000442	0.002771	0.005477***	0.005267**
men_dev1 _ enrol - enr_avg	CF	0.000173	0.000043	0.000024	-0.00007	-0.00011	-0.00006
menr_avg _ Average Enrolment over yrs	CF	-0.00003	-0.00012**	-0.00033***	-0.00012*	0.000359***	-0.00015*
n_s _ number of subjects taken	CF	0.001067	0.001673***	0.000741	0.00007	0.000393	0.000069
nav_dev2 _ diff < 0 avg qot q2	CF	0.223167***	-0.11394*	0.495093***	0.290072***	0.304168***	0.397554***
pav_dev2 _ diff > 0 avg qot q2	CF	0.117526	0.211811**	0.032588	-0.0022	-0.02266	0.042997
rnk1 _ Avg rnk for last year	CF	0.000085	0.002385***	0.002501***	0.003485***	0.000034	0.003147***
Country*SEX	FS	10.60796***	1.748716*	0.469341	0.601506	1.502509	0.88413
SURYR _ Year survey conducted	FS	75.26123***	2.73415**	0.874295	1.049899	0.334011	0.972741
attend*fywork	FS	58.02907***	3.638817***	5.573659***	4.584911***	2.264128**	6.221694***
furlev _ LEVEL OF Further STUDY	FS	2.096974**	2.827344***	2.701773***	2.73104***	1.851902*	1.761072*
level _ LEVEL OF QUAL	FS	1.954272*	11.49133***	10.64448***	12.47725***	1.638925	2.176664*
n_cour _ number of courses reported on	FS	11.97488***	2.386519*	10.45325***	1.712892	4.312789***	1.560363
a_erb	RE	-0.02507	1.561415***	0.512436***	2.139788***	1.195888***	1.373116***
a_erb*a_erb	RE	0.987385***	-0.28926***	1.166777***	-1.19002***	0.061105	
		Model 4					
AGE _ Age based on census date	CF	0.002731	-0.00402***	0.004009**	0.003948**	-0.00287**	-0.00186
Intercept	CF	5.063023***	3.743075***	2.109228***	2.964209***	3.721679***	-4.39494***
avg_lsm2 _ Avg q2 by LSMEAN	CF	0.019035	-0.03995	0.060578	0.039944	0.004924	0.083487
avg_mrk _ Avg Mark over all subjects taken	CF	0.001239	0.000624	0.003493**	0.003066*	0.002976**	0.003915**
c_mrks _ % of Close marks in subjects taken	CF	-0.00078	-0.00005	-0.00162**	-0.00026	-0.0009	-0.00022
d_mark _ Change in avg mark for last year	CF	-0.00309**	-0.00207*	-0.00304**	-0.00307**	0.000504	-0.00275*
d_qot _ Change in avg qot for last year	CF	0.046285*	-0.008	0.013455	0.000672	-0.01462	0.011667
hours _ WORKING HOURS	CF	-0.00041	0.000465	-0.00002	0.001071*	-0.00066	0.000613
Isalary _ Log (+1) of starting salary	CF	0.003442*	0.004186***	0.002658	0.003289*	0.006211***	0.00621***
men_dev1 _ enrol - enr_avg	CF	0.000154	0.000053	0.000199*	0.000018	-0.00004	-0.00004
menr_avg _ Average Enrolment over yrs	CF	9.772E-6	-0.00006	-0.00017**	2.17E-6	0.000181***	-0.00003
n_s _ number of subjects taken	CF	0.000433	0.001405**	0.000871	0.000285	0.000677	0.000457
nav_dev2 _ diff < 0 avg qot q2	CF	0.266412***	0.043226	0.405835***	0.271013***	0.349574***	0.396062***
pav_dev2 _ diff > 0 avg qot q2	CF	0.03998	0.137519	0.012563	0.027401	-0.10227	0.037962
rnk1 _ Avg rnk for last year	CF	0.000509	0.002446***	0.002174***	0.003325***	-0.00004	0.002921***
Country*SEX	FS	11.53076***	1.79597*	0.748808	0.552202	1.526438	0.81946
SURYR _ Year survey conducted	FS	79.42349***	6.015676***		5.709488***		2.451933*
attend*fywork	FS	56.22154***		3.969243***			5.135022***
furlev _ LEVEL OF Further STUDY	FS	2.417832***	2.202101**		2.504144***		1.817907*
level _ LEVEL OF QUAL	FS	1.425228		12.98081***		0.92584	0.99854
n_cour _ number of courses reported on	FS	9.504901***	2.294242*	9.236193***		2.317466*	1.07436
a_erb	RE		1.490666***		2.044726***	1.157806***	1.337631***
a_erb*a_erb	RE	0.943463***	-0.22053**	1.143996***	-1.12377***	0.11062	

Effect	type	CGS	GSS	GTS	IMS	LRS	OSI
		Model 5					
AGE _ Age based on census date	CF	0.002493	-0.0047***	0.003868**	0.004381**	-0.00264*	-0.00257
Intercept	CF	2.942186***	-129.148***	11.67913***	8.990654	3.543853***	3.078296***
avg_lsm2 _ Avg q2 by LSMEAN	CF	0.033876	0.067968	0.07873	0.07381	0.031665	0.078259
avg_mrk _ Avg Mark over all subjects taken	CF	0.001911	0.000133	0.002955*	0.003262**	0.002725**	0.003196
c_mrks _ % of Close marks in subjects taken	CF	-0.00088	-0.00022	-0.00176***	-0.00056	-0.00101*	-0.00038
d_mark _ Change in avg mark for last year	CF	-0.00292**	-0.00294***	-0.00339***	-0.00387***	0.000068	-0.00355**
d_qot _ Change in avg qot for last year	CF	0.04119	-0.01901	-0.0095	0.003068	-0.01683	0.002123
hours WORKING HOURS	CF	0.000121	0.000467	-0.0001	0.001277**	-0.00055	0.000739
Isalary _ Log (+1) of starting salary	CF	0.003153*	0.003934**	0.002902	0.003677*	0.006021***	0.006095***
men_dev1 _ enrol - enr_avg	CF	0.000154	8.581E-8	0.000102	-0.00003	-0.00008	-0.00013
menr_avg _ Average Enrolment over yrs	CF	0.000122	0.000071	-0.00018**	0.000028	0.000189**	0.000019
n_s _ number of subjects taken	CF	0.000555	0.001791**	0.00129	0.001352	0.000924	0.000402
nav_dev2 _ diff < 0 avg qot q2	CF	0.348355***	0.140092*	0.50249***	0.297194***	0.352681***	0.447859***
pav_dev2 _ diff > 0 avg qot q2	CF	-0.00285	-0.00481	0.041911	-0.02824	-0.22363*	0.055283
rnk1 _ Avg rnk for last year	CF	0.000219	0.002579***	0.002356***	0.003405***	-0.00004	0.003117***
Country*SEX	FS	11.36743***	1.72415*	0.60338	0.688049	1.501209	1.001547
SURYR _ Year survey conducted	FS	78.39164***	5.204099***	0.786987	6.920656***	1.735658	2.405507*
attend*fywork	FS	54.38779***	3.398851***	4.335034***	3.606825***	2.13246*	4.668304***
furlev _ LEVEL OF Further STUDY	FS	2.551313***	1.889342**	3.237493***	1.797663*	0.724267	1.531761
level _ LEVEL OF QUAL	FS	1.068119	16.5953***	23.87362***	4.731295***	0.82812	1.986615*
n_cour _ number of courses reported on	FS	8.269449***	1.774152	8.485062***	1.223573	2.958351**	0.684343
a_erb	RE		1.513482***	0.497142***	2.045564***	1.137979***	1.332579***
a_erb*a_erb	RE	0.92764***	-0.25048***	1.136349***	-1.12969***	0.14421*	
		Model 6	;				
AGE _ Age based on census date	CF	0.002755	-0.00525***	0.002974*	0.003489**	-0.00224	-0.00231
Intercept	CF	2.945535***	-117.074***	-11.5734	3.649911***	86.35321	13.33883
avg_lsm2 _ Avg q2 by LSMEAN	CF	0.007148	-0.00936	-0.14645***	-0.11811**	-0.02522	-0.11984*
avg_mrk _ Avg Mark over all subjects taken	CF	0.001164	0.000365	0.004643***	0.003528**	0.002957**	0.004102**
c_mrks _ % of Close marks in subjects taken	CF	-0.0009	-0.00006	-0.00175***	-0.00045	-0.00075	-0.00034
d_mark _ Change in avg mark for last year	CF	-0.00307**	-0.00222**	-0.00277**	-0.00304**	0.00019	-0.00298*
d_qot _ Change in avg qot for last year	CF	0.037227	-0.01727	0.001205	-0.00728	-0.01148	-0.0003
hours _ WORKING HOURS	CF	-0.00017	0.0002	0.00012	0.001094**	-0.00079*	0.000612
Isalary _ Log (+1) of starting salary	CF	0.003612*	0.004507***	0.002959*	0.003771**	0.006484***	0.006556***
men_dev1 _ enrol - enr_avg	CF	0.000122	0.000071	0.000216**	0.000051	-0.00005	-0.00001
menr_avg _ Average Enrolment over yrs	CF	0.000016	0.000029	0.000013	0.000039	0.000097	-0.00004
n_s _ number of subjects taken	CF	0.000812	0.000643	0.001773***	0.000581	0.000641	0.000825
nav_dev2 _ diff < 0 avg qot q2	CF	0.250695***	0.132787*	0.29327***	0.182621**	0.269265***	0.27171***
pav_dev2 _ diff > 0 avg qot q2	CF	0.11042	0.098431	0.152073	0.080784	-0.08969	0.12255
rnk1 _ Avg rnk for last year	CF	0.000569	0.002474***	0.002083***	0.003389***	-0.00005	0.003032***
Country*SEX	FS	11.17371***	1.624495	0.606922	0.522607	1.316382	0.91608
SURYR _ Year survey conducted	FS	81.67337***	5.883906***	0.375465	5.478554***	1.402005	2.267893*
attend*fywork	FS	57.4899***	2.829381**	4.258501***	3.340098***	2.074052*	5.205842***
furlev _ LEVEL OF Further STUDY	FS	2.722356***	1.667487*	3.354316***	1.913471**	0.5336	1.641802*
level _ LEVEL OF QUAL	FS	1.683117	16.28055***	19.76571***	8.451837***	0.956667	1.268993
n_cour _ number of courses reported on	FS	9.38832***	2.390511*	6.471596***	2.420748*	2.9801**	0.810987
a_erb	RE		1.477938***	0.475554***	2.015706***	1.156826***	1.325031***
a_erb*a_erb	RE	0.936618***	-0.20541**	1.144269***	-1.10043***	0.121848	

Effect	type	CGS	GSS	GTS	IMS	LRS	OSI		
Model 7									
AGE _ Age based on census date	CF	0.004859***	-0.00433***	0.003958***	0.003533**	-0.00363***	-0.00226		
Intercept	CF	3.155126***	3.127843***	15.81737***	2.147863***	3.733014***	2.366437**		
avg_lsm2 _ Avg q2 by LSMEAN	CF	-0.00804	0.040509	0.326559***	0.229061***	0.011429	0.264366***		
avg_mrk _ Avg Mark over all subjects taken	CF	0.00245	0.001712	0.00389***	0.003239**	0.003141**	0.004772**		
c_mrks _ % of Close marks in subjects taken	CF	-0.00105	0.000056	-0.00144**	-0.00017	-0.00068	-0.00013		
d_mark _ Change in avg mark for last year	CF	-0.00277**	-0.00166	-0.0028**	-0.00299**	0.000667	-0.0024		
d_qot _ Change in avg qot for last year	CF	0.054616**	0.007516	0.017791	0.003215	-0.0081	0.025185		
hours _ WORKING HOURS	CF	-0.00002	0.000544	-0.00003	0.001047*	-0.00087*	0.000548		
Isalary _ Log (+1) of starting salary	CF	0.004103**	0.004**	0.002853	0.003877**	0.006808***	0.006347***		
men_dev1 _ enrol - enr_avg	CF	0.000159	0.000034	0.000083	-0.00004	-0.0001	-0.00005		
menr_avg _ Average Enrolment over yrs	CF	-0.00009	-0.00006	-0.00019***	-0.00003	0.000222***	-0.00004		
n_s _ number of subjects taken	CF	0.001109	0.001333**	0.001181*	0.000518	0.000258	0.000293		
nav_dev2 _ diff < 0 avg qot q2	CF	0.206623***	-0.09875	0.432878***	0.350838***	0.263062***	0.374579***		
pav_dev2 _ diff > 0 avg qot q2	CF	0.093734	0.175771	0.064957	0.02804	-0.0722	0.059955		
rnk1 _ Avg rnk for last year	CF	0.000204	0.00203***	0.002064***	0.00322***	-0.00036	0.002489***		
Country*SEX	FS	11.44184***	1.882622**	0.497383	0.623687	1.795387*	0.989681		
SURYR _ Year survey conducted	FS	74.63006***	7.348119***	0.931374	6.357691***	2.082244	2.59079*		
attend*fywork	FS	58.69312***	4.065102***	4.304005***	3.707348***	2.457055**	5.588696***		
furlev _ LEVEL OF Further STUDY	FS	3.027431***	2.285072**	2.515054***	1.917217**	0.775762	1.375226		
level _ LEVEL OF QUAL	FS	1.034779	2.230191*	1.930027	0.92235	2.108181*	0.30871		
n_cour _ number of courses reported on	FS	10.48892***	2.068275	8.210803***	1.77872	2.096269*	0.878207		
a_erb	RE		1.523163***	0.513163***	2.107754***	1.153682***	1.363555***		
a_erb*a_erb	RE	0.942891***	-0.24481**	1.14589***	-1.18153***	0.13162			





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