Department of Electronic and Electrical Engineering

1st year, Semester 1 Questionnaire 2010/2011

Dear Student,

It is the time to solicit your views on the teaching quality of this Department, and the general support and services provided by the University in semester 1, 2010/2011 academic year.

As you may appreciate, the questionnaire is a vital part of our quality control so it is important to us that you complete this questionnaire and return it to the Departmental Office **as soon as possible and in any case no later than Friday 17th December 2010.**

Without your individual feedback and a good response rate from the year, we have no systematic way of quantifying the overall quality of our teaching, coursework and general support and services we aim to provide. Hence we have no overall student views of what improvements or changes are necessary. **Although you will not benefit personally from actions we might take to deal with issues that you raise about semester 1, you have benefitted from the feedback provided by your predecessors and your successors will benefit from your engagement with the questionnaire.**

If you do not have any particular issue on which you would like to comment, you could simply complete the numerical sections of the questionnaire - that information is extremely useful. Questions 8 and 9 on the first page have been requested by the Faculty.

In order to ensure that your replies are totally anonymous, **please remove the cover sheet before you return your questionnaire.**

Many thanks for your co-operation.

Richard Tozer

PLEASE RETURN YOUR COMPLETED QUESTIONNAIRE TO THE DEPARTMENTAL OFFICE (ROOM E133) BY THE END OF WEEK 12

Lecture Courses Year 1 Semester 1 (2010-2011)

Complete the top table by inserting for each individual course the number which best corresponds to your response to questions 1-9 in the bottom table. Include additional comments for each course if you wish. (Omit any courses not on your syllabus)

Module	Module Title	Lecturer	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Additional comments/Good Points/Suggestions for improvement
EEE101	Circuits and Signals	Dr R.C. Tozer										
EEE104	Digital Systems	Mr. N. Powell										
EEE105	Electronic Devices	Dr. R.A. Hogg										
EEE112	Engineering Applications	Mr P.L. Judd										
EEE160	Computing	Mr. P.L. Judd										
MAS145	Mathematics	Dr. E.J. Kim										
MAS147	Mathematics											
	Free Choice Module**											

Q1. How much of the material **(factual, conceptual, technical) was new to you?**	Nearly All 5	Most 4	About Half 3	Some 2	Little 1
Q2. Assess the difficulty of the material overall	Very difficult 5	Difficult 4	About right 3	Fairly easy 2	Easy 1
Q3. Assess the amount of material presented	Far too much 5	Too much 4	About right 3	Too little 2	Far too little 1
Q4. Quality of explanation ?	Very good 5	Good 4	O.K 3	Poor 2	Very poor 1
Q5. Quality of presentation **(e.g. volume, diction, legibility of writing etc.)?**	Very good 5	Good 4	O.K 3	Poor 2	Very poor 1
Q6. Quality of tutorial sheets and answers?	Very good 5	Good 4	O.K 3	Poor 2	Very poor 1
Q7. Achievement of Aims (The principal aims of each course **are listed on the next page)**	Completely achieved 5	Almost completely achieved 4	Adequately achieved 3	Partly achieved 2	Not achieved at all 1
Q8. Please rate your overall satisfaction with this module	Very satisfied 5	Well satisfied 4	Just satisfied 3	Slightly unsatisfied 2	Very Unsatisfied 1
Q9. Please rate the effectiveness of the lecturer	Very effective 5	Quite Effective 4	Marginally effective 3	Slightly ineffective 2	Very ineffective 1

**   **Please fill in module code and teacher.**

Course Aims

EEE101 - Circuits and Signals

1. To outline the behaviour of the basic R, L and C elements in circuits with AC and DC voltages applied.
2. To define and illustrate the various circuit laws and theorems used to analyse circuits.
3. To introduce and demonstrate the use of mathematical concepts (phasors and complex numbers) to aid the solving of AC circuits.
4. To use the concepts of frequency response and phase relationships to study filters.

EEE104 - Digital Systems

1. To understand the basis of digital circuits and systems.
2. To be able to analyses existing digital circuits and be aware of the techniques necessary to design digital circuits.
3. To understand the relationship between numbering systems and digital circuits and how arithmetic functions may be implemented.
4. To be familiar with basic, practical digital elements, their characteristics, and use; and to appreciate how their limitations impinge upon design.

EEE105 – Electronic Devices

1. To understand the details of conduction mechanisms solids (and vacuum)
2. To appreciate the differences between conductors, semiconductors and insulators and the use of the latter in capacitors
3. To understand conduction and diffusion and the fundamental origin of Ohm's law
4. To be able to distinguish between mobile charge and space charge in semi-conductors and their respective roles in electronic devices.
5. To develop a thorough understanding of the mechanisms of the p-n junction.
6. To be able to apply the knowledge listed above to relate physical mechanisms in semiconductors to the terminal characteristics of electronic devices.

EEE112 - Engineering Applications

1. To review mathematics needed for year 1 mainstream courses in Electronic and Electrical Engineering and to reinforce understanding
2. To relate and apply this mathematics to engineering problems.

3. To strengthen skills in manipulation and application.

MAS145 and MAS147 - Mathematics

1. To understand the mathematical principles behind many electrical and electronic problems met this year and in subsequent years of the course
2. To give students the background information required to solve problems in other courses

EEE160 - Computing

To develop an appreciation of good computer programming style including an introduction to programming in the C language.

Coursework

Complete the top table by inserting for each individual entry the number which best corresponds to your response to each question below.

Exercise	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Additional Comments
Workstation 1								
Workstation 2								
PN1								
PN2								
Computer Aided Design								
Digital Logic Circuit								
Professional Skills		N/A						
Computing (C programming)								

Q1	**How would you describe the overall structure of the exercise?**	Very well structured and logical throughout **5**	Logical **4**	Adequate **3**	Unstructured **2**	Chaotic **1**
Q2	**Assistance from postgraduate support staff (where applicable)**	Very helpful, enthusiastic **5**	Very helpful **4**	Fairly helpful **3**	Willing but not very helpful **2**	Not interested and not very helpful **1**
Q3	**Quality of documentation provided**	Very clear and useful for future reference **5**	Clear, but not much theory for reference **4**	Adequate for reasonable progress **3**	Not well structured **2**	Confusing with several ambiguities **1**
Q4	**Did you understand the exercise as you were going through it?**	Almost complete understanding **5**	Good understanding **4**	Reasonable understanding of most sections **3**	Rough idea of what was going on **2**	No idea what was going on **1**
Q5	**How much technical material did you learn from the exercise?**	Much more than existing knowledge **5**	Some new concepts **4**	Re-enforced existing knowledge **3**	Little **2**	Nothing **1**
Q6	**How much did you learn from the exercise about experimental skills/technique**	Much more than existing skill base **5**	Some new skills **4**	Re-enforced existing skills **3**	Learned little **2**	Learned nothing about experimental skills **1**
Q7	**Was the time allocated for the exercise correct?**	Significantly more time than was needed **5**	Slightly more time than was needed **4**	Adequate time for the exercise **3**	Slightly less time than was needed **2**	Significantly less time than required **1**

Coursework

Any comments on facilities, equipment, organisation etc.?

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Large Group Tutorials (Problem Classes)

Q1. How would you describe the overall structure of problem classes?

Very well structured and logical throughout	Logical	Adequate	Unstructured	Chaotic

Q2. How would you assess the assistance of your demonstrator in semester 1?

Very helpful, enthusiastic	Very helpful	Fairly helpful	Willing but not very helpful	Not interested and not very helpful

Q3. How much did you learn from problem classes?

Much more than existing knowledge	Some new concepts and problem-solving techniques/skills	Re-enforced existing knowledge	Little	Nothing

Any general comments on large group tutorials?

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Small Group Tutorials (with personal tutor)

Q1. How often did you have tutorials?

Every 2 weeks as timetabled	Largely as timetabled but with occasional rearrangements	Largely as timetabled but with occasional cancellations	Many cancelled tutorials – not rearranged

Q2 In general, how useful did you find the exercises set for the tutorials ?

Very useful	Useful	Reasonably useful	Not particularly useful	Not at all useful

Any exercises you found particularly useful and why?

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Any exercises you found very poor and why?

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Any general comments on small group tutorials?

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General Issues

1. Have you used the University's Computer network this semester?

Yes	No

If yes, how would you assess the availability of computers ? (please tick one)

Easy access at all times	Daytime / out of hours access reasonable, occasional wait	Daytime access difficult, out of hours access OK	Very difficult to get access, even out of hours	Almost impossible to get access

Any comments on the computers or the service provided by the University's Computer network?

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2. Do you have use of your own computer at Sheffield?

Yes	No

Do you use the VPN (Virtual Private Network) system to connect your computer to the University network?

Yes	No

3. Any comments on the library services, such as availability and relevance of text books, journals, etc. and library staff support ?

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4. Any comments on other services provided by the University, such as Student Services, Careers, Student Health, etc.?

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5. Any comments on the support provided by the Department, such as Student Office, Stores, etc.?

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6. Any comments on issues not covered in the questionnaire ?

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