



## FACULTY OF COMPUTING ENGINEERING and SCIENCE

### Assessment Cover Sheet and Feedback Form 2016/17

<b>Module Code:</b> CS3S605	<b>Module Title:</b> Computer Networks	<b>Module Lecturer:</b> Gaius Mulley
<b>Assignment Title and Tasks:</b> TFTP Client implementation		<b>Assessment No. 2</b>
<b>No. of pages submitted in total including this page:</b> Completed by the student		<b>Word Count of submission</b> Completed by the student
<b>Date Set:</b> 13 02 2017	<b>Submission Date:</b> 17 03 2017	<b>Return Date:</b> 14 04 2017

#### Part A: Record of Submission (to be completed by Student)

**Extenuating circumstances:**

If there are any exceptional circumstances that may have affected your ability to undertake or submit this assignment, make sure you contact the Advice Center on your campus prior to your submission deadline.

**Fit to sit policy:**

The University operates a fit to sit policy whereby you, in submitting or presenting yourself for an assessment, are declaring that you are fit to sit the assessment. You cannot subsequently claim that your performance in this assessment was affected by extenuating factors.

**Plagiarism and Unfair Practice Declaration:**

By submitting this assessment, you declare that it is your own work and that the sources of information and material you have used (including the internet) have been fully identified and properly acknowledged as required<sup>1</sup>. Additionally, the work presented has not been submitted for any other assessment. You also understand that the Faculty reserves the right to investigate allegations of plagiarism or unfair practice which, if proven, could result in a fail in this assessment and may affect your progress.

**Details of Submission:**

Note that all work handled in after the submission date and within 5 working days will be capped at 40%<sup>2</sup>. No marks will be awarded if the assessment is submitted after the late submission date unless extenuating circumstances are applied for and accepted (Advice Center to be consulted). An electronic copy of your work **must** be submitted via Blackboard. Your submitted electronic copy of your coursework **must** be a **single** file in the **pdf** format. All **all** other document formats **will** be ignored by the lecturer. You are responsible for checking the method of submission.

<b>You are required to acknowledge that you have read the above statements by writing your student numbers in the box opposite.</b>	<b>Student Number:</b>
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<sup>1</sup> University Academic Integrity Regulations

<sup>2</sup> Information on exclusions to this rule is available from Campus Advice Shops

## IT IS YOUR RESPONSIBILITY TO KEEP A RECORD OF ALL WORK SUBMITTED

### Part B: Marking and Assessment (to be completed by the Module Lecturer)

This assignment will be marked out of 100%

This assignment contributes to 15% of the total module marks.

This assignment is bonded.

#### Assessment task:

There are four components to this coursework, the first is to complete the client `tftp` program implementation in Python and comment each required line of code. A skeleton `tftp` client can be found here [skeleton tftp client](http://floppsie.comp.glam.ac.uk/Southwales/gaius/networks/tftp-skel.py) (<http://floppsie.comp.glam.ac.uk/Southwales/gaius/networks/tftp-skel.py>). You must use this skeleton code (solutions based on other code will be rejected). You must comment all code lines in the relevant section outlined in the skeleton file. You will also need to download and save a module called `glamnetsim.py` (<http://floppsie.comp.glam.ac.uk/Southwales/gaius/networks/glamnetsim.py>), but you do not need to alter it at all. It must reside in the same directory as your `tftp.py` file. The practical component of the coursework will need to be completed in the School of Computing labs as it attempts to connect to the `tftp` server running on `mcgreg.comp.glam.ac.uk` which is unavailable from off campus.

There will be extensive help given during tutorial/laboratory times throughout the duration of the coursework. However the tutorial help will be limited to the first task only, you are expected to work independently of the lecturer to solve parts two, three and four. The second task is to diagrammatically present the sequence of packet types between server and client. You only need to do this for the first eight packets. The third task is to compare how might you implement the `tftp` code in Python using a state event diagram as discussed during a lecture and tutorial.

Lastly you should research and document what happens if the data component of a `tftp` data packet becomes corrupted en route between server and client. Consider a client which is downloading the linux kernel via `tftp` and one data packet is corrupted. Your report excluding code and commentary must not exceed 1500 words.

#### Learning Outcomes to be assessed (as specified in the validated module descriptor <http://icis.glam.ac.uk>):

Demonstrate their ability to show critical judgement in developing solutions to networking design problems

Understand the theoretical and practical issues of network design and maintenance, in the context of existing and emerging network technologies and standards.

#### Grading Criteria:

Fail (<40%)	A fail grade will be awarded for an answer which contains major errors and shows little understanding of the issues involved
Third (40%-49%)	A pass grade will be awarded for an answer which addresses the majority of points with few errors or omissions.
2:2 (50%-59%)	An average grade will be awarded for answers which contain no major errors or omissions.
2:1 (60%-69%)	A higher mark can be achieved if the work contains no major errors and also contains an analytical answer.
First (70%+)	A high grade will be awarded for work which includes the earlier criteria and contains a high quality analysis of issues from a range of source materials and makes some original contribution on the subject.

### Grading Criteria:

Code and Commentry	40	
Sequence of Network packets	10	
State based solution	25	
Error question	25	

### Section C: Marker's Feedback

#### Lecturer's comments:

Feedback will be emailed to you by or on the date of return.

#### Areas you have done well:

Please refer to the feedback email.

#### Feedback from this assessment to help you improve future assessments:

Please refer to the feedback email.

**All marks are subject to confirmation by the Board of Examiners**