Final Project:

The final project (40% of the final grade) will consist of a major piece of numerical code that solves a specific problem that does one of the following:

1. Combines at least two of the types of algorithms covered (as given by the week-by-week structure of the subject).
2. Implements and analyses a numerical method not covered in class
3. Adapts one of the methods covered in this subject to solve a problem from another subject.

A list of project suggestions will be offered, however the student can also suggest problems for approval by the Subject Coordinator. The project must be chosen by the student by the end of the mid-semester break, otherwise each student will be allocated to a project.

The project will consist of two parts:

1. The code itself, which will be graded on effectiveness, accuracy, elegance and appropriateness of methods chosen (50% of this assessment task). The code should be accompanied by at least two test files.
2. A short presentation (5 mins+3 mins questions), to be held in Week 12, on the method, on code does (or should do) and how it works (50% of this assessment task).

The specific grading is as follows:

Code:		
Innovation in choosing the project:		10%
Difficulty of the project:		10%
Effectiveness (i.e. how well the code runs):		20%
Comments (whether they are comprehensible):		5%
Test functions (appropriateness of these):		5%
	Total:	**50%**
Presentation:		
Explanation of the algorithm used:		25%
Explanation of how the code works:		25%
	Total:	**50%**

The final project is an individual assignment, however students are permitted to share parts of code with each other if they give appropriate attribution.

Submission (IMPORTANT): You should put all the scripts necessary to run your code, as well as all your documentation, into a single ".zip" file and upload this to canvas.