

Using This Material

How To Use This Material

Mathematics can often be quite a hierarchical subject, meaning that topics keep building on and using other topics which have previously been covered. The topics that we cover won't suffer from this hierarchical nature too much, but there will be some basic ideas and ways of thinking that keep recurring throughout this part of the module. As such, it will be important to keep up with the material. In particular, we will use the mathematical topics to support the cryptography topics later in the semester.

The idea behind this site is that there will be notes (some based on older notes of Dr David Cooper and Dr Mike Quinn), short videos, interactive quizzes, and exercise problems provided so that you have things to get on with outside of scheduled classes. The main lecture classes will introduce you to ideas and provide some worked examples, while the tutorial classes will be similar but in smaller groups, usually with a chance for you to try some of the exercise problems. When we start the cryptography section, we will build Excel sheets so that we can visualise some of the techniques and how they work.

If anything isn't working well (with things on the website, the learning/teaching methods, or anything else), then please get in touch with me as soon as possible so I can look into it. This also includes if you think an extra video on a topic may help, or that something could do with a rerecord.

Alex (alex.corner@shu.ac.uk)

Accessibility

The material on the webpages should be fully screen-readable. The maths is displayed using MathJax. There are options at the top of each page to change the theme (Light, Dark, or Pastel), as well as to change the size of the font. A PDF of each page can also be downloaded from the navigation bar on the left-hand side. If there are any problems, get in touch with Alex.

Concept Checks

Where possible, short tests will be available at the end of each section, allowing you to test yourself with semi-randomised questions. (So you can have a few

goes with different symbols, numbers, etc.) These seem to work well in Chrome (on Windows) but seem to have occasional problems in Firefox (on Ubuntu). Let Alex know if any of these display badly - updates to the system change how the quizzes appear, so they sometimes need tweaking.