

Mathematical Modelling and Analysis I – ENGS103P

Induction Week

MEng Engineering and Architectural Design 2017-18


Bartlett School of Architecture

26 September 2017

About the course

- Understanding the mathematical concepts that are fundamental across all engineering disciplines
- Applying these concepts to solve real-world engineering and design problems through the development of mathematical models
- Simulating and testing of models using the software tools Matlab and Excel

Moodle page for ENGS103P

ENGS103P - Mathematical Modelling and Analysis I


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Santosh Bhattaral

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Welcome to Mathematical Modelling and Analysis I - ENGS103P.

This module has been especially designed to help you to develop an understanding of the mathematical concepts that underpin the study of engineering. In addition to learning new mathematical concepts, you will also apply your newly acquired skills in solving practical engineering problems. You will do this by developing mathematical models of the engineering problems, and then simulating and analysing these models using software tools like MATLAB and Excel.

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Please log on to the Moodle page and spend some time having a browse – if you can't access the page, let me know.

Lectures: Tuesdays (1400-1600) in Logan Hall, 20 Bedford Way

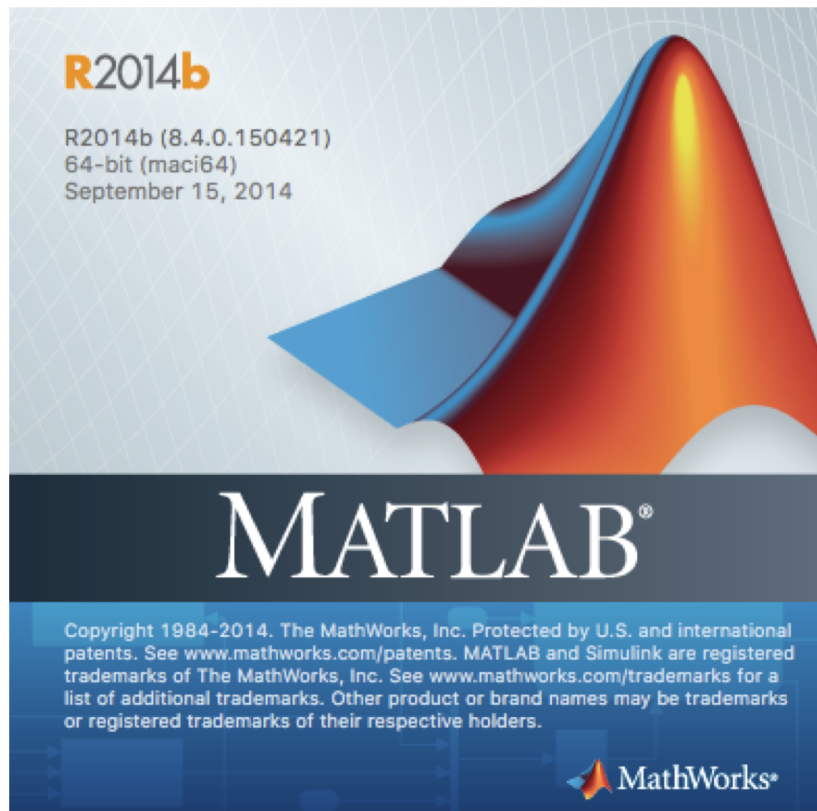


Problem-solving workshops: Thursdays (1000-1200) in Room 1.02, 22 Gordon Street



Matlab sessions:

Tuesdays (1100-1200), Location: TBC

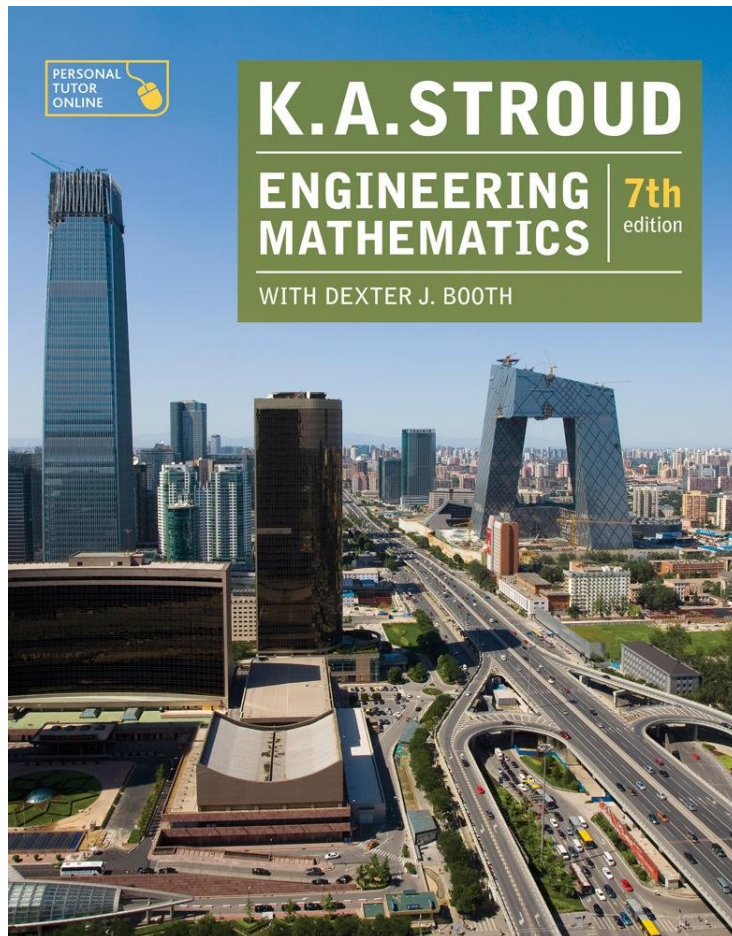


- Programming language
- Software tool for numerical computing, mathematical modelling and visualisation
- All UCL students have access to a stand-alone copy of Matlab which can be downloaded from the UCL software database:
<https://swdb.ucl.ac.uk/>
- Please install Matlab on your personal tablet or laptop and bring along to the problem solving workshops

Recommended textbook:

Engineering Mathematics, K.A. Stroud with D.J Booth,

Sixth edition (or greater)



- Well-established, well-liked Engineering Mathematics textbook
- Covers most of the mathematical concepts in the module
- Access to online version through UCL library
- There's a more comprehensive reading list for the course on Moodle.

Before Lecture 1 next week ...

- Log on to Moodle and have a browse – a lot of learning resources there and further information about the course.
- There is a diagnostic exercise (link on Moodle). Complete this before Monday, 9 October.
- Install Matlab on your personal laptop, bring to workshops.

Any questions?

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