

## **Engineering Tripos Part IA, The Engineer in Society, 2018-19**

### **Lecturer**

[Prof T Minshall, Dr M Kumar](#) [1]

### **Aims**

The aims of the course are to:

- Introduce students to the economic, social and technical context within which engineers work.
- Seek to provide a sense of the 'bigger picture' within which any engineering-related organisation operates.
- Show why an understanding of this context is important and to raise awareness of the non-technical competences that engineers need to develop in order to be successful.

### **Objectives**

As specific objectives, by the end of the course students should be able to:

- Have a knowledge of the economic, industrial and social contexts of engineering.
- Be able to understand how these contexts influence engineering decisions.
- Be able to produce a non-technical report on topics related to these contexts.

### **Content**

A combination of CUED teaching staff and industrial speakers will address the following topics:

Please note that the order of these talks may change based upon the availability of our guest speakers

- 1. Introduction - what engineering really is**
- 2. Economic context - everything is changing.**
- 3. Engineering and ethics - doing the right thing**
- 4. Engineering and entrepreneurship – making change happen.**
- 5. Engineering and sustainability - saving our future**
- 6. Engineering, complex systems and humanitarian aid**
- 7. Bioengineering - engineering + life sciences**
- 8. Being it all together, and setting the coursework challenge**

### **ASSESSMENT**

The topics for a report based on this lecture course will be set in the final lecture. Details on where and when to submit will be given at the final lecture and via email.

### **REFERENCES**

Additional on-line resources for this module will be provided via Camtools

## Examples papers

Please see the [Booklist for Part IA Courses](#) [2] for references for this module.

## Examination Guidelines

Please refer to [Form & conduct of the examinations](#) [3].

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## Links

[1] <mailto:thwm100@cam.ac.uk>, [rd439@cam.ac.uk](mailto:rd439@cam.ac.uk)

[2] <https://www.vle.cam.ac.uk/mod/book/view.php?id=364071&chapterid=42051>

[3] <https://teaching18-19.eng.cam.ac.uk/content/form-conduct-examinations>