Part IIB syllabuses; links to online resources

Published on CUED undergraduate teaching (http://teaching.eng.cam.ac.uk)

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Note that all modules are assessed by 100% Coursework, or 100% Examination, or 75% Examination and 25% Coursework. In all cases, the definitive form of assessment is given in the Faculty Board's Modules & Sets document. The Faculty Board also publish an outline of the coursework requirements for Part IIB 100% coursework modules but you should see the module syllabus pages for further details.

Interactive booklists for Part IIB are available on Moodle.

Course material on Moodle

Group A: Energy, Fluid Mechanics and Turbomachinery

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<td>4A1</td>
<td>Flow instability</td>
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## Part IIB syllabuses; links to online resources
Published on CUED undergraduate teaching (http://teaching.eng.cam.ac.uk)

### Module: Electronic sensors and instrumentation
- **Code**: 4B13
- **Term**: L(1)
- **Form of assessment**: Exam
- **Prerequisites**: 3B1
- **On-line resources**: Moodle
- **Leader**: Dr P A Robertson

### Module: Renewable electrical power
- **Code**: 4B19
- **Term**: L(1)
- **Form of assessment**: Exam
- **Prerequisites**: 3B3, 3B4, 3B6
- **On-line resources**: Moodle
- **Leader**: Dr T. Flack

### Module: Analogue integrated circuits
- **Code**: 4B21
- **Term**: M(2)
- **Form of assessment**: Exam
- **Prerequisites**: 3B1, 3B2, 3B5
- **On-line resources**: Moodle
- **Leader**: Dr S Sambandan

### Module: Optical Fibre Communication
- **Code**: 4B23
- **Term**: L(2)
- **Form of assessment**: Exam and coursework
- **Prerequisites**: 3B6, 3F4
- **On-line resources**: Moodle
- **Leader**: Prof S J Savory

### Module: Radio frequency systems
- **Code**: 4B24
- **Term**: L(4)
- **Form of assessment**: Exam and coursework
- **Prerequisites**: 3B1
- **On-line resources**: Moodle
- **Leader**: Dr M J Crisp

### Module: Embedded systems for the internet of things
- **Code**: 4B25
- **Term**: M(7)
- **Form of assessment**: Coursework
- **Prerequisites**: 3B2
- **On-line resources**: Moodle
- **Leader**: Dr P Stanley-Marbell

## Group C: Mechanics, Materials and Design

### Module: Designing with composites
- **Code**: 4C2
- **Term**: M(3)
- **Form of assessment**: Exam and coursework
- **Prerequisites**: 3B5
- **On-line resources**: Moodle
- **Leader**: Prof M.P.F. Sutcliffe

### Module: Advanced Functional Materials and Devices
- **Code**: 4C3
- **Term**: M(8)
- **Form of assessment**: Exam
- **Prerequisites**: 3B5
- **On-line resources**: Moodle
- **Leader**: Dr J H Durrell

### Module: Design methods
- **Code**: 4C4
- **Term**: M(2)
- **Form of assessment**: Exam
- **Prerequisites**: 3B5
- **On-line resources**: Moodle
- **Leader**: Dr JM Cullen

### Module: Design case studies
- **Code**: 4C5
- **Term**: L(4)
- **Form of assessment**: Coursework
- **Prerequisites**: 3B5, 4C4
- **On-line resources**: Moodle
- **Leader**: Prof P Kristensson

### Module: Advanced linear vibrations
- **Code**: 4C6
- **Term**: M(4)
- **Form of assessment**: Exam and coursework
- **Prerequisites**: 3C6
- **On-line resources**: Moodle
- **Leader**: Dr JP Talbot

### Module: Random and non-linear vibrations
- **Code**: 4C7
- **Term**: M(5)
- **Form of assessment**: Exam and coursework
- **Prerequisites**: 3C6
- **On-line resources**: Moodle
- **Leader**: Prof. AA Seshia

### Module: Vehicle Dynamics
- **Code**: 4C8
- **Term**: L(8)
- **Form of assessment**: Exam and coursework
- **Prerequisites**: 3C5, 3C6
- **On-line resources**: Moodle
- **Leader**: Prof D Cebon

### Module: Continuum mechanics
- **Code**: 4C9
- **Term**: L(7)
- **Form of assessment**: Exam
- **Prerequisites**: 3C7, 3D7
- **On-line resources**: Moodle
- **Leader**: Dr G McShane

## Group D: Civil, Structural and Environmental Engineering

### Module: Construction engineering
- **Code**: 4D4
- **Term**: L(11)
- **Form of assessment**: Coursework
- **Prerequisites**: 3D1, 3D2, 4D16
- **On-line resources**: Moodle
- **Leader**: Prof G Viggiani

### Module: Foundation engineering
- **Code**: 4D5
- **Term**: M(8)
- **Form of assessment**: Exam
- **Prerequisites**: 3D2
- **On-line resources**: Moodle
- **Leader**: Dr S Stanier

### Module: Dynamics in civil engineering
- **Code**: 4D6
- **Term**: L(2)
- **Form of assessment**: Exam and coursework
- **Prerequisites**: 3D2, 3D4, 3D7
- **On-line resources**: Moodle
- **Leader**: Prof. F A McRobie

### Module: Concrete and Prestressed concrete
- **Code**: 4D7
- **Term**: M(4)
- **Form of assessment**: Exam and coursework
- **Prerequisites**: 2P8, 3D3, Eurocode 0
- **On-line resources**: Moodle
- **Leader**: Dr J Orr

### Module: Offshore Geotechnical Engineering
- **Code**: 4D9
- **Term**: L(5)
- **Form of assessment**: Exam
- **Prerequisites**: 3D2
- **On-line resources**: Moodle
- **Leader**: Dr C.N. Abadie

### Module: Structural steelwork
- **Code**: 4D10
- **Term**: M(3)
- **Form of assessment**: Exam and coursework
- **Prerequisites**: 3D4, 3D3
- **On-line resources**: Moodle
- **Leader**: Prof. F A McRobie
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<td>4D14</td>
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<td>4E21</td>
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### Group I: Imported Modules

Note that these modules are all imported from other courses, and hence might be timetabled at unusual times and in unusual places, and have a different course structure to other IIB modules. Also, many of them have a cap on numbers. However, they do provide a tremendous opportunity to learn about a wider range of technology than the Engineering Tripos would otherwise provide.

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<td>4M12</td>
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