Lectures proposed by the Board of the Faculty of Mathematics

MATHEMATICAL TRIPOS

Lectures proposed by the Board of the Faculty of Mathematics. Graduates of the University who are not reading for any University Examination may attend without payment any lectures proposed by the Faculty Board of Mathematics.

Note that the non-examinable courses on Topics in the History of Mathematics will be of interest to all students reading the Mathematical Tripos. Full details are given below.

PART IA

Lectures for Part IA of the Mathematical Tripos will be held in the Cockcroft Lecture Theatre unless otherwise stated.

Part IA students are recommended to attend the induction session which will be held from 9.30 a.m. to 10.30 a.m. on Wednesday 7 October 2015, in the Babbage Lecture Theatre.

A meeting will be held for all Part IA students on Friday 29 April 2016 at 2.00 p.m. in Mill Lane Room 3 to discuss examinations and examination techniques.

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<th>MICHAELMAS 2015</th>
<th>LENT 2016</th>
<th>EASTER 2016</th>
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<tr>
<td>Numbers and Sets</td>
<td>Vector Calculus</td>
<td>Optimisation*</td>
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<td>PROF. A. G. THOMASON</td>
<td>PROF. R. JOZSA</td>
<td>DR Q. BERTHET</td>
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<td>M. W. F. 10</td>
<td>M. W. F. 10</td>
<td>M. W. F. 10, Mill Lane Room 3 (Twelve lectures)</td>
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<tr>
<td>Vectors and Matrices</td>
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<td>PROF. N. PEAKE</td>
<td>PROF. F. P. KELLY</td>
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<td>M. W. F. 11</td>
<td>M. W. F. 11</td>
<td>M. W. F. 11, Mill Lane Room 3 (First lecture Th. 21 April, no lecture F. 22 April, twelve lectures)</td>
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<tr>
<td>Differential Equations</td>
<td>Analysis I</td>
<td>Variational Principles</td>
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<td>PROF. C. P. CAULFIELD</td>
<td>DR A. ZSÁK</td>
<td>PROF. P. K. TOWNSEND</td>
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<td>Tu. Th. S. 10</td>
<td>Tu. Th. S. 10</td>
<td>M. W. F. 12, Mill Lane Room 3 (First lecture Th. 21 April, no lecture F. 22 April, twelve lectures)</td>
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<td>Groups</td>
<td>Dynamics and Relativity</td>
<td>Computational Projects*</td>
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<td>DR J. GOEDECKE</td>
<td>PROF. G. I. OGILVIE</td>
<td>DR M. B. WINGATE</td>
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<td>Tu. Th. S. 11</td>
<td>Tu. Th. S. 11</td>
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Information for non-examinable courses and the Mathematics with Physics option appears below on the next page.
The following courses are non-examinable

**Introduction to Mechanics**  
DR P. O'DONNELL  
Tu. Th. 12, *Mill Lane Room 10* (Twelve lectures)

**History of Mathematical Ideas: the Middle Ages to the Enlightenment**  
DR P. BURSILL-HALL  
W. F. 4, *Centre for Mathematical Sciences, MR3*

**Concepts in Theoretical Physics**  
– CANCELLED  
DR D. D. BAUMANN  
Tu. Th. 11 (Eight lectures)

**History of Mathematical Ideas: Ancient Mathematics**  
DR P. BURSILL-HALL  
W. F. 4, *Centre for Mathematical Sciences, MR3*

**History of Science for Mathmos: Early Sciences**  
DR P. BURSILL-HALL  
Th. 4, *Centre for Mathematical Sciences, MR3*

**History of 19th Century Mathematics**  
DR P. BURSILL-HALL AND STUDENTS  
W. F. 4, *Centre for Mathematical Sciences, MR3*

* Examined in Part IB of the Tripos

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**Mathematics with Physics Option:**

Students taking this option should attend Vectors and Matrices, Groups, Differential Equations, Analysis I, Vector Calculus and Probability from Part IA of the Mathematical Tripos, together with the lectures listed at

http://www.timetable.cam.ac.uk/tripos/nst/IA/phy

in Part IA Physics of the Natural Sciences Tripos. They will be required to do Physics practical work, and should attend at least the first lecture of the Scientific Computing Course.