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.

Part IA students are recommended to attend the induction session which will be held from 9.30 a.m. to 10.45 a.m. on Wednesday 3 October 2012, in the Cockcroft Lecture Theatre.

A meeting will be held for all Part IA students on Friday 10 May 2013 at 2.00 p.m. in Mill Lane Room 3 to discuss examinations and examination techniques.

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

<table>
<thead>
<tr>
<th>MICHAELMAS 2012</th>
<th>LENT 2013</th>
<th>EASTER 2013</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PART IA</strong></td>
<td></td>
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<tr>
<td>Numbers and Sets</td>
<td>PROF. I. B. LEADER</td>
<td>M. W. F. 10</td>
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<tr>
<td>Vectors and Matrices</td>
<td>PROF. P. F. LINDEN</td>
<td>M. W. F. 11</td>
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<tr>
<td>Differential Equations</td>
<td>DR. C. P. CAULFIELD</td>
<td>Tu. Th. S. 10</td>
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<tr>
<td>Groups</td>
<td>DR. R. D. CAMINA</td>
<td>Tu. Th. S. 11</td>
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<tr>
<td>Dynamics and Relativity</td>
<td>PROF. D. TONG</td>
<td>M. W. F. 10</td>
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<tr>
<td>Analysis I</td>
<td>DR. V. R. NEALE</td>
<td>M. W. F. 11</td>
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<tr>
<td>Vector Calculus</td>
<td>DR. J. M. EVANS</td>
<td>Tu. Th. S. 10</td>
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<tr>
<td>Probability</td>
<td>PROF. F. P. KELLY</td>
<td>Tu. Th. S. 11</td>
</tr>
<tr>
<td>Optimisation*</td>
<td>DR. F. A. FISCHER</td>
<td>M. W. F. 9, Mill Lane Room 3 (Twelve lectures)</td>
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<tr>
<td>Variational Principles*</td>
<td>PROF. N. PEAKE</td>
<td>M. W. F. 10, Mill Lane Room 3 (Twelve lectures)</td>
</tr>
<tr>
<td>Metric and Topological Spaces*</td>
<td>PROF. T. W. KÖRNER</td>
<td>M. W. F. 11, Mill Lane Room 3 (Twelve lectures)</td>
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<tr>
<td>Computational Projects*</td>
<td>DR. S. J. COWLEY</td>
<td>Tu. Th. 10 (Eight lectures)</td>
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</tbody>
</table>

Information for non-examinable courses and the Mathematics with Physics option appears below on the next page.
### The following courses are non-examinable

<table>
<thead>
<tr>
<th>Course</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td><strong>Introduction to Mechanics</strong></td>
<td>Tu. Th. 12, Arts School, Room B, Bene’t Street</td>
<td>(Twelve lectures)</td>
</tr>
<tr>
<td><strong>Topics in the History of Mathematics: Renaissance to Enlightenment</strong></td>
<td>W. F. 4, Centre for Mathematical Sciences, MR3</td>
<td></td>
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<tr>
<td><strong>Concepts in Theoretical Physics</strong></td>
<td>Tu. Th. 11</td>
<td></td>
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<tr>
<td><strong>Topics in the History of 19th Century Mathematics</strong></td>
<td>W. F. 4, Centre for Mathematical Sciences, MR3</td>
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</tbody>
</table>

* Examined in Part IB of the Tripos

### Mathematics with Physics Option:

Students taking this third 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


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 which takes place on Thursday 18th October at 12.00 in Mill Lane Room 3.