

UNIVERSITY OF CAMBRIDGE DEPARTMENT OF COMPUTER  
SCIENCE AND TECHNOLOGY

COMPUTER SCIENCE TRIPOS, PART IA, 2019

Announcement by the Head of Department

This Announcement relates to Regulation 11 of the Computer Science Tripos which is as follows:

11. A candidate for Part IA shall submit to the Head of the Department a portfolio of assessed laboratory work. The Head of the Department shall announce not later than the division of the Michaelmas Term next preceding the examination the nature of the laboratory work to be undertaken and the dates by which, and the manner in which, the results of such work are to be presented. The Examiners shall be provided by the Head of the Department with assessments of the work submitted by each candidate, and shall take these assessments into account when assigning marks for the examination.

**Work to be Undertaken**

During 2018–19, candidates taking Part IA of the Computer Science Tripos are required to undertake the following 21 units of assessed course work:

ML Practicals —	5 ticks
Hardware Laboratory —	7 ticks
Java Practicals —	5 ticks
Algorithms Practicals —	3 ticks
Scientific Computing —	1 tick

In addition, candidates taking Paper 3 under Regulation 10 are required to undertake the following 23 units of assessed course work:

Database Practicals —	3 ticks
Introduction to Graphics Practicals —	2 ticks
Machine Learning and Real-world Data Practicals —	12 ticks
Interaction Design Practicals —	6 ticks

Further details will be given by the proprietors of the associated classes. In particular there are internal deadlines for individual exercises that *must* be adhered to.

The exercises and experiments will be assessed weekly in term. The work must be completed to a high standard; this requires more than simply obtaining the required result.

Candidates will be interviewed to assess a selection of their reports. Each unit of course work that has been adequately completed will be given a tick. Fractions of ticks will not be awarded.

**Submission of Portfolio**

To satisfy the requirements of Regulation 14, assessed reports will, once they have been accepted, be retained by the Department.

Candidates should ensure that their portfolio of marks is correctly recorded by 12 noon on Friday 24 May 2019. Any shortfall from the required number of ticks incurs a penalty of 10 marks per missing tick. The maximum penalty is 100 marks (one full paper). It is expected that all candidates achieve all the ticks allocated to their cohort.

A. Copestake  
Head of the Department

UNIVERSITY OF CAMBRIDGE DEPARTMENT OF COMPUTER  
SCIENCE AND TECHNOLOGY

NATURAL SCIENCES TRIPOS, PART IA, 2019  
(SUBJECT COMPUTER SCIENCE)

**Announcement by the Head of the Department**

This Announcement applies to candidates who are not Computer Scientists but who are offering Paper 1 of the Computer Science Tripos. The Announcement relates to Regulation 11 of the Computer Science Tripos which is as follows:

11. A candidate for Part IA shall submit to the Head of the Department a portfolio of assessed laboratory work. The Head of the Department shall announce not later than the division of the Michaelmas Term next preceding the examination the nature of the laboratory work to be undertaken and the dates by which, and the manner in which, the results of such work are to be presented. The Examiners shall be provided by the Head of the Department with assessments of the work submitted by each candidate, and shall take these assessments into account when assigning marks for the examination.

**Work to be Undertaken**

During 2018–19, candidates taking the Computer Science option of Part IA of the Natural Sciences Tripos or the Introduction to Computer Science paper in Part I of the Politics, Psychology and Sociology Tripos are required to undertake the following 10 units of assessed course work:

ML Practicals —	4 ticks
Java Practicals —	5 ticks
Algorithms Practical —	1 tick

Further details will be given by the proprietors of the associated classes. In particular there are internal deadlines for the ML, Java and Algorithms exercises that *must* be adhered to.

The exercises and experiments will be assessed weekly in term. The work must be completed to a high standard; this requires more than simply obtaining the required result.

Candidates will be interviewed to assess a selection of their reports. Each unit of course work that has been adequately completed will be given a tick. Fractions of ticks will not be awarded.

**Submission of Portfolio**

To satisfy the requirements of Regulation 14, assessed reports will, once they have been accepted, be retained by the Department.

Candidates should ensure that their portfolio of marks is correctly recorded by 12 noon on Friday 24 May 2019. Any shortfall from the required number of ticks incurs a penalty. It is expected that all candidates achieve all the ticks allocated to their cohort.

A. Copestake  
Head of the Department

UNIVERSITY OF CAMBRIDGE DEPARTMENT OF COMPUTER  
SCIENCE AND TECHNOLOGY

COMPUTER SCIENCE TRIPOS, PART IB, 2019

Announcement by the Head of Department

This Announcement relates to Regulation 14 of the Computer Science Tripos which is as follows:

14. A candidate for Part IB shall submit to the Head of the Department a portfolio of assessed laboratory work. The Head of the Department shall announce not later than the division of the Michaelmas Term next preceding the examination the nature of the laboratory work to be undertaken and the dates by which, and the manner in which, the results of such work are to be presented. The Examiners shall be provided by the Head of the Department with assessments of the work submitted by each candidate, and shall take these assessments into account when assigning marks for the examination.

Note that this Regulation applies to all candidates whether or not they are for honours.

**Work to be Undertaken**

During 2018–19, Part IB candidates are required to undertake the following units of assessed course work.

All Part IB candidates should complete the following ticks:

Exercises	Deadlines
Further Java course (counting as <i>two</i> ticks)	5pm, 16 November 2018 5pm, 30 November 2018
ECAD ticks I and II	12 Noon, 25 January 2019
C programming tick	12 Noon, 18 February 2019
Group Project (counting as <i>four</i> ticks)	12 Noon, 8 March 2019
Security tick	12 noon, 24 May 2019

**In addition**

Part IB candidates taking Paper 3 should also complete the following:

Database Practicals —	3 ticks
Introduction to Graphics Practicals —	2 ticks
Machine Learning and Real-world Data Practicals —	12 ticks
Interaction Design Practicals —	6 ticks

Part IB candidates taking Paper 7 should also complete the following:

Exercises	Deadlines
Further Graphics tick	5pm, 25 October 2018

Further information, including details of the reports which must be handed in and the full ticks which will be awarded for a complete set of satisfactory submissions, will be given by the proprietors of the associated classes. In particular there are internal deadlines for individual exercises that *must* be adhered to.

Candidates will be interviewed about the contents of their reports. The work must be completed to a high standard; this requires more than simply obtaining the required result.

## **Submission of Portfolio**

To satisfy the requirements of Regulation 14, all reports will, once they have been accepted, be retained by the Department.

The Part IB examiners will be provided with the total number of ticks awarded to each candidate. Any shortfall from the required number of ticks incurs a penalty of 10 marks per missing tick. The maximum penalty is 100 marks (one full paper).

It is expected that all candidates achieve all the ticks allocated to their cohort.

A. Copestake  
Head of the Department

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COMPUTER SCIENCE TRIPOS, PART II, 2019

Announcement by the Head of Department

This Announcement relates to Regulation 16(a) of the Computer Science Tripos for students in Part II who have already taken Paper 7, which is as follows:

16(a). ...two units of assessment shall be offered, as specified by Notice of the Head of the Department not later than the end of the Easter term next preceding the examination;

Note that this Regulation applies to all candidates whether or not they are for honours.

**Work to be Undertaken**

Following the announcement of the available units of assessment at the end of Easter Term last, Part II candidates for 2018–19 are required to undertake two of the following units:

<b>Unit</b>	<b>Assessment type and mark contribution</b>
Cloud Computing	Two assignments (50%, 40%) Report (10%)
Data Science	Four exercises (20%); practical test and report (80%)
Metaprogramming	Three exercises (20% each); report (40%)
Multicore Semantics	Two exercises (50%, 25%); report (25%)
NLP	One exercise (20%); two reports (40% each)
Advanced Graphics	Two exercises (30% each); test (40%)
DSP	Test (40%); Three exercises (20% each)
Computer Music	Two reports (30%, 40%); presentation (30%)
Mobile Robots	Two exercises (30% each); report (24%); presentation (16%)
Prob. and Computation	One exercise (10%); test (90%)
Topics in Concurrency	Test (100%)

All exercises, reports, presentations and tests are graded. Ticks are pass-fail and it is expected that all candidates achieve all ticks (if any) in a given unit. The final deadline for all Units is noon on the last day of Full Term in the Term in which the Units are taught. Note that there are internal deadlines for individual exercises and tests that *must* be adhered to. Further information, including details of the exercises, reports and presentations which must be handed in, will be given by the proprietors of the associated classes.

**Submission of Portfolio**

To satisfy the requirements of Regulation 16(a), all reports will, once they have been accepted, be retained by the Department. The Part II examiners will be provided with the total number of marks awarded to each candidate.

A. Copestake  
Head of the Department