# CAMBRIDGE UNIVERSITY REPORTER

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#### NOTICES

#### Calendar

- 6 December, Friday. Full Term ends.
- 19 December, Thursday. Michaelmas Term ends.
- 25 December, Wednesday. Christmas Day. Scarlet Day.
- 5 January, Sunday. Lent Term begins.
- 14 January, Tuesday. Full Term begins.
- 15 January, Wednesday. First ordinary issue of the Reporter in the Lent Term.

# Naming of roads on the West and North West Cambridge sites

In accordance with the principles for the naming of roads, neighbourhoods and buildings on the West and North West Cambridge sites (*Reporter*, 6350, 2013–14, p. 610), the Council, on the recommendation of the West and North West Cambridge Estates Board, has approved the following list of names for roads on the West and North West Cambridge sites, for allocation by the Board. Further information is available at: http://www.nwcambridge.co.uk/consultation-street-naming.php.

# People with a strong connection with the University

Anscombe Geest Ayrton Grierson Barkla Gunn Bohr Hawking Bradbrook Hibbert-Ware Carpenter Hoyle Chamberlain Leakey Chandrasekhar MacKav Compton Marr Cox McDonald Crummell Mellon Davies Needham Edwards Ramanujan Franklin Reece

Richardson Rivers Robinson Rushton Shire Shrubsole Smith Spenser Watt Wolfson Woolf Zhimo

#### Physical features of the site

Ash Walnut
Bramble Furlong Willow
Observatory Woodman

Wagtail

# Anti-slavery and anti-trafficking statement and policy

# 2 December 2019

In accordance with Section 54 of the Modern Slavery Act 2015, the University is required to prepare an anti-slavery and anti-trafficking statement for each financial year, setting out what steps it has taken to ensure that modern slavery is not taking place in its business or supply chains. The University's statement for the financial year ended 31 July 2019 is published below, together with its policy on the issue.

# Anti-slavery and anti-trafficking statement for the financial year ended 31 July 2019 (pursuant to Section 54(1) of the Modern Slavery Act 2015)

# Legal status and activities

The University of Cambridge is a common law corporation and is an exempt charity under the Charities Act 2011. The incorporation of the University was confirmed by the Oxford and Cambridge Act 1571, which confirmed its corporate title of 'The Chancellor, Masters, and Scholars of the University of Cambridge'. The University operates in the higher education sector and consists of academic Schools, Faculties and Departments, libraries and other collections, administrative departments and, for the purposes of this statement, includes its wholly owned companies as listed in the University's Financial Statements. Its mission is to contribute to society through the pursuit of education, learning, and research at the highest international levels of excellence.

<sup>&</sup>lt;sup>1</sup> [Link to the relevant page of the Reports and Financial Statements for the year ended 31 July 2019]

Cambridge Assessment (which provides examination services) and Cambridge University Press (which provides publishing services) are departments of the University rather than separate legal entities. Cambridge Assessment is covered by this statement. Cambridge University Press, however, has a different financial year-end and broader supply chains, and consequently has produced its own anti-slavery and anti-trafficking statement.<sup>2</sup>

#### Policy

The University has implemented an anti-slavery and anti-trafficking policy (published below) reflecting its commitment to combatting slavery and human trafficking and to acting with integrity in all its dealings, relationships and supply chains. The policy outlines how the University's various procurement and HR practices, policies and procedures ensure compliance with its policy commitment.

## Enhancements to the policy in the year ended 31 July 2019

In order to enhance the University's policy commitment, the following specific measures were progressed during 2018–19:

- The creation and launch of an online training module on anti-slavery and anti-trafficking for a wide range of
  relevant new and existing employees, including all Finance Division staff and those in financial or purchasing
  roles across the wider University.
- The continued operation and refinement of controls within the trade supplier portal (to question potential new suppliers on their compliance with the Modern Slavery Act 2015 as part of due diligence processes) and the trade supplier approval process (so that the University's Finance Division reviews all new and amended suppliers and re-activation requests).
- Ongoing communications programmes with the University's Departments, Faculties and other Institutions and with current trade suppliers to maintain the high profile of the issue.

The University did not receive any reports of instances of modern slavery or human trafficking in the financial year ended 31 July 2019.

The University will continue to raise awareness of modern slavery and human trafficking and of the need for proper due diligence and risk assessment processes to be applied by staff and suppliers, in accordance with its policy.

This annual statement was approved by the Council on 2 December 2019.

#### Anti-slavery and anti-trafficking policy

Modern slavery encompasses slavery, forced and compulsory labour, and human trafficking whereby individuals are deprived of their freedom and are exploited for commercial or personal gain as enacted in the Modern Slavery Act 2015. The University is committed to combatting slavery and human trafficking and to acting with integrity in all its dealings, relationships, and supply chains. It expects the same high standards from all its staff, suppliers, contractors and those with whom it does business. This policy applies to all employees, workers, consultants and other persons doing business with the University including all its wholly owned companies, 1 contractors and suppliers. It applies to Cambridge Assessment though not to Cambridge University Press, which has developed its own policy.<sup>2</sup>

The University acknowledges the risk that a supply chain may involve the use of a hidden or unknown subcontractor reliant on forced labour. Although the University as a higher education institution considers the risk of modern slavery to be low due to the nature of its supply chains, it takes its responsibilities to combat modern slavery seriously as demonstrated by its promotion and adoption of the following policy measures:

- The prevention, detection and reporting of modern slavery in any part of its business or supply chains is the responsibility of all those working for the University or under its control.
- Appropriate due diligence processes must be carried out in relation to modern slavery which may include considering
  human rights in a sector or country, the type of sector in which a service provider operates, the countries from which
  services are provided, the nature of relationships with suppliers, and the complexity of supply chain(s).
- All supply chain lines need to be continually risk assessed and managed in relation to modern slavery and any
  high-risk suppliers audited. The University's standard procurement and contract documentation<sup>3</sup> addresses antislavery and anti-trafficking. Staff working in the central Finance Division and in other finance-focused roles
  across the University are specifically trained in the importance of these provisions.
- The University encourages anyone to raise any concerns about modern slavery, using its whistleblowing policy<sup>4</sup> if necessary, and will support anyone who acts in good faith.
- The University's recruitment, dignity@work, equalities, and remuneration and reward policies and procedures<sup>5</sup> support its efforts to combat modern slavery and human trafficking.
- Cambridge Assessment has equivalent provisions in its separate procurement, whistleblowing and HR policies and procedures.
- The University will continue to develop its commitment to combat modern slavery and human trafficking and will
  outline such activities within its annual anti-slavery and anti-trafficking statement.

Any breaches of this policy may result in the University taking disciplinary action against individual(s) and/or terminating its relationship with any organisation or supplier.

This policy is managed by the Registrary's Office and was last approved by the Council on 2 December 2019.

- <sup>1</sup> [Link to the relevant page of the Reports and Financial Statements for the year ended 31 July 2019]
- <sup>2</sup> http://www.cambridge.org/about-us/legal-notices/anti-slavery-and-human-trafficking/
- <sup>3</sup> https://www.admin.cam.ac.uk/offices/purchasing/suppliers/new/
- <sup>4</sup> https://www.hr.admin.cam.ac.uk/policies-procedures/whistleblowing-policy-public-disclosure-university-employees
- 5 Respectively, https://www.hr.admin.cam.ac.uk/recruitment-guidance, https://www.hr.admin.cam.ac.uk/policies-procedures/dignity-work-policy, https://www.hr.admin.cam.ac.uk/policies-procedures/equal-opportunities-policy; https://www.hr.admin.cam.ac.uk/pay-benefits/pay

## VACANCIES, APPOINTMENTS, ETC.

# Vacancies in the University

A full list of current vacancies can be found at http://www.jobs.cam.ac.uk.

Director of the Cambridge Heart and Lung Research Institute (HLRI) in the Department of Medicine; tenure: from 1 April 2020 or as soon as possible thereafter; closing date: 3 February 2020; the Director will be appointed to, or already hold, a Professorial appointment within the University; informal enquiries: Professor Patrick Maxwell, Regius Professor of Physic (email: regius@medschl.cam.ac.uk), Professor Ken Smith, Head of Department of Medicine (email: kgcs2@medschl.cam.ac.uk) or Professor John Danesh, Head of Department of Public Health and Primary Care (email: jd292@medschl.cam.ac.uk); further details: http://www.jobs.cam.ac.uk/job/24226/; quote reference: RC21607

University Lecturer / University Senior Lecturer in Small Animal Surgery (soft tissue or orthopaedics) in the Department of Veterinary Medicine; tenure: from 1 March 2020 or as soon as possible thereafter; salary: £41,526–£52,559 or £55,751–£59,135; closing date: 2 January 2020; further details: http://www.jobs.cam.ac.uk/job/24057/; quote reference: PP21446

University Lecturer / University Senior Lecturer in Veterinary Anaesthesia in the Department of Veterinary Medicine; tenure: from 1 March 2020 or as soon as possible thereafter; salary: £41,526–£52,559 or £55,751–£59,135; closing date: 2 January 2020; further details: http://www.jobs.cam.ac.uk/job/24033/; quote reference: PP21441

The University values diversity and is committed to equality of opportunity.

The University has a responsibility to ensure that all employees are eligible to live and work in the UK.

# EVENTS, COURSES, ETC.

# Announcement of lectures, seminars, etc.

The University offers a large number of lectures, seminars and other events, many of which are free of charge, to members of the University and others who are interested. Details can be found on individual Faculty, Department and institution websites, on the What's On website (http://www.admin.cam.ac.uk/whatson/) and on Talks.cam (http://www.talks.cam. ac.uk/). A variety of training courses are also available to members of the University, information and booking for which can be found online at http://www.training.cam.ac.uk/.

Brief details of upcoming events are given below.

History of Art

The Slade Professor of Fine Art Lecture Series 2020: Avatars of antiquity: premise and practice in European painting and sculpture, 1500–2000, by Dr Nicholas Penny; lectures will take place at 5 p.m. every Tuesday from 21 January to 10 March 2020, in LG18, Faculty of Law

https://www.hoart.cam.ac.uk/ aboutthedept/sladeprofs

## NOTICES BY THE GENERAL BOARD

# Study leave for holders of certain University offices

# With immediate effect

27 November 2019

The General Board has agreed to add the following offices to the Schedule of those whose holders may apply for study leave on the same conditions as are laid down in Special Ordinance C (i) 1 for University officers specified in the Schedule to Special Ordinance C (i) 1 (*Statutes and Ordinances*, p. 72). The Notice concerning Study Leave for Holders of Certain University Offices (reproduced in *Statutes and Ordinances*, p. 698) has been amended accordingly.

Fitzwilliam Museum

Keeper of Paintings, Drawings and Prints. Keeper of Applied Arts. Keeper of Coins and Medals. Keeper of Manuscripts and Printed Books.

#### REGULATIONS FOR EXAMINATIONS

# **Psychological and Behavioural Sciences Tripos**

(Statutes and Ordinances, p. 430)

#### With immediate effect

The General Board, on the recommendation of the Faculty Board of Biology, has approved amendments to the regulations for the Psychological and Behavioural Sciences Tripos to remove unnecessary wording and clarify the date of submission of the research dissertation.

By amending the following regulations so as to read:

GENERAL

Regulation 7.

7. The Committee of Management shall have power to nominate one or more Examiners and Assessors to examine in any of the subjects of the Tripos.

PART IA

Regulation 12.

12. The scheme of examination for Part IA shall be as follows:

## Section A

PBS 1. Introduction to psychology

PBS 2. Psychological enquiry and methods

#### Section B

Optional papers from the list published in accordance with Regulation 9.

PART IB1

Regulation 16.

16. The scheme of examination for Part IB shall be as follows:

PBS 3. Social and developmental psychology

PBS 4. Cognitive neuroscience and experimental psychology (lectures and practicals drawn from the subject Experimental Psychology in Part IB of the Natural Sciences Tripos)

PART II<sup>1</sup>

Regulation 22.

- 22. Candidates for Part II shall submit a research dissertation in an area of Psychology.
- (a) The topic of the dissertation shall be a subject either proposed by the candidate and approved by the Committee of Management or chosen by the candidate from a list of subjects approved by the Committee of Management which will be announced before the beginning of the Michaelmas Term. After the Committee of Management has approved a topic no substantial change may be made in it without the further approval of the Committee of Management.
- (b) The research dissertation shall contain full references to any sources used in its composition, and shall be of not more than 7,000 words in length, including footnotes but excluding any tables, figures, captions, bibliography and appendices.
- (c) The research dissertation shall be submitted to the Examiners not later than the tenth day of Full Easter Term in which the examination is to be held.

Each dissertation shall bear the candidate's examination number but not the candidate's name and a declaration that it is the candidate's own original work, and that it does not contain material that has already been used to any substantial extent for a comparable purpose.

<sup>&</sup>lt;sup>1</sup> See Temporary Regulation 23, Statutes and Ordinances, p. 432.

# Developmental Biology for the M.Phil. Degree

(Statutes and Ordinances, p. 531)

#### With effect from 1 October 2020

The General Board, on the recommendation of the Faculty Board of Biology, has approved the restructuring of the examination in Developmental Biology for the degree of Master of Philosophy to bring the assessment into line with other Master of Philosophy degrees within the Faculty of Biology. The special regulations for the examination have therefore been amended as follows.

#### DEVELOPMENTAL BIOLOGY

- 1. The scheme of examination for the one-year course of study in Developmental Biology for the degree of Master of Philosophy shall consist of:
  - (a) one essay, not exceeding 5,000 words in length, on a topic approved by the Degree Committee for the Faculty of Biology. With the permission of the Degree Committee, the essay may be a research proposal for a prospective Ph.D. project;
  - (b) an MCQ paper on Research methods and statistics critical appraisal; and
  - (c) a report on the research project, approved or prescribed by the Degree Committee, and not exceeding 10,000 words in length, including tables, figure legends, and appendices, but excluding bibliography.
- 2. The examination shall include an oral examination on the work submitted by the candidate under (a)—(c) above and on the general field of knowledge within which such work falls.

# Writing for Performance for the M.St. Degree

# With effect from 1 September 2020

The General Board, on the recommendation of the Faculty Board of English, has approved Writing for Performance as a subject for the degree of Master of Studies with effect from 1 September 2020. Special Regulations for the examination in the subject have been approved as follows:

# WRITING FOR PERFORMANCE

- 1. The scheme of examination for the course of study in Writing for Performance, for the degree of Master of Studies shall consist of:
  - (a) a portfolio of creative work or compositions, totalling 20 pages of script/screenplay/performance text; two critical essays of 3,000 words each; and one piece of reflective writing of 2,000 words, on a topic to be approved by the Degree Committee for the Faculty of English;
  - (b) a dissertation in the form of a portfolio of creative and critical writing on a subject approved by the Degree Committee, comprising a 5,000-word reflective and critical essay (including footnotes and appendices), and an extract from a larger creative project (a 90-minute stage play or screenplay, or two 45-minute TV episodes, or 90-minutes of performance text/stand-up text) with a synopsis of the broader work and a covering letter to a literary agent.
- **2.** At the discretion of the Examiners the examination may include an oral examination on one or more of the pieces of work submitted by the candidate under 1(a) and (b).
- 3. The Examiners may recommend to the Degree Committee that it recommends to the Strategic Committee of the Institute of Continuing Education the award of the Postgraduate Certificate to a candidate who has satisfactorily completed the requirements specified in Regulation 1(a) and who does not complete, or fails to reach the required standard, in the requirements set out under Regulation 1(b).

# Diplomas and Certificates open to non-members of the University

(Statutes and Ordinances, p. 603)

# With effect from 1 January 2020

The General Board, on the recommendation of the Strategic Committee of the Institute of Continuing Education, has approved the following additions to the Schedule of Diplomas and Certificates open to non-members of the University:

Certificates

Institute of Continuing Education

Certificate in Creative Writing: Fiction, Non-fiction and Writing for Performance (External Delivery)

Postgraduate Certificate in Philosophy

## NOTICES BY FACULTY BOARDS, ETC.

# Engineering Tripos, Parts IIA and IIB, 2019–20: Module withdrawal

The Faculty Board of Engineering gives notice of an amendment to the list of modules published on 12 June 2019 (*Reporter*, 6551, 2018–19, p. 676).

The following module will no longer be offered:

PART IIB: MODULES

Group B: Electrical engineering

4B26 Advanced devices for high frequency electronics and biosensing

The Faculty Board is satisfied that no student will be adversely affected by the change.

## FORM AND CONDUCT OF EXAMINATIONS

Notices by Faculty Boards, or other bodies concerned, of changes to the form and conduct of certain examinations to be held in 2019–20, by comparison with those examinations in 2018–19, are published below. Complete details of the form and conduct of all examinations are available from the Faculties or Departments concerned.

# English Tripos, Parts I and II, 2019–20

The Faculty Board of English gives notice that the form and conduct of the following papers available for Parts I and II of the English Tripos in the academic year 2019–20 will be as stated below.

#### PART 1

Paper 3. English literature and its contexts, 1300–1550

This paper will be assessed by a three-hour examination. The paper will be divided into two sections.

All candidates are required to answer Section A Question 1, part (a) and either part (b) or part (c). In addition, candidates are required to answer two questions from Section B.

Section A 1 (a). All candidates are required to translate a passage from the prescribed text for translation. The translation should be into good, modern English prose. Candidates are advised that this exercise will carry one third of the marks for this section, and they should allocate their time accordingly.

Section A 1 (b) or (c). Candidates are required to answer questions on a passage from one of the prescribed texts for commentary. They cannot then answer a Section B question on this text. Candidates will be required to show detailed knowledge of the set passage and knowledge of the text as a whole. Questions will ask candidates to comment on various features that may include such things as diction, style and basic grammar used in the passage, and will invite candidates to comment on the literary qualities of the passage and on themes in the work. Candidates will be required to translate certain phrases or words into good, modern English prose. Candidates are advised that this exercise will carry two thirds of the marks for Section A, and they should allocate their time accordingly.

Prescribed text for translation: Sir Gawain and the Green Knight, in The Works of the Gawain Poet. Sir Gawain and the Green Knight. Pearl, Cleanness and Patience, ed. Ad Putter and Myra Stokes (London: Penguin, 2014), pp. 237–406, lines 1–490). Prescribed texts for commentary: Geoffrey Chaucer, Troilus and Criseyde, ed. B. A. Windeatt (Harmondsworth, 2004) or in The Riverside Chaucer, gen. ed. Larry D. Benson (Oxford, 1987). Set passage: Book 2, lines 1541–1757 and Book 3, lines 1–889; and William Langland, Piers Plowman: A New Annotated Edition of the C-text, ed. D. Pearsall (University of Exeter Press, 2008), Passus 5, line 1 to Passus 7, 1. 308.

Section B will contain questions on literature of the period 1300–1550 and its contexts. Each answer in Section B will carry one third of the marks for the paper as a whole.

#### PART II

Paper 9. Love, gender, sexuality, 1740–1824

This paper will be assessed by a three-hour examination. Candidates will be required to answer any three questions.

Each individual answer must deal substantially with material from the period 1740–1824, although candidates are welcome to bring in material from outside these dates where appropriate.

In answering any question, candidates may discuss other media in addition to (or instead of) written material. However, the greater part of a candidate's script taken as a whole should concentrate on written material.

Candidates are also free to discuss writings not originally written in English. However, again, the greater part of a candidate's script taken as a whole should concentrate on works originally written in English.

Paper 11. Prose forms, 1936-56

This paper will be assessed by a three-hour examination.

The paper will be divided into two sections. All candidates are required to answer Section A and two questions in Section B. At least one of the answers in Section B must include substantial discussion of two or more authors.

# History and Modern Languages Tripos, Parts IA and IB, 2020

The Faculty Board of Modern and Medieval Languages gives notice that, with effect from the examinations to be held in 2020, the form of the examination for the following papers for the History and Modern Languages Tripos will be as specified below.

The Faculty Board is satisfied that no student's preparation for the examination will be adversely affected by the changes.

PART IA

German

#### Ge.A3 - Introduction to German 3: German culture

The paper has been restructured to include additional topics with crossover with Ge.1 *Introduction to German Studies*. Candidates will be asked to answer three questions out of five instead of all three sections.

Spanish

#### Sp.B1 – Use of Spanish

The number of words required in answer to Question 8 (argued response) will be reduced from 350–400 to 250–300 words. All other aspects of the examination paper are unchanged.

Slavonic

#### Sl.A1 - Introduction to the Russian Language 1: Use of Russian

Section A, Question 7 will be reworded from 'Replace который-clauses with participial clauses' to 'Replace который-clauses with participial phrases'.

Section A, Question 8 will be reworded from 'Replace the underlined section with clauses containing verbal adverbs' with 'Replace the underlined sections with phrases containing verbal adverbs'.

The question in Section C (a) Content will be reworded from 'Answer the following questions in **Russian**' to 'Answer the following questions in **Russian**, using your own words'.

PART IB

Spanish

#### Sp.B1 – Use of Spanish

The number of words required in answer to Question 8 (argued response) will be reduced from 350–400 to 250–300 words. All other aspects of the examination paper are unchanged.

# Modern and Medieval Languages Tripos, 2020

The Faculty Board of Modern and Medieval Languages and Linguistics gives notice that, with effect from the examinations to be held in 2020, the form of the examination for the following papers for the Modern and Medieval Languages Tripos will be as specified below.

The Faculty Board is satisfied that no student's preparation for the examination will be adversely affected by these changes.

PART IA

SCHEDULE A

German

# Ge.A3 - Introduction to German 3: German culture

The paper has been restructured to include additional topics with crossover with Ge.1 *Introduction to German Studies*. Candidates will be asked to answer three questions out of five instead of all three sections.

Spanish

### Sp.B1 – Use of Spanish

The number of words required in answer to Question 8 (argued response) will be reduced from 350–400 to 250–300 words. All other aspects of the examination paper are unchanged.

Slavonic

# Sl.A1 – Introduction to the Russian Language 1: Use of Russian

Section A, Question 7 will be reworded from 'Replace который-clauses with participial clauses' to 'Replace который-clauses with participial phrases'.

Section A, Question 8 will be reworded from 'Replace the underlined section with clauses containing verbal adverbs' with 'Replace the underlined sections with phrases containing verbal adverbs'.

The question in Section C (a) Content will be reworded from 'Answer the following questions in **Russian**' to 'Answer the following questions in **Russian**, using your own words'.

PART IB

SCHEDULE A

Spanish

#### Sp.B1 – Use of Spanish

The number of words required in answer to Question 8 (argued response) will be reduced from 350–400 to 250–300 words. All other aspects of the examination paper are unchanged.

PART II

SCHEDULE B

French

## Fr.9 - Reason, experience and authority: French literature, thought and history, 1594-1700

The topic heading at Section A will be renamed from 'The Passions and Theories of Literature' to 'Gender Politics and Soundscapes'.

All other aspects of the examination paper are unchanged.

Spanish

#### Sp.10 – The culture and language of contemporary Catalonia

The mode of assessment for this paper has changed.

There will be three cultural topics covered by the paper. Candidates will be required to take a two-hour written cultural examination (Sp.10C – format unchanged from Tripos 2019) and a twenty-minute oral examination conducted in Catalan. The topic for discussion in the oral examination will be one of the three cultural topics covered in the course. Students will select the topic they wish to discuss in the oral examination in advance. Students may not answer questions on the topic selected for the oral examination in the written examination.

# Natural Sciences Tripos, 2019–20 and Materials Science for the M.A.St. Degree, 2019–20

The Committee of Management for the Natural Sciences Tripos gives notice that, with effect from the examinations to be held in 2020, the form of the examinations for the following papers will be changed as follows:

# Part IA

Evolution and Behaviour

Assessed practicals will carry 25% of the total mark. All practicals (with the exception of the first Michaelmas Term practical) will be assessed. The Examiners may require the assessed practical work to be handed in for inspection.

Materials Science

One written examination paper will be set, of three hours' duration. The paper will consist of seven questions, from which candidates will be required to answer any five.

The written examination paper will count for 85% of the total mark for Part IA Materials Science. Practical work will be continuously assessed throughout the year and will count for 15% of the total mark for Part IA Materials Science.

# Mathematical Biology

There will be one written paper of three hours' duration carrying 80% of the total marks. Section A will consist of questions on material covered in the first half of the Michaelmas Term; Section B of questions on material covered in the second half of the Michaelmas Term; Section D of questions on material covered in the second half of the Lent Term; and Section E of questions on material covered in the Easter Term. There will be two questions in each section. Candidates will be required to answer eight questions, selecting at least one question from each section. No more than one of the questions in Section B will require material covered in the last six lectures of the Michaelmas Term. No questions in Section E will require material covered in the first four lectures of the Easter Term, which will instead be assessed by exercises undertaken during practical classes; both questions in Section E on the written paper will therefore focus on material covered in the last eight lectures of the Easter Term.

Assessment of the practical component of the course will carry 20% of the total marks. Candidates will be required to submit a total of three exercises for assessment. The first exercise – accounting for 8% of the total marks – will be set on the material covered during the Michaelmas Term. This first exercise must be submitted for assessment by the beginning of Week 3 of the Lent Term. The second exercise – again accounting for 8% of the total marks – will be set on the material covered during the Lent Term. This second exercise must be submitted by the beginning of Week 3 of the Easter Term. The third exercise – accounting for 4% of the total marks – will focus on the material taught in the first four lectures of the Easter Term. This third exercise must be submitted by the beginning of Week 4 of the Easter Term.

#### Part IB

Earth Sciences B

Theory Paper 1

Section A will no longer contain a question related to the optical indicatrix. The question on phase diagrams for igneous systems that has usually been found in Section B will move to Section A. In Section B, an additional quantitative question will examine a new five-lecture block entitled 'Earth's Internal Structure and Mineralogy', which replaces the five-lecture block entitled 'Metamorphic mineralogy' in Lent Term 2020. This question will relate to the use of seismology and other geophysical observations to constrain the structure, dynamics and composition of the deep Earth.

## Practical Paper 1

Section A will contain a question examining both crystal symmetry and optics, which may involve a ball and spoke model.

Full details of the examination can be found in the Course Guide: https://www.esc.cam.ac.uk/teaching/earth-sciences-course/part-iba/iba-course-guide.pdf

All other parts of the examination remain unchanged. All other papers remain unchanged.

#### Materials Science

Two written papers will be set, each of three hours' duration. Each paper will consist of seven questions, from which candidates will be required to answer any five.

The written examination papers will count for 80% of the total mark for Part IB Materials Science. Practical work will be continuously assessed throughout the year and will count for 20% of the total mark for Part IB Materials Science.

#### Physics A

Paper 1 will contain four sections; all questions will be compulsory. Section A will contain five short questions, and is worth about one fifth of the total marks for the paper; Section B will contain two problem questions on Quantum physics; Section C will contain one question on Quantum physics; this question can be an essay, brief notes, or a largely descriptive question; Section D will contain one problem question on Experimental methods.

Paper 2 will contain four sections; all questions will be compulsory. Section A will contain five short questions, and is worth about one fifth of the total marks for the paper; Section B will contain two problem questions on Oscillations, waves, and optics; Section C will contain one problem question on Condensed matter physics; Section D will contain one brief notes question on Oscillations, waves, and optics and/or Condensed matter physics.

#### Physics B

Paper 1 will contain three sections; all questions will be compulsory. Section A will contain five short questions, and is worth about one fifth of the total marks for the paper; Section B will contain two problem questions on Electromagnetism; Section C will contain two problem questions on Classical dynamics.

Paper 2 will contain three sections; all questions will be compulsory. Section A will contain five short questions, and is worth about one fifth of the total marks for the paper; Section B will contain one question on Electromagnetism and one question on Classical dynamics, these questions being essays, brief notes, or largely descriptive questions; Section C will contain two problem questions on Thermodynamics.

#### Part II

Materials Science

Four written papers will be set, each of three hours' duration.

Paper 1 will be a general paper covering a range of topics from the course. On Paper 1, there will be a single question and candidates should answer all parts of the question.

Papers 2–4 will each consist of eight questions, based primarily on a grouping of lecture courses. On each of Papers 2–4, candidates should answer five questions, each of which carry equal credit.

All four written papers carry equal credit and in total the written examinations count for 70% of the total mark for Part II Materials Science.

Continuously-assessed work will count for 30% of the total mark for Part II Materials Science.

## Psychology

Paper 2: Cognitive and Experimental Psychology

The examination will consist of a three-hour written paper, consisting of multiple sections. Each section will correspond to a different eight-lecture topic from the course, and there will be as many sections as there are eight-lecture topics. The following rubric will be used:

Answer three questions, taking not more than one from a single section.

# Paper 3: Behavioural and Cognitive Neuroscience

The examination will consist of a three-hour written paper, consisting of multiple sections. Each section will correspond to a different eight-lecture topic from the course, and there will be as many sections as there are eight-lecture topics. The following rubric will be used:

Answer three questions, taking not more than one from a single section.

#### Zoology

The Research Project Proposal will comprise 6% of the final mark. The research project proposal shall be on a subject chosen by the candidate from a list of approved subjects announced by the Head of the Department of Zoology not later than the end of the first quarter of the Michaelmas Term. The research project proposal shall be submitted to the Examiners on a date which the Head of the Department shall announce not later than the end of the first quarter of the Michaelmas Term.

As of 2020 final marks will be composed of the following:

- 1. 64% four written papers of three hours each;
- 2. 24% project work or practical work, or both;
- 3. 6% presentation of their project work;
- 4. 6% a research project proposal of not more than 2,000 words, excluding tables and bibliography.

#### Part III and M.A.St.

Materials Science

Three written papers will be set, each of three hours' duration.

Section A of Paper 1 will contain questions based on the short (six-lecture) modules, there being one question from each such module. Section B of Paper 1 will contain five essay titles. Candidates should answer three questions from Section A and one question from Section B.

Paper 2 will contain a section for each Michaelmas Term twelve-lecture course, each section consisting of two questions. Candidates must answer a total of five questions, selected from at least four different sections.

Paper 3 will contain a section for each Lent Term twelve-lecture course, each section consisting of two questions. Candidates must answer a total of five questions, selected from at least four different sections.

In total, the written examinations count for 61% of the total mark for Part III Materials Science. Paper 1 will be worth 17% of the total marks for Part III Materials Science, and Papers 2 and 3 will each be worth 22% of the total marks for Part III Materials Science.

The Vacation Report and Presentation will be worth 2% of the total marks for Part III Materials Science.

The Individual Research Project will count for 37% of the total mark for Part III Materials Science.

# Psychological and Behavioural Sciences Tripos, 2020

The Faculty Board of Biology gives notice that, with effect from the examinations to be held in 2020, the form of the examination for certain papers in the Psychological and Behavioural Sciences Tripos will be changed as follows:

PART IA

PBS 1: Introduction to Psychology

Sections A and B will be removed. The following rubric will be used:

The examination will consist of a three-hour written paper. Candidates must answer four questions from the selection given.

Part II

PBS 6: Developmental Psychopathology

The examination will consist of a three-hour written paper, consisting of multiple sections. Each section will correspond to a different eight-lecture topic from the course, and there will be as many sections as there are eight-lecture topics. The following rubric will be used:

Answer three questions, taking not more than one from a single section.

# PBS 7: Advanced topics in Social and Applied Psychology

The examination will consist of a three-hour written paper, consisting of multiple sections. Each section will correspond to a different eight-lecture topic from the course, and there will be as many sections as there are eight-lecture topics. The following rubric will be used:

Answer three questions, taking not more than one from a single section.

# Master of Business Administration, Lent Term 2020

The Faculty Board of Business and Management gives notice that in the Lent Term 2020 the subjects for examination for the degree of Master of Business Administration will be as listed below. The method of examination is shown for each subject.

# 12. Option A: one-year course

# 12. (b) Elective modules

# Lent Term 2020

| Subject  | Form of assessment  |
|--|---|
| MBA83 Behavioural finance  | Individual assignment – 3,000 words (100%)  |
| MBA126 Building customer centric organisations                               | Group project and presentation – 15 minutes, deck of up to 20 slides (100%)   |
| MBA70 Cases in corporate finance   | Group assignment – 2,500 words (100%)   |
| MBA40 Creative arts and media management                                     | Group assignment – 3,000 words (100%)   |
| MBA79 Digital marketing  | Group presentation – deck of 15 slides (100%)   |
| MBA52 Doing good well: leading social innovation for local and global impact | Group assignment – 3,000 words (100%)   |
| MBA41 Energy and emissions markets and policies                              | Class participation (20%); individual assignment – 2,500 words (80%)  |
| MBA129 Entrepreneurship in practice  | Individual assignment – 2,500 words (100%)  |
| MBA128 Entrepreneurship through acquisition                                  | Class participation (20%); group assignment and presentation – 1,500 words (80%)  |
| MBA122 International business  | Individual assignment – 3,000 words (80%); class participation (20%)  |
| MBA85 Introduction to options, futures and other derivatives                 | Two-hour in-class test (100%)   |
| MBA125 Leadership in organisations   | Class participation (20%); individual assignment – 2,500 words (80%)  |
| MBA81 Leading effective projects   | Individual assignment – 3,000 words (100%)  |
| MBA110 Managing big data analysis  | Individual assignment – 3,000 words (100%)  |
| MBA114 Managing for sustainability   | Individual presentation – 7 minutes, deck of 12 slides, 2,000 words (100%)  |
| MBA14 Managing innovation strategically                                      | Individual assignment – 2,000 words (80%); individual class participation (20%)   |
| MBA96 Marketing and innovation in emerging economies                         | Group presentation –15 minutes, deck of 20 slides (100%)  |
| MBA58 New venture finance  | Individual class participation (20%);<br>group presentation – 15 minutes, deck of 16 slides,<br>2,000-word write-up (80%) |
| MBA27 Philosophy of business   | Individual assignment – 3,000 words (100%)  |
| MBA103 Risk management and strategic planning                                | Individual assignment – 2,000 words (80%); individual class participation (20%)   |
| MBA107 Strategic pricing   | Group presentation – 15 minutes, deck of 20 slides (100%)   |
| MBA78 Topics in financial statement analysis                                 | Individual assignment – 3,000 words (100%)  |
| MFIN16 Topics in investment management (open to M.B.A.)                      | Group assignment – 3,000 words (50%); 1.5-hour in-class test (50%)  |

# 12. Option B: Executive M.B.A. course

# 2018-20 CLASS

# 12. (b) Elective modules

# Lent Term 2020

| EMBA24 Fast strategy, intrapreneurship, and business instinct  | Individual assignment (100%) |
|--|------------------------------|
| EMBA26 Philosophy of business  | Individual assignment (100%) |
| EMBA39 Strategic change and renewal  | Individual assignment (100%) |
| EMBA40 Project finance: innovative techniques in valuing and raising financing for large scale projects        | Individual assignment (100%) |
| EMBA42 Understanding consumers   | Individual assignment (100%) |
| EMBA44 Entrepreneurship and new venture creation   | Individual assignment (100%) |
| EMBA45 From the savannah to the boardroom: the evolutionary roots of decisions and leadership                  | Individual assignment (100%) |
| EMBA53 How to think strategically  | Individual assignment (100%) |
| EMBA54 Entrepreneurial finance   | Individual assignment (100%) |
| EMBA55 Leading effective projects: a managerial perspective  | Individual assignment (100%) |
| EMBA56 Managing big data analysis  | Individual assignment (100%) |
| EMBA57 Building customer centric organisations   | Individual assignment (100%) |
| EMBA60 The effective director  | Individual assignment (100%) |
| EMBA61 Creative arts and media management  | Individual assignment (100%) |
| EMBA62 Complex financial transactions: structure, valuation and impact on the corporation                      | Individual assignment (100%) |
| EMBA63 Design thinking and innovation  | Individual assignment (100%) |
| EMBA64 Strategies in disruptive technological environments   | Individual assignment (100%) |
| EMBA65 Strategy in ecosystems  | Individual assignment (100%) |
| EMBA68 Financial market analysis and trading   | Individual assignment (100%) |
| EMBA69 Brexit, Trump, and the backlash against globalisation: why the international economic system is at risk | Individual assignment (100%) |
| EMBA70 Deep dive into fourth Industrial Revolution: how it will trigger the emergence of new business models   | Individual assignment (100%) |
| EMBA71 Behavioural finance: psychological insights into financial markets and organisations                    | Individual assignment (100%) |
| EMBA50 Beyond calls to action: pathways to sustainable business  | Individual assignment (100%) |
| EMBA73 The rise of fintech   | Individual assignment (100%) |
| EMBA72 Enterprising families and family offices  | Individual assignment (100%) |
| EMBA59 Long term investing   | Individual assignment (100%) |

# 2019-21 Class

# 12. (b) Elective modules

# Lent Term 2020

None.

# Master of Finance (M.Fin.), Lent Term 2020

The Faculty Board of Business and Management gives notice that in the Lent Term 2020 the subjects for examination for the degree of Master of Finance will be as listed below. The method of examination is shown for each subject.

No written papers offered in Lent Term

| <b>C</b> | 1 |   |      |    |   |      |
|----------|---|---|------|----|---|------|
| Group    | 1 | _ | core | su | D | ects |

| MFIN39 Fundamentals of credit   | 2-hour in-class test (60%) and case study (40%)     |
|---------------------------------|---|
| MFIN3 Econometrics              | 2-hour mid-term test (40%); 2-hour final test (60%) |
| MFIN5 Management lecture series | Seminar, assessed by attendance                     |
| MFIN22 Management practice      | Seminar, assessed by attendance                     |
| MFIN23 City speaker series      | Seminar, assessed by attendance                     |

# Gı

| Group 2 – specialist subjects                           |   |
|---|---|
| MFIN49 Advanced financial accounting                    | 2-hour in-class test (80%); group project – max. 8 pages (20%)  |
| MFIN16 Topics in investment management (open to M.B.A.) | Group assignment – max. 3,000 words (50%); 1.5-hour in-class test (50%)   |
| MFIN19 Private equity                                   | Four individual assignments – max. 2,500 words each (40% in total); two group projects – max. 2,500 words each (30%); 1-hour individual in-class quiz (30%) |
| MFIN34 Advanced corporate finance                       | Group project – max. 8 pages (50%); 3-hour in-class test (50%)  |
| MFIN14 Fixed income analysis (open to M.Phil. Finance)  | Individual essay – max. 2,500 words (50%); group assignment – max. 2,500 words (50%)  |
| MFIN52 The circular economy                             | Individual assignment – max. 2,500 words (50%);<br>group assignment – max. 2,500 words (50%)  |
| MFIN27 Mergers and acquisitions                         | 1.5-hour in-class test (40%); group case write-up – max. 2,500 words (40%); group presentation (20%)  |
| MBA83 Behavioural finance                               | Individual assignment – 3,000 words (100%)  |

**Projects** 

MFIN24 Equity research project Group presentation (50%); report – max. 2,500 words (50%)

# Finance for the M.Phil. Degree, 2019–20

The Degree Committee for the Faculty of Business and Management gives notice that, in the academic year 2019-20, the subjects for the examination in Finance for the degree of Master of Philosophy will be as listed below. The method of examination is shown for each subject.

# Group 1 (six compulsory subjects)

| (1)        | MF5A  | Corporate finance I [one three-hour class test]  |
|------------|-------|--|
| (2)        | MF6A  | Asset pricing I [one three-hour class test]  |
| (3) either | MF5B  | Corporate finance II [one three-hour class test (45%), 1,000-word written referee report (25%), presentation (15%), and class participation (15%)] |
| or         | MF6B  | Asset pricing II [one three-hour class test]   |
| (4) either | SMO6  | Fundamentals of competitive markets [one two-hour class test]  |
| or         | R100  | Microeconomics [two-hour written examination]  |
| Either     |       |  |
| (5)        | E300  | Econometric methods [two-hour written examination] and   |
| (6)        | R301A | Advanced econometrics II: time series [two-hour written examination] or  |
| (7)        | R301B | Advanced econometrics II: cross-section and panel data [two-hour written examination]  |
| Or         |       |  |
| (5)        | MF2   | Econometrics I [two three-hour class tests] and  |
| (6)        | MF2A  | Econometrics II [two three-hour class tests]   |

# Group 2 (three optional subjects to be chosen)

| MF1              | Topics in accounting [group-based assignment write-up (2,000 words exluding tables)]                |
|------------------|---|
| MF10             | How to do finance [two written referee reports (75%), class participation (17%), attendance (8%)]   |
| S140             | Behavioural economics [two-hour written examination]  |
| S150             | Economics of networks [two-hour written examination]  |
| S170             | Industrial organisation [two-hour written examination]  |
| MFin14           | Fixed income [individual essay – 2,500 words max. (50%), group assignment – 2,500 words max. (50%)] |
| MFin35           | Further econometrics [TBC: as per M.Fin. Notice to be published in Lent Term 2020]                  |
| Danaus fuam Math | ometical Trings Part III  |

# Papers from Mathematical Tripos, Part III

| 202 | Stochastic calculus and application [one three-hour written examination]          |
|-----|---|
| 205 | Modern statistical methods [one three-hour written examination]                   |
| 211 | Advanced financial models [one three-hour written examination]                    |
| 341 | Numerical solution of differential equations [one three-hour written examination] |

# Innovation, Strategy and Organisation for the M.Phil. Degree, 2019-20

The Degree Committee for the Faculty of Business and Management gives notice that in the academic year 2019–20, the subjects for the examination in Innovation, Strategy and Organisation for the degree of Master of Philosophy will be as listed below. The method of examination is shown for each subject.

## Group 1 – compulsory subjects

| Either | ISO-4 | Statistical concepts for management researchers [1,000-word assignment (80%) and half-hour seminar presentation (20%)]   |
|--------|-------|--|
| or     | MF2   | Econometrics I [two 3-hour tests]  |
| ISO1   |       | Information systems, innovation and organisational change [3,000-word essay (75%), 20-minute seminar presentation and group facilitation: leading and facilitating discussion of a research theme during the course (25%)] |
| ISO2   |       | Organisations and strategic innovation [3,000-word essay (70%) and half-hour seminar group presentation (30%)]   |
| ISO3   |       | Organisations theory [3,000-word essay (70%) and half-hour seminar group presentation (30%)]   |
| ISO5   |       | Qualitative research methods [four research exercises, of 1,000 words each]  |

# Group 2 – optional papers

| ISO12  | Individual research project [4,000-word essay]   |
|--------|--|
| ISOE6  | Strategic organising of digital and social innovation [individual 3,000-word essay (60%), 20-minute case-study group presentation (25%), 10-minute individual presentation and class participation (15%)]                |
| ISOE7  | Seminar in strategic management content research [weekly essays (7 x 3 pages each, double spaced) (20%), class participation (15%), leading discussion (15%), and 3,000-word individual coursework (50%)]                |
| ISOE8  | Organisationl research methods [5,000-word essay (90%) and class participation (10%)]  |
| ISOE10 | Marketing strategy [3,500-word essay (70%), 20-minute individual presentation (20%) and class participation (10%)]   |
| SMO2   | Introduction to operations and technology management research [participation in discussion (15%), homework assignment up to 15 mathematical questions (50%) and paper on research opportunities up to 3,000 words (35%)] |
| SMO6   | Fundamentals of competitive markets [one two-hour class test (100%)]   |

# Management for the M.Phil. Degree, 2019-20

The Degree Committee for the Faculty of Business and Management gives notice that, in the academic year 2019–20, the subjects for the examination in Management for the degree of Master of Philosophy will be as listed below. The method of examination is shown for each subject.

# **Group 1 – compulsory subjects**

| MM1 | Quantitative techniques for management [2-hour written examination with additional 10 minutes of reading time]   |
|-----|--|
| MM2 | Marketing [2-hour written examination with additional 10 minutes of reading time (50%), plus 10-minute group project presentation (50%)]   |
| MM3 | Business economics [2-hour written examination with additional 10 minutes of reading time]   |
| MM4 | Strategy [2-hour written examination with additional 10 minutes of reading time (70%), and 3,000-word group assignment (30%)]  |
| MM5 | Organisational analysis [2-hour written examination with additional 10 minutes of reading time (80%), and 10-minute group presentation with 5-minute Q&A and 500-word executive summary (20%)] |
| MM6 | Finance [2-hour written examination with additional 10 minutes of reading time]  |
| MM7 | Accounting [2-hour written examination with additional 10 minutes of reading time]   |
| MM8 | Operations management [2-hour written examination with additional 15 minutes of reading time]  |
| MM9 | Management consulting project [25-minute group presentation with 5,000-word report (75%) and 1,500-word essay (25%)]   |

# Group 2 – optional papers

|       | · · · · · · · · · · · · ·  |  |
|-------|--|--|
| MME20 | Business innovation in a digital age [15-minute group case study presentation with 5-minute discussion (30%), and 3,000-word individual assignment (70%)]  |  |
| MME21 | Ethics [3,000-word individual assignment (70%) and 15-minute group presentation with 5-minute Q&A (30%)]   |  |
| MME22 | Supply chain management [2-hour written examination with additional 10 minutes of reading time (70%) and 3,500-word group assignment (30%)]  |  |
| MSE7  | Human resources management [individual take-home essay (65%), two in-class tests (15% each), class participation (5%)]   |  |
| MSE9  | International business economics [3,000-word essay]  |  |
| TPE25 | Strategic valuation: uncertainty and real options in system design [project of no more than 4,000 words, comprising computer modelling and associated questions, and the preparation of a 6-slide PowerPoint presentation] |  |

# Strategy, Marketing and Operations for the M.Phil. Degree, 2019-20

The Degree Committee for the Faculty of Business and Management gives notice that in the academic year 2019–20 the nine subjects for examination in Strategy, Marketing and Operations for the M.Phil. Degree will be chosen from the list below. The method of examination is shown for each subject.

| MF2  | Econometrics I [two 3-hour class tests]   |
|------|---|
| MF2A | Econometrics II [two 3-hour class tests]  |
| SMO1 | Advanced topics in operations and technology management research [class participation (12%), 30–40-minute presentation of mathematical proofs (14%), homework assignment of up to five mathematical questions (14%), two referee reports on working papers of no more than 2,000 words (60%)] |
| SMO2 | Introduction to operations and technology management research [homework assignment of up to 15 mathematical questions (50%), participation in discussions (15%), and paper on research opportunities up to 3,000 words (35%)]   |
| SMO3 | Classics of operations and technology management research [class participation (20%), presentation (20%), up to 2,500-word research proposal (30%), and up to 2,000-word reviewer's report (30%)]   |
| SMO5 | Individual research project [5,000-word essay]  |
| SMO6 | Fundamentals of competitive markets [one two-hour class test]   |

| ISO1   | Information systems, innovation and organisational change [3,000-word essay (75%), 20-minute group seminar presentation and group facilitation: leading and facilitating discussion of a research theme during the course (25%)] |  |
|--------|--|--|
| ISOE6  | Strategic organising of digital and social innovation change [individual 3,000-word essay (60%), and 20-minute case study group presentation (25%), and 10-minute individual presentation and class participation (15%)]         |  |
| ISOE7  | Seminar in strategic management content research [weekly essays (7 x 3 pages each, double spaced) (20%), class participation (15%), leading discussion (15%), and 3,000-word individual coursework (50%)]                        |  |
| ISOE8  | Organisational research methods [5,000-word essay (90%) and class participation (10%)]   |  |
| ISOE10 | Marketing strategy [3,500-word essay (70%), 20-minute individual presentation (20%), and class participation (10%)]  |  |
| S140   | Behavioural economics [two-hour written examination]   |  |
| S170   | Industrial organisation [two-hour written examination]   |  |
| MFin35 | Further econometrics [M.Fin. Notice to be published in Lent Term 2020]   |  |
|        |  |  |

In addition, students can also opt to write a dissertation of not more than 12,000 words in length.

# Technology Policy for the M.Phil. Degree, 2019–20

The Degree Committee for the Faculty of Business and Management gives notice that, in the academic year 2019-20, the subjects for the examination in Technology Policy for the degree of Master of Philosophy will be as listed below.

The method of examination is shown for each subject. Students must take twelve modules (six core modules, two Sectorial and Skills electives, two Enterprise Stream electives, and two Open electives). Students are also required to complete a Final Group Project.

# Core modules (compulsory)

| TP1 | Technology policy: concepts and frameworks [2-hour end-of-term written in-class test (80%) and blog/<br>Twitter contributions (20%)] |  |  |
|-----|--|--|--|
| TP2 | Economic foundations of technology policy [2-hour end-of-term written in-class test (100%)]  |  |  |
| TP3 | Case studies and simulations [3,000-word essay (90%) and class participation (10%)]  |  |  |
| TP4 | Business, government, and technology in emerging markets [2-hour end-of-term written in-class test (100%)]                           |  |  |
| TP5 | Policy design and evaluation [2-hour end-of-term written in-class test (100%)]   |  |  |
| TP6 | Deciphering the European Union: business-government relations [policy analysis (80%) and a debate presentation (20%)]                |  |  |
| FGP | Final group project [12,000-word written report (70%) and a 90-minute client presentation (30%)] [double-weighted]                   |  |  |

# **Electives**

# SECTORIAL AND SKILLS

| TPE22 | Electricity and environment [one piece of written coursework in two parts: a 1,500-word paper (50%) and a 1,500-word paper (50%)]   |
|-------|---|
| TPE23 | Negotiation skills [3,000-word essay (100%)]  |
| TPE25 | Strategic valuation: uncertainty and real options in system design [project of no more than 4,000 words, comprising computer modelling and associated questions, and the preparation of a six-slide PowerPoint presentation (100%)] |

# ENTERPRISE STREAM

| TPE20 | Managing the innovation process [a case write-up of up to 1,000 words (50%), and a group project of up to 2,000 words (<10 pages and no more than one video) (50%)] |
|-------|---|
| TPE21 | Entrepreneurial science and innovation policy [one 1,000–1,500-word essay (50%) and two one-page short group reports (25% each)]                                    |
| TPE24 | Competitive strategy in the digital age: platform markets, network effects and the new rules of strategy [2,000-word essay (100%)]                                  |

OPEN STREAM

# M.Phil. in Technology Policy students are permitted to borrow any of the following modules as an Open Stream elective:

From the M.Phil. in Innovation, Strategy and Organisation:

ISO2 Organisations and strategic innovation [3,000-word essay (70%) and half-hour seminar group presentation (30%)]

From the M.Phil. in Management:

MME20 Business innovation in a digital age [15-minute group case study presentation with 5-minute discussion (30%) and 3,000-word individual assignment (70%)]

MME21 Ethics and corporate social responsibility [3,000-word individual assignment (70%) and 15-minute group presentation with 5-minute Q&A (30%)]

The following modules offered on Part IIB of the Engineering Tripos in 2019–20; details of available modules and formats of examination were published in the Notice of 12 June 2019 (*Reporter*, 6551, 2018–19, p. 676). For those modules shown as assessed by coursework, students should contact the Department of Engineering for precise details of the requirements.

4E4 Management of technology
 4E5 International business
 4E6 Accounting and finance

The following modules offered on the M.Phil. in Engineering for Sustainable Development in 2019–20; details of available modules and formats of examination were published in the Notice of 24 July 2019 (*Reporter*, 6557, 2018–19, p. 856)

ESD360 Resilience and hazard mitigation in future cities

ESD450 Policy, legislation and government

#### **OBITUARIES**

# **Obituary Notices**

Mr CLIVE VIVIAN LEOPOLD JAMES, AO, CBE, B.A., FRSL, Honorary Fellow of Pembroke College, British Academy Presidential Medallist, died on 24 November 2019, aged 80 years.

Sir Jonathan Wolfe Miller, CBE, B.A., M.B., B.Chir., (Hon)Litt.D., FRCP, FRCPE, Honorary Fellow of St John's College, died on 27 November 2019, aged 85 years.

#### **ACTA**

# Result of ballot on Grace 4 of 24 July 2019 and on an amendment (governance of postgraduate and graduate student matters)

2 December 2019

The Registrary gives notice that, as a result of the ballot held between 19 and 29 November 2019, Grace 4 of 24 July 2019 as amended by paragraph (1) of the amendment (implementation from 1 October 2020) was **approved**.

The Grace reads as follows:

That the recommendations in paragraph 13 of the Joint Report of the Council and the General Board, dated 17 June and 5 June 2019, on the governance of matters for postgraduate and graduate students (*Reporter*, 6553, 2018–19, p. 726), as amended by the Council's Notice dated 22 July 2019 (*Reporter*, 6557, 2018–19, p. 841) be approved.

The amendment which has been approved reads as follows (*Reporter*, 2018–19: 6558, p. 882; 2019–20: 6561, p. 20; 6565, p. 76):

(1) In Recommendations III and IV of the Report, that the text 'with effect from 1 October 2019' be replaced by 'with effect from 1 October 2020'.

The results of the voting on this Grace and the amendment, conducted under the Single Transferable Vote regulations (*Statutes and Ordinances*, p. 114), are as follows:

| Number of valid votes: 554 (no invalid votes)                                    | (Quota: 277) |                                      |              |                    |
|--|--------------|--------------------------------------|--------------|--------------------|
|  | First count  | Transfer of option (a) and (d) votes | Second count | RESULT             |
| (a) In favour of the Grace in its original form                                  | 70           | -70                                  |              |                    |
| (b) In favour of the Grace as amended by paragraphs (1) and (2) of the amendment | 179          | +27                                  | 206          |                    |
| (c) In favour of the Grace as amended by paragraph (1) of the amendment only     | 242          | +32                                  | 274          | APPROVED<br>OPTION |
| (d) Against the Grace, whether in its original or amended form                   | 63           | -63                                  |              |                    |
| Non-transferable   |              | 74                                   | 74           |                    |
| Total  | 554          |                                      | 554          |                    |

The fly-sheet received in relation to this ballot is reprinted on p. 162.

# Result of ballot on Grace 5 of 24 July 2019 (student representation on Faculty Boards and other bodies)

2 December 2019

The Registrary gives notice that, as a result of the ballot held between 19 and 29 November 2019, Grace 5 of 24 July 2019 was **approved**.

The Grace reads as follows:

That the organisational structure of student representation on Faculty Boards and other bodies be amended, as outlined in the General Board's Notice dated 22 July 2019 (*Reporter*, 6557, 2018–19, p. 846).

The results of the voting on this Grace are as follows:

| Number of valid votes:          | 522 (no invalid votes) |
|---------------------------------|------------------------|
| In favour of the Grace (placet) | 294                    |
| Against the Grace (non placet)  | 228                    |

The two fly-sheets received in relation to this ballot are reprinted on p. 163.

# **Congregation of the Regent House on 30 November 2019**

A Congregation of the Regent House was held at 2 p.m. All of the Graces submitted to the Regent House (*Reporter*, 6569, 2019–20, p. 135) were approved.

The following degrees were conferred:

This content has been removed as it contains personal information.

This content has been removed as it contains personal information.

E. M. C. RAMPTON, Registrary

END OF THE OFFICIAL PART OF THE 'REPORTER'

#### FLY-SHEETS REPRINTED

# Fly-sheet relating to the ballot on Grace 4 of 24 July 2019 and on an amendment (governance of postgraduate and graduate student matters)

In accordance with the Council's Notice on Discussions and Fly-sheets (*Statutes and Ordinances*, p. 110), the fly-sheet from the ballot on Grace 4 of 24 July 2019 and on an amendment (governance of postgraduate and graduate student matters) is reprinted below. For the result of the ballot, see p. 155.

Fly-sheet: Grace 4 of 24 July 2019

We urge members of Regent House to vote to dissolve the Board of Graduate Studies and to discontinue the use of the term 'graduate' with effect from 1 October 2020.

#### Dissolution of the Board of Graduate Studies

The Joint Report proposed that the Board of Graduate Studies was dissolved from 1 October 2019 and its work move to a new Postgraduate Committee which would sit under the General Board's Education Committee. The Postgraduate Committee would undertake a systematic review of the Board's work to identify instances where activity would more appropriately sit with another Committee. The Report was subsequently amended with the effect that the Postgraduate Committee would sit under the General Board.

The dissolution of the Board and transfer of its work to the Postgraduate Committee will bring all educational matters under the auspices of the General Board, creating a single governance structure for all students and ensuring that the needs of all types of students are included when developing and considering strategic, policy and procedural matters. The subsequent review will look to increase equality of provision for students.

The proposal to dissolve the Board of Graduate Studies is supported by the Senior Pro-Vice-Chancellor for Education and a number of current Board members. Indeed, during the deliberations on the Report no formal amendment to the Report has been proposed which seeks to retain the Board of Graduate Studies beyond the current academical year.

Due to the timings of the University's governance processes and given that a ballot on aspects of the Report is being held, the Board was not dissolved on 1 October 2019 and will continue to meet during this academical year. By the time of this ballot the Board will have met twice and a large number of decisions affecting individual students will have been made by or on behalf of the Board (including approval of approximately 100 doctoral degrees). A vote to dissolve the Board of Graduate Studies with effect from 1 October 2019 will call into question the validity of these decisions and will cause a period of uncertainty until alternative arrangements are put in place. For example, as the Board of Graduate Studies approves doctoral degrees the dates of its meetings are aligned with the dates of degree congregations. A delay in approving degrees whilst alterative arrangements are made could impact on students receiving their degrees.

For these reasons it is preferable for such changes to take place at the start of the academical year, so replacement of the Board of Graduate Studies should take place on 1 October 2020.

#### Change in terminology

The University currently has three separate cohorts of students: undergraduate, postgraduate and graduate. The delineation between postgraduate and graduate is unclear with some taught Master's programmes classified as postgraduate and others as graduate. This has led to arbitrary differences in admission, examination and mitigation practices for students on very similar courses and has caused confusion throughout the collegiate University. These differences in terms therefore give rise to unequal student experiences that are difficult to justify and affect the quality of the student experience. The proposed change of terminology is a first step towards creating a single cohort of 'post-undergraduate' students and the achievement of parity of provision and support for cognate student cohorts.

We accept that the University has more graduate courses and students than it does postgraduates but the change will bring the University in line with the rest of the HE sector – of the 24 member institutions of the Russell Group, 23 refer to postgraduate students rather than graduate students. Also, the term 'graduate' can cause confusion as it also refers to a student who has recently graduated. We accept also that work to update materials and media will be needed and propose that this work be undertaken as part of the regular review and update of material.

A vote to retain the current terminology (graduate and postgraduate) would mean that the inconsistent and arbitrary distinction between graduate and postgraduate students would remain and further work would be required to rectify this.

#### Regulation changes

Concerns have been raised that some of the regulation changes listed in Annex D of the Report do not specifically relate to the contents of the Report. During the review of the Statutes and Ordinances, which preceded the Report, a small number of anomalies in the current regulations were discovered and the opportunity was taken to correct these. These corrections amount to approximately 9% of the regulation changes and are either revising the regulations to reflect existing practice or are changes to regulations which do not have a significant impact on students or courses (e.g. by replacing 'member of the University *in statu pupillari* or a registered Graduate Student' with 'registered student' in the regulations for the Arnold Gerstenburg Fund and Studentship, *Statutes and Ordinances*, 2018, p. 846).

For these reasons, we urge the Regent House to vote to dissolve the Board of Graduate Studies and to discontinue the use of the term 'graduate' with effect from 1 October 2020.

Signed by the following members of the Regent House:

C. ARELL M. Frasca-Spada B VAIIX K. Black-Hawkins L. R. R. GELSTHORPE G. J. Virgo J. L. CADDICK B. B. Groisman K. J. WILKINSON D. A. CARDWELL P. S. JOHNSTON T. D. WILKINSON D. F. Wood I. DAVIES NEIL G. JONES A. N. S. Freeling A. D. NEELY M. R. WORMALD

# Fly-sheets relating to the ballot on Grace 5 of 24 July 2019 (student representation on Faculty Boards and other bodies)

In accordance with the Council's Notice on Discussions and Fly-sheets (*Statutes and Ordinances*, p. 110), the fly-sheets from the ballot on Grace 5 of 24 July 2019 (student representation on Faculty Boards and other bodies) are reprinted below. Fly-sheets are reprinted in the order in which they appeared in the ballot booklet, which was random. For the result of the ballot, see p. 155.

# Ballot on Grace 5 of 24 July 2019

# Organisational structure of student representation on Faculty Boards and other bodies

#### Placet fly-sheet

We urge the members of the Regent House to vote placet to the recommendation to amend the structure of student representation within the University. The amendments encompass the following:

- Moving from a departmentally organised structure aligned with Faculty Boards, to a student-facing, subject-driven structure, aligned with specific disciplines from which the Boards may be populated;
- Permitting Boards to determine the most appropriate number of student representatives, provided that there are at least two:
- Aligning the elections for subject representatives to take place alongside pre-existing student elections in late November:
- Moving the administration of elections from Faculties to a dedicated post sited within CUSU, which will work
  alongside Faculties and Departments to agree and promote the available roles, without restricting any Faculty's
  ability to promote or engage with the electoral process; this post will also manage receipt of nominations and
  population of the voting platform from electoral rolls, as well as be a single point of communication for all parties;
- Providing an institutionally recognised role in supporting and training of subject representatives through CUSU
  and the GU as well as at the local level;
- Taking the opportunity to update rules on eligibility which are not clear to students or staff, and result in loss of confidence in the electoral process.

These recommendations are the result of a **consultation**<sup>1</sup> with students, Faculty Boards and equivalent bodies, and Councils of the Schools. The proposed recommendations attracted a majority in favour and all objections against can be accommodated within the flexibility of the proposed revisions; the Grace was written with all this in mind. They provide a flexible framework to accommodate the variety of representation needs for both single- and multi- departmental faculties. At the same time, we believe they will make the variety of representation more easily understood by students and increase engagement with the roles.

We believe these changes are beneficial for the following reasons:

- 1. The existing model of representation is poorly understood by students. Students frequently report a lack of clarity on the roles available, and what the purpose of the role should be within support and decision-making processes. Aligning the roles to subject disciplines will be clearer to students, particularly students who are not representatives and who need to know where to raise issues and questions. It will situate representation along identifiable lines for a clear and easily understood picture of the student voice.
- 2. The existing electoral process restricts the ability of Boards and other bodies to choose the number and constituency of representation to best suit them. Boards are currently required to elect students along tightly defined roles by level and course of study. Some existing Boards implement complex workarounds to ensure full representation while remaining within the letter of the regulations, adding to the complexity and lack of clarity for students. The flexible framework proposed would allow Boards more freedom to choose the best combination for their course offerings. All known existing systems, including workarounds, can be accommodated within the revised model.

<sup>1</sup> https://www.educationalpolicy.admin.cam.ac.uk/student-engagement/student-elections

- 3. The existing model of Board representation is poorly integrated into wider representation. The revised model tying elections more closely to pre-existing CUSU and the GU elections allows students to clearly see how representation feeds into decision-making at all levels. Providing a formal role for training and support via CUSU and the GU ensures that representatives have an independent and consistent support network outside of the immediate Faculty and promotes peer-to-peer engagement between representatives. Some Faculties and Departments during the consultation expressed scepticism about how closely their students engaged with CUSU and the GU; while this can vary, retaining the separation discourages closer links from forming and promotes the impression that roles are isolated from wider University decision-making. Additionally, faculties expressed concern that centralisation could weaken engagement with the roles at a local level; however, we feel that the opposite is true and that students will more readily engage with the roles if they are clearly identifiable as part of the wider University decision-making structure. CUSU and the GU are committed to supporting and promoting student representation at all levels of the University and holding a 'two-way' conversation about the student experience. Both Unions are working collaboratively to strengthen relationships with one another and with the students of the University they represent, as well as to identify ways in which the student voice can be supported through training, networking, and academic forums. CUSU is ready and able to engage with each Faculty individually to ensure roles are clearly promoted both locally and centrally, with staff members who have expertise in supporting elections and in academic representation. Faculties wishing to continue existing good practice of advertising and promoting roles would be encouraged to do so.
- 4. The electoral process is complex and poorly understood. The current Ordinances outlining timing of elections and the eligibility for, allocation to and generation of the electoral rolls are complex and lead to errors. In addition, both students and staff may perceive errors in correct rolls where the eligibility rules are not clearly understood. Simplifying the eligibility requirements and streamlining the process will increase confidence in the inclusivity of representation and in the electoral process itself. Siting the administration centrally removes the administrative burden from faculties and departments. It will also provide parity of process across all subject areas. CUSU has already funded a role within its membership team which is partially dedicated to support academic representatives; this role will provide dedicated and individual support to both faculties and students to ensure the system is clear and robust.

For these reasons, we urge the Regent House to vote *placet* to the recommendations to amend the structure of student representation.

Signed by the following members of the Regent House:

K. Black-Hawkins A. J. Webber P. GOPAL T. T. BLAXTER M. V. Lucas-Smith M. R. WORMALD J. M. Wyburd A. P. BOOKBINDER I. Mcneill H. J. CREMIN T. J. MILEY H. ZIAUDDEEN G. M. Cronin R. A. W. REX M. Gemelos G. J. Virgo

Signed by the following registered students and sabbatical officers of Cambridge University Students' Union and the Graduate Union:

T. Amofah-Akardom A. GILDERDALE S. Merrick A. Ashok G. GLEDHILL J. O'BRIEN J. Barnes P. Heller A. O'MALLEY GRAHAM E. Brain T. HINCH E. PARKER HUMPHREYS N. Brocksom A. HYDE L. M. PLIMMER A. Ceccarelli S. KEENAN M. Schwefel V. CLINGEN R. Kent E. Song B. Fonseka L. Lewis S. SWAIN J. Foye K. LITMAN L.-R. Sharry K. Gaunt M. Guha Majumdar O. WILSON S. Georgescu B. Margolis D. Wright

# Ballot on Grace 5 of 24 July 2019 (organisational structure of student representation on Faculty Boards and other bodies): *Non placet* fly-sheet

In Grace 5 of 24 July 2019, the General Board published a wholesale recasting of the system for electing student representatives on Faculty Boards and other University bodies. These changes were announced during the Long Vacation despite strong reservations from a large number of Faculties in the consultation exercise carried out in Easter Term. We have therefore requested a ballot, and invite colleagues to join us in voting *non placet* to the proposed changes.

# The central thrust of the Grace 5 proposals is to place the election of student representatives under the control of Cambridge University Students' Union (CUSU) and the Graduate Union (GU).

- Student representative roles would be defined by CUSU and the GU, in collaboration with the University. For
  each subject discipline, students would elect a pool of representatives who would then be allocated to Faculty
  Boards or other bodies.
- Student members of Faculty Boards and other bodies would be elected in the second half of Michaelmas Term, alongside other CUSU and GU officers.
- Regulations would be amended to remove limitations on eligibility based on course and year of study.

69% of Faculty responses to the consultation disagreed with placing CUSU and the GU in charge of organising elections. As many Faculties and Departments pointed out, the proposals are **seriously problematic** for a number of reasons:

- The current system of subject representation enables the development of positive links between Faculties and their students, in which Faculties demonstrate their commitment to taking on board student views through encouraging students to act as representatives.
  - A move to a centrally organised system of subject representatives would weaken the direct relationship between Faculties, academic staff and the student body.
- Placing CUSU and the GU in charge of the process risks turning the system of student representation into an extension of student politics. Turnout in CUSU and GU elections is itself low, and many students feel much closer attachment to their Colleges and Faculties than to these bodies.
- Many Faculties have well-established systems of student representation which are designed to ensure that
  students from different Triposes, degree programmes, and year groups are represented in the decision-making
  process. The proposal to elect a single pool of representatives for each subject would risk marginalizing the
  interests of students on smaller courses or cross-Faculty degree programmes.
- Existing procedures also allow students to put themselves forward for specific roles with a clear sense of the responsibilities and the time commitment involved. Electing a pool of representatives for each subject would make it impossible for students to know what role they were standing for.

There is no great enthusiasm for these radical proposals either among the student community or among our academic colleagues. By voting No, we invite the University to reconsider the matter and bring forward proposals which would build on the strengths of existing Faculty-based representation, and command more general approval.

Signed by the following members of the Regent House:

C. P. CAULFIELD A D MING D. E. A. CURTIS S. M. MURK-JANSEN J. M. Evans G. G. Peng R. E. GOLDSTEIN A. I. Pesci P. A. Haas G. RANGWALA M. H. Kramer O. RATH-SPIVACK P. A. Russell S. Kusukawa M. J. RYAN J. R. LISTER

B. P. Simms P. J. Sloman J. P. Talbot G. L. Thomas M. T. J. Webber

A. Zsák

#### COLLEGE NOTICES

## **Elections**

Clare Hall

Elected as President of Clare Hall with effect from 1 August 2020:

Professor C. Alan Short, M.A., Dip.Arch., T, Ph.D., CLH

Homerton College

Elected to a Bye-Fellowship from 1 November 2019:

María del Carmen Olmedilla Herrero, B.A., P.G.C.E., Ph.D., *Madrid* 

Josephine O'Donaghue, B.A., Ph.D., *CHR*, M.A., *UCL* Min-Yen Ong, B.A., *Bristol*, M.A., Ph.D., *SOAS* Joanna Renata Stasiak, M.Sc., Ph.D., *Lodz* 

# **Vacancies**

Lucy Cavendish College: Admissions Director and Fellow; tenure: commencing no later than 1 March 2020; closing date: 13 January 2020 at 12 noon; full advertisement and further particulars: https://www.lucy-cav.cam.ac.uk/about-us/vacancies/

Murray Edwards College and Peterhouse: College Lectureship and Fellowship in Spanish (fixed-term); tenure: three years from 1 September 2020; salary: £33,797 at current rates; closing date: 3 January 2020; further details: https://www.murrayedwards.cam.ac.uk/about/work-us

Sidney Sussex College: Admissions Director (maternity cover); tenure: from 2 March 2020 for the duration of the incumbent's maternity leave, expected to be for ten months; stipend: £31,753; closing date: 13 January 2020 at 12 noon; further details: https://www.sid.cam.ac.uk/aboutus/personnel/

#### EXTERNAL NOTICES

# **Oxford Notices**

Department of Materials: Professorship of Materials Modelling; closing date: 10 February 2020; further details: https://www.recruit.ox.ac.uk, vacancy ID 141641

Department of Zoology: Hope Professorship of Zoology (Entomology); closing date: 13 January 2020; further details: https://www.recruit.ox.ac.uk, vacancy ID 138536

Exeter College: Gwyneth Emily Rankin Fellowship in English Literature 1660–1830 (fixed-term); tenure: three years from 1 September 2020 (or as soon as possible thereafter); salary: £39,103–£41,874, including housing allowance; closing date: 2 January 2020 at 12 noon; further details: https://www.exeter.ox.ac.uk/vacancies/gwyneth-emily-rankin-fellow-in-english-literature-1660-1830-fixed-term/

St Hilda's College: Lee Hysan Stipendiary Junior Research Fellowship in Biological, Medical or Physical Sciences; closing date: 10 January 2020; further details: https://www.sthildas.ox.ac.uk/content/vacancies

V. H. Galbraith Stipendiary Junior Research Fellowship in Medieval Studies; closing date: 10 January 2020; further details: https://www.sthildas.ox.ac.uk/content/vacancies

The Queen's College: Junior Research Fellowship in Classics; tenure: 1 October 2020 to 30 September 2023; salary: £32,817 (under review) plus additional benefits; closing date: 6 January 2020 at 12 noon; further details: https://www.queens.ox.ac.uk/vacancies

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