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UNIVERSITY OF
CAMBRIDGE

NOTICES

Calendar

8 June, *Saturday*. End of third quarter of Easter Term.
 11 June, *Tuesday*. Discussion at 2 p.m. in the Council Room (see below).
 14 June, *Friday*. Full Term ends.

Discussions at 2 p.m.

11 June
 9 July

Congregations

18 June, *Tuesday at 2.45 p.m.* (Honorary Degrees)
 27 June, *Thursday at 9.30 a.m.* (General Admission)
 28 June, *Friday at 9.30 a.m.* (General Admission)
 29 June, *Saturday at 9.30 a.m.* (General Admission)
 20 July, *Saturday at 10 a.m.*

Notice of a Discussion on Tuesday, 11 June 2013

The Vice-Chancellor invites those qualified under the regulations for Discussions (*Statutes and Ordinances*, p. 107) to attend a Discussion in the Council Room, on Tuesday, 11 June 2013, at 2 p.m., for the discussion of:

1. Report of the Council, dated 20 May 2013, on the financial position and budget of the University, recommending allocations from the Chest for 2013–14 (*Reporter*, 6308, 2012–13, p. 555).
2. Report of the Council, dated 28 May 2013, on the Technical Review of the Statutes (*Reporter*, 6309, 2012–13, p. 579).

Notice of benefactions

27 May 2013

The Vice-Chancellor gives notice that he has accepted with gratitude the following benefactions, of which both the capital and the income may be used:

- (i) a benefaction of £100,000 from Cambridge in America (UK) Ltd, following a donation by Anne Glover CBE, towards the new building for the Department of Materials Science and Metallurgy;
- (ii) a benefaction of £250,000 from Toshiba Research Europe to support the work of Professor David Richie in the Department of Physics;
- (iii) a benefaction of US\$500,000 from Cambridge in America, following a gift from Mr Edward P. Bass, to support an exchange programme between Cambridge and Yale Universities for graduate students in architecture;
- (iv) a benefaction of £250,000 for the Isaac Newton Institute for Mathematical Sciences from Mr Clive Humby and Ms Edwina Dunn;
- (v) an unrestricted donation from the LJC Fund;
- (vi) an anonymous benefaction of £183,043 to support bursaries for students on the Master of Philosophy course in Finance and Economics;
- (vii) a benefaction of £300,522 from the Anglo American Group Foundation to support the EcoHouse Initiative, a collaborative research project developing sustainable housing in Latin America, based in the Departments of Engineering and Architecture;
- (viii) a benefaction of £25,000 from the Staples Trust to support the appeal by the Scott Polar Research Institute to purchase the lost photographs of Captain Scott;
- (ix) a benefaction of £1,000,000 from the Underwood Trust, to support the establishment of the Cambridge Engineering Online Tuition System at the Department of Engineering.

Second-stage Report of the Council on the construction of a Data Centre on the West Cambridge site: Notice in response to Discussion remarks

The Council has received the remarks made at the Discussion on 14 May 2013 concerning the above Report (*Reporter*, 2012–13; 6304, p. 471; 6308, p. 577).

The three major stakeholders (University Computing Service (UCS), High Performance Computing Service (HPCS), and Cambridge Assessment) each have high-level representation on the Data Centre Steering Committee, and internal communication is channelled through those members.

The design and capacity of the proposed Data Centre are in accordance with the parameters agreed during the design process. In the event, the availability of space in the Soulsby and Roger Needham Buildings provides more capacity for UCS than originally anticipated. The proposed Data Centre includes three halls that will be fully fitted out when construction is complete. When these halls are full and demand justifies it, the fourth ‘fallow’ hall can be fitted out and brought into use. The building has been designed with common services and infrastructure with a potential second

building adjacent. If the demand grows further, and if the business case for co-location for further servers is compelling, then the second building can be constructed relatively quickly without disruption to the first.

It is difficult to provide precise figures for achievable carbon reduction since accurate PUE (power usage effectiveness) ratings are not available for the current machine rooms. It should also be understood that maximum operating efficiencies will not be achieved until the halls are working at full capacity. The assessment of 40% in savings quoted in the Report is therefore an estimate of the level of savings possible based on an estimated average Facility PUE of 2.0 for all the existing organizations that will relocate to the new Data Centre. This estimate was itself based upon measured Data Room PUEs provided by Cambridge Assessment that were considered to be at least as efficient as those occupied within the University. This is the best information available on which to provide an approximate basis of assessment at the present time. The 'most energy-efficient' cooling mechanisms were ultimately rejected because the capital expenditure required to satisfy the different technical requirements of the UCS and HPCS elements would have been prohibitive. Re-use of heat elsewhere on the West Cambridge site is not currently economical, as demand for the low-grade heat produced by the facility is insufficient at present.

The Steering Committee expect to appoint a Manager to take up the position in late summer 2013. The Manager will be the key individual for liaising with Estate Management on the construction and testing of the Data Centre, will take the lead in planning financial models, and will also be the key contact liaising with the current planned occupants as well as potential future users. In the first instance the Manager is likely to report to the Chair of the Steering Committee, but the intention is that line management responsibility will transfer as soon as is practicable to the Director of Information Services.

The Council is publishing a Grace (Grace 1, p. 598) for the approval of this Report.

Stipends of the holders of clinical academic offices and payment for clinical responsibility: Notice

Agreement has now been reached on increases in clinical salaries for 2013. Following a recent meeting of the Board of the Universities and Colleges Employers Association, the Clinical Academic Staff Salaries Committee have agreed to translate the recent award of the Doctors' and Dentists' Review Body into the salaries of clinical academic staff. The increase, from 1 April 2013, is 1% on the scale points for Consultants and Clinical Lecturers.

In accordance with the principle that the remuneration of clinical academic staff in Cambridge should be broadly comparable with that of equivalent staff in other UK medical schools, the General Board have agreed to approve revised stipends and scales of stipends for clinical appointments in Cambridge. The figures currently shown in Schedule II to the regulations for Stipends (*Statutes and Ordinances*, p. 684) are replaced, with effect from 1 April 2013, by the following figures:

For Clinical Lecturers on the equivalent of the NHS Specialist Registrar scales (pre-2009):

Clinical Lecturer	£31,301 by ten increments to £54,199
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For Clinical Lecturers on the equivalent of the NHS Specialty Registrar scales (post-2009):

Clinical Lecturer	£31,838 by ten increments to £56,312
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The offices of Associate Dean in the Faculty of Clinical Medicine, Director, and Assistant Director of Studies in General Practice are part-time and stipends are determined by local agreement, with reference to the appropriate full-time Consultant salary.

The Board have also approved the following basis for calculating rates of payment for clinical responsibility for University officers with honorary NHS contracts as Consultants:

New (2003) Consultant Contract:

If the integrated job plan and the honorary Consultant contract agreed with the NHS covers not less than ten Programmed Activities a week, the annual pensionable payment for clinical responsibility will amount to the difference between the officer's prime stipend and her or his notional place on the NHS full-time Consultant salary scale.

That scale is:

With effect from 1 April 2013: £75,249, £77,605, £79,961, £82,318, £84,667, £90,263, £95,860, £101,451.

Pre-2003 Consultant Contract:

If the honorary Consultant contract agreed with the NHS covers not less than six NHS sessions a week, the annual pensionable payment for clinical responsibility will amount to the difference between the officer's prime stipend and her or his notional place on the NHS full-time Consultant salary scale.

That scale is:

With effect from 1 April 2013: £62,478, £66,948, £71,419, £75,889, £80,988.

Undergraduate Admissions Statistics 2012: Notice

The Undergraduate Admissions Statistics 2012 cycle information is now live on the Undergraduate Study website. An online pdf copy of the Undergraduate Admissions Statistics 2012 cycle is available at <http://www.study.cam.ac.uk/undergraduate/publications/docs/admissionsstatistics2012.pdf>. Further information about undergraduate admissions statistics is available at <http://www.study.cam.ac.uk/undergraduate/apply/statistics/>.

VACANCIES, APPOINTMENTS, ETC.**Vacancies in the University**

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

KPMG Professorship of Management Studies in Judge Business School; informal enquiries: Professor Christoph Loch, Director of Judge Business School (email: c.loch@jbs.cam.ac.uk or tel. 01223 339590); closing date: 24 June 2013; further particulars: <http://www.admin.cam.ac.uk/offices/academic/secretary/professorships/>; quote reference: NS29132

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.

Election

The following election has been made:

Professor Anne Carla Ferguson-Smith, *DAR*, B.Sc., *University of Glasgow*, M.S., Ph.D., *University of Yale*, Professor of Developmental Genetics, Department of Physiology, Development, and Neuroscience, elected Professor of Genetics with effect from 1 June 2013.

AWARDS, ETC**Seatonian Prize: Notice**

(Statutes and Ordinances, p. 930)

The Examiners of the Seatonian Prize for the best English poem on a sacred subject give notice that the subject for 2013 is: The Divine Compassion.

The Prize is open for competition among all members of the Senate, and all persons who are possessors of the status of Master of Arts. Each candidate must send three copies of the exercise, together with a statement that it is her or his own original work, to the Administrative Officer, The Faculty of Divinity, West Road, Cambridge, CB3 9BS, not later than 30 September 2013. The exercises must be printed or typewritten. Each copy must bear a motto but not the candidate's name and must be accompanied by a sealed envelope bearing the same motto outside and containing the name of the candidate, her or his College, and home address if not still at College.

The prize money will not be paid until the successful candidate has deposited a printed or typewritten copy of the poem in the University Library.

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 Faculty and Departmental websites, and in the following resources.

The What's On website (<http://www.admin.cam.ac.uk/whatson/>) carries details of exhibitions, music, theatre and film, courses, and workshops, and is searchable by category and date. Both an RSS feed and a subscription email service are available.

Talks.cam (<http://www.talks.cam.ac.uk/>) is a fully searchable talks listing service, and talks can be subscribed to and details downloaded.

Brief details of upcoming events are given below.

Kettle's Yard

6 July – 1 September 2013: *Christopher Wood*
An exhibition exploring the life and work of the charismatic
English artist Christopher Wood (1901–1930)

[http://www.kettlesyard.cam.ac.uk/
collection/works.php?artist=197](http://www.kettlesyard.cam.ac.uk/collection/works.php?artist=197)

REGULATIONS FOR EXAMINATIONS

Engineering Tripos, Parts IA and IB

(*Statutes and Ordinances*, p. 320)

With effect from 1 October 2013

SUPPLEMENTARY REGULATIONS

The Faculty Board of Engineering give notice of the following amendments to the Supplementary Regulations for the Tripos.

Part IA: Paper 1. Mechanical engineering

By removing the reference to 'heat transfer'.

Part IB: Paper 5. Electrical engineering

By removing the reference to 'bipolar'.

Part IB: Paper 7. Mathematical methods

By amending the description of the paper to include a reference to 'PDEs' to read as follows:

The paper shall consist mainly of questions on: vector calculus and PDEs; probability; linear algebra.

The Faculty Board of Engineering have confirmed that no candidate's preparation for the examination will be affected.

Linguistics Tripos

(*Statutes and Ordinances*, p. 365)

With immediate effect

Regulation 10 of the Tripos has been amended in order that variable subjects are announced one year, instead of two years, in advance.

Regulation 10.

By amending the Regulation so as to read:

10. Before the end of the Easter Term each year the Faculty Board shall give notice of any variable subjects to be held in the academical year next following; provided that the Board shall have the power of subsequently issuing amendments if they have due reason for doing so and if they are satisfied that no student's preparation for the examination is adversely affected.

With effect from 1 October 2013

The list of papers to be offered under Section C has been amended.

SECTION C

Paper 7. Foundations of speech communication (Paper Li.7 of the Modern and Medieval Languages Tripos).

By revising the existing paper and amending the title to A subject in linguistics to be specified by the Faculty Board from time to time (Paper Li.7 of the Modern and Medieval Languages Tripos).

Paper 12. History of ideas on language (also serves as Paper O1 of the Classical Tripos, and Paper Li.12 of the Modern and Medieval Languages Tripos).

By suspending this paper in 2013–14 and each alternate year thereafter until further notice.

Paper 13. History of the English language (also serves as Paper Li.13 of the Modern and Medieval Languages Tripos and Paper 29 of Part II of the English Tripos (Old Regulations)).

By suspending this paper in 2014–15 and each alternate year thereafter.

Paper 14. A subject in Linguistics to be specified by the Faculty Board from time to time (Paper Li.14 of the Modern and Medieval Languages Tripos).

By introducing a non-variable paper to be entitled Paper 14. History of the French language (Paper Li.14 of the Modern and Medieval Languages Tripos) and by suspending this paper in 2014–15 and each alternate year thereafter.

Paper 15. A subject in Linguistics to be specified by the Faculty Board from time to time (Paper Li.15 of the Modern and Medieval Languages Tripos).

By introducing a non-variable paper to be entitled Paper 15. First and second language acquisition (Paper Li.15 of the Modern and Medieval Languages Tripos).

Paper 16. A subject in Linguistics to be specified by the Faculty Board from time to time (Paper Li.16 of the Modern and Medieval Languages Tripos).

By introducing a non-variable paper to be entitled Paper 16. Psychology of language processing and learning (Paper Li.16 of the Modern and Medieval Languages Tripos).

Paper 18. A subject in Linguistics to be specified by the Faculty Board from time to time (Paper Li.18 of the Modern and Medieval Languages Tripos).

By introducing a non-variable paper to be entitled Paper 18. Computational linguistics (Paper Li.18 of the Modern and Medieval Languages Tripos).

The Faculty Board of Modern and Medieval Languages have confirmed that no candidate's preparation for the examination in 2014 will be affected.

Modern and Medieval Languages Tripos

(*Statutes and Ordinances*, p. 377)

With effect from 1 October 2013

The Schedules of papers offered under Schedules B, IB, II, and D of the Tripos have been amended. The footnote under Regulation 18(a) pertaining to the availability of papers in modern Greek has been amended accordingly.

Regulation 18(a).

By amending the footnote pertaining to modern Greek so as to read:

'Certain papers will be available at Part II during the academical year 2013–14. All papers except Gr. 3 will be suspended. All papers in Modern Greek as specified in Schedule A will be suspended until further notice from October 2013.'

SCHEDULE B

German

Ge. 2 Introduction to German history and thought since 1750.

By amending the title of the paper *to* German history and thought since 1750.

Ge. 5 Modern German culture, I.

By revising the existing paper, and amending the title *to* Modern German culture I, 1750 to 1914.

Modern Greek

Gr. 4 Crete and Cyprus in the Renaissance period.

This paper will be suspended until further notice.

Gr. 5 Greek literature, thought, and history, from 1700 to 1900.

This paper will be suspended until further notice.

Gr. 6 Greek literature, thought, and history, since 1900.

This paper will be suspended until further notice.

Gr. 7 The history and structure of Modern Greek (also serves as Paper 24 of the Linguistics Tripos).

This paper will be suspended until further notice.

Italian

It. 3 Italian modernism.

This paper will continue to be suspended until 1 October 2014.

It. 9 A special subject in Italian culture.

By revising the existing paper and amending the title *to* Text and image.

Neo-Latin

NL 2 A special subject in Neo-Latin literature: Sannazaro, Poliziano, Bèze, and Buchanan (also serves as Paper O7 of the Classical Tripos and as paper 27B of Part II of the English Tripos).

By amending the title *to* A special subject in Neo-Latin literature: selected authors.

Russian

Ru. 2. Introduction to Russian literature, history, and culture since 1855.

By revising the existing paper and amending the title *to* Soviet and Russian cinema.

Ru. 6. Russian culture after 1880.

This paper will be suspended until 1 October 2014, but will be made available to be offered as an optional dissertation for Tripos 2014.

And by inserting a new paper to be entitled Ru. 10. Russian culture after 1953.

Linguistics

Li. 7. Foundations of speech communication (Paper 7 of the Linguistics Tripos).

By revising the existing paper and amending the title *to* A subject in linguistics to be specified by the Faculty Board from time to time (Paper 7 of the Linguistics Tripos).

Li. 12. History of ideas on language (Paper 12 of the Linguistics Tripos).

By suspending this paper in 2013–14 and each alternate year thereafter until further notice.

Li. 13. History of the English language (Paper 13 of the Linguistics Tripos).

By suspending this paper in 2014–15 and each alternate year thereafter.

Li. 14. A subject in Linguistics to be specified by the Faculty Board from time to time (Paper 14 of the Linguistics Tripos).

By introducing a non-variable paper to be entitled Li. 14. History of the French language (Paper 14 of the Linguistics Tripos), and by suspending this paper in 2014–15 and each alternate year thereafter.

Li. 15. A subject in Linguistics to be specified by the Faculty Board from time to time (Paper 15 of the Linguistics Tripos).

By introducing a non-variable paper to be entitled Li. 15. First and second language acquisition (Paper 15 of the Linguistics Tripos).

Li. 16. A subject in Linguistics to be specified by the Faculty Board from time to time (Paper 16 of the Linguistics Tripos).

By introducing a non-variable paper to be entitled Li. 16. Psychology of language processing and learning (Paper 16 of the Linguistics Tripos).

Li. 18. A subject in Linguistics to be specified by the Faculty Board from time to time (Paper 18 of the Linguistics Tripos).

By introducing a non-variable paper to be entitled Li. 18. Computational linguistics (Paper 18 of the Linguistics Tripos).

SCHEDULE 1B

By amending the Schedule so as to:

- (i) suspend papers It. 3 and Ru. 6 to 1 October 2014;
- (ii) remove the asterisks from papers Ge. 1 and Ru. 2 so as to make them available to all Part 1B candidates notwithstanding the Option offered at Part 1A;
- (iii) remove the daggers from papers Gr. 2, Ru. 3, Ru. 4, Ru. 6, Ru. 7, Ru. 8, and Ru. 9. These papers are no longer available for assessment by a portfolio of essays as provided for by Regulation 23;
- (iv) to add papers Ru. 2, Ru. 10, and Sp. 15;
- (v) insert a dagger against papers Ru. 2 and Ru. 10. These papers will be available for assessment by a portfolio of essays as provided for by Regulation 23.

SCHEDULE II

By amending the Schedule so as to:

- (i) suspend papers Gr. 4, Gr. 5, Gr. 6, and Gr. 7 until further notice;
- (ii) suspend paper Ru. 6 until October 2014;
- (iii) suspend paper Li. 12 until October 2014 and each alternate year thereafter;
- (iv) suspend papers Li. 13 and Li. 14 from October 2014 until October 2015 and each alternate year thereafter;
- (v) insert papers Ru. 2 and Ru. 10.

SCHEDULE D

PAPERS FROM OTHER TRIPOSES THAT MAY BE TAKEN IN PART II

By amending the Schedule as follows:

- (i) so as to amend the titles of the following papers in the list of those that may be offered from Part II of the Classical Tripos:

Classical Tripos, Part II

Paper X1. A subject specified by the Faculty Board from time to time

Paper X2. A subject specified by the Faculty Board from time to time

(ii) so as to remove the current papers from the list of those that may be offered from Part II of the English Tripos, and to replace them with the following:

English Tripos, Part II (New Regulations)

Paper 2. Tragedy

Paper 5. Chaucer

Paper 13. Postcolonial and related literatures

Paper 18. Literature and visual culture

The Faculty Board of Modern and Medieval Languages have confirmed that no candidate's preparation for the examination in 2014 will be affected.

NOTICES BY FACULTY BOARDS, ETC.

Notice for the attention of courses intending to borrow papers from Parts IIA and IIB of the Engineering and Manufacturing Engineering Triposes

The Faculty Board of Engineering requests that it be given notice of any course that intends to borrow a paper from the Engineering Tripos or the Manufacturing Engineering Tripos. This notice should be given by the end of the full Easter Term in the academic year before the course is run.

Notice should be sent to the Secretary of the Faculty Board of Engineering (email mjm61@cam.ac.uk), who will forward the request to the relevant Subject Group within the Department of Engineering. To satisfy timetabling, resourcing, or other constraints, the Subject Groups or the Faculty Board may impose a cap on the numbers of students from any particular course who may take a particular paper.

Engineering Tripos, Parts IIA and IIB, 2013–14: Notice

The Faculty Board of Engineering give notice that the modules prescribed for the examinations to be held in 2014, and the mode of examination for each module, will be as follows:

PART IIA: MODULES

Unit	Title	Set	Mode	Notes
<i>Group A: Energy, fluid mechanics, and turbomachinery</i>				
3A1	Fluid mechanics I	IIAM8/L7	p	Double module
3A3	Fluid mechanics II	IIAM1/L1	p	Double module
3A5	Thermodynamics and power generation	IIAM7	p	
3A6	Heat and mass transfer	IIAL3	p	
<i>Group B: Electrical engineering</i>				
3B1	Radio frequency electronics	IIAM3	p	
3B2	Integrated digital electronics	IIAL3	p	
3B3	Switch-mode electronics	IIAM2	p	
3B4	Electric drive systems	IIAL2	p	
3B5	Semiconductor engineering	IIAM6	p	
3B6	Photonic technology	IIAL7	p	
<i>Group C: Mechanics, materials, and design</i>				
3C1	Materials processing and design (engineering)	IIAM5	p	Also runs as MET 3P1
3C5	Dynamics	IIAM6	p	
3C6	Vibration	IIAL6	p	
3C7	Mechanics of solids	IIAM4	p	
3C8	Machine design	IIAM3	p	
3C9	Fracture mechanics of materials and structures	IIAL5	p	
<i>Group D: Civil, structural, and environmental engineering</i>				
3D1	Geotechnical engineering I	IIAM1	p	
3D2	Geotechnical engineering II	IIAL1	p	
3D3	Structural materials and design	IIAM2	p	
3D4	Structural analysis and stability	IIAL2	p	
3D5	Water engineering	IIAL8	p	
3D7	Finite element methods	IIAL4	p	
3D8	Building physics and environmental geotechnics	IIAM3	p	

Unit	Title	Set	Mode	Notes
<i>Group E: Management and manufacturing</i>				
3E1	Business economics	IIAL9	p	
3E2	Marketing	IIAM10	p	
3E3	Modelling risk	IIAM9	p	
3E5	Human resource management	IIAM10	p	
3E6	Organizational behaviour	IIAL10	p	
3E10	Operations management for engineers	IIAL9	p	
<i>Group F: Information engineering</i>				
3F1	Signals and systems	IIAM5	p	
3F2	Systems and control	IIAL5	p	
3F3	Signal and pattern processing	IIAL6	p	
3F4	Data transmission	IIAL4	p	
3F5	Computer and network systems	IIAM4	p	
3F6	Software engineering and design	IIAL1	p	
<i>Group G: Bioengineering</i>				
3G1	Introduction to molecular bioengineering	IIAM7	p	
3G2	Mathematical physiology	IIAL3	p	
3G3	Introduction to neuroscience	IIAL2	p	
3G4	Medical imaging and 3D computer graphics	IIAM1	p	
3G5	Biomaterials	IIAM11	p	
<i>Group M: Multidisciplinary modules</i>				
3M1	Mathematical methods	IIAL10	p	
<i>Group S: Modules shared with Part IIb</i>				
4C4	Design methods	IIAM11	p	
4D8	Pre-stressed concrete	IIAM11	p+c	
4M12	Partial differential equations and variational methods	IIAL11	p	
4M16	Nuclear power engineering	IIAL11	p	

NOTES

Sets: M = Michaelmas L = Lent
Assessment: p = exam only p+c = exam and course-work

PART IIA: SETS

Candidates may not offer more than one module for examination from any one of the following numbered sets, and may not offer three or more modules from Groups I and S combined. Students may not take more than two management modules.

Michaelmas

Set	Unit	Title	Mode	Notes
IIAM1	3A3	Fluid mechanics II	p	Double module
	3D1	Geotechnical engineering I	p	
	3G4	Medical imaging and 3D computer graphics	p	
IIAM2	3B3	Switch-mode electronics	p	
	3D3	Structural materials and design	p	
IIAM3	3B1	Radio frequency electronics	p	
	3C8	Machine design	p	
	3D8	Building physics and environmental geotechnics	p	
IIAM4	3C7	Mechanics of solids	p	
	3F5	Computer and network systems	p	
IIAM5	3C1	Materials processing and design	p	
	3F1	Signals and systems	p	
IIAM6	3B5	Semiconductor engineering	p	
	3C5	Dynamics	p	
IIAM7	3A5	Thermodynamics and power generation	p	
	3G1	Introduction to molecular bioengineering	p	

Set	Unit	Title	Mode	Notes
IIAM8	3A1	Fluid mechanics I	p	Double module
IIAM9	3E3	Modelling risk	p	
IIAM10	3E2	Marketing	p	
	3E5	Human resource management	p	
IIAM11	4C4	Design methods	p	Shared module
	3G5	Biomaterials	p	
Lent				
Set	Unit	Title	Mode	Notes
IIAL1	3A3	Fluid mechanics II	p	Double module
	3D2	Geotechnical engineering II	p	
	3F6	Software engineering and design	p	
IIAL2	3B4	Electric drive systems	p	
	3D4	Structural analysis and stability	p	
	3G3	Introduction to neuroscience	p	
IIAL3	3A6	Heat and mass transfer	p	
	3B2	Integrated digital electronics	p	
	3G2	Mathematical physiology	p	
IIAL4	3D7	Finite element methods	p	
	3F4	Data transmission	p	
IIAL5	3C9	Fracture mechanics of materials and structures	p	
	3F2	Systems and control	p	
IIAL6	3C6	Vibration	p	
	3F3	Signal and pattern processing	p	
IIAL7	3A1	Fluid mechanics I	p	Double module
	3B6	Photonic technology	p	
IIAL8	3D5	Water engineering	p	
IIAL9	3E1	Business economics	p	
	3E10	Operations management for engineers	p	
IIAL10	3E6	Organizational behaviour	p	
	3M1	Mathematical methods	p	
IIAL11	4D8	Pre-stressed concrete	p	Shared module
	4M12	Partial differential equations and variational methods	p	Shared module
	4M16	Nuclear power engineering	p	Shared module

PART IIB: MODULES

The modules prescribed for the examinations to be held in 2014, and the mode of examination for each module, will be as follows:

Unit	Title	Set	Mode	Notes
<i>Group A: Energy, fluid mechanics, and turbomachinery</i>				
4A2	Computational fluid dynamics	IIBM1	c	
4A3	Turbomachinery I	IIBM7	p+c	
4A7	Aerodynamics	IIBM3	c	
4A9	Molecular thermodynamics	IIBM6	p	
4A10	Flow instability	IIBL6	p	
4A11	Turbomachinery II	IIBL9	p+c	
4A12	Turbulence and vortex dynamics	IIBL3	p	
4A13	Combustion and IC engines	IIBL5	p	
4A15	Aeroacoustics	IIBM9	p	

Unit	Title	Set	Mode	Notes
<i>Group B: Electrical engineering</i>				
4B2	Power microelectronics	IIBM8	p	
4B5	Nanotechnology	IIBM10	p+c	
4B6	Solid state devices and chemical/biological sensors	IIBL3	p	
4B7	VLSI design, technology, and CAD	IIBL1	p+c	
4B11	Photonic systems	IIBM9	p	
4B13	Electronic sensors and instrumentation	IIBL2	p	
4B14	Solar-electronic power: generation and distribution	IIBM4	p+c	
4B19	Renewable electrical power	IIBM2	p	
4B20	Display technology	IIBL6	p	
4B21	Analogue integrated circuits	IIBL5	p	
<i>Group C: Mechanics, materials, and design</i>				
4C2	Designing with composites	IIBM5	p+c	
4C3	Electrical and nano materials	IIBM6	p	
4C4	Design methods	IIBM2	p	Shared with Part IIA
4C5	Design case studies	IIBL4	c	
4C6	Advanced linear vibrations	IIBM4	p+c	
4C7	Random and non-linear vibrations	IIBM8	p+c	
4C8	Applications of dynamics	IIBL1	p+c	
4C9	Continuum mechanics	IIBM7	p	
4C15	MEMS: design	IIBL6	p+c	
4C16	Advanced machine design	IIBL9	p+c	
<i>Group D: Civil, structural, and environmental engineering</i>				
4D4	Ground engineering	IIBL8	c	
4D5	Foundation engineering	IIBL5	p+c	
4D6	Dynamics in civil engineering	IIBL2	p+c	
4D7	Concrete structures	IIBM4	p+c	
4D8	Pre-stressed concrete	IIBL11	p+c	Shared with Part IIA
4D10	Structural steelwork	IIBM5	p+c	
4D13	Architectural engineering	IIBM12	c	
4D14	Contaminated land and waste containment	IIBM1	p+c	
4D15	Sustainable water engineering	IIBL4	c	
4D17	Plate and shell structures	IIBM3	c	
<i>Group E: Management and manufacturing</i>				
4E3	Information systems	IIBM15	c	
4E4	Management of technology	IIBM18	c	
4E5	International business economics	IIBL12	c	
4E6	Accounting and finance	IIBM16	c	
4E11	Strategic management	IIBL13	c	
4E12	Project management	IIBL14	c	Part IIB Engineering students only
<i>Group F: Information engineering</i>				
4F1	Control system design	IIBM7	p+c	
4F2	Robust and non-linear systems and control	IIBL9	p	
4F3	Optimal and predictive control	IIBL2	p	
4F5	Advanced communications and coding	IIBM6	p	
4F7	Digital filters and spectrum estimation	IIBM8	p	
4F8	Image processing and image coding	IIBM3	p	
4F10	Statistical pattern processing	IIBM9	p	
4F11	Speech and language processing	IIBL1	p	
4F12	Computer vision and robotics	IIBM2	p	
4F13	Machine learning	IIBL8	c	
<i>Group G: Bioengineering</i>				
4G2	Biosensors	IIBL8	c	
4G3	Computational neuroscience	IIBL4	c	
4G4	Biomimetics	IIBL7	c	
4G5	Molecular modelling	IIBM3	c	
4G6	Cellular and molecular biomechanics	IIBM10	p	

Unit	Title	Set	Mode	Notes
<i>Group I: Imported modules</i>				
4I1	Strategic valuation (TPE6)	IIBM17	c	Christmas vacation module Numbers will be capped
4I5	Nuclear materials	IIBM17	p	
4I7	Electricity and environment	IIBM12	c	
4I8	Medical physics	IIBL10	p	
4I9	Low power embedded systems programming	IIBM17	c	Numbers will be capped
4I10	Nuclear reactor engineering	IIBM13	p	
4I11	Advanced fission and fusion systems	IIBL10	p	
<i>Group M: Multidisciplinary modules</i>				
4M1	French	IIBL7	c	
4M2	German	IIBL7	c	
4M3	Spanish	IIBM11	c	
4M4	Japanese	IIBM11	c	
4M6	Materials and processes for microsystems (MEMS)	IIBM1	p+c	
4M9	Surveying field course	LV1	c	Long vacation module Numbers will be capped
4M12	Partial differential equations and variational methods	IIBL11	p	Shared with Part IIA
4M14	Sustainable development	IIBM13	c	
4M15	Sustainable energy	IIBM10	p+c	
4M16	Nuclear power engineering	IIBL11	p	Shared with Part IIA
4M17	Practical optimization	IIBM14	c	
4M18	Present and future energy systems	IIBM5	p	
4M19*	Advanced building physics	IIBM14	c	

NOTES

c: Course-work p: Exam p+c: Exam and course-work

* Please note that as the Faculty Board do not have exclusive control over all sets they cannot guarantee that those marked with a star will not clash with any other set.

PART IIB: RESTRICTIONS ON THE COMBINATIONS OF MODULES CANDIDATES MAY CHOOSE TO OFFER

Candidates, when choosing modules for examination, may not offer two or more modules from any one of the following numbered sets. In addition, students may take not more than THREE from the following: any of the 4E papers; 4I1 and 4I7; 4M1–4, and (when available) 4D16.

No candidate who offered any module for Part IIA may again offer the same module for Part IIB.

There will be no Group R (research) modules available to Part IIB students in 2013–14.

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Set	Unit	Title	Mode	Notes
IIBM1	4A2	Computational fluid dynamics	c	
	4D14	Contaminated land and waste containment	p+c	
	4M6	Materials and processes for microsystems (MEMS)	p+c	
IIBM2	4B19	Renewable electrical power	p	
	4C4	Design methods	p	Shared with Part IIA
	4F12	Computer vision and robotics	p	
IIBM3	4A7	Aerodynamics	c	
	4D17	Plate and shell structures	c	
	4G5	Molecular modelling	c	
IIBM4	4B14	Solar-electronic power: generation and distribution	p+c	
	4C6	Advanced linear vibrations	p+c	
	4D7	Concrete structures	p+c	
IIBM5	4C2	Designing with composites	p+c	
	4D10	Structural steelwork	p+c	
	4M18	Present and future energy systems	p	
IIBM6	4A9	Molecular thermodynamics	p	
	4C3	Electrical and nano materials	p	
	4F5	Advanced communications and coding	p	

Set	Unit	Title	Mode	Notes
IIBM7	4A3	Turbomachinery I	p+c	
	4C9	Continuum mechanics	p	
	4F1	Control system design	p+c	
IIBM8	4B2	Power microelectronics	p	
	4C7	Random and non-linear vibrations	p+c	
	4F7	Digital filters and spectrum estimation	p	
IIBM9	4A15	Aeroacoustics	p	
	4B11	Photonic systems	p	
	4F10	Statistical pattern processing	p	
IIBM10	4B5	Nanotechnology	p+c	
	4G6	Cellular and molecular biomechanics	p	
	4M15	Sustainable energy	c	
IIBM11	4M3	Spanish	c	
	4M4	Japanese	c	
IIBM12	4D13	Architectural engineering	c	
	4I7	Electricity and environment	c	
IIBM13	4I10	Nuclear reactor engineering	p	
	4M14	Sustainable development	c	
IIBM14	4M17	Practical optimization	c	
	4M19	Advanced building physics	c	
IIBM15	4E3	Information systems	c	
IIBM16	4E6	Accounting and finance	c	
IIBM17*	4I1	Strategic valuation (TPE6)	c	Christmas vacation module Numbers will be capped
	4I5	Nuclear materials	p	
	4I9	Low power embedded systems programming	c	Numbers will be capped
IIBM18	4E4	Management of technology	c	

* Please note that as the Faculty Board do not have exclusive control over all sets they cannot guarantee that those marked with a star will not clash with any other set.

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Set	Unit	Title	Mode	Notes
IIBL1	4B7	VLSI design, technology, and CAD	p+c	
	4C8	Applications of dynamics	p+c	
	4F11	Speech and language processing	p	
IIBL2	4B13	Electronic sensors and instrumentation	p	
	4D6	Dynamics in civil engineering	p+c	
	4F3	Optimal and predictive control	p	
IIBL3	4A12	Turbulence and vortex dynamics	p	
	4B6	Solid state devices and chemical/biological sensors	p	
	4F8	Image processing and image coding	p	
IIBL4	4C5	Design case studies	c	
	4D15	Sustainable water engineering	c	
	4G3	Computational neuroscience	c	
IIBL5	4A13	Combustion and IC engines	p	
	4B21	Analogue integrated circuits	p	
	4D5	Foundation engineering	p+c	

Set	Unit	Title	Mode	Notes
IIBL6	4A10	Flow instability	p	
	4B20	Display technology	p	
	4C15	MEMS: design	p+c	
IIBL7	4G4	Biomimetics	c	
	4M1	French	c	
	4M2	German	c	
IIBL8	4D4	Construction engineering	c	
	4F13	Machine learning	c	
	4G2	Biosensors	c	
IIBL9	4A11	Turbomachinery II	p+c	
	4C16	Advanced machine design	p+c	
	4F2	Robust and non-linear systems and control	p	
IIBL10*	4I8	Medical physics	p	
	4I11	Advanced fission and fusion systems	p	
IIBL11	4D8	Pre-stressed concrete	p+c	Shared with Part IIA
	4M12	Partial differential equations and variational methods	p	Shared with Part IIA
	4M16	Nuclear power engineering	p	Shared with Part IIA
IIBL12	4E5	International business economics	c	
IIBL13	4E11	Strategic management	c	
IIBL14	4E12	Project management	c	Part IIB Engineering students only

Long Vacation

LV1	4M9	Surveying field course		Numbers will be capped
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* Please note that as the Faculty Board do not have exclusive control over all sets they cannot guarantee that those marked with a star will not clash with any other set.

Manufacturing Engineering Tripos, Part IIA, 2013–14: Notice

The Faculty Board of Engineering give notice that the modules prescribed for the examinations to be held in 2014 will be as follows:

- 3P1. Materials into products
- 3P2. Operation and control of production machines and systems
- 3P3. Product design
- 3P4. Operations management
- 3P5. Industrial engineering
- 3P6. Organizational behaviour
- 3P7. Managing business and people
- 3P8. Financial and management accounting
- 3P9. Industrial economics, strategy, and governance
- 3P10. Contemporary issues in manufacturing

All modules will be assessed by examination only, with the exception of module 3P3, which will be assessed by course-work only.

Linguistics Tripos, 2013–14: Notice

Notice of variable subjects

The Faculty Board of Modern and Medieval Languages give notice of the following variable subjects to be examined in 2014:

PART II

Paper 7: A special subject in Linguistics: This paper is not available in 2013–14

Paper 17: A special subject in Linguistics: *Language typology*

Paper 19: A special subject in Linguistics: This paper is not available in 2013–14

Modern and Medieval Languages Tripos, 2013–14: Notice

Notice of variable subjects

The Faculty Board give notice of the following variable subjects to be examined in 2014:

PART II

French

- Fr. 7 Topics in Medieval Studies (also serves as Paper 34 of Part II of the English Tripos): *Defining the human in medieval French literature and culture*
- Fr. 14. A Special Topic in French studies (A): *Visual cultures and/or performance*
- Fr. 15. A Special Topic in French studies (B): This paper is not available in 2013–14
- Fr.16 A Special Topic in French studies (C): *Colonization, empire, and globalization: technologies of space in French culture since 1700*

German

- Ge. 12. A special period or subject in German literature, thought, or history (i): *History and identity in Germany, 1750 to the present.*
- Ge. 13. A special period or subject in German literature, thought, or history (ii): *Aspects of German-speaking Europe since 1945.*

Neo-Latin

- NL. 2 A special subject in Neo-Latin literature: *Selected authors*

Linguistics

- Li 7 A special subject in Linguistics: This paper is not available in 2013–14
- Li. 17 A special subject in Linguistics: *Language typology*

Comparative Studies

- CS. 4 A special subject in comparative literature (i): This paper is suspended until further notice
- CS. 5 A special subject in comparative literature (ii): *The Body*

CLASS-LISTS, ETC.

Approved for degrees

The Board of Graduate Studies have approved the following persons for the award of degrees. In the case of degrees where dissertations are required to be deposited in the University Library, the title of the dissertation is shown after the name of the person by whom it was submitted.

This content has been removed as it contains personal information protected under the Data Protection Act.

GRACES**Grace submitted to the Regent House on 30 May 2013**

The Council submits the following Grace to the Regent House. This Grace, unless it is withdrawn or a ballot is requested in accordance with the regulations for Graces of the Regent House (*Statutes and Ordinances*, p. 107), will be deemed to have been approved at 4 p.m. on Friday, 7 June 2013.

1. That the recommendation in paragraph 8 of the Second-stage Report of the Council, dated 22 April 2013, on the construction of a Data Centre on the West Cambridge site (*Reporter*, 6304, 2012–13, p. 471), be approved.¹

¹ See the Council's Notice on p. 582.

ACTA**Approval of Grace submitted to the Regent House on 15 May 2013**

The Grace submitted to the Regent House on 15 May 2013 (*Reporter*, 6307, 2012–13, p. 533) was approved at 4 p.m. on Friday, 24 May 2013.

J. W. NICHOLLS, *Registrar*

END OF THE OFFICIAL PART OF THE 'REPORTER'

COLLEGE NOTICES**Vacancies**

Fitzwilliam College: Up to five Bye-Fellowships for postdoctoral researchers in any field; benefits: SCR membership, dining rights, enhanced supervision payment; tenure: from October 2013, renewable annually; closing date: 10 June 2013 at 10 a.m.; further particulars: <http://www.fitz.cam.ac.uk/vacancies>

Lucy Cavendish College: Time-limited Teaching Fellowship from 1 October 2013 for a woman* post-doctoral researcher, in biomedical sciences, law, English, or sociology; closing date: 10 June 2013 at 12 noon; further particulars: <http://www.lucy-cav.cam.ac.uk/about-us/vacancies>

* The College has exemption from the provisions of the Equality Act 2010 relating to sex discrimination.

Newnham College: Associate Lectureships in Biological Sciences; tenable from 1 October 2013, only in conjunction with another appointment; closing date: 14 June 2013; further particulars: <http://www.newn.cam.ac.uk/joining-newnham/academic-posts>

College Lectureship in Biological Sciences; tenable from 1 October 2013; closing date: 14 June 2013; further particulars: <http://www.newn.cam.ac.uk/joining-newnham/academic-posts>

St John's College: College Nurse; salary: £36,685–£42,538 *pro rata* (depending on experience) plus benefits; 0.85 FTE; closing date: 12 June 2013; further particulars: <http://www.joh.cam.ac.uk/college-nurse-0>

SOCIETIES, ETC.**Society for the History of the University**

The next meeting will be held at 8.30 p.m. in the Old Library, Darwin College, on Thursday, 13 June 2013.

There will be two talks on current oral history projects: Dr Rosalind Grooms, *'All these stories are personal stories in the end': an individual's voice within an institutional body at Cambridge University Press*, and Dr Hazel Mills, *'The spirit of the confessional is here': law, ethics, and the University and Life Experience project at Girton College*.

Refreshments will be available from 8 p.m.

Notices for publication in the *Reporter* should be sent to the Editor, Cambridge University Reporter, Registry's Office, The Old Schools, Cambridge, CB2 1TN (tel. 01223 332305, email reporter.editor@admin.cam.ac.uk). Copy should be sent as early as possible in the week before publication; short notices will be accepted up to **4 p.m. on Thursday** for publication the following Wednesday. Inclusion of notices is at the discretion of the Editor.

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