

CAMBRIDGE UNIVERSITY REPORTER

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CONTENTS

Notices

Calendar	571
Notice of a Discussion on 7 June 2016	571
Notice of a ballot on Grace 1 of 11 May 2016	571
Amending Statutes for Corpus Christi College	572
General Admission to Degrees, 2016: Notice of procedure	572
General Admission to Degrees: Registry's Notice	573
Leave for Allowances to Candidates for Examinations	573
Senate-House Yard and the University Combination Room: Closure on 15 June 2016	573

Vacancies, appointments, etc.

Vacancies in the University	573
Appointments and reappointments	574

Events, courses, etc.

Announcement of lectures, seminars, etc.	574
--	-----

Notices by the General Board

Centre for Medical Genetics and Policy	575
--	-----

Regulations for examinations

M.Phil. Degree by dissertation: Correction to the Schedule	575
Examination in Historical Studies for the M.Phil. Degree	575
Examination in Sustainability Leadership for the M.St. Degree	575

Notices by Faculty Boards, etc.

Engineering and Manufacturing Engineering Triposes: Notice for courses intending to borrow papers from Parts IIA and IIB of the Triposes	576
Engineering Tripos, Parts IIA and IIB, 2016–17: Modules and sets	576
Manufacturing Engineering Tripos, Part IIA, 2016–17	584
Historical Tripos, 2017	584
Natural Sciences Tripos, Part II (History and Philosophy of Science), 2016–17	585
Natural Sciences Tripos, Part III (Interdisciplinary papers), 2016–17	585
Examination in Advanced Computer Science for the M.Phil. Degree, 2016–17	585

End of the Official Part of the 'Reporter'

College Notices

Vacancies	587
Other Notices	587

Societies

Cambridge Society for the Application of Research	587
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External Notices

University of Oxford	587
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UNIVERSITY OF
CAMBRIDGE

NOTICES

Calendar

- 1 June, *Wednesday*. End of third quarter of Easter Term.
 7 June, *Tuesday*. Discussion at 2 p.m. in the Senate-House (see below).
 10 June, *Friday*. Full Term ends.
 15 June, *Wednesday*. Congregation of the Regent House at 2.45 p.m. (Honorary Degrees).
 18 June, *Saturday*. Easter Term ends.

Discussions at 2 p.m.

- 7 June
 5 July

Congregations

- 15 June, *Wednesday at 2.45 p.m.* (Honorary Degrees)
 22 June, *Wednesday at 10 a.m.* (General Admission)
 23 June, *Thursday at 10 a.m.* (General Admission)
 24 June, *Friday at 10 a.m.* (General Admission)
 25 June, *Saturday at 10 a.m.* (General Admission)
 15 July, *Friday at 10 a.m.*
 16 July, *Saturday at 10 a.m.*

Notice of a Discussion on Tuesday, 7 June 2016

The Vice-Chancellor invites those qualified under the regulations for Discussions (*Statutes and Ordinances*, p. 107) to attend a Discussion in the Senate-House, on Tuesday, 7 June 2016, at 2 p.m. for the discussion of:

1. Report of the Council, dated 16 May 2016, on the financial position and budget of the University, recommending allocations from the Chest for 2016–17 (*Reporter*, 6426, 2015–16, p. 525).
2. Report of the Council, dated 16 May 2016, on revised governance arrangements for the development of the West and North West Cambridge sites (*Reporter*, 6426, 2015–16, p. 545).
3. Joint Report of the Council and the General Board, dated 16 May 2016 and 27 April 2016, on the public display of Class-lists and related matters (*Reporter*, 6426, 2015–16, p. 547).

Notice of a ballot on Grace 1 of 11 May 2016

20 May 2016

The Vice-Chancellor gives notice that he has received a request for a vote on Grace 1 of 11 May 2016 (*Reporter*, 6425, 2015–16, p. 515) from the following members of the Regent House:

A. C. AITCHISON	F. A. N. FINCH	M. QATO
J. S. ALDRED	T. E. FORSTER	O. RATH-SPIVACK
J. ASHLEY	J. R. GOG	D. A. RASHEED
P. R. M. BADCOCK	D. J. GOODE	A. C. RICE
R. J. BARNES	J. T. A. GREATOREX	C. RUSSELL
M. B. BECKLES	B. J. HARRIS	M. J. RUTTER
A. R. BERESFORD	R. HAYNES	M. G. SARGEANT
B. J. BURCHELL	P. HEINER	C.-B. SCHÖNLIEB
D. P. CARTER	S. J. ISON	P. M. SHORE
C. P. CAULFIELD	K. M. JEARY	I. SITARIDOU
R. L. C. CHARLES	S. R. KELL	P. S. TAYLOR
W. J. CLEGG	I. J. LEWIS	E. J. TOMLINSON
S. J. COWLEY	J. M. LINE	C. A. TOUT
S. B. DALZIEL	J. P. KING	M. C. VERNON
R. J. DOWLING	D. W. MCBRIDE	A. A. VINNICOMBE
E. S. DOYLE	A. MARTIN-CAMPILLO	J. WARBRICK
S. J. EGLEN	C. G. A. MOUHOT	W. YAQOOB
S. K. L. ELLINGTON	A. MYCROFT	

The vote will be conducted by ballot under the Single Transferable Vote regulations (*Statutes and Ordinances*, p. 117). In connection with this ballot the Registry will arrange for the circulation of any fly-sheet, signed by ten or more members of the Regent House, which reaches him **by 1 p.m. on Thursday, 2 June 2016**. Fly-sheets must bear, in addition to the signatures, the names and initials (in block capitals) of the signatories (*Statutes and Ordinances*, p. 112). Documents which are submitted by fax to 01223 (3)32332 or scanned documents containing a signature sent to the Registry at Registry@admin.cam.ac.uk will also be accepted. Online voting will open at 10 a.m. on Monday, 13 June 2016 and close at 5 p.m. on Thursday, 23 June 2016; fly-sheets will be available online. Hard-copy voting papers and fly-sheets will be distributed not later than Monday, 13 June 2016 to those who opted by 5 November 2015 to vote on paper; the last date for the return of voting papers will be **5 p.m. on Thursday, 23 June 2016**.

Amending Statutes for Corpus Christi College

24 May 2016

The Vice-Chancellor gives notice that he has received from the Governing Body of Corpus Christi College, in accordance with the provisions of Section 7(2) of the Universities of Oxford and Cambridge Act 1923, the text of proposed Statutes to amend the Statutes of the College. The proposed amendments and the current Statutes of the College are available on the College's website at <http://www.corpus.cam.ac.uk/about-us/publications/statutes-ordinances/>.

Paper copies may be inspected at the University Offices until 10 a.m. on 10 June 2016.

General Admission to Degrees, 2016: Notice of procedure

The Vice-Chancellor gives notice that at the Congregations for General Admission to Degrees to be held on 22, 23, 24, and 25 June 2016, tickets will be required for admission to the Senate-House. Admission tickets are issued by Colleges, and prospective graduands should apply to their Colleges for admission tickets for their personal friends whom they wish to invite to the Congregations. Other members of the University who wish to be present are also asked to obtain tickets from their Colleges.

The Congregations will be divided into separate sessions, with intervals between the presentation of candidates from successive Colleges, except that candidates from Murray Edwards College and Darwin College will be presented in a single session, as will candidates from Wolfson College and Clare Hall, and Lucy Cavendish College and St Edmund's College. Visitors may not leave the Senate-House except in the intervals between sessions.

Members of the University are required to wear academical dress in the Senate-House. Any member of the University who is not acting as an officer at the Congregations and who holds a degree of another university or degree-awarding institution may wear the academical dress appropriate to that degree; save that this provision shall not apply to those presenting for, or receiving, degrees. The days of General Admission are 'scarlet' days, and Doctors in the different Faculties are asked to wear their festal gowns.

TIMETABLE FOR THE CONGREGATIONS

Wednesday, 22 June

The doors of the Senate-House will be opened at 9.30 a.m. The Congregation will begin at 10 a.m. and graduands are asked to arrive by the following times.

King's College	9.50 a.m.	Peterhouse	2.20 p.m.
Trinity College	10.40 a.m.	Clare College	3.00 p.m.
St John's College	12.10 p.m.	Pembroke College	4.10 p.m.

The Congregation will be dissolved at about 4.50 p.m.

Thursday, 23 June

The doors of the Senate-House will be opened at 9.30 a.m. The Congregation will begin at 10 a.m. and graduands are asked to arrive by the following times.

Gonville and Caius College	9.50 a.m.	St Catharine's College	2.20 p.m.
Trinity Hall	11.10 a.m.	Jesus College	3.15 p.m.
Corpus Christi College	12.00 noon	Christ's College	4.30 p.m.
Queens' College	12.40 p.m.		

The Congregation will be dissolved at about 5.10 p.m.

Friday, 24 June

The doors of the Senate-House will be opened at 9.30 a.m. The Congregation will begin at 10 a.m. and graduands are asked to arrive by the following times.

Magdalene College	9.50 a.m.	Girton College	2.15 p.m.
Emmanuel College	10.35 a.m.	Newnham College	3.35 p.m.
Sidney Sussex College	11.45 a.m.	Selwyn College	4.30 p.m.
Downing College	12.35 p.m.		

The Congregation will be dissolved at about 5.15 p.m.

Saturday, 25 June

The doors of the Senate-House will be opened at 9.30 a.m. The Congregation will begin at 10 a.m. and graduands are asked to arrive by the following times.

Fitzwilliam College	9.50 a.m.	Robinson College	2.00 p.m.
Churchill College	10.40 a.m.	Lucy Cavendish College <i>and</i> St Edmund's College	2.55 p.m.
Murray Edwards College <i>and</i> Darwin College	11.40 a.m.	Hughes Hall	3.35 p.m.
Wolfson College <i>and</i> Clare Hall	1.20 p.m.	Homerton College	4.10 p.m.

The Congregation will be dissolved at about 5.20 p.m.

General Admission to Degrees: Registry's Notice

The Registry gives notice that the latest time for the receipt of supplicats and any necessary certificates of terms for persons who propose to take degrees at General Admission on Wednesday, 22 June, Thursday, 23 June, Friday, 24 June, or Saturday, 25 June 2016, is **Monday, 13 June 2016 at 10 a.m.** No further additions to degree lists can be accepted after that date.

Leave for Allowances to Candidates for Examinations

23 May 2016

The Council gives notice that, on the recommendation of its Standing Committee for Applications, it has revised paragraph (iv) of the above Notice (as reproduced in *Statutes and Ordinances*, p. 237), so that it includes a reference to the acceptance of a certificate from a College Nurse in support of an application for an allowance. Paragraph (iv) has accordingly been amended so as to read:

- (iv) An application made on medical grounds must be supported by a certificate, preferably given by a doctor practising in or near Cambridge or by a College Nurse or by a counsellor from the University Counselling Service. The Council's Standing Committee on Applications may determine which type of certificate it requires in relation to applications under particular regulations.

Senate-House Yard and the University Combination Room: Notice of closure on Wednesday, 15 June 2016

Both the Senate-House Yard and the Combination Room will be closed on Wednesday, 15 June 2016, on the occasion of the Honorary Degree Congregation. Access to the University Offices will be from Trinity Lane. Only those with admission tickets for the Congregation and other authorized persons will be allowed to enter the Yard during the closure.

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

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

University Lecturer / University Senior Lecturer in Veterinary Education (Curriculum Innovation and Development) in the Department of Veterinary Medicine; tenure: from 1 September 2016; salary: £38,896–£49,230; closing date: 19 June 2016; further particulars: <http://www.jobs.cam.ac.uk/job/10429/>; quote reference: PP09180

Head of Graduate Admissions (part-time (60%), fixed-term) in the Academic Division of the University offices; tenure: fixed-term for twelve months or the return of the post-holder; salary: £38,896–£49,230 *pro rata*; closing date: 6 June 2016; further particulars: <http://www.jobs.cam.ac.uk/job/10403/>; quote reference: AK09158

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.

Appointments and reappointments

The following appointments and reappointments have been made:

APPOINTMENTS

University Lecturers

Computer Laboratory. Dr Damon Jude Wischik, Ph.D., M.A., *T*, appointed from 1 January 2017 until the retiring age and subject to a probationary period of five years.

Education. Dr Benjamin Matthew Alcott, B.A., *London*, M.Sc., *London School of Economics*, Ph.D., *Michigan*, appointed from 1 May 2016 until the retiring age and subject to a probationary period of five years. Dr Riikka Johanna Hofmann, Ph.D., *JE*, M.A., *Helsinki*, appointed from 1 May 2016 until the retiring age and subject to a probationary period of five years.

Engineering. Dr John Hay Durrell, Ph.D., *JE*, M.Sc., *Imperial*, appointed from 1 May 2016 until the retiring age and subject to a probationary period of three years and four months. Dr Mukesh Kumar, Ph.D., *CTH*, M.B.A., *Webster University, Thailand*, appointed from 3 May 2016 until the retiring age and subject to a probationary period of five years. Dr Jose Miguel Hernandez Lobato, Ph.D., M.Sc., B.Sc., *Madrid*, appointed from 1 September 2016 until the retiring age and subject to a probationary period of five years.

Politics and International Studies. Professor Laura Diaz Anadon, Ph.D., *Q*, M.Eng., *Manchester*, M.A., *Harvard*, appointed from 1 September 2016 until the retiring age and subject to a probationary period of three years.

Heads of Department

French. Dr Ian James, *DOW*, appointed from 1 October 2016 for four years.

Middle Eastern Studies. Dr Amira K. Bennison, *M*, appointed from 1 October 2016 for three years.

Assistant Registry

Office of External Affairs and Communications. Mr Stephen Davison, B.A., *Hull*, M.A., *Exeter*, appointed from 7 October 2015 until the retiring age.

Senior Under-Librarians

University Library. Dr Benjamin Mathew Outhwaite, B.A., M.Phil., Ph.D., *CHR*, appointed from 1 April 2016 until the retiring age. Ms Lesley Jean Gray, B.Sc., Dip.H.E., B.Sc., *Witwatersrand, Johannesburg*, B.Bibl., *South Africa*, appointed from 1 May 2016 until the retiring age.

Administrative Officers

Academic Division. Ms Casey Mein, B.A., *Leeds*, appointed from 3 May 2016 until the retiring age and subject to a probationary period of nine months.

Office of External Affairs and Communications. Mr Paul Brenden Holland, B.A., *Wales*, M.A., *Manchester*, appointed from 5 May 2016 until the retiring age and subject to a probationary period of nine months.

REAPPOINTMENTS

Assistant Director of Studies

Public Health and Primary Care. Dr Richard Goronwy Davies, *CL*, reappointed from 1 July 2016 for three years.

Clinical Sub-Dean

Clinical Medicine. Dr Mark Gurnell, *SID*, reappointed from 10 October 2016 for five years.

Heads of Department

Anglo-Saxon, Norse, and Celtic. Dr Rosalind Love, *R*, reappointed from 1 October 2016 for one year.

Pathology. Professor Geoff Smith, *EM*, reappointed from 1 October 2016 for five years.

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/>).

Brief details of upcoming events are given below.

<i>Language Centre</i>	CULP's Long Vacation courses, in a range of languages, and at a variety of levels, now open for enrolment	http://www.langcen.cam.ac.uk/lc/culp/culp-enrolment-and-info.html
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NOTICES BY THE GENERAL BOARD**Centre for Medical Genetics and Policy****With immediate effect**

The General Board has rescinded the regulations for the Centre for Medical Genetics and Policy (*Statutes and Ordinances*, p. 589) in their entirety. The Centre, which was established in 2001, replaced the Centre for Medical Genetics established by Grace 26 of 27 July 1988 (*Reporter*, 5862, 2001–02, p. 213; 5372, 1987–88, p. 875), but has ceased to operate.

REGULATIONS FOR EXAMINATIONS**M.Phil. Degree by dissertation: Correction to the Schedule**

In the Report of the General Board on examination arrangements for the degree of Master of Philosophy (*Reporter*, 6394, 2014–15, p. 762), the recommendations of which were approved by Grace 2 of 28 October 2015, in the Schedule to the regulations for the degrees of Doctor of Philosophy, Master of Science, Master of Letters, and Master of Philosophy by dissertation, listing subjects for examination leading to the M.Phil. Degree by dissertation, the examination in Music Studies was included and the examination in Asian and Middle Eastern Studies (Research) was omitted in error. Corrections have accordingly been made to the Schedule.

Examination in Historical Studies for the M.Phil. Degree

(*Statutes and Ordinances*, p. 496)

With effect from 1 October 2016

The General Board has approved a request from the Degree Committee for the Faculty of History to suspend the examination in Historical Studies until further notice to allow the Faculty time to consider the future sustainability of this course. Recruitment has not taken place for the 2016–17 academical year and therefore no applicant will be disadvantaged by the suspension of this course.

Examination in Sustainability Leadership for the M.St. Degree

(*Statutes and Ordinances*, p. 528)

With effect from 1 October 2016

The General Board, on the recommendation of the Degree Committee for the Faculty of Business and Management, has approved changes to the Special Regulations for the examination in Sustainability Leadership so as to rename one of the required essays and to clarify that the assessment of a candidate's thesis will include an oral presentation of the project work on which the thesis is based.

Regulation 2.

By revising the regulation so as to read:

2. The examination shall consist of:
 - (a) two essays (an analysis paper and a strategy paper), each of no more than 3,000 words in length, and each on a topic approved by the Degree Committee;
 - (b) an essay (a group project) of no more than 7,000 words in length on a topic approved by the Degree Committee;
 - (c) a thesis of not more than 15,000 words in length, including footnotes and appendices, but excluding bibliography, on a subject approved by the Degree Committee. The assessment of the thesis will include an oral presentation of the project work on which the thesis is based.

NOTICES BY FACULTY BOARDS, ETC.**Engineering and Manufacturing Engineering Triposes: Notice for courses intending to borrow papers from Parts IIA and IIB of the 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 academical year before the course is run.

Notice should be sent to the Secretary of the Faculty Board of Engineering (email: faculty-board-office@eng.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, 2016–17: Modules and sets

PART IIA: MODULES

The Faculty Board of Engineering gives notice that the modules prescribed for the examinations to be held in 2017, and the mode of examination for each module, will be as follows:

Key:

Sets: M = Michaelmas Term L = Lent Term
Assessment: p = examination only

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	IIAM11	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	IIAM11	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	IIAM4	p	
3F2	Systems and control	IIAL5	p	
3F3	Statistical signal processing	IIAM1	p	Moves from LT to MT
3F4	Data transmission	IIAL6	p	
3F7	Information theory and coding	IIAM5	p	
3F8	Inference	IIAL4	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	IIAL11	p	
3G5	Biomaterials	IIAM9	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	Shared module
4D16	Construction management	IIAM8 / IIBM9	p	Shared module; alternates with 4D8
4M12	Partial differential equations and variational methods	IIAL11	p	Shared module
4M16	Nuclear power engineering	IIAL11	p	Shared module

PART IIA: SETS

Candidates must offer ten modules for examination. Candidates may offer only one module from any one of the sets. Students may not take more than two management modules.

Set	Unit	Title	Mode	Notes
MICHAELMAS TERM				
IIAM1	3A3	Fluid mechanics II	p	Double module
	3D1	Geotechnical engineering I	p	
	3F3	Statistical signal processing	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	
	3F1	Signals and systems	p	

Set	Unit	Title	Mode	Notes
IIAM5	3C1	Materials processing and design	p	
	3F7	Information theory and coding	p	
IIAM6	3C5	Dynamics	p	
IIAM7	3A5	Thermodynamics and power generation	p	
	3G1	Introduction to molecular bioengineering	p	
IIAM8	3A1	Fluid mechanics I	p	Double module
	4D16	Construction management	p	Shared module; alternates with 4D8
IIAM9	3E3	Modelling risk	p	
	3G5	Biomaterials	p	
IIAM10	3E2	Marketing	p	
	3E5	Human resource management	p	
IIAM11	4C4	Design methods	p	Shared module
	3B5	Semiconductor engineering	p	
	3D5	Water engineering	p	
LENT TERM				
IIAL1	3A3	Fluid mechanics II	p	Double module
	3D2	Geotechnical engineering II	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	
	3F8	Inference	p	
IIAL5	3C9	Fracture mechanics of materials and structures	p	
	3F2	Systems and control	p	
IIAL6	3C6	Vibration	p	
	3F4	Data transmission	p	
IIAL7	3A1	Fluid mechanics I	p	Double module
	3B6	Photonic technology	p	
IIAL9	3E1	Business economics	p	
	3E10	Operations management for engineers	p	

Set	Unit	Title	Mode	Notes
I1AL10	3E6	Organizational behaviour	p	
	3M1	Mathematical methods	p	
I1AL11	4M12	Partial differential equations and variational methods	p	Shared module
	4M16	Nuclear power engineering	p	Shared module
	3G4	Medical imaging and 3D computer graphics	p	

PART IIB: MODULES

The Faculty Board of Engineering gives notice that the modules prescribed for the examinations to be held in 2017, and the mode of examination for each module, will be as follows:

Notes:

c = coursework p = examination only p+c = examination and coursework

Unit	Name	Set	Mode	Notes
<i>Group A: Energy, fluid mechanics, and turbomachinery</i>				
4A2	Computational fluid dynamics	I1BM1	c	
4A3	Turbomachinery I	I1BM7	p+c	
4A4	Aircraft stability and control	I1BM10	c	Coursework in Christmas vacation, and further lecture in LT; max. 30 so may ballot
4A7	Aerodynamics	I1BM3	c	
4A9	Molecular thermodynamics	I1BM6	p	
4A10	Flow instability	I1BL6	p	
4A12	Turbulence and vortex dynamics	I1BL3	p	
4A13	Combustion and IC engines	I1BL5	p	
4A15	Aeroacoustics	I1BM9	p	
<i>Group B: Electrical engineering</i>				
4B2	Power microelectronics	I1BM9	p	
4B5	Nanotechnology	I1BM10	p+c	
4B6	Solid state devices and chemical / biological sensors	I1BL3	p	
4B7	VLSI design, technology, and CAD	I1BL1	p+c	
4B11	Photonic systems	I1BM8	p	
4B14	Solar-electronic power: generation and distribution	I1BM4	p+c	
4B19	Renewable electrical power	I1BM2	p	
4B20	Display technology	I1BL6	p	
4B21	Analogue integrated circuits	I1BM3	p	
4B22	Flexible electronics	I1BL5	p	
<i>Group C: Mechanics, materials, and design</i>				
4C2	Designing with composites	I1BM5	p+c	
4C3	Electrical and nano materials	I1BM6	p	
4C4	Design methods	I1BM2	p	Shared with Part IIA
4C5	Design case studies	I1BL4	c	
4C6	Advanced linear vibrations	I1BM4	p+c	
4C7	Random and non-linear vibrations	I1BM8	p+c	
4C8	Vehicle dynamics	I1BL1	p+c	
4C9	Continuum mechanics	I1BM7	p	
4C15	MEMS: design	I1BL7	p+c	
4C16	Advanced machine design	I1BL9	p+c	

Unit	Name	Set	Mode	Notes
<i>Group D: Civil, structural, and environmental engineering</i>				
4D4	Construction engineering	IIBL1	c	
4D5	Foundation engineering	IIBL5	p	
4D6	Dynamics in civil engineering	IIBL2	p+c	
4D7	Concrete structures	IIBL10	p+c	
4D10	Structural steelwork	IIBM5	p+c	
4D13	Architectural engineering	IIBM12	c	
4D16	Construction management	IIBM9	p	Shared with IIA; alternates with 4D8
4D17	Plate and shell structures	IIBM3	c	
<i>Group E: Management and manufacturing</i>				
4E3	Information systems	IIBM15	c	
4E4	Management of technology	IIBM17	c	
4E5	International business	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	IIBM6	p+c	
4F2	Robust and nonlinear systems and control	IIBL9	p	
4F3	Optimal and predictive control	IIBL2	p	
4F5	Advanced communications and coding	IIBM7	p	
4F7	Digital filters and spectrum estimation	IIBM8	p	
4F8	Image processing and image coding	IIBL3	p	
4F10	Statistical pattern processing	IIBM9	p	
4F12	Computer vision	IIBM2	p	
4F13	Probabilistic machine learning	IIBM11	c	
<i>Group G: Bioengineering</i>				
4G1	Mathematical biology of the cell	IIBL6	c	
4G2	Biosensors	IIBL2	c	
4G3	Computational neuroscience	IIBL4	c	
4G4	Biomimetics	IIBL7	c	
<i>Group M: Multidisciplinary modules</i>				
4M1	French	IIBL15	c	
4M2	German	IIBL15	c	
4M3	Spanish	IIBM11	c	
4M4	Japanese	IIBL15	c	
4M9	Surveying field course	LV1	c	Long Vacation module taken in previous summer; cap: 16
4M12	Partial differential equations and variational methods	IIBL11	p	Shared with Part IIA
4M14	Sustainable development	IIBM13	c	
4M15	Sustainable energy	IIBL8	p+c	
4M16	Nuclear power engineering	IIBL11	p	Shared with Part IIA
4M17	Practical optimization	IIBM19	c	
4M18	Present and future energy systems	IIBM5	p	
4M19	Advanced building physics	IIBM14	c	
4M20	Robotics	IIBM12	c	
4M21	Software engineering and design	IIBL9	p	Cannot be taken in 2016–17 if 3F6 was taken in 2015–16

Unit	Name	Set	Mode	Notes
<i>Group I: Imported modules</i>				
4I1	Strategic valuation (TPE6)	IIBM18	c	Christmas vacation module; cap: 10; borrowed from M.Phil. in Technology Policy
4I7	Electricity and environment (TPE7)	IIBL7	c	Borrowed from M.Phil. in Technology Policy
4I8	Medical physics	IIBL10	p	Borrowed from Physics
4I10	Nuclear reactor engineering	IIBM13	p	Borrowed from M.Phil. in Nuclear Energy
4I11	Advanced fission and fusion systems	IIBL10	p	Borrowed from M.Phil. in Nuclear Energy
4I12	Social and technological network data analytics	IIBL17	c	Numbers will be capped; borrowed from M.Phil. in Advanced Computer Science

PART IIB: RESTRICTIONS ON MODULE COMBINATIONS

Candidates must offer eight modules for examination. Candidates may offer only one module from any chosen set as listed below. 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 2016–17.

Set	Unit	Title	Mode	Notes
MICHAELMAS TERM				
IIBM1	4A2	Computational fluid dynamics	c	
	4D14	Contaminated land and waste containment	p+c	
IIBM2	4B19	Renewable electrical power	p	
	4C4	Design methods	p	Shared with Part IIA
	4F12	Computer vision	p	
IIBM3	4A7	Aerodynamics	c	
	4B21	Analogue integrated circuits	p	
	4D17	Plate and shell structures	c	
IIBM4	4B14	Solar-electronic power: generation and distribution	p+c	
	4C6	Advanced linear vibrations	p+c	
IIBM5	4C2	Designing with composites	p+c	
	4D10	Structural steelwork	p+c	
	4M18	Present and future energy systems	p	
IIBM6	4C3	Electrical and nano materials	p	
	4F1	Control system design	p+c	
	4A9	Molecular thermodynamics	p	
IIBM7	4A3	Turbomachinery I	p+c	
	4C9	Continuum mechanics	p	
	4F5	Advanced communications and coding	p	

Set	Unit	Title	Mode	Notes
IIBM8	4B11	Photonic systems	p	
	4C7	Random and non-linear vibrations	p+c	
	4F7	Digital filters and spectrum estimation	p	
IIBM9	4A15	Aeroacoustics	p	
	4B2	Power microelectronics	p	
	4F10	Statistical pattern processing	p	
	4D16	Construction management	p	Shared with Part IIA
IIBM10	4A4	Aircraft stability and control	c	
	4B5	Nanotechnology	p+c	
IIBM11	4F13	Probabilistic machine learning	c	
	4M3	Spanish	c	
IIBM12	4D13	Architectural engineering	c	
	4M20	Robotics	c	
IIBM13	4I10	Nuclear reactor engineering	p	
	4M14	Sustainable development	c	
IIBM14	4M19	Advanced building physics	c	
IIBM15	4E3	Information systems	c	
IIBM16	4E6	Accounting and finance	c	
IIBM17	4E4	Management of technology	c	
IIBM18	4I1	Strategic valuation (TPE6)	c	Christmas vacation module; cap: 10
IIBM19	4M17	Practical optimization	c	
LENT TERM				
IIBL1	4B7	VLSI design, technology, and CAD	p+c	
	4C8	Applications of dynamics	p+c	
	4D4	Construction engineering	c	
IIBL2	4D6	Dynamics in civil engineering	p+c	
	4F3	Optimal and predictive control	p	
	4G2	Biosensors	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	

Set	Unit	Title	Mode	Notes
IIBL5	4A13	Combustion and IC engines	p	
	4D5	Foundation engineering	p	Coursework element removed
	4B22	Flexible electronics	p	
IIBL6	4A10	Flow instability	p	
	4B20	Display technology	p	
	4G1	Mathematical biology of the cell	c	
IIBL7*	4G4	Biomimetics	c	
	4I7	Electricity and environment	c	
	4C15	MEMS: design	p+c	
IIBL8	4M15	Sustainable energy	p+c	
IIBL9	4C16	Advanced machine design	p+c	
	4F2	Robust and nonlinear systems and control	p	
	4M21	Software engineering and design	p	Cannot be taken in 2016–17 if 3F6 was taken in 2015–16
IIBL10*	4D7	Concrete structures	p+c	
	4I8	Medical physics	p	
	4I11	Advanced fission and fusion systems	p	
IIBL11	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
IIBL15	4M1	French	c	
	4M2	German	c	
	4M4	Japanese	c	
IIBL17*	4I12	Social and technological network data analytics	c	May clash with other sets
LONG VACATION				
LV1	4M9	Surveying field course	c	Cap: 16

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

Manufacturing Engineering Tripos, Part II_A, 2016–17

The Faculty Board of Engineering gives notice that the modules prescribed for the examinations to be held in 2017 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 coursework only.

Historical Tripos, 2017

The Faculty Board of History gives notice that it has amended its announcement of special and specified subjects for Part II of the Historical Tripos, 2017, as published on 15 July 2015 (*Reporter*, 6394, 2014–15, p. 758), as follows:

By withdrawing the following from the list of Special Subjects (Section B) for Papers 2 and 3:

- From World War to Cold War: America, Britain, Russia, and the division of Europe, 1944–1950 (L)
- Liberalism and constitutional crisis in the United States, c. 1930 – c. 1965 (M)
- Missionary science, ethnic formation, and the religious encounter in Belgian Congo, 1908–1960 (O)

By adding the following to the list of Special Subjects for Papers 2 and 3:

- The Black Death (E)
- Masculinities and political culture in Britain, 1832–1901 (J)
- The transformation of everyday life in Britain, 1945–1990 (L)
- Sources of East Asian modernity, c. 1895–1927 (P)

By withdrawing the following from the list of Specified Subjects (Section D):

- 8 The near east in the age of Justinian and Muhammad, AD 527–700
- 13 Man, nature, and the supernatural, c. 1000 – c. 1600
- 24 The politics of gender in Britain, 1790–1990
- 25 Middle Eastern modernities, from c. 1800 to the present day

By adding the following to the list of Specified Subjects:

- 9 Writing history in the classical world [Paper C3 of Part II of the Classical Tripos]
- 16 Overseas expansion and British identities, 1585–1714
- 21 Borderlands: Life on the Habsburg-Ottoman Frontier, 1521–1881

Candidates for Part II in 2017, who have previously taken Part I of the Historical Tripos and who did not offer in that Part a paper falling mainly in the period before 1750, may meet the requirement to take a pre-1750 paper in Part II by offering one of the Special Subjects A, C, D, E, F, and H or by offering one of the Papers 6, 7, 9, 11, 12, 14, 15, 16, 17, and 21 or a dissertation, provided that its subject falls mainly in the period before 1750.

Candidates for Part II in 2017, who have previously taken Part I of the Historical Tripos and who did not offer in that Part a paper in European History, may meet the requirement to take a European History paper in Part II by offering one of the following papers: 7, 14, 21, 22, and 23.

The Faculty Board is satisfied that no candidate's preparation for examination in 2017 will be adversely affected by these amendments.

Natural Sciences Tripos, Part II (History and Philosophy of Science), 2016–17

The Board of History and Philosophy of Science gives notice that the prescribed sources for the essay component of the Part II course in 2016–17 are now available on the Departmental website at http://www.hps.cam.ac.uk/studying/undergraduate/partii.html#primary_sources.

Natural Sciences Tripos, Part III (Interdisciplinary papers), 2016–17

The Committee of Management for the Natural Sciences Tripos gives notice of the following additional interdisciplinary papers, which shall be included in the examination requirements of one or more subjects.

<i>Title of paper</i>	<i>Mode of assessment</i>	<i>May be offered in</i>
IDP1: Atmospheric chemistry and global change	One and a half hour written examination	Chemistry; Physics
IDP3: Materials, electronics, and renewable energy	One and a half hour written examination	Chemistry; Physics

Notwithstanding the examination requirements set out in Regulation 36 of the Natural Sciences Tripos, the following amendments shall apply to candidates offering interdisciplinary papers:

Part III Chemistry

Candidates may offer one or two of the interdisciplinary papers listed above, without restriction.

Candidates shall have less time to complete their other scheduled examination papers, such that, for each interdisciplinary paper offered:

- thirty minutes shall be taken away from the duration of Paper 1, and candidates for this paper will be required to answer one question fewer;
- forty-five minutes shall be taken away from the duration of Paper 3, and candidates will be required to answer one question fewer.

Part III Physics

Candidates may offer one or two of the interdisciplinary papers listed above in place of the equivalent number of Minor Topics.

Examination in Advanced Computer Science for the M.Phil. Degree, 2016–17

The Degree Committee for the Faculty of Computer Science and Technology gives notice that the modules available for study for the M.Phil. Degree in Advanced Computer Science (*Statutes and Ordinances*, p. 478) in the academical year 2016–17, and the form of the examination of each module, will be as follows:

Number *Title and mode of assessment (coursework (c), written test (t))*
(Imported module) [Borrowed by other courses]

Michaelmas Term 2016

L41	Advanced operating systems (c)
L11	Algebraic path problems, with applications to internet routing (c)
L18	Automated reasoning (c and t)
L108	Category theory and logic (c and t)
R05	Chip multiprocessors (c and t)
R209	Computer security: Principles and foundations (c)
E4F12	Computer vision (t) (Imported module)
R216	Discourse processing (c)
L95	Introduction to natural language syntax and parsing (c)
L101	Machine learning for language processing (c)
L25	Modern compiler design (c)
R204	Multicore semantics and programming (c)
R02	Network architectures (c)
P50	Network measurements (c)
L90	Overview of natural language processing (c)
L120	Principles of data science (c)
E4F13	Probabilistic machine learning (c) (Imported module)
S500	Special topic MT (c)

Lent Term 2017

L28	Advanced functional programming (c)
R01	Advanced topics in computer systems (c)
R222	Advanced topics in natural language processing (c)
L44	Affective computing (c)
R214	Biomedical information processing (c) [open to Sensor CDT]
R210	Computer security: Current applications and research (c)
P51	High performance networking (c)
E4F8	Image processing and image coding (t) (Imported module)
L21	Interactive formal verification (c)
L42	Machine learning and algorithms for data mining (c)
L30	A mathematical theory of distributed games and strategies (c)
L109	Social and technological network data analytics (c) [open to Part IIb in Engineering]
P35	System on chip design and modelling (c)
S501	Special topic LT (c)

Easter Term 2017

No modules offered currently in Easter Term 2017

Further details can be found by following the appropriate links from <http://www.cl.cam.ac.uk/teaching/current/acs.html> and <http://www.cl.cam.ac.uk/teaching/masters/>.

The Degree Committee for the Faculty of Computer Science and Technology gives notice of the form of the evaluation of the Research Skills programme for 2016–17. Students must accumulate a minimum of twelve credits from core and optional units. The mode of delivery and work required for each unit will vary. Students will be required to submit a portfolio of their coursework in the third week of June, and a Research Skills logbook which records the units attended and provides evidence of the work completed for each unit.

The Degree Committee for the Faculty of Computer Science and Technology reserves the right to withdraw any module should fewer than five students enrolled on the M.Phil. Degree in Advanced Computer Science elect to study them. To satisfy timetabling, resourcing, or other constraints, the Faculty Board may impose a cap on the numbers of students from any particular course who may take a particular module. Candidates may not offer more than one Special topic for examination.

J. W. NICHOLLS, *Registrar*

END OF THE OFFICIAL PART OF THE ‘REPORTER’

COLLEGE NOTICES

Vacancies

Fitzwilliam College: Non-Stipendiary Research Fellowship; tenure: three years; any subject area (other than Biochemistry, Engineering, English, History, and Philosophy); closing date: 6 June 2016 at 10 a.m.; further particulars: <http://www.fitz.cam.ac.uk/vacancies/academic>

Jesus College: Six non-stipendiary College Post-doctoral Associate positions available; tenure: three years, fixed-term, with dining rights and other benefits; closing date: 24 June 2016 at 1 p.m.; further particulars: <http://www.jesus.cam.ac.uk/fellows-staff/vacancies>

Pembroke College: Senior Schools Liaison Officer; tenure: from 1 September 2016, or earlier if possible; salary: £25,023–£33,574 (at current rates); closing date: 17 June 2016; further particulars: <http://www.pem.cam.ac.uk/the-college/job-vacancies/>

Undergraduate Admissions Officer; tenure: from 1 September 2016; salary: £25,023–£33,574 (at current rates); closing date: 16 June 2016; further particulars: <http://www.pem.cam.ac.uk/the-college/job-vacancies/>

St Catharine's College: Non-stipendiary Fellowship in Mathematics (must hold an existing research or teaching appointment in the University or one of its associated Research Institutes); 4–6 hours of teaching per week in term; tenure: three years in the first instance; the post carries the rights and benefits of an Official Fellow; closing date: 24 June 2016; further details: <http://www.caths.cam.ac.uk/vacancies>

Non-stipendiary Fellowship in Biochemistry and Molecules in Medical Science (MIMS) (must hold an existing research or teaching appointment in the University or one of its associated Research Institutes); 4–6 hours of teaching per week in term; tenure: three years in the first instance; the post carries the rights and benefits of an Official Fellow; closing date: 24 June 2016; further details: <http://www.caths.cam.ac.uk/vacancies>

Trinity College: Twelve-hour College Lectureship and Fellowship in Law; salary: £38,985–£57,045; closing date: 17 June 2016 at 5 p.m.; further particulars: <http://www.trin.cam.ac.uk/content/college-lectureship-and-fellowship-law>

Other Notices

Hughes Hall

A public lecture by Demetrius A. Floudas, Senior Member, Hughes Hall, and Adj. Professor, Immanuel Kant Baltic Federal University, entitled *Does migration spell the end of Europe?*, will take place at 5.15 p.m. on Monday, 6 June 2016 in the Pavillion Room, Hughes Hall.

Drinks and a discussion will follow the seminar. Further details and registration information are available at: <http://talks.cam.ac.uk/talk/index/66329>.

St John's College

A Symposium to celebrate the life and work of Professor Sir Jack Goody

The Master and Fellows of St John's College will host a Memorial Event for Professor Sir Jack Goody, Fellow in Archaeology and Anthropology, 1961–2015, Emeritus William Wyse Professor of Social Anthropology, on Saturday, 2 July at 3 p.m. in the Palmerston Room, Fisher Building, St John's College. Guests are invited to a reception in the Master's Lodge afterwards and those wishing to attend are asked to inform the Master's Lodge via <http://goo.gl/forms/iEqNTxmrq9>, or by emailing s.m.ward@joh.cam.ac.uk.

For further details, and to view the full programme, see: <http://www.joh.cam.ac.uk/memorial-event-professor-sir-jack-goody-be-held-st-johns-college>.

SOCIETIES

Cambridge Society for the Application of Research

Professor Monica Grady CBE, Professor of Planetary and Space Science, The Open University, will give a lecture entitled *Landing on a comet*, at 7.30 p.m. on Monday, 6 June 2016, in the Wolfson Lecture Theatre, Churchill College, Storey's Way.

Further details are available at <http://www.csar.org.uk>.

EXTERNAL NOTICES

University of Oxford

Exeter College: Alumni Relations and Events Officer; salary: £24,298–£28,982; closing date: 6 June 2016 at 12 noon; further particulars: <http://www.exeter.ox.ac.uk/alumni-relations-events-officer.html>

Stipendiary Lecturer in English Literature 1550–1830 (fixed-term); stipend: £8,590–£9,661; closing date: 9 June 2016 at 12 noon; further particulars: <http://www.exeter.ox.ac.uk/stipendiary-lecturer-english-literature-1550-1830-fixed-term.html>

Oriel College: Stipendiary Lecturer in Computer Science; closing date: 31 May 2016; further particulars: <http://www.oriel.ox.ac.uk/content/academic-vacancies>

St Hilda's College: Stipendiary Lecturer in German; tenure: three years from 1 October 2016; stipend: £12,885–£13,664; closing date: 16 June 2016 at 12 noon; further particulars: <http://www.st-hildas.ox.ac.uk/6-hour-stipendiary-lectureship-german>