

Lectures proposed by the Computer Science Syndicate

For particulars of the University Composition Fee and of the fees payable for attendance at separate courses of lectures see p. 2. Graduates of the University who are not reading for any University examination may attend without payment any lecture proposed by the Computer Science Syndicate.

Attention is drawn to the course for the M.Phil. in ‘Computer Speech and Language Processing’ given on p. 138. Attention is also drawn to the courses for the Mathematical Tripos, Part IA (Computer Science Option) given on p. 146.

COMPUTER SCIENCE TRIPOS

Regulation 10(d) (i) (the 50% Option)

Lectures will be delivered in the Cockcroft Lecture Theatre, unless otherwise stated

Candidates taking Part IA of the Computer Science Tripos under Regulation 10(d)(i) (the 50% Option) are also required to offer the papers set for the subject Mathematics in Part IA of the Natural Sciences Tripos¹ and the paper, and practical examination if any, set for one of the following subjects in Part IA of the Natural Sciences Tripos: Biology of Cells, Geology, Materials and Mineral Sciences, and Physics².

MICHAELMAS 2000

LENT 2001

EASTER 2001

PART IA

<p>DR F. H. KING AND MISS C. H. NORTHEAST Registration. Th. 11 (One lecture) <i>Heycock Room</i></p> <p>PROF. I. M. LESLIE Digital Electronics. Tu. Th. S. 11 (Eleven lectures, beginning 7 Oct.) <i>Arts School, Room A</i></p> <p>DR R. C. JENNINGS Professional Practice and Ethics. Tu. Th. 11 (Eight lectures, beginning 2 Nov.) <i>Hopkinson Lecture Room</i></p> <p>MR N. BAILEY, PROF. SIR MAURICE WILKES, PROF. R. M. NEEDHAM AND PROF. A. J. R. G. MILNER Computer Perspectives. S. 11 (Four lectures, beginning 4 Nov.) <i>Hopkinson Lecture Room</i></p> <p>PROF. I. M. LESLIE Introduction to Computer Science. Th. 12 (One lecture)</p> <p>DR L. C. PAULSON Foundations of Computer Science. Tu. Th. S. 12 (Fifteen lectures, beginning 7 Oct.)</p>	<p>DR F. H. KING Probability. Tu. Th. S. 11 (Twelve lectures) <i>Hopkinson Lecture Room</i></p> <p>DR R. J. ANDERSON Software Engineering I. Tu. Th. S. 11 (Six lectures, beginning 15 Feb.) <i>Arts School, Room A</i></p> <p>DR L. C. PAULSON Software Engineering II. Tu. Th. S. 11 (Six lectures, beginning 1 Mar.) <i>Arts School, Room A</i></p>	<p>DR A. M. PITTS Regular Languages and Finite Automata. Tu. Th. S. 11 (Six lectures) <i>Hopkinson Lecture Room</i></p> <p>DR D. J. GREAVES Structured Hardware Design. Tu. Th. S. 11 (Six lectures, beginning 10 May) <i>Hopkinson Lecture Room</i></p> <p>DR S. M. HAND Operating Systems. Tu. Th. S. 12</p>
<p>DR P. ROBINSON Discrete Mathematics. Tu. Th. S. 12 (Eight lectures, beginning 11 Nov.)</p>	<p>DR P. ROBINSON The same continued. Tu. Th. S. 12 (Eight lectures)</p> <p>DR A. C. NORMAN Programming in Java. Tu. Th. S. 12 (Sixteen lectures, beginning 6 Feb.)</p>	<p>DR F. H. KING AND DR A. C. NORMAN Programming Practical Class. Th. 1–4 <i>Cockcroft Building, Floor 4</i></p>
<p>DR F. H. KING, MISS C. H. NORTHEAST AND MR R. J. STIBBS Practical ML under Windows. Th. 2–4 or 4–6 (Two Thursday classes) <i>Hopkinson Lecture Room</i></p>	<p>DR F. H. KING Programming Practical Class. Th. 2–4 (One class, 18 Jan. or 25 Jan.) <i>Cockcroft Building, Floor 4</i></p>	
<p>DR L. C. PAULSON AND DR F. H. KING Programming Practical Class. Th. 2–4 (Three fortnightly classes, beginning 19 Oct. or 26 Oct.) <i>Cockcroft Building, Floor 4</i></p>	<p>DR F. H. KING, MISS C. H. NORTHEAST AND MR R. J. STIBBS Unix Registration. Th. or F. 1.30–4 (One class, 1 Feb. or 2 Feb. or 8 Feb.) <i>Hopkinson Lecture Room</i></p>	
<p>DR A. C. NORMAN AND OTHERS How to Study Computer Science. Th. 5 (One lecture, 19 Oct.) <i>Arts School, Room A</i></p>	<p>DR F. H. KING AND DR A. C. NORMAN Programming Practical Class. Th. 2–4 (Two fortnightly classes, beginning 15 Feb. or 22 Feb.) <i>Cockcroft Building, Floor 4</i></p>	
<p>DR F. H. KING Tick-Four Briefing. Th. 5 (One lecture, 26 Oct.) <i>Hopkinson Lecture Room</i></p>		
<p>A. N. OTHER Help Sessions. Th. 4 (Four classes, beginning 2 Nov.) <i>Hopkinson Lecture Room</i></p>		
<p>DR N. A. DODGSON AND DR I. A. PRATT Hardware Briefing and Introductory Practical Class³. Th. 2–5 or F. 10–1 (One class, 19 Oct. or 20 Oct. or 26 Oct. or 27 Oct.) <i>Cockcroft Building, Floor 4</i></p>		
<p>DR N. A. DODGSON AND DR I. A. PRATT Hardware Practical Class³. Th. 2–4 or F. 10–12 (Two fortnightly classes, beginning 2 Nov. or 3 Nov. or 9 Nov. or 10 Nov.) <i>Cockcroft Building, Floor 4</i></p>	<p>DR N. A. DODGSON AND DR I. A. PRATT The same continued³. Th. 2–4 or F. 10–12 (Four fortnightly classes, beginning 18 Jan. or 19 Jan. or 25 Jan. or 26 Jan.) <i>Cockcroft Building, Floor 4</i></p>	

¹ The above timetable means that it is not possible to attend the Michaelmas Term Computing course which is associated with subject Mathematics in the Natural Sciences Tripos. Alternative arrangements will be explained in the first lecture on Practical ML. under Windows at 2 p.m. on 5 October.

² It is particularly important for those reading Physics to register for practical classes at 11.30 a.m. on Wednesday, 4 October at the *Cavendish Laboratory*.

³ Those reading Physics normally attend the Friday morning Hardware Practical Classes. Those reading other bench subjects should attend the Thursday afternoon Hardware Practical Classes.

The above timetable also means that it is essential *not* to arrange Supervisions, Natural Sciences Tripos practical classes, or any other activities, on Thursday afternoons.

Computer Science Syndicate (continued)

COMPUTER SCIENCE TRIPOS, PART IA (continued) AND PART IB

Regulation 10(d) (i) (the 25% Option)

Lectures will be delivered in the Cockcroft Lecture Theatre, unless otherwise stated

Candidates taking Part IA of the Computer Science Tripos under Regulation 10(d)(ii) (the 25% Option) are also required to offer the papers set for the subject Mathematics in Part IA of the Natural Sciences Tripos and the papers, and practical examinations if any, set for two of the following subjects in Part IA of the Natural Sciences Tripos: Biology of Cells, Evolution and Behaviour¹, Chemistry, Geology, Materials and Mineral Sciences, and Physics².

MICHAELMAS 2000

LENT 2001

EASTER 2001

<p>DR F. H. KING AND MISS C. H. NORTHEAST Registration¹. Th. 11 (One lecture) <i>Heycock Room</i></p> <p>PROF. I. M. LESLIE Introduction to Computer Science. Th. 12 (One lecture)</p> <p>DR L. C. PAULSON Foundations of Computer Science. Tu. Th. S. 12 (Fifteen lectures, beginning 7 Oct.)</p> <p>DR P. ROBINSON Discrete Mathematics. Tu. Th. S. 12 (Eight lectures, beginning 11 Nov.)</p> <p>DR F. H. KING, MISS C. H. NORTHEAST AND MR R. J. STIBBS Practical ML under Windows. Th. 2–4 or 4–6 (Two Thursday classes) <i>Hopkinson Lecture Room</i></p> <p>DR L. C. PAULSON AND DR F. H. KING Programming Practical Class. Th. 2–4 (Three fortnightly classes, beginning 19 Oct. or 26 Oct.) <i>Cockcroft Building, Floor 4</i></p> <p>DR A. C. NORMAN AND OTHERS How to Study Computer Science. Th. 5 (One lecture, 19 Oct.) <i>Arts School, Room A</i></p> <p>DR F. H. KING Tick-Four Briefing. Th. 5 (One lecture, 26 Oct.) <i>Hopkinson Lecture Room</i></p> <p>A. N. OTHER Help Sessions. Th. 4 (Four classes, beginning 2 Nov.) <i>Hopkinson Lecture Room</i></p>	<p>DR P. ROBINSON The same continued. Tu. Th. S. 12 (Eight lectures)</p> <p>DR A. C. NORMAN Programming in Java. Tu. Th. S. 12 (Sixteen lectures, beginning 6 Feb.)</p> <p>DR F. H. KING Programming Practical Class. Th. 2–4 (One class, 18 Jan. or 25 Jan.) <i>Cockcroft Building, Floor 4</i></p> <p>DR F. H. KING, MISS C. H. NORTHEAST AND MR R. J. STIBBS Unix Registration. Th. or F. 1.30–4 (One class, 1 Feb. or 2 Feb. or 8 Feb.) <i>Hopkinson Lecture Room</i></p> <p>DR F. H. KING AND DR A. C. NORMAN Programming Practical Class. Th. 2–4 (Two fortnightly classes, beginning 15 Feb. or 22 Feb.) <i>Cockcroft Building, Floor 4</i></p>	<p>DR S. M. HAND Operating Systems. Tu. Th. S. 12</p> <p>DR F. H. KING AND DR A. C. NORMAN Programming Practical Class. Th. 1–4 (Two fortnightly classes, beginning 26 Apr. or 3 May) <i>Cockcroft Building, Floor 4</i></p>
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PART IB

Lectures will be delivered in the Arts School Room A, unless otherwise stated

<p>DR J. M. BACON Concurrent Systems. Tu. Th. S. 10 (Twelve lectures) <i>Rayleigh Lecture Theatre</i></p> <p>DR S. W. MOORE ECAD. M. W. F. 10 (Eight lectures) <i>Heycock Room</i></p> <p>DR S. W. MOORE Computer Design. M. W. F. 10 (Sixteen lectures, beginning 25 Oct.) <i>Heycock Room</i></p> <p>MR T. L. HARRIS Further Java. Tu. Th. S. 10 (Twelve lectures, beginning 2 Nov.) <i>Rayleigh Lecture Theatre</i></p> <p>DR I. A. PRATT Unix Tools. M. W. F. 11 (Four lectures) <i>Heycock Room</i></p> <p>PROF. I. M. LESLIE Digital Electronics (for those who have not previously attended this course). Tu. Th. S. 11 (Eleven lectures, beginning 7 Oct.)</p> <p>DR N. A. DODGSON Continuous Mathematics. M. W. F. 11 (Four lectures, beginning 16 Oct.) <i>Heycock Room</i></p> <p>DR M. RICHARDS Data Structures and Algorithms. M. W. F. 11 (Sixteen lectures, beginning 25 Oct.) <i>Heycock Room</i></p>	<p>DR M. RICHARDS Comparative Programming Languages. Tu. Th. S. 10 (Twelve lectures)</p> <p>DR A. MYCROFT Compiler Construction. M. W. F. 10 (Eight lectures)</p> <p>DR N. A. DODGSON Computer Graphics and Image Processing. M. W. F. 10 (Sixteen lectures, beginning 7 Feb.) <i>Heycock Room</i></p> <p>PROF. I. M. LESLIE Digital Communication I. Tu. Th. S. 10 (Twelve lectures, beginning 15 Feb.)</p> <p>DR S. M. HAND Operating System Functions. Tu. Th. 11 (Eight lectures)</p> <p>DR J. K. M. MOODY Computation Theory. M. W. F. 11 (Twelve lectures)</p> <p>DR W. F. CLOCKSIN Prolog for Artificial Intelligence. M. W. F. 11 (Twelve lectures, beginning 16 Feb.) <i>Heycock Room</i></p>	<p>DR J. K. M. MOODY Databases. Tu. Th. S. 10</p> <p>DR A. MYCROFT The same continued. M. W. F. 10</p> <p>DR A. C. NORMAN Foundations of Functional Programming. Tu. Th. S. 11 <i>Heycock Room</i></p> <p>DR A. DAWAR Complexity Theory. M. W. F. 11</p> <p>PROF. M. J. C. GORDON Project Briefing I. W. 12 (One lecture, 23 May) <i>Rayleigh Lecture Theatre</i></p>
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¹ It is not possible for those reading Evolution and Behaviour to attend the Registration session or to attend the Michaelmas Term Computing course which is associated with subject Mathematics in the Natural Sciences Tripos. Alternative arrangements will be explained in the first lecture on Practical ML under Windows at 2 p.m. on 5 October.

² It is particularly important for those reading Physics to register for practical classes at 11.30 a.m. on Wednesday, 4 October at the *Cavendish Laboratory*.

The above timetable means that it is essential *not* to arrange Supervisions, Natural Sciences Tripos practical classes, or any other activities, on Thursday afternoons.

Computer Science Syndicate (continued)

COMPUTER SCIENCE TRIPOS, PART IB (continued) AND PART II

MICHAELMAS 2000

LENT 2001

EASTER 2001

DR M. R. O'DONOHUE
Numerical Analysis I. Tu. Th. 11 (Eight lectures, beginning 2 Nov.)

DR L. C. PAULSON
Logic and Proof. M. W. F. 12 (Twelve lectures) *Heycock Room*

DR A. M. PITTS
Semantics of Programming Languages. M. W. F. 12 (Twelve lectures, beginning 3 Nov.) *Heycock Room*

DR R. J. ANDERSON
Group Project Briefing. Tu. Th. 12 (Two lectures, beginning 21 Nov.) *Heycock Room*

DR S. W. MOORE AND OTHERS
ECAD and Architecture Practical Classes.
Tu. or F. 2–4 (Seven classes, beginning 13 Oct. or 17 Oct.) *Cockcroft Building, Floor 4*

DR N. A. DODGSON AND DR I. A. PRATT
Hardware Briefing and Introductory Practical Class (for those who have not previously attended this course). Th. 2–5 (One class, 19 Oct. or 26 Oct.) *Cockcroft Building, Floor 4*

DR N. A. DODGSON AND DR I. A. PRATT
Hardware Practical Class (for those who have not previously attended this course). Th. 2–4 (Two fortnightly classes, beginning 2 Nov. or 9 Nov.) *Cockcroft Building, Floor 4*

DR R. J. ANDERSON
Introduction to Security. Tu. Th. S. 12 (Six lectures, beginning 1 Mar.) *Rayleigh Lecture Theatre*

DR N. A. DODGSON AND DR I. A. PRATT
Hardware Practical Class (for those who have not previously attended this course). Th. 2–4 (Four fortnightly classes, beginning 18 Jan. or 25 Jan.) *Cockcroft Building, Floor 4*

DR R. J. ANDERSON
Group Project Inaugural Meeting. Th. 2 (One class) *Heycock Room*

DR R. J. ANDERSON AND OTHERS
Group Project Syndicate Meetings. W. or Th. or F. 2 or 3 or 4 or 5 (Three fortnightly meetings of one hour, beginning 31 Jan. or 1 Feb. or 2 Feb.) *Arup Building, Room TP4 or Room Au310*

DR S. W. MOORE
How (not) to give a Presentation. Tu. 2 (One lecture, 6 Feb.) *Babbage Lecture Theatre*

DR R. J. ANDERSON AND OTHERS
Group Project Demonstrations. W. 2–4 (One session, 7 Mar.) *Cockcroft Building, Floor 4*

DR R. J. ANDERSON AND OTHERS
Group Project Presentations. W. 4.15 (One session, 7 Mar.) *Babbage Lecture Theatre*

PART II

Lectures will be delivered in *the Rayleigh Lecture Theatre*, unless otherwise stated

DR A. M. PITTS
Types. M. W. F. 10 (Eight lectures)

DR N. A. DODGSON AND DR A. F. BLACKWELL
Advanced Graphics and HCI. Tu. Th. 10 (Fifteen lectures, beginning 10 Oct.) *Heycock Room*

DR W. F. CLOCKSIN
Artificial Intelligence. M. W. F. 10 (Twelve lectures and four examples classes, beginning 25 Oct.) *Hopkinson Lecture Room*

MR T. L. HARRIS
Computer Systems Modelling. Tu. Th. 11 (Eight lectures)

DR J. G. DAUGMAN
Information Theory and Coding. M. W. F. 11 (Twelve lectures)

PROF. M. J. C. GORDON
Specification and Verification I. M. W. F. 11 (Twelve lectures, beginning 3 Nov.) *Hopkinson Lecture Room*

PROF. M. J. C. GORDON
Project Briefing II. Th. 12 (One lecture)

DR P. ROBINSON
VLSI Design. M. W. F. 12 (Twelve lectures) *Hopkinson Lecture Room*

DR S. M. HAND AND DR I. A. PRATT
Digital Communication II. M. W. F. 12 (Twelve lectures, beginning 3 Nov.)

PROF. G. WINSKEL
Topics in Concurrency. M. W. F. 10 (Twelve lectures)

DR I. A. PRATT
Comparative Architectures. M. W. F. 10 (Eight lectures, beginning 26 Feb.)

DR A. MYCROFT
Optimising Compilers. Tu. Th. 11

DR R. J. ANDERSON
Security. M. W. F. 11 (Twelve lectures)

PROF. A. HOPPER AND OTHERS
Additional Topics. M. W. F. 11 (Twelve lectures, beginning 16 Feb.) *Hopkinson Lecture Room*

DR J. G. DAUGMAN
Neural Computing. Tu. Th. 12 (Fifteen lectures) *Hopkinson Lecture Room*

DR E. J. BRISCOE
Natural Language Processing. M. W. 12 (Eight lectures)

DR M. R. O'DONOHUE
Numerical Analysis II. M. W. F. 12 (Twelve lectures, beginning 16 Feb.)

DR R. J. ANDERSON
E-Commerce. Tu. Th. 10 (Six lectures, beginning 1 May)

DR J. G. DAUGMAN
Computer Vision. Tu. Th. 11 *Arts School, Room A*

PROF. M. J. C. GORDON
Specification and Verification II.
M. W. F. 11 *Hopkinson Lecture Room*

DR J. M. BACON
Distributed Systems. Tu. Th. 12

MR J. A. LANG
Business Studies. M. W. F. 12 *Heycock Room*

STAFF
Progress Report Presentations. Th. or F. or M. 2 (One session, 8 Feb. or 9 Feb. or 12 Feb.) *Arup Building, Room TP4 or Discussion Room*

Computer Science Syndicate (continued)

COMPUTER SCIENCE TRIPOS, PART II (GENERAL) AND DIPLOMA IN COMPUTER SCIENCE

Lectures will be delivered in *the Arts School Room A* unless otherwise stated

MICHAELMAS 2000

LENT 2001

EASTER 2001

<p>DR. F. H. KING AND MR R. J. STIBBS Java and the Thor Teaching Service (Diploma Students only). M. Tu. W. 9–4 (Three days, beginning Monday 2 Oct. at 10) <i>Hopkinson Lecture Room</i></p> <p>MR R. J. STIBBS Elementary Use of the Thor Teaching Service. S. 9–11 (Three lectures) <i>Hopkinson Lecture Room</i></p> <p>PROF. M. J. C. GORDON Project Briefing II (Diploma Students only). Th. 9 (One lecture, 16 Nov.) <i>Hopkinson Lecture Room</i></p> <p>PROF. I. M. LESLIE Introduction to Computer Science. Th. 10 (One lecture) <i>Hopkinson Lecture Room</i></p> <p>DR F. H. KING Foundations of Programming (Diploma Students only). M. Tu. W. Th. F. 10 (Thirteen lectures, beginning 6 Oct.); Tu. Th. S. 10 (Three lectures) <i>Hopkinson Lecture Room</i></p> <p>DR S. W. MOORE Computer Design. M. W. F. 10 (Sixteen lectures, beginning 25 Oct.) <i>Heycock Room</i></p> <p>MR T. L. HARRIS Further Java. Tu. Th. S. 10 (Twelve lectures, beginning 2 Nov.) <i>Rayleigh Lecture Theatre</i></p> <p>PROF. M. J. C. GORDON Project Briefing I (Diploma Students only). Th. 11 (One lecture) <i>Hopkinson Lecture Room</i></p> <p>DR M. RICHARDS Introduction to Algorithms. M. W. F. 11 (Four lectures) <i>Hopkinson Lecture Room</i></p> <p>PROF. I. M. LESLIE Digital Electronics. Tu. Th. S. 11 (Eleven lectures, beginning 7 Oct.)</p> <p>DR N. A. DODGSON Continuous Mathematics. M. W. F. 11 (Four lectures, beginning 16 Oct.) <i>Heycock Room</i></p> <p>DR M. RICHARDS Data Structures and Algorithms. M. W. F. 11 (Sixteen lectures, beginning 25 Oct.) <i>Heycock Room</i></p> <p>DR M. R. O'DONOHUE Numerical Analysis I. Tu. Th. 11 (Eight lectures, beginning 2 Nov.)</p> <p>DR J. M. BACON Operating System Foundations. M. W. F. 12 (Sixteen lectures) <i>Rayleigh Lecture Theatre</i></p> <p>DR J. K. M. MOODY Mathematics for Computation Theory. Tu. Th. 12 (Twelve lectures, beginning 19 Oct.) <i>Hopkinson Lecture Room</i></p> <p>MR R. J. STIBBS AND OTHERS Thor and Java Practical Class. M. 2–4 <i>Cockcroft Building, Floor 4</i></p> <p>DR A. C. NORMAN AND OTHERS How to Study Computer Science. Th. 5 (One lecture, 19 Oct.)</p> <p>DR J. K. M. MOODY Mathematics for Computation Theory. Th. 2 (Four classes, 26 Oct., 2 Nov., 16 Nov. and 23 Nov.) <i>Arup Building, Room TP4</i></p>	<p>DR M. RICHARDS Comparative Programming Languages. Tu. Th. S. 10 (Twelve lectures)</p> <p>DR A. MYCROFT Compiler Construction. M. W. F. 10 (Eight lectures)</p> <p>DR N. A. DODGSON Computer Graphics and Image Processing. M. W. F. 10 (Sixteen lectures, beginning 7 Feb.) <i>Heycock Room</i></p> <p>PROF. I. M. LESLIE Digital Communication. Tu. Th. S. 10 (Twelve lectures, beginning 15 Feb.)</p> <p>DR S. M. HAND Operating System Functions. Tu. Th. 11 (Eight lectures)</p> <p>DR J. K. M. MOODY Computation Theory. M. W. F. 11 (Twelve lectures)</p> <p>DR R. J. ANDERSON Software Engineering I. Tu. Th. S. 11 (Six lectures, beginning 15 Feb.)</p> <p>DR W. F. CLOCKSIN Prolog for Artificial Intelligence. M. W. F. 11 (Twelve lectures, beginning 16 Feb.) <i>Heycock Room</i></p> <p>DR L. C. PAULSON Software Engineering II. Tu. Th. S. 11 (Six lectures, beginning 1 Mar.)</p> <p>DR A. DAWAR Introduction to Functional Programming. Tu. Th. F. 12 (Twelve lectures) <i>Rayleigh Lecture Theatre</i></p> <p>DR E. J. BRISCOE Natural Language Processing. M. W. 12 (Eight lectures) <i>Rayleigh Lecture Theatre</i></p> <p>DR M. R. O'DONOHUE Numerical Analysis II. M. W. F. 12 (Twelve lectures, beginning 16 Feb.) <i>Rayleigh Lecture Theatre</i></p> <p>DR R. J. ANDERSON Introduction to Security. Tu. Th. S. 12 (Six lectures, beginning 1 Mar.) <i>Rayleigh Lecture Theatre</i></p>	<p>DR J. K. M. MOODY Databases. Tu. Th. S. 10</p> <p>DR A. MYCROFT The same continued. M. W. F. 10</p> <p>DR J. G. DAUGMAN Computer Vision. Tu. Th. 11</p> <p>DR A. DAWAR Complexity Theory. M. W. F. 11</p> <p>DR J. M. BACON Distributed Systems. Tu. Th. 12 <i>Rayleigh Lecture Theatre</i></p> <p>MR J. A. LANG Business Studies. M. W. F. 12 <i>Heycock Room</i></p>
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