ECM3404: Logic and Computation (Dr Antony Galton)

INFORMATION SHEET 2008–09

APPROXIMATE TIMETABLE OF EVENTS			
14(27)	Feb 2	Lecture 1: Logical Preliminaries I	
	Feb 6	Lecture 2: Logical Preliminaries II	
15(28)	Feb 9	Lecture 3: Logical Preliminaries III	
	Feb 10	Tutorial 1: Natural Deduction	
	Feb 13	Lecture 4: Properties of valid inference	
16(29)	Feb 16	Lecture 5: Properties of proof systems	
	Feb 20	Lecture 6: First-order theories	
17(30)	Feb 23	Lecture 7: First-order arithmetic	
	Feb 24	Tutorial 2: Peano Arithmetic	CA set
	Feb 27	Lecture 8: What is an effective procedure?	
18(31)	Mar 2	Lecture 9: Turing machines I	
	Mar 6	Lecture 10: Turing machines II	
19(32)	Mar 9	Lecture 11: The Halting Problem	
	Mar 13	Lecture 12: The Decision Problem for First-Order Logic	
20 (33)	Mar 16	Lecture 13: NP decision problems and problem conversion	
	Mar 17	Tutorial 3: Turing Machines	
	Mar 19		CA due
	Mar 20	Lecture 14: Cook's theorem	
EASTER VACATION			
21(39)	Apr 27	Lecture 15: NP-completeness	CA returned
	May 1	Lecture 16: What did Gödel prove?	
22(40)	May 4	No Lecture	
	May 5	Tutorial 4: NP-completeness and problem reduction	
	May 8	Lecture 17: Gödel's proof	
23(41)	May 11	Lecture 18: Philosophical implications of Gödel's theorem	
	May 15	Overflow/Revision	
24(42)	May 19	Tutorial 5: Gödel numbering	

Lectures. Semester 2, Monday at 9 a.m. in Harrison 106 and Friday at 9 a.m. in Harrison 209.
Tutorials. On Tuesdays at 4 p.m. in Harrison 254 (weeks 28, 30, 33, 40, and 42 only).
Continuous Assessment. One CA, worth 20%.
Examinations. Two-hour examination in May/June.

For further information, go to `www.secam.ex.ac.uk/teaching/ug/studyRes/COM3412`.