SEMESTER I		
TOPICS	HOURS	SHORT TEST
INTRODUCTION	2	
Approximations and Errors	2	+
Points in Space	2	
Financial Mathematics	2	
TEST	1	
Sampling and Types of Data	1	
Measures of Central Tendency	2	+
Box and Whisker, Cumulative Frequency	2	
Measures of Disperssion	2	
TEST	1	
Correlation and Regression Line	1	
Regression Line and Spearman's correlation	2	+
Bivariate Stats Review	2	
LONG TEST	1	
Operations on Vectors	2	+
Dot Product	2	
Cross Product	2	
Applications	6	
TEST	1	
Lines	1	
Voronoi Diagrams	4	+
Operations on Complex Numbers	2	
Polar Form and Exponential Form	2	
Applications	2	
TEST	1	
Probability - introduction	1	
Conditional Probability	2	+
Independent Events	1	
Bayes	1	
Discrete Probability Distribution	2	+
Games	2	
Properties of Y=aX+b	1	
Binomial Distribution	4	
Poisson Distribution	3	
Review	2	
LONG TEST	2	
Matrices - introduction	2	+
Inverse of a Matrix	2	
Eigenvalues and Eigenvectors	2	
Review of Matrices	2	
Markov Chains	4	
Transformations	4	
TEST	1	
Intro to Graphs	1	
Adjacency Matrices	2	+
Transition Matrices	2	-
Algorithms on Graphs	6	
LONG TEST	2	
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SEMESTER II		
TOPICS	HOURS	SHORT TEST
Limits	2	
Derivative from first principles	2	+
Rules for differentiation	4	
Derivative - practice	2	
TEST	1	
Tangent and Normal Lines	3	
Properties of Curves	4	+
Applications	8	
LONG TEST	2	
Linear Function	1	
Quadratic Function	1	
Cubic Function	2	
Exponential Function	2	
Logarithmic Function	2	
Trigonometric Function	2	+
Direct and Inverse Variations	2	
Power Functions	2	
Modelling Practice	4	
TEST	1	
Arithmetic Sequences	3	+
Geometric Sequences	3	
Sequences Practice	2	
LONG TEST	2	
Area under Curve	2	
Antidifferentiation	2	
Rules for Integration	4	
Integration Practice	2	+
Definite Integral	2	
Areas	4	
Volumes	4	
TEST	1	
Kinematics	8	
Review	8	
LONG TEST	2	
Total:	96	