

COURSE OUTLINE HL**SUBJECT CALENDAR (2008) – JANUARY INTAKE 2007**

Teacher: Masukor Sari

Subject: Mathematics HL – IB Diploma

Week/Date	Topic	Tasks
1 (31/12 – 6/1)	Introduction to differential calculus. 7.1 Limits and Differential calculus.	
2 (7/1 – 13/1)	Tangents and Normals and other applications, Derivative of transcendental functions.	
3 (14/1 – 20/1)	7.2 Derivatives of sums and Multiples The product rule, The chain rule, Quotient rule.	Task Sheet1 (Thu Jan 17)
4 (21/1 – 27/1)	7.3 Local maxima and local minima Second derivatives, Curve sketching	
5 (28/1 – 3/2)	Derivatives of inverse trigonometric functions Tangents and Normals (revisited), Applications of derivatives.	Evaluation 1 (modelling)
6 (4/2 – 10/2)	Kinematics and, Optmisations	
7 (11/2 – 17/2)	7.4 Indefinite Integrations and Anti-differentiations 7.5 Definite integrals Area under graphs, Volume of revolutions.	Test 1 Thursday, Feb-14
8 (18/2 – 24/2)	7.6 Kinematics (revisited with integrations) 7.7 Asymptotic functions	
9 (25/2 – 2/3)	7.8 Implicit differentiations, 7.9 Further Integrations	Task Sheet 2
10 (3/3 – 7/3)	7.10 First Order Differential Equations	
(8/3 – 16/3)	Mid semester break	
11 (17/3 – 23/3)	6.9 Discrete Random Variables Expected values	Evaluation 2 (investigation 2)
12 (24/3 – 30/3)	6.10 Binomial distributions	
13 (31/3 – 6/4)	Poisson 6.11 Normal Distributions	
14 (7/4 – 13/4)	Standardisation of normal distributions	Test 2 Thursday 10.
15 (14/4 – 20/4)	10.1 Infinite Sequence of real numbers	
16 (21/4 – 27/4)	10.2 Convergence of infinite Series 10.3 Absolute and conditional convergence	
17 (28/4 – 4/5)	10.4 Power series	
18 (5/5 – 11/5)	10.5 Taylor polynomials and series	
19 (12/5 – 18/5)	10.6 First oder of Differential equations.	Mid-Year Examination Thursday May-15
20 (19/5 – 23/5)		
(24/5 – 8/6)	Mid-Year Break	

Week/Date	Topic	Tasks
21 (9/6 – 15/6)	8.1 Expectation algebra.	Evaluation 3 (modeling 2)
22 (16/6 – 22/6)	8.2 Cumulative distribution functions.	
23 (23/6 – 29/6)	8.3 Distribution of the sample mean.	
24 (30/7 – 6/7)	8.4 Finding confidence intervals for the mean of a population.	
25 (7/7 – 13/7)	8.5 Significance testing for a mean. Significance testing for a proportion.	Task Sheet 3
26 (14/7 – 20/7)	8.6 The chi-squared distribution: degrees of freedom, v .	
27 (21/7 – 27/7)	Revision	
28 (28/7 – 3/8)	Revision	
29 (4/8 – 10/8)	Revision	Task Sheet 4
30 (11/8 – 15/8)	Revision	
(16/8 – 24/8)	Mid term Break	
31 (25/8 – 31/8)	Revision	
32 (1/9 – 7/9)	Revision	Task sheet 5
33 (8/9 – 14/9)	Revision	
34 (15/9 – 21/9)	Revision	Task Sheet 6
35 (22/9 – 28/9)	Revision	
36 (29/9 – 5/10)	Revision	Task Sheet 7
37 (6/10 – 12/10)	Revision	
38 (13/10- 19/10)	Revision	Good Luck for the Examination
39 (20/10 – 26/10)		
40 (27/10 – 2/11)		
41 (3/11 – 9/11)	IB Examination Paper 1 HL, SL (Nov 7)	IB Examination
42 (10/11 – 14/11)	IB Examination Paper 2 HL, SL (Nov 10) IB Examination Paper 3 HL (Nov 13)	IB Examination
(15/11- 31/12)	Year End Break	