

INSTITUTE OF MATHEMATICAL SCIENCES**B.Sc. Courses Offered Sem 1 2017/2018**

Number	Course Code	Credit	Course Title
1	SIM1001 ; SIX1013 ; SJEM1110	4	Basic Mathematics ; Fundamental of Advanced Mathematics ; Basic Mathematics
2	SIM1002 ; SJEM1111	4	Calculus I
3	SIM1003 ; SJEM1211	4	Calculus II
4	SIN1001a	2	Introduction to Computing
5	SIN1001b	2	Introduction to Computing
6	SIN1002	2	Introduction to Worksheet
7	SIN1003	4	Mathematical Methods I
8	SIT1001 ; SJEM1250	4	Probability and Statistics I
9	SIX1004 ; SSEX1102	3	Statistics
10	SIM2001 ; SJEM2210	4	Advanced Calculus
11	SIM2002 ; SJEM2211	4	Linear Algebra
12	SIM2003 ; SJEM2212	4	Introduction to Combinatorics
13	SIM2004 ; SJEM2213	4	Algebra I
14	SIM2005 ; SJEM2214	4	Introduction to Analysis
15	SIN2001	4	Mathematical Methods II
16	SJEM2230	4	Mathematical Methods II
17	SIN2002 ; SJEM2231	4	Structured Programming
18	SIN2003 ; SJEM2233	4	Basic Operational Research
19	SIN2004 ; SJEM2234	4	Partial Differential Equations
20	SIN2005 ; SJEM2430	4	System of Ordinary Differential Equations
21	SIT2001 ; SJEM2250	4	Probability and Statistics II
22	SIT2002 ; SJEM2251	4	Further Mathematical Statistics

23	SIT2003 ; SJEM2252	4	Stochastic Processes
24	SIT2004 ; SJEM2254	4	Regression Analysis
25	SIM2007 ; SJEM2280	2	Appreciation of Mathematics
26	SIN2007 ; SJEM2431	4	Management Mathematics
27	SIN2009 ; SJEM2433	4	Computer Graphics
28	SIQ2001 ; SJER2212	3	Microeconomics
29	SIQ2003 ; SJER2211	4	Financial Mathematics and Derivatives ; Interest Theory and Derivatives
30	SIQ3001 ; SJER2215	4 ; 3	Actuarial Mathematics I ; Introductory Life Contingencies
31	SIM3003 ; SJEM3413	4	Number Theory
32	SIM3006 ; SJEM3416	4	Algebra II
33	SIM3009 ; SJEM3419	4	Differential Geometry
34	SIM3011 ; SJEM3421	4	Complex Analysis
35	SIN3002 ; SJEM3433	4	Cryptography
36	SJEM3436	4	Production and Inventory System
37	SJEM3438	4	Mathematical Programming
38	SIT3005 ; SJEM3453	4	Time Series and Forecasting Methods
39	SIT3007 ; SJEM3455	4	Data Analysis II
40	SIT3009 ; SJEM3457	4	Statistical Process Control
41	SJER3216	3	Further Life Contingencies
42	SIQ3002 ; SJER3217	4	Portfolio Theory and Asset Models ; Investment and Financial Analysis I
43	SJER4221	3	Life Insurance and Takaful
44	SJER4223	3	Loss Reservation, Accounting and Reinsurance for Property and Casualty Insurance
45	SIN3015 ; SJEM3380	4	Mathematical Science Project