

**INSTITUTE OF MATHEMATICAL SCIENCES**

## Courses Offered Semester 1 2018/2019

Number	Course Code	Credit	Course Title
1	GIS1016	2	Mathematics exploration
2	SIM1001 ; SIX1013 ; SJEM1110	4	Basic Mathematics ; Fundamental of Advanced Mathematics ; Basic Mathematics
3	SIM1002 ; SJEM1111	4	Calculus I
4	SIM1003 ; SJEM1211	4	Calculus II
5	SIN1001a	2	Introduction to Computing
7	SIN1001b	2	Introduction to Computing
8	SIN1002	2	Introduction to Worksheet
9	SIN1003 ; SJEM1211	4	Mathematical Methods I
10	SIT1001 ; SJEM1250	4	Probability and Statistics I
11	SIX1004 ; SSEX1102	3	Statistics
12	SIM2001 ; SJEM2210	4	Advanced Calculus
13	SIM2002 ; SJEM2211	4	Linear Algebra
14	SIM2003 ; SJEM2212	4	Introduction to Combinatorics
15	SIM2004 ; SJEM2213	4	Algebra I
16	SIM2005 ; SJEM2214	4	Introduction to Analysis
17	SIN2001	4	Mathematical Methods II
18	SIN2002 ; SJEM2231	4	Structured Programming
19	SIN2003 ; SJEM2233	4	Basic Operational Research
20	SIN2004 ; SJEM2234	4	Partial Differential Equations
21	SIN2005 ; SJEM2430	4	System of Ordinary Differential Equations
22	SIT2001 ; SJEM2250	4	Probability and Statistics II
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	SIQ2001 ; SJER2212	3	Microeconomics
28	SIQ2003 ; SJER2211	4	Financial Mathematics and Derivatives ; Interest Theory and Derivatives
29	SIQ3001 ; SJER2215	4 ; 3	Actuarial Mathematics I ; Introductory Life Contingencies
30	SIM3003 ; SJEM3413	4	Number Theory
31	SIM3005 ; SJEM3415	4	Matrix Theory
32	SIM3006 ; SJEM3416	4	Algebra II
33	SIM3010 ; SJEM3420	4	Topology
34	SIM3011 ; SJEM3421	4	Complex Analysis
35	SIN3002 ; SJEM3433	4	Cryptography
36	SIN3003 ; SJEM3433	4	Computational Fluid Dynamics
37	SIN3008 ; SJEM3438	4	Mathematical Programming
38	SIN3011 ; SJEM3441	4	Scientific Computing
39	SIN3015 ; SJEM3380	4	Mathematical Science Project
40	SIT3001	4	Introduction to Probability Theory
41	SIT3003 ; SJEM3451	4	Computer Intensive Methods in Statistics
42	SIT3008 ; SJEM3456	4	Introduction to Survey Sampling
43	SIT3010 ; SJEM3458	4	Introduction to Data Mining
44	SJEM3260	4	Educational Statistics
45	SIQ3002 ; SJER3217	4	Portfolio Theory and Asset Models ; Investment and Financial Analysis I
46	SIQ3006	4	Risk Theory
47	SIQ3009	4	Pension Mathematics
48	SIQ3005 ; SJER4221	4	Life Insurance and Takaful