

INSTITUTE OF MATHEMATICAL SCIENCES

COURSES OFFERED SEMESTER I, SESSION 2019/2020

Bil	Course Code	Course Title	Credits
TAHAP I			
1	SIM1001; SIX1013; SJEM1110	Matematik Dasar / <i>Basic Mathematics</i> Asas Matematik Lanjutan / <i>Fundamental of Advanced Mathematics</i> Matematik Dasar / <i>Basic Mathematics</i>	4 4 4
2	SIM1002 ; SJEM1111	Kalkulus I / <i>Calculus I</i> Kalkulus I / <i>Calculus I</i>	4 4
3	SIN1001	Pengantar Komputeran / <i>Introduction to Computing</i>	2
4	SIN1002	Pengenalan Lembaran Kerja / <i>Introduction to Worksheets</i>	2
5	SIN1003	Kaedah Matematik I / <i>Mathematical Methods I</i>	4
6	SIM1003 ; SJEM1211	Kalkulus II / <i>Calculus II</i> Kalkulus II / <i>Calculus II</i>	4 4
7	SIT1001 ; SJEM1250	Kebarangkalian dan Statistik I / <i>Probability and Statistics I</i> Kebarangkalian dan Statistik I / <i>Probability and Statistics I</i>	4 4
8	SIX1004 ; SXEX1102	Statistik / <i>Statistics</i> Statistik / <i>Statistics</i>	3 3
9	GIS1016	Eksplorasi Matematik / <i>Mathematical Explorations</i>	2
TAHAP II			
10	SIM2001 ; SJEM2210	Kalkulus Lanjutan / <i>Advanced Calculus</i> Kalkulus Lanjutan / <i>Advanced Calculus</i>	4 4
11	SIM2002 ; SJEM2211	Algebra Linear / <i>Linear Algebra</i> Algebra Linear / <i>Linear Algebra</i>	4 4
12	SIM2003 ; SJEM2212	Pengantar Kombinatorik / <i>Introduction to Combinatorics</i> Pengantar Kombinatorik / <i>Introduction to Combinatorics</i>	4 4
13	SIM2004 ; SJEM2213	Algebra I / <i>Algebra I</i> Algebra I / <i>Algebra I</i>	4 4
14	SIN2001	Kaedah Matematik II / <i>Mathematical Methods II</i>	4
15	SIN2002 ; SJEM2231	Pengaturcaraan Berstruktur / <i>Structured Programming</i> Pengaturcaraan Berstruktur / <i>Structured Programming</i>	4 4
16	SIN2003 ; SJEM2233	Asas Penyelidikan Operasi / <i>Basic Operational Research</i> Asas Penyelidikan Operasi / <i>Basic Operational Research</i>	4 4
17	SIN2004 ; SJEM2234	Persamaan Pembezaan Separa / <i>Partial Differential Equations</i> Persamaan Pembezaan Separa / <i>Partial Differential Equations</i>	4 4
18	SIN2005 ; SJEM2430	Sistem Persamaan Pembezaan Biasa / <i>System of Ordinary Differential Equations</i> Sistem Persamaan Pembezaan Linear dan Tidak Linear / <i>Linear and Non Linear System of Differential Equations</i>	4 4
19	SIN2007 ; SJEM2431	Matematik Pengurusan / <i>Managemant Mathematics</i> Matematik Pengurusan / <i>Managemant Mathematics</i>	4 4
20	SIT2001 ; SJEM2250	Kebarangkalian dan Statistik II / <i>Probability and Statistics II</i> Kebarangkalian dan Statistik II / <i>Probability and Statistics II</i>	4 4
21	SIT2003 ; SJEM2252	Proses Stokastik / <i>Stochastic Processes</i> Proses Stokastik / <i>Stochastic Processes</i>	4 4
22	SIT2004 ; SJEM2254	Analisis Regresi / <i>Regression Analysis</i> Analisis Regresi / <i>Regression Analysis</i>	4 4
23	SIT2006 ; SJEM2253	Statistik Tak Berparameter / <i>Non-parametric Statistics</i> Statistik Tak Berparameter / <i>Non-parametric Statistics</i>	4 4
24	SIQ2001 ; SJER2212	Mikroekonomi / <i>Microeconomics</i> Mikroekonomi / <i>Microeconomics</i>	3 3

25	SIQ2003 ; SJER2211	Matematik Kewangan dan Derivatif / <i>Financial Mathematics and Derivatives</i> Teori Faedah dan Terbitan / <i>Interest Theory and Derivatives</i>	4 4
TAHAP III			
26	SIM3003 ; SJEM3413	Teori Nombor / <i>Number Theory</i> Teori Nombor / <i>Number Theory</i>	4 4
27	SIM3005 ; SJEM3415	Teori Matriks / <i>Matrix Theory</i> Teori Matriks / <i>Matrix Theory</i>	4 4
28	SIM3006 ; SJEM3416	Algebra II / <i>Algebra II</i> Algebra II / <i>Algebra II</i>	4 4
29	SIM3011 ; SJEM3421	Analisis Kompleks / <i>Complex Analysis</i> Analisis Kompleks / <i>Complex Analysis</i>	4 4
30	SIN3002 ; SJEM3432	Kriptografi / <i>Cryptography</i> Kriptografi / <i>Cryptography</i>	4 4
31	SIN3005 ; SJEM3435	Kaedah dan Analisis Berangka / <i>Numerical Methods and Analysis</i> Kaedah dan Analisis Berangka / <i>Numerical Methods and Analysis</i>	4 4
32	SIT3001	Teori Kebarangkalian Pengenalan / <i>Introduction to Probability Theory</i>	4
33	SIT3005 ; SJEM3453	Siri Masa Dan Kaedah Peramalan / <i>Time Series and Forecasting Methods</i> Siri Masa Dan Kaedah Peramalan / <i>Time Series and Forecasting Methods</i>	4 4
34	SIT3006 ; SJEM3454	Tajuk Lanjutan dalam Analisis Regresi / <i>Further Topics in Regression Analysis</i> Tajuk Lanjutan dalam Analisis Regresi / <i>Further Topics in Regression Analysis</i>	4 4
35	SIT3010 ; SJEM3458	Perlombongan Data Pengenalan / <i>Introduction to Data Mining</i> Perlombongan Data Pengenalan / <i>Introduction to Data Mining</i>	4 4
36	SIQ3001 ; SJER2215	Matematik Aktuari I / <i>Actuarial Mathematics I</i> Kontigensi Nyawa Pengenalan / <i>Introductory Life Contingencies</i>	4 3
37	SIQ3002 ; SJER3217	Teori Portfolio dan Model Aset / <i>Portfolio Theory and Asset Models</i> Analisis Kewangan dan Pelaburan I / <i>Investment and Financial Analysis I</i>	4 4
38	SIQ3003 ; SJER3216	Matematik Aktuari II / <i>Actuarial Mathematics II</i> Kontigensi Nyawa Lanjutan / <i>Further Life Contingencies</i>	4 3
39	SIQ3006	Teori Risiko / <i>Risk Theory</i>	4
40	SIQ3005 ; SJER4221	Insurans Hayat dan Takaful / <i>Life Insurance and Takaful</i> Insurans Hayat dan Takaful / <i>Life Insurance and Takaful</i>	4 3
41	SIQ3007	Latihan Industri / <i>Industrial Training</i>	8
42	SIN3015 ; SJEM3380	Projek Sains Matematik / <i>Mathematical Science Project</i> Projek Sains Matematik / <i>Mathematical Science Project</i>	4 4