

INSTITUTE OF MATHEMATICAL SCIENCES

COURSES OFFERED SEMESTER 2, 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	SIQ1001 ; SJER2214	Pengenalan Kepada Perakaunan / <i>Introduction to Accounting</i> Pengenalan Kepada Perakaunan / <i>Introduction to Accounting</i>	3 3
9	SIX1004 ; SSEX1102	Statistik / <i>Statistics</i> Statistik / <i>Statistics</i>	3 3
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	SIM2005 ; SJEM2214	Pengantar Analisis / <i>Introduction to Analysis</i> Pengantar Analisis / <i>Introduction to Analysis</i>	4 4
13	SIM2006 ; SJEM2215	Pembolehubah Kompleks / <i>Complex Variables</i> Pembolehubah Kompleks / <i>Complex Variables</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	SIN2006	Analisis Vektor / <i>Vector Analysis</i>	4
17	SIT2001 ; SJEM2250	Kebarangkalian dan Statistik II / <i>Probability and Statistics II</i> Kebarangkalian dan Statistik II / <i>Probability and Statistics II</i>	4 4
18	SIT2002 ; SJEM2251	Statistik Matematik Lanjutan / <i>Further Mathematical Statistics</i> Statistik Matematik Lanjutan / <i>Further Mathematical Statistics</i>	4 4
19	SIT2005 ; SJEM2255	Analisis Data I / <i>Data Analysis I</i> Analisis Data I / <i>Data Analysis I</i>	4 4
20	SIM2007 ; SJEM2280	Apresiasi Matematik / <i>Appreciation of Mathematics</i> Apresiasi Matematik / <i>Appreciation of Mathematics</i>	2 2
21	SIQ2002 ; SJER2213	Makroekonomi / <i>Macroeconomics</i> Makroekonomi / <i>Macroeconomics</i>	3 3
22	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			
23	SIM3001 ; SJEM3411	Teori Graf / <i>Graph Theory</i> Teori Graf / <i>Graph Theory</i>	4 4
24	SIM3002 ; SJEM3412	Matematik Berkombinatorik / <i>Combinatorial Mathematics</i> Matematik Berkombinatorik / <i>Combinatorial Mathematics</i>	4 4
25	SIM3008 ; SJEM3418	Teori Kumpulan / <i>Group Theory</i> Teori Kumpulan / <i>Group Theory</i>	4 4
26	SIM3009 ; SJEM3419	Geometri Kebezaan / <i>Differential Geometry</i> Geometri Kebezaan / <i>Differential Geometry</i>	4 4

27	SIN3006 ; SJEM3436	Kawalan Inventori dan Pengeluaran / <i>Inventory Control and Production</i> Kawalan Pengeluaran dan Inventori / <i>Production and Inventory System</i>	4 4
28	SIN3008 ; SJEM3438	Pengaturcaraan Matematik / <i>Mathematical Programming</i> Pengaturcaraan Matematik / <i>Mathematical Programming</i>	4 4
29	SIN3009 ; SJEM3439	Penyelidikan Operasi Perindustrian / <i>Industrial Operational Research</i> Penyelidikan Operasi Perindustrian / <i>Industrial Operational Research</i>	4 4
30	SIN3010 ; SJEM3440	Geometri Berkomputer / <i>Computational Geometry</i> Geometri Berkomputer / <i>Computational Geometry</i>	4 4
31	SIN3011 ; SJEM3441	Komputeran Sainifik / <i>Scientific Computing</i> Komputeran Sainifik / <i>Scientific Computing</i>	4 4
32	SIT3003 ; SJEM3451	Kaedah Intensif Komputer dalam Statistik / <i>Computer Intensive Methods in Statistics</i> Kaedah Intensif Komputer dalam Statistik / <i>Computer Intensive Methods in Statistics</i>	4 4
33	SIT3004 ; SJEM3452	Proses Stokastik Gunaan / <i>Applied Stochastic Processes</i> Proses Stokastik Gunaan / <i>Applied Stochastic Processes</i>	4 4
34	SIT3009 ; SJEM3457	Pengawalan Proses Berstatistik / <i>Statistical Process Control</i> Pengawalan Proses Berstatistik / <i>Statistical Process Control</i>	4 4
35	SIT3012 ; SJEM3460	Rekabentuk Dan Analisis Ujikaji / <i>Design and Analysis of Experiments</i> Rekabentuk & Analisis Ujikaji / <i>Design and Analysis of Experiments</i>	4 4
36	SIQ3003 ; SJER3216	Matematik Aktuari II / <i>Actuarial Mathematics II</i> Kontigensi Nyawa Lanjutan / <i>Further Life Contingencies</i>	4 3
37	SIQ3010	Model Kemandirian / <i>Survival Models</i>	4
38	SIQ3004 ; SJER4222	Matematik Derivatif Kewangan / <i>Mathematics of Financial Derivatives</i> Analisis Kewangan dan Pelaburan II / <i>Investment and Financial Analysis II</i>	4 4
39	SIQ3007	Latihan Industri / <i>Industrial Training</i>	8