

STRUKTUR KURIKULUM / *CURRICULUM STRUCTURE*

**Bachelor Sains Statistik
dengan Kepujian /
*Bachelor of Science in
Statistics with Honours***

STRUKTUR KURIKULUM / CURRICULUM STRUCTURE

Nama Program : **Bachelor Sains Statistik dengan Kepujian /
Bachelor of Science in Statistics with Honours**

Jumlah Kredit Bergraduat : **126 Jam Kredit / Credit Hours**

Tempoh Pengajian : **8 Semester / Semesters (4 Tahun / Years)**

1. Kursus Universiti / University Courses (25 Kredit / Credits)

KOD KURSUS/ COURSE CODE	NAMA KURSUS/ COURSE NAME	Kr	K	A/T	PRASYARAT/ PREREQUISITE
BBI2423	<i>Academic Interaction and Presentation</i>	3	2	1	CEL2102
BBI2424	<i>Academic Writing</i>	3	2	1	BBI2423
FCE3204	<i>Kemahiran Berfikir/ Thinking Skills</i>	2	2	0	Tiada/ None
KOM3403	<i>Pengucapan Awam/ Public Oration</i>	3	3	0	Tiada/ None
MGM3180	<i>Asas Keusahawanan/ Basic Entrepreneurship</i>	3	2	1	Tiada/ None
PRT2008	<i>Pertanian dan Manusia/ Agriculture and Man</i>	2	2	0	Tiada/ None
SKP2101	<i>Kenegaraan Malaysia/ Malaysian Nationhood</i>	3	3	0	Tiada/ None
SKP2203	<i>Tamadun Islam dan Tamadun Asia/ Islamic Civilization and Asian Civilization</i>	2	2	0	Tiada/ None
SKP2204	<i>Hubungan Etnik/ Ethnic Relations</i>	2	2	0	Tiada/ None
QKK2101	<i>Bakti Siswa</i>	1	0	1	Tiada/ None
QKXxxxx	<i>Ko-kurikulum/ Co-curriculum</i>	1	0	1	Tiada/ None

2. Kursus Teras / Core Courses (69 Kredit / Credits)

KOD KURSUS/ COURSE CODE	NAMA KURSUS/ COURSE NAME	Kr	K	A/T	PRASYARAT/ PREREQUISITE
MTH3100	<i>Kalkulus/ Calculus</i>	3	3	0	Tiada/ None
MTH3101	<i>Kalkulus Lanjutan/ Advanced Calculus</i>	3	3	0	MTH3100
MTH3102	<i>Persamaan Pembezaan/ Differential Equations</i>	3	3	0	MTH3100 dan MTH3200
MTH3200	<i>Aljabar/ Algebra</i>	3	3	0	Tiada/ None
MTH3401	<i>Kebarangkalian dan Statistik I/ Probability and Statistics I</i>	3	3	0	MTH3100
MTH3500	<i>Pengaturcaraan Komputer dalam Matematik/ Computer Programming in Mathematics</i>	4	3	1	Tiada/ None
MTH3201	<i>Aljabar Linear/ Linear Algebra</i>	3	3	0	MTH3100 dan MTH3200

MTH3402	Kebarangkalian dan Statistik II/ <i>Probability and Statistics II</i>	3	3	0	MTH3401
MTH3403	Rekabentuk Ujikaji/ <i>Experimental Design</i>	3	3	0	MTH3401
MTH3404	Model Linear/ <i>Linear Model</i>	3	3	0	MTH3402
MTH3405	Penggunaan Pakej Statistik Terpilih/ <i>Applications of Selected Statistical Package</i>	3	2	1	MTH3402
MTH3406	Kawalan Kualiti Berstatistik/ <i>Statistical Quality Control</i>	3	3	0	MTH3402
MTH3407	Kebarangkalian Pertengahan/ <i>Intermediate Probability</i>	3	3	0	MTH3402
MTH3408	Pengenalan kepada Kaedah Bayes/ <i>Introduction to Bayesian Method</i>	3	3	0	MTH3402
MTH3409	Statistik Berkomputasi/ <i>Computational Statistics</i>	3	2	1	MTH3405
MTH3410	Permodelan dan Pentakbiran Berstatistik/ <i>Statistical Modelling and Inference</i>	3	3	0	MTH3402
MTH3411	Analisis Regresi/ <i>Regression Analysis</i>	3	3	0	MTH3402
MTH3901	Proses Penyelidikan dalam Matematik dan Statistik/ <i>Research Processes in Mathematics and Statistics</i>	3	1	2	MTH3500
MTH4903	Latihan Industri/ <i>Industrial Training</i>	8	0	8	MTH4959
MTH4959	Disertasi Bachelo/ <i>Bachelor Dissertation</i>	6	0	6	

3. Kursus Elektif / *Elective Courses* (32 Kredit / *Credits*)

i. Kumpulan I / *Group I* (12/13/14/15 Kredit/ *Credits*)

Sains Komputer dan Teknologi Maklumat/ <i>Computer Science and Information Technology</i> (14/ 15 Kredit/ <i>Credits</i>)					
KOD KURSUS/ <i>COURSE CODE</i>	NAMA KURSUS/ <i>COURSE NAME</i>	Kr	K	A/T	PRASYARAT/ <i>PREREQUISITE</i>
SSK3100	Pengaturcaraan Komputer 1/ <i>Computer Programming I</i>	4	3	1	Tiada/ <i>None</i>
SSK3101	Pengaturcaraan Komputer II/ <i>Computer Programming II</i>	4	3	1	SSK3100*
dan mana-mana dua (2) kursus berikut/ <i>and any two (2) of the following courses</i>					
SSK3117	Struktur Data dan Algoritma/ <i>Data Structures and Algorithms</i>	3	3	0	SSK3101*
SSK3207	Organisasi Komputer dan Bahasa Himpunan/ <i>Computer Organization and Assembly Language</i>	3	3	0	SSK3100*

SSK3408	Pembangunan Aplikasi Pangkalan Data/ <i>Database Application Development</i>	4	3	1	SSK3101*
SIM3001	Pengenalan kepada Kejuruteraan Perisian/ <i>Introduction to Software Engineering</i>	3	3	0	SSK3101*
SKR3200	Komunikasi dan Rangkaian Komputer/ <i>Computer Network and Communication</i>	3	3	0	SSK3207*
atau Ekonomi/ or Economics (12 Kredit/ Credits)					
ECN3100	Prinsip Ekonomi/ <i>Principles of Economics</i>	3	3	0	Tiada/ None
ECN3101	Mikroekonomi/ <i>Microeconomics</i>	3	3	0	ECN3100*
ECN3102	Makroekonomi/ <i>Macroeconomics</i>	3	3	0	ECN3100*
ECN3161 atau	Ekonomi Malaysia/ <i>Malaysian Economics</i>	3	3	0	Tiada/ None
ECN4181	Ekonomi Antarabangsa/ <i>International Economics</i>	3	3	0	Tiada/ None
atau Perakaunan/ or Accounting (14 Kredit/ Credits)					
ACT2112	Perakaunan Pengenalan/ <i>Introductory Accounting</i>	4	3	1	Tiada/ None
ACT2131	Perakaunan Kos dan Pengurusan/ <i>Cost and Management Accounting</i>	3	3	0	ACT2112*
ACT3120	Perakaunan Kewangan/ <i>Financial Accounting</i>	4	3	1	ACT2112*
ACT3211	Pengurusan Kewangan/ <i>Financial Management</i>	3	3	0	ACT2112* atau ACT2113*
atau Pengurusan Perniagaan/ or Business Management (13 Kredit/ Credits)					
ACT2112	Perakaunan Pengenalan/ <i>Introductory Accounting</i>	4	3	1	Tiada/ None
ACT2131	Perakaunan Kos dan Pengurusan/ <i>Cost and Management Accounting</i>	3	3	0	ACT2112*
MGM3101	Prinsip Pengurusan/ <i>Principles of Management</i>	3	3	0	Tiada/ None
MGM3211	Prinsip Pemasaran/ <i>Principles of Marketing</i>	3	3	0	MGM2111/MGM3101
atau Fizik/ or Physic (14 Kredit/ Credits)					
PHY3103	Fizik I/ <i>Physics I</i>	4	3	1	Tiada/ None
PHY3104	Fizik II/ <i>Physics II</i>	4	3	1	Tiada/ None
PHY3105	Fizik Moden/ <i>Modern Physics</i>	3	3	0	PHY3103 dan PHY3104
PHY3201 atau	Fizik Keadaan Pepejal/ <i>Solid States Physics</i>	3	3	0	PHY3103 dan PHY3104
PHY3401	Keelektromagnetan/ <i>Electromagnetism</i>	3	3	0	PHY3103 dan PHY3104

atau Kimia/ or Chemistry (14 Kredit/ Credits)					
CHM3010	Kimia Fizik dan Tak Organik/ <i>Physical and Inorganic Chemistry</i>	4	3	1	Tiada/ None
CHM3201	Kimia Organik I/ <i>Organic Chemistry I</i>	4	3	1	Tiada/ None
CHM3401	Kimia Analisis/ <i>Analytical Chemistry</i>	3	2	1	CHM3100 atau CHM3010
CHM4001	Kimia Perindustrian/ <i>Industrial Chemistry</i>	3	3	0	CHM3201

ii. Kumpulan II / Group II (12 Kredit/ Credits)

KOD KURSUS/ COURSE CODE	NAMA KURSUS/ COURSE NAME	Kr	K	A/T	PRASYARAT/ PREREQUISITE
MTH4401	Teknik Pensampelan/ <i>Sampling Techniques</i>	3	3	0	MTH3403
MTH4402	Tajuk Khas dalam Statistik/ <i>Special Topics in Statistics</i>	3	3	0	MTH3405
MTH4403	Statistik Tak Berparameter/ <i>Nonparametric Statistics</i>	3	3	0	MTH3403 dan MTH3404
MTH4404	Proses Stokastik/ <i>Stochastic Processes</i>	3	3	0	MTH3402 dan MTH3102
MTH4405	Analisis Multivariat/ <i>Multivariate Analysis</i>	3	3	0	MTH3405
MTH4406	Siri Masa/ <i>Time Series</i>	3	3	0	MTH3404
MTH4407	Kaedah Interaktif Berkomputasi dalam Analisis Data/ <i>Interactive Computational Methods in Data Analysis</i>	3	3	0	MTH3405
MTH4408	Pengenalan kepada Analisis Mandirian/ <i>Introduction to Survival Analysis</i>	3	3	0	MTH3405

iii. Kumpulan III / Group III (3 Kredit/ Credits)

KOD KURSUS/ COURSE CODE	NAMA KURSUS/ COURSE NAME	Kr	K	A/T	PRASYARAT/ PREREQUISITE
	Bahasa Global/ <i>Global Language</i>	3			Tiada/ None

iv. Kumpulan IV / Group IV (3/4/5 Kredit/ Credits)

KOD KURSUS/ COURSE CODE	NAMA KURSUS/ COURSE NAME	Kr	K	A/T	PRASYARAT/ PREREQUISITE
	Elektif 1/ <i>Elective 1</i>	3			Tiada/ None
	Elektif 2/ <i>Elective 2</i>	3			Tiada/ None

Nota / Notes:

Kr = Jam Kredit / Credit Hour, K = Kuliah / Lecture, A = Amali / Laboratory, T = Tutorial

*tertakluk kepada perubahan semakan kurikulum Fakulti yang menawarkan kursus tersebut

Nota Penting / Notes :

1. Pelajar perlu melengkapkan pakej keperluan Bahasa Inggeris seperti jadual di bawah.
Butiran lanjut mengenai CEL dan LAX sila rujuk di muka surat belakang buku panduan ini.
Students need to complete the english package as the table below : For more details on CEL and LAX please refer to the back / last page of this book.

MUET Band	Graduation Requirements for 4-year programmes
1 & 2	3 BBI + 3 CEL + 24 LAX points
3 & 4	2 BBI + 2 CEL + 24 LAX points
5 & 6	2 BBI + 1 CEL + 24 LAX points atau 1 BBI + 1 CEL + 24 LAX points (jika mengambil bahasa global)