

**Bachelor Pengurusan Alam
Sekitar dengan Kepujian**

***Bachelor of Environmental
Management with Honours***

STRUKTUR KURIKULUM/ CURRICULUM STRUCTURE

Nama Program <i>Program Name</i>	:	Bachelor Pengurusan Alam Sekitar dengan Kepujian <i>Bachelor of Environmental Management with Honours</i>
Jumlah Kredit Bergraduat <i>Total Credits to Graduate</i>	:	125 Jam Kredit / Credit Hours
Tempoh Pengajian <i>Period of Study</i>	:	8 Semester / Semesters (4 Tahun / Years)
Matlamat Program <i>Program Outcomes</i>	:	<ol style="list-style-type: none"> 1. Menghasilkan pegawai atau eksekutif yang kompeten untuk mengurus dan menyelesaikan masalah alam sekitar (<i>To produce competent officers or executives to manage and solve environmental problems</i>) 2. Menghasilkan pegawai yang mampu menyumbang kepada pembangunan mampan dan kesejahteraan masyarakat yang berkaitan alam sekitar. (<i>To produce officers who can contribute towards sustainable development and social wellbeing related to the environment</i>) 3. Menghasilkan pengamal atau penyelidik yang berupaya menjalankan penyelidikan dan mempunyai inisiatif pembelajaran sepanjang hayat dalam bidang berkaitan pengurusan alam sekitar. (<i>To produce practitioners or researchers who are capable to conduct researches and have lifelong learning initiatives in the field related to environmental management</i>)

RINGKASAN HASIL PEMBELAJARAN PROGRAM/ SUMMARY OF PROGRAM LEARNING OUTCOMES

Program	Pengetahuan dan Kefahaman/ <i>Knowledge and Understanding</i>	Kemahiran Praktikal/Practical Skills	Kemahiran kognitif / Cognitive Skills (CTPS)	Kemahiran Berkomunikasi/ <i>Communication Skills</i> (CS)	Kemahiran Interpersonal/ <i>Interpersonal Skills</i> (TS)	Etika dan Profesionalisme/ Ethics <i>and Professionalism</i> (EM)	Kemahiran digital dan pendidikan Sepanjang Hayat / <i>Digital Skills and Life-Long Learning</i> (LL)	Kemahiran personal dan keusahawanan/ <i>Personal and Entrepreneurial Skills</i> (KK)	Kepimpinan, autonomi dan tanggungjawab/ <i>Leadership, autonomy and responsibility</i> (LS)	Kemahiran numerasi/ <i>Numeracy Skills</i> (NS)
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Bachelor Pengurusan Alam Sekitar dengan Kepujian/ <i>Bachelor of Environmental Management with Honours</i>	41	19	17	9	9	13	15	6	6	7

1. Kursus Universiti/ University Courses (23 jam kredit / credit hours)

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A/T	PRASYARAT/ PREREQUISITE
LPE2301	<i>Academic Interaction and Presentation</i>	3	3	0	LPE2401 atau MUET Band 3-4
LPE2501	<i>Academic Writing</i>	3	3	0	LPE2301
MGM3101	Prinsip Pengurusan/ <i>Principles of Management</i>	3	3	0	Tiada/None
MGM3180	Asas Keusahawanan/ <i>Basic Entrepreneurship</i>	3	2	1	Tiada/None
PRT 2009	Pertanian dan Kehidupan	2	1	1	Tiada/None
QKSxxxx	Kokurikulum Berkredit/ <i>Cocurriculum</i>	1	0	1	Tiada/None
QKSxxxx	Kokurikulum Berkredit/ <i>Cocurriculum</i>	1	0	1	Tiada/None
SKP2101*	Kenegaraan Malaysia/ <i>Malaysian Nationhood</i>	3	3	0	Tiada/None
FEM2401**	Politik Malaysia Dan Masyarakat/ <i>Malaysian Politics And Society</i>	2	2	0	
SKP3122*	Penghayatan Etika dan Peradaban/ <i>Internalization of Ethics and Civilization</i>	2	2	0	Tiada/ None
LPM2100**	Bahasa Melayu Komunikasi/ <i>Malay Language Communication</i>	2	2	0	Tiada / None
SKP3112*	Falsafah dan Isu Semasa/ <i>Philosophy and Current Issues</i>	2	2	0	Tiada/ None
SKP3113**	Falsafah dan Isu Semasa Masyarakat Sivil/ <i>Philosophy and Current Issues in Civil Society</i>				
atau/ or	atau/ or	3	3	0	Tiada/ None
SKP3123**	Penghayatan Etika dan Peradaban di Malaysia/ <i>Internalization of Ethics and Civilization in Malaysia</i>				

Nota: * pelajar tempatan/ local student **pelajar antarabangsa/ international student

2. Kursus Teras/ Core Courses (70 jam kredit / credit hours)

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A	PRASYARAT/ PREREQUISITE
EMG3008	Pengenalan Kepada Sistem Semulajadi/ <i>Introduction to Natural Systems</i>	3	3	0	Tiada/None
EMG3010	Pengurusan Kualiti Alam Sekitar/ <i>Environmental Quality Management</i>	3	3	0	Tiada/None
EMG3105	Pengurusan Sumber Alam/ <i>Natural Resources Management</i>	2	2	0	Tiada/None
EMG3203	Pengenalan Perancangan Alam Sekitar/ <i>Introduction to Environmental Planning</i>	3	3	0	Tiada/None
EMG3204	Studio Perancangan Alam Sekitar I/ <i>Environmental Planning Studio I</i>	3	0	3	Tiada/None
EMG3206	Penilaian Kesan Alam Sekitar dan Pelan Pengurusan Alam Sekitar/ <i>Environmental Impact Assessment and Environmental Management Plan</i>	3	3	0	EMG3503 atau EMG3203
EMG3302	Ekonomi dan Pengurusan Alam Sekitar/ <i>Environmental Economics and Management</i>	3	3	0	ECN3010
EMG3303	Pengurusan dan Operasi Projek/ <i>Project Management and Operation</i>	3	3	0	Tiada/None
EMG3401	Masyarakat, Etika dan Alam Sekitar/ <i>Society, Ethics and the Environment</i>	3	3	0	Tiada/None
EMG3503	Pengenalan Kepada Undang-Undang Alam Sekitar/ <i>Introduction to Environmental Law</i>	3	3	0	Tiada/ None
EMG3802	Pengenalan Kepada Kerja Lapangan Pengurusan Alam Sekitar/ <i>Introduction to Environmental Management Fieldwork</i>	3	1	2	Tiada/None
EMG4102	Sistem Pengurusan Kualiti Alam Sekitar/ <i>Environmental Quality Management Systems</i>	3	3	0	Tiada/None
EMG4206	Studio Perancangan Alam Sekitar II/ <i>Environmental Planning Studio II</i>	3	0	3	EMG3203 dan EMG3204

EMG4301	Penilaian Sumber Asli dan Perkhidmatan Ekosistem/ <i>Ecosystem Services And Natural Resource Valuation</i>	3	3	0	Tiada/None
EMG4804	Kerja Lapangan Bersepadu Pengurusan Perancangan Alam Sekitar/ <i>Integrated Environmental Management Planning Fieldwork</i>	3	0	3	Tiada/None
EMG4902	Kaedah Penyelidikan Untuk Pengurusan Alam Sekitar/ <i>Research Methodologies for Environmental Management</i>	3	2	1	Tiada/None
EMG4991	Teknik Seminar Pengurusan Alam Sekitar/ <i>Environmental Management Seminar Techniques</i>	2	1	1	Tiada/None
EMG4959	Disertasi Bachelior/ Bachelor Dissertation	6	0	6	Tiada/None
EMP4901	Latihan Industri/ <i>Industrial Training</i>	12	0	12	Tiada/None
ECN3010	Prinsip Ekonomi/ <i>Principles of Economics</i>	3	3	0	Tiada/ None

3. Kursus Elektif/ *Elective Courses* (32 jam kredit / *credit hours*)

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A/T	PRASYARAT/ PREREQUISITE
EMG3003	Sistem Maklumat Alam Sekitar/ <i>Environmental Information Systems</i>	3	2	1	Tiada/None
EMG3007	Kaedah Kuantitatif Untuk Pengurusan Alam Sekitar/ <i>Quantitative Methods for Environmental Management</i>	3	1	2	Tiada/None
EMG3011	Kemampanan Dan Kemasyarakatan/ <i>Sustainability and Society</i>	2	2	0	Tiada/None
EMG3012	Lukisan Pelan dan Isometrik dalam Pengurusan Alam Sekitar/ <i>Plan and Isometric Drawing in Environmental Management</i>	3	1	2	Tiada/ None
EMG3103	Pengurusan Kualiti Air dan Udara/ <i>Air and Water Quality Management</i>	3	3	0	Tiada/None

EMG3104	Prinsip Pengurusan Sisa Pepejal/ <i>Principles of Solid Waste Management</i>	3	3	0	Tiada/None
EMG3205	Geografi Fizikal/ <i>Physical Geography</i>	3	3	0	Tiada/None
EMG3402	Kaedah Penyelidikan Kualitatif untuk Alam Sekitar/ <i>Qualitative Research Methods for the Environment</i>	4	3	1	Tiada/ None
EMG4001	Statistik untuk Perancangan dan Pengurusan Alam Sekitar/ <i>Statistics for Environmental Planning and Management</i>	3	2	1	EMG3007
EMG4105	Pengurusan Projek Dalam Sekitaran Terkawal/ <i>Management of Projects in Controlled Environments</i>	3	2	1	EMG3303
EMG4106	Perubahan Alam Sekitar dan Isu Semasa/ <i>Environmental Change and Current Issues</i>	2	2	0	Tiada/None
EMG4107	Pengurusan Pinggir Laut dan Marin/ <i>Coastal and Marine Management</i>	3	3	0	Tiada/None
EMG4202	Perancangan Pengangkutan/ <i>Transport Planning</i>	3	3	0	Tiada/None
EMG4203	Perancangan dan Pengurusan Alam Sekitar Gunaan/ <i>Applied Environmental Planning and Management</i>	3	2	1	EMG3204
EMG4205	Perancangan Respons Tumpahan Minyak/ <i>Oil Spill Response Planning</i>	2	2	0	Tiada/None
EMG4401	Geografi Kemanusiaan/ <i>Human Geography</i>	3	3	0	Tiada/None
EMG4402	Gender dan Pengurusan Bersepadu Sumber Asli/ <i>Gender and Integrated Natural Resources Management</i>	3	2	1	Tiada/None
EMG4403	Penyelidikan Dalam Sosiologi Alam Sekitar/ <i>Research in Environmental Sociology</i>	3	2	1	Tiada/None
EMG4404	Ekopelancongan Dan Alam Sekitar/ <i>Ecotourism and Environment</i>	3	2	1	Tiada/None
EMG4405	Pemikiran Kitar Hayat Dalam Pembangunan Mampan/ <i>Life cycle thinking in sustainable development</i>	3	3	0	Tiada/None

EMG4501	Polisi dan Pentadbiran Alam Sekitar/ <i>Policy and Environmental Administration</i>	3	3	0	EMG3503
EMG4502	Undang-undang Alam Sekitar dan Perancangan/ <i>Environmental Law and Planning</i>	3	3	0	EMG3503
EMG4504	Undang-Undang Berkaitan Pemuliharaan Kepelbagaian Biologi Dan Perubahan Iklim/ <i>Laws relating to Biodiversity Conservation and Climate Change</i>	3	3	0	EMG3503
EMG4992	Pemudahcaraan Dalam Pengurusan Alam Sekitar/ <i>Facilitation in Environmental Management</i>	2	1	1	Tiada/None
ESC3101	Prinsip Kesihatan Alam Sekitar/ <i>Principles of Environmental Health</i>	3	2	1	Tiada/None
ESC3510	Sistem Maklumat Geografi Dan Penderiaan Jarak Jauh Alam Sekitar/ <i>Environmental Geographic Information System and Remote Sensing</i>	3	2	1	Tiada/None
ESC4502	Respons Kecemasan Alam Sekitar/ <i>Environmental Emergency Response</i>	3	3	0	Tiada/None
LPX21YZ	Bahasa Global	3	3	0	
XXXX	Elektif Bebas 1	3	3	0	
XXXX	Elektif Bebas 2	2	2	0	

1. Pelajar mestilah memilih 32 kredit daripada kursus elektif / *Students are required to choose 32 credits from the elective courses.*
2. *Cadangan kursus yang digunakan untuk pengiraan kursus elektif, walau bagaimanapun pelajar boleh memilih mana-mana kursus yang disenaraikan dan ditawarkan dibawah program BPAS sebanyak 24 kredit, dan 8 kredit elektif bebas daripada program lain di UPM atau mana-mana universiti dalam dan luar negara/ **The proposed courses used for the calculation of elective courses but students can choose any course listed and offered under the BPAS program amounting to 24 credits, and 8 credits free elective from other programs at UPM or any university inside and outside the country.*

Nota Penting/Notes :

1. Pelajar mestilah memilih 33 kredit daripada kursus elektif termasuk 3 kredit kursus Bahasa Asing (BB*24**) yang ditawarkan oleh Jabatan Bahasa Asing, FBMK, UPM.
*Students are required to choose 33 credits for elective courses including 3 credit hours Foreign Language (BB*24**) that is offered by Department of Foreign Languages, FMLC, UPM.*
2. Pelajar diwajibkan memilih **2 kredit** daripada **kursus kokurikulum** yang ditawarkan oleh universiti. *It is compulsory for students to take **2 credits of co-curriculum courses** offered by the university.*
3. *Pelajar perlu melengkapkan pakej keperluan bahasa inggeris seperti jadual Pakej ELEX di atas. (Butiran lanjut mengenai CEL dan LAX sila rujuk pada Pakej ELEX di atas (halaman 7&8).*
Students need to complete the ELEX Package as the table above (Page 7& 8).

SKEMA PENGAJIAN/ STUDY SCHEME**TAHUN 1 / 1st YEAR****SEMESTER 1 / 1st SEMESTER**

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A/T
	LAX (6 points)			
EMG3008	Pengenalan Kepada Sistem Semulajadi/ <i>Introduction to Natural Systems</i>	3	3	0
EMG3105	Pengurusan Sumber Alam/ <i>Natural Resource Management</i>	2	2	0
PRT2009	Pertanian dan Kehidupan/ <i>Agriculture and Life</i>	2	1	1
QKSxxxx	Ko-kurikulum/ <i>Co-curriculum</i>	1	0	1
SKP2101*	Kenegaraan Malaysia/ <i>Malaysian Nationhood</i>	3	3	0
FEM2401**	Politik Malaysia Dan Masyarakat/ <i>Malaysian Politics And Society</i>	2	2	0
SKP3112*	Falsafah dan Isu Semasa/ <i>Philosophy and Current Issues</i>	2	2	0
SKP3113**	Falsafah dan Isu Semasa Masyarakat Sivil/ <i>Philosophy and Current Issues in Civil Society</i>			
atau/ or	atau/ or	3	3	0
SKP3123**	Penghayatan Etika dan Peradaban di Malaysia/ <i>Internalization of Ethics and Civilization in Malaysia</i>			
JUMLAH/ TOTAL		13	11	2

SEMESTER 2 / 2ND SEMESTER

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A/T
EMG3203	Pengenalan Perancangan Alam Sekitar/ <i>Introduction to Environmental Planning</i>	3	3	0
EMG3802	Pengenalan Kepada Kerja Lapangan Pengurusan Alam Sekitar/ <i>Introduction to Environmental Management Fieldwork</i>	3	1	2
ECN3010	Prinsip Ekonomi/ <i>Principles of Economics</i>	3	3	0
LPE2301	Academic Interaction and Presentation	3	2	1
MGM3101	Prinsip Pengurusan/ <i>Principles of Management</i>	3	3	0
QKSxxxx	Ko-kurikulum Berkredit / <i>Co-curriculum</i>	1	0	1

SKP3122*	Penghayatan Etika dan Peradaban/ <i>Internalization of Ethics and Civilization</i>	2	2	0
LPM2100**	Bahasa Melayu Komunikasi	2	2	0
JUMLAH/ TOTAL		18	14	4

TAHUN 2 / 2ND YEAR

SEMESTER 1 / 1ST SEMESTER

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A/T
EMG3010	Pengurusan Kualiti Alam Sekitar/ <i>Environmental Quality Management</i>	3	3	0
EMG3204	Studio Perancangan Alam Sekitar I	3	0	3
EMG3302	Ekonomi dan Pengurusan Alam Sekitar/ <i>Environmental Economics and Management</i>	3	3	0
EMG3503	Pengenalan kepada Undang-Undang Alam Sekitar/ <i>Introduction of Environmental law</i>	3	3	0
MGM3180	Asas Keusahawanan/ <i>Basic Entrepreneurship</i>	3	2	1
LPE2501	Academic Writing	3	2	1
	Elektif/ <i>Electives</i>	3		
JUMLAH/ TOTAL		21	13	5

SEMESTER 2 / 2ND SEMESTER

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A
	<i>LAX (12 points)</i>			
EMG3303	Pengurusan dan Operasi Projek/ <i>Project Management and Operation</i>	3	3	0
EMG4102	Sistem Pengurusan Kualiti Alam Sekitar/ <i>Environmental Quality management system</i>	3	3	0
EMG4206	Studio Perancangan Alam Sekitar II/ <i>Environmental Planning Studio II</i>	3	0	3
EMG4301	Penilaian Sumber Asli dan Perkhidmatan Ekosistem/ <i>Ecosystem Services And Natural Resource Valuation</i>	3	3	0
EMG4991	Seminar Pengurusan Alam Sekitar/ <i>Environmental Management Seminar</i>	2	1	1
	Elektif/ <i>Elective</i>	3		
JUMLAH/ TOTAL		17	10	4

TAHUN 3 / 3RD YEAR**SEMESTER 1 / 1ST YEAR**

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A
	CEL2103			
EMG4804	Kerja Lapangan Bersepadu Pengurusan Perancangan Alam Sekitar/ <i>Integrated Environmental Management Planning Fieldwork</i>	3	0	3
EMG4902	Kaedah Penyelidikan Untuk Pengurusan Alam Sekitar/ <i>Research Methodologies for Environmental Management</i>	3	2	1
	Elektif/ <i>Elective</i>	11		
	JUMLAH/ TOTAL	17	2	4

SEMESTER 2 / 2ND SEMESTER

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A
	CEL 2102/2105/2106/2017			
EMG3401	Masyarakat, Etika dan Alam Sekitar/ <i>Society, Ethics and the Environment</i>	3	3	0
EMG4959A	Disertasi Bachelo/ <i>Bachelor Dissertation</i>	3	0	3
	Elektif/ <i>Electives</i>	9		
	JUMLAH/ TOTAL	15	3	3

TAHUN 4 / 4TH YEAR**SEMESTER 1 / 1ST SEMESTER**

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A
	<i>Lax (6 points)</i>			
EMG3206	Penilaian Kesan Alam Sekitar dan Pelan Pengurusan Alam Sekitar/ <i>Environmental Impact Assessment and Environmental Management Plan</i>	3	3	0
EMG4959B	Disertasi Bachelo/ <i>Bachelor Dissertation</i>	3	0	3
	Elektif/ <i>Electives</i>	6		
	JUMLAH/ TOTAL	12	3	3

SEMESTER 2 / 2ND SEMESTER

KOD KURSUS/ COURSE CODE	NAMA KURSUS/COURSE NAME	Kr	K	A
EMP4901	Latihan Industri/ <i>Industrial Training</i>	12	0	12
	JUMLAH/ TOTAL	12	0	12