

FACULTY OF ENGINEERING (FKJ)

STUDENT HANDBOOK SESSION 2020/2021

OIL AND GAS ENGINEERING (HK88)

STUDENT NAME	
MATRIC NO	
HEAD OF THE PROGRAMME	
ACADEMIC ADVISOR	

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Message from the Dean

Assalamualaikum wbt and my warmest greeting to all new students.

Welcome and Congratulations on your acceptance to the Universiti Malaysia Sabah (UMS). We are delighted that you joined our Faculty of Engineering (FKJ) family

This handbook is prepared to provide brief information about the vision and mission of the faculty, program educational objectives (PEO), program outcomes (PO), course structure that outlined courses to be taken every semester, academic record, academic advisor record, club and extra-curricular records, professional development record and student achievement. The faculty implemented an outcome-based education (OBE) that focuses on student-centered learning outcomes.



We take pride in our students and alumni that have demonstrated outstanding achievement and academic excellence. It is hoped that this handbook will be able to provide the required information on the faculty's administration and respective programs structure.

An academic advising system exists at the University of which the advisor is a lecturer assigned for the students. The advisor can guide on the matters related to studies, personal and financial problems that faced by the students. Students must meet their advisor at least twice per semester preferably at early semester when selecting the courses to be taken and at mid semester to review the ongoing academic performance and finalisation of course registration before the add and drop week. Students are required to record all meeting outcomes in this handbook for future reference.

It is also important for you to know that during your study period, you should abide by the rules of Malaysian law, Universities and University Colleges Act (AUKU), Statute of the University, and Rules and Regulations of the University. Take great responsibility in upholding the image of the University.

Lastly, on behalf of the Faculty, I would like to take this opportunity to wish you success in your academic journey and I hope that your study experience at Faculty of Engineering, UMS is rewarding.

Together we are stronger.

With warmest regards,

Associate Professor Ts. Dr. Ismail Saad
Dean
Faculty of Engineering
Universiti Malaysia Sabah

ACADEMIC ADVISOR COMMITTEE

ADVISORS

Dean, Faculty of Engineering
Assoc. Prof. Ts. Dr. Ismail Saad

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Deputy Dean, (Research and Innovation)
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Acknowledgement

Thank you to those have contributed directly or indirectly towards preparing this handbook.

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Instruction to Students

This handbook serves as a one-stop information for students mainly introducing the Vision and Mission of the Faculty, Program Educational Objectives (PEO), Program Outcomes (PO), Course Structure that outlined courses to be taken every semester, Academic Record, Academic Advisor Record, Club and Extra Curricular Records, Professional Development Record and Student Achievement.

VISION, MISSION, PEO, PO



Students are required to read the Vision and Mission of the Faculty, as well as knowing the PEO and PO of the Programme.

COURSE STRUCTURE, ACADEMIC RECORD



The courses to be taken throughout the studies are given in Semesters and according to Year. Students have to monitor and track the courses taken and record the results achieved every semester. Students must complete all the required courses before they can graduate.

ACADEMIC ADVISOR SYSTEM

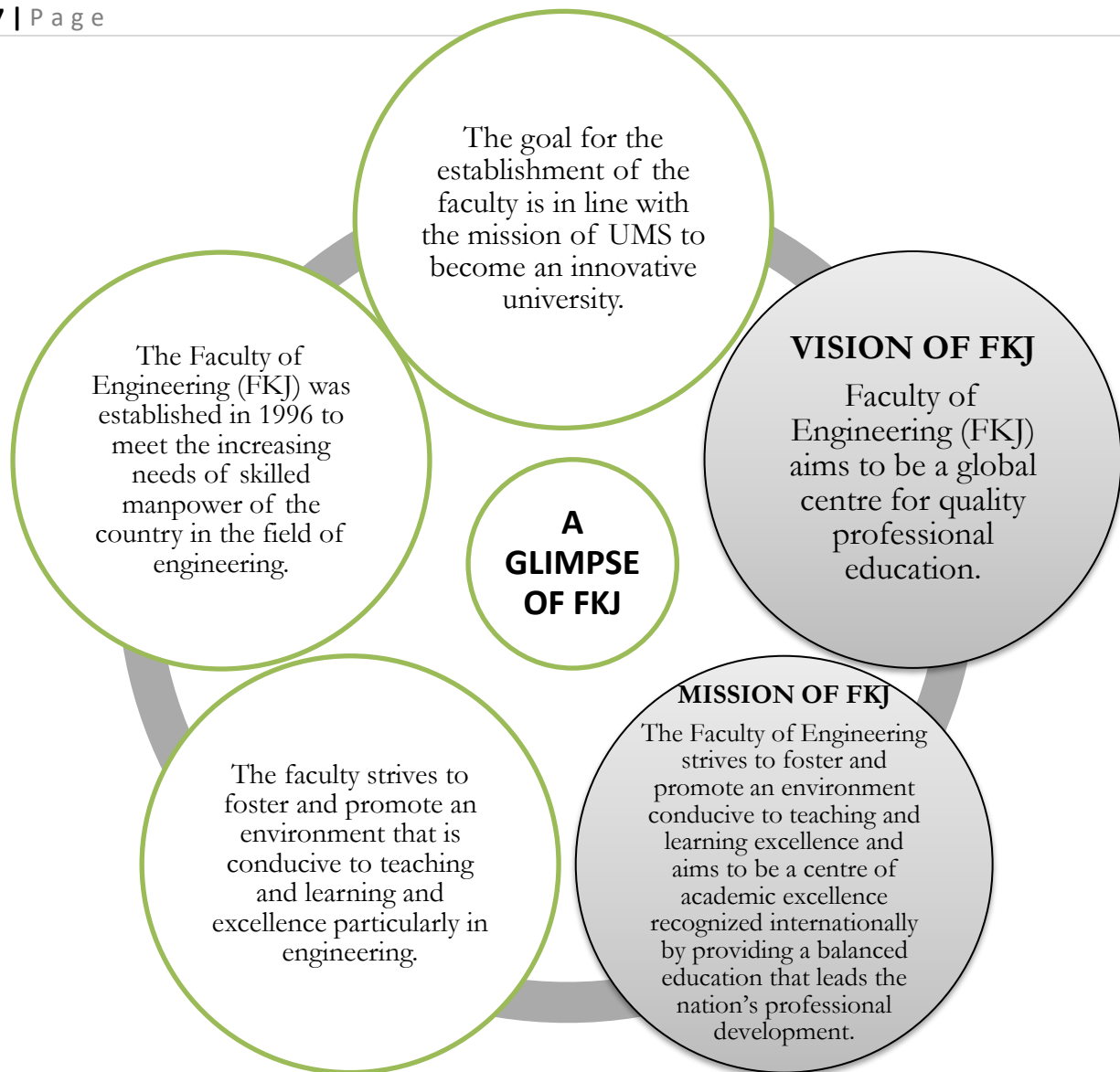


An Academic Advisor System exists at the University of which the Advisor is a lecturer assigned for the student. The Advisor can advise on matters mainly related to studies and also personal problems that are faced by the students. Students must meet their Advisor at least two times per semester preferably; i) at early semester, when selecting the courses to be taken, ii) at mid semester to review the ongoing performance and finalization of course registration. Meetings can be done individually or in group. All meeting outcomes must be recorded in this booklet.

EXTRA CURRICULAR ACTIVITIES, ACHIEVEMENT



Students are encouraged to record extracurricular and club activities, professional development programs attended and their achievements in this booklet to build up their resume and portfolio.



EDUCATION PHILOSOPHY

The vision of Universiti Malaysia Sabah is to strive to be an innovative university of global standing. To achieve this vision, the mission states that UMS strives to achieve academic excellence in various fields by gaining international recognition through learning and teaching, research and publication, social services and a balanced specialization of knowledge and personality development of students resulting in high productivity and quality in the context of the society and the nation. The philosophy of the Faculty of Engineering (FKJ) will therefore be in line with the university and the national education philosophy. All learning and teaching methods implemented in the Faculty are geared towards the academic excellence whilst grounded in practicality.

HK88 PROGRAMME AIMS

To be the world class oil and gas engineering programme in teaching and training students with the latest technology and engineering skills on both theoretical and practical aspects, and enabling them to become highly confident, creative, knowledgeable and capable engineers in problem solving.

PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

In consultation with its stakeholders, the Oil and Gas Engineering Programme at the Faculty of Engineering has set its programme educational objectives (PEO)

PEO 1: Professionalism

Graduate of the programme will establish themselves as practising professionals in oil and gas or related industries.

- ❖ The PEO1, professionalism is also referred to the attainment of competence or skill in practicing oil and gas engineering fields which is indicated from the oil and gas engineering job relevancy, position held as engineer and the salary range.

PEO 2: Continuous Professional Development

Graduate of the programme will pursue their career growth through advanced degrees, research and involvement in professional bodies.

- ❖ The PEO2, Continuous Professional Development (CPD) is described as the attainment in participation and involvement in professional bodies and courses (i.e. CPD Short courses and/or postgraduate courses) for self-competence and forefront knowledge).

PEO3: Corporate Societal Responsibility

Graduate of the programme will contribute to sustainable development through innovative technologies by mimicking natural processes to serve the needs of the society and the nation as a whole.

- In PEO3, the graduates are expected to bear the hallmark of innovation when engaging in the following activities: local projects, community services, knowledge/technology transfer (e.g. assessor for Field Development Project (FDP), assessor for FYP, mentoring), speaking engagement (Schools, Special lectures, Rotarians, etc.).

MAPPING THE PEO TO PO

There is a direct relationship between the POs and the PEO. As shown in Table 1, every PO is related to one or more PEO, and all PEO are supported by one or more PO.

Table 1: Mapping the PEO to PO

Programme Outcomes (POs)*	PEO		
	1	2	3
PO1: Engineering Knowledge	×		
PO2: Problem Analysis	×	×	
PO3: Design/Development of Solutions	×		×
PO4: Investigation	×		×
PO5: Modern Tool Usage	×	×	
PO6: The Engineer and Society	×		×
PO7: Environment & Sustainability		×	×
PO8: Professional Ethics	×		×
PO9: Individual and Team Work	×		
PO10: Communications	×	×	×
PO11: Project Management & Finance	×		×
PO12: Lifelong Learning		×	×

*The description of POs are shown in next page**

PROGRAMME OUTCOMES (PO)

In order to meet the obligations stated in the University and Faculty mission and vision statement, twelve Programme Outcomes (POs) are used. These Programme Outcomes are the specific skills and knowledge that our students are expected to have obtained at the time of their graduation from the programme as stipulated by the Engineering Accreditation Council (EAC), the delegated body by the Board of Engineers Malaysia (BEM) as the only recognized accrediting body for engineering degree programmes offered in Malaysia. Students graduating from the Oil and Gas Engineering Programme at Faculty of Engineering will be expected and prepared to exercise the skills and abilities listed below:

<p>PO1: Engineering Knowledge Apply knowledge of mathematics, science, engineering fundamentals and oil and gas principles to the solution of complex engineering problems.</p>	<p>PO2: Problem Analysis Identify, formulate, research literature and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.</p>	<p>PO3: Design/Development of Solution Design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.</p>	<p>PO4: Investigation Conduct investigation into complex problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.</p>	<p>PO5: Modern Tool Usage Instil modern computational techniques and tools which include prediction and modelling, to solve complex engineering activities, with an understanding of the limitations.</p>	<p>PO6: The Engineer and Society Act and respond to the societal, health, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice</p>	<p>PO7: Environment and Sustainability Understand and evaluate the impact of professional engineering work solutions in societal and environmental contexts and demonstrate knowledge of sustainable development;</p>	<p>PO8: Ethics Apply ethical principles and commit to professional ethics, responsibilities, and norms of engineering practice.</p>	<p>PO9: Individual and Team Work Function effectively as an individual, as a member or leader in diverse teams and in multi-disciplinary settings.</p>	<p>PO10: Communication Communicate effectively in written and oral modes on complex engineering activities to all levels of society.</p>	<p>PO11: Project Management and Finance Demonstrate knowledge and understanding of engineering and management and entrepreneurial principles to manage projects and in multidisciplinary environments.</p>	<p>PO12: Life Long Learning Recognize the need for and have the preparation and ability to engage in independent and life-long learning.</p>
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MAPPING THE COURSES TO PO

Table 2 shows the big-picture planning of the PO. The table shows how courses in the programme are linked to the PO.

TABLE 2: COURSES MAPPING TO PROGRAMME OUTCOMES

List	Code	Course Name	Program Outcome											
			EK	PA	DoS	I	MT	E&S	Env & Sus	PE	I & TW	Com	PM & F	LL
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	KG04403	Calculus	X											
2	KG12501	Engineering Workshop	X								X			
3	KG12903	Applied Mechanics	X	X							X			
4	KG12303	Introduction to Oil and Gas Engineering	X	X							X			
5	KG05503	Multivariable Calculus	X											
6	KG06603	Engineering Programming	X	X			X							
7	KG12403	Engineering Thermodynamic	X	X							X			
8	KG12603	Reservoir Rock and Fluid Properties	X	X										
9	KG22501	Laboratory I (Fluid and Thermodynamic)				X					X	X		
10	KG22503	Geoscience	X	X								X		
11	KG22903	Fluid Mechanics	X	X							X			
12	KG22303	Differential Equations	X											
13	KG22101	Laboratory II (Geoscience)				X					X	X		
14	KG22301	Geology Field Work	X	X							X	X		
15	KG22803	Engineering Design			X		X					X		
16	KG22802	Electrical Technology	X											
17	KG22203	Materials of Engineering	X	X								X		
18	KG22403	Geophysics	X	X							X			
19	KG22801	Laboratory III (Material Engineering)				X					X	X		
20	KG22603	Reservoir Engineering	X	X							X			
21	KG22401	Laboratory IV (Reservoir and Fluid Testing)				X					X	X		
22	KG08803	Ethics and Law for Engineers	X							X		X		
23	KG32703	Reservoir Simulation	X	X			X				X			

List	Code	Course Name	Program Outcome											
			EK	PA	DoS	I	MT	E&S	Env & Sus	PE	I & TW	Com	PM & F	LL
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
24	KG32503	Engineering Statistics	X											
25	KG32903	Process Control and Instrumentation	X	X			X			X				
26	KG32103	Drilling Engineering	X	X						X				
27	KG32101	Laboratory V (Drilling fluid)				X					X	X		
28	KG32403	Well Completion	X	X							X			
29	KG32203	Production Engineering	X	X							X			
30	KG32803	Formation Evaluation and Well Testing	X	X										
31	KG32603	Safety in Oil and Gas Engineering	X					X	X	X				
32	KG30005	Industrial Training		X	X	X	X	X	X	X	X	X		
33	KG09903	Management & Accounting for Engineers	X									X	X	
34	KG42703	Transport and Storage	X	X							X			
35	KG01202	Project 1	X	X						X		X	X	X
36	KG01204	Project 2	X	X	X	X	X	X	X	X		X	X	X
37	KG42102	Field Development Project 1	X	X	X	X	X	X	X	X	X	X	X	X
38	KG42404	Field Development Project 2	X	X	X	X	X	X	X	X	X	X	X	X
39	KG42303	Gas Engineering	X	X								X		
40	KG42503	Petroleum Economy	X		X		X					X		X

List	Code	Course Name	Program Outcome											
			EK	PA	DoS	I	MT	E&S	Env & Sus	PE	I & TW	Com	PM & F	LL
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Programme Elective Courses														
41	KG41103	Enhanced/ Improved Oil Recovery	X	X								X		
42	KG41303	Gas Transmission and Distribution system	X	X								X		
43	KG41503	Energy Management	X	X								X		
44	KG41703	Processing and Liquefaction	X	X								X		
45	KG42203	Deep Water Engineering	X	X								X		
46	KG42403	Gas Storage and Reticulation System	X	X								X		
47	KG42603	Reservoir Geomechanics	X	X								X		
48	KG42803	Offshore Structural Engineering	X	X								X		
49	KG43203	Renewable Energy	X	X								X		
50	KG43403	Electric Drive in oil and Gas industry	X	X								X		
51	KG43603	Combustion Technology	X	X								X		
52	KG43803	Corrosion Engineering	X	X								X		
		Total	45	36	6	9	11	5	5	9	20	30	5	5

SYMBOL

(X)– Essential course contributing to PO attainment

Legend

- PK – Problem Knowledge
- PA – Problem Analysis
- DoS – Design / Development of solution
- I – Investigation
- MT – Modern Tool
- E&T – Ethics and Society
- Env & Sus – Environment and Sustainability
- PE – Professional Ethics
- I & TW – Individual and Team Work
- Com – Communication
- PM & F – Project Management and Finance
- LL- Lifelong Learning

OIL AND GAS ENGINEERING (HK88) COURSE STRUCTURE FOR INTAKE 2020/2021

	Year 1		Year 2		Year 3		Year 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
UNIVERSITY CORE (PROMOTION OF KNOWLEDGE) (8 Credit Hours)	UW00702 Philosophy and Contemporary Issues (FIS) (local)/ UW00502 Malay Language for Communication II (BMK II) (international) (2 Credit Hours)	UW00802 Appreciation of Ethics and Civilizations (PEDP) (local)/ UW00702 Philosophy and Contemporary Issues (FIS) (International) UCXXX02 (Choose 1 UC Only) (4 Credit Hours)	UW00302 Fundamentals Of Entrepreneurial Acculturation (2 Credit Hours)					
UNIVERSITY CORE LANGUAGE (8 Credit Hours)	UB00202 Oral Communication in English/ UB06002 English for Creative Communication (2 Credit Hours)	UB01002 Essential Communication Skills/ UB00402 Academic Reading & Writing (2 Credit Hours)	UB00702 English for Occupational Purposes /UB02002 English For Employment (2 Credit Hours)	UB00302 Reading & Writing in English/ UB00502 English for Research Purposes (2 Credit Hours)				
UNIVERSITY CORE CO-CURRICULUM (3 Credit Hours)	EXXXX3 Co-Curriculum (3 Credit Hours)							
PROGRAMME CORE	KG04403 Calculus KG12501 Engineering Workshop KG12903 Applied Mechanics KG12303 Introduction to Oil and Gas Engineering	KG05503 Multivariable Calculus KG06603 Engineering Programming KG12403 Engineering Thermodynamics KG12603 Reservoir Rock and Fluid Properties	KG22903 Fluid Mechanics KG22303 Differential Equations KG22501 Laboratory I KG22101 Laboratory II KG22301 Geology Field Work	KG22203 Materials of Engineering KG22403 Geophysics KG22801 Laboratory III KG22401 Laboratory IV KG22802 Electrical Technology KG22603 Reservoir Engineering	KG08803 Ethics and Law for Engineers KG32101 Laboratory V KG32103 Drilling Engineering KG32503 Engineering Statistics KG32703 Reservoir Simulation	KG09903 Management & Accounting for Engineers KG32203 Production Engineering KG32403 Well Completion KG32603 Safety in Oil and Gas Engineering KG32803 Formation Evaluation and Well Testing	KG01202 Project I KG42102 Field Development Project I KG42703 Transport and Storage KG42303 Gas Engineering KG42503 Petroleum Economy	KG01204 Project II KG42404 Field Development Project II

	Year 1		Year 2		Year 3		Year 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
(107 Credit Hours)	(10 Credit Hours)	(12 Credit Hours)	KG22503 Geoscience (12 Credit Hours)	KG22803 Engineering Design (16 Credit Hours)	KG32903 Process control and instrumentation (16 Credit Hours)	KG30005 Industrial Training (20 Credit Hours)	(13 Credit Hours)	(8 Credit Hours)
MINOR / ELECTIVES (9 Credit Hours)							KG4xxx3 Elective I (3 Credit Hours)	KG4xxx3 Elective II KG4xxx3 Elective III (6 Credit Hours)
TOTAL CREDIT HOURS (135 Credit Hours)	17	18	16	18	16	20	16	14

Elective Scheme: Choose from the following groups. All subjects are stand-alone and maybe offered in any elective of I, II or III.

	ELECTIVE I	ELECTIVE II	ELECTIVE III
Option 1	KG41103 Enhanced/ Improved Oil Recovery	KG42203 Deep Water Engineering	KG43203 Renewable Energy
Option 2	KG41303 Gas Transmission and Distribution system	KG42403 Gas Storage and Reticulation System	KG43403 Electric Drive in oil and Gas Industry
Option 3	KG41503 Energy Management	KG42603 Reservoir Geomechanics	KG43603 Combustion Technology
Option 4	KG41703 Processing and Liquefaction	KG42803 Offshore Structural Engineering	KG43803 Corrosion Engineering

STRUKTUR KURIKULUM KEJURUTERAAN MINYAK DAN GAS PENGAMBILAN 2020/2021

	TAHUN 1		TAHUN 2		TAHUN 3		TAHUN 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
TERAS UNIVERSITI (PENATARAN ILMU) (8 Jam Kredit)	UW00702 Falsafah dan Isu Semasa (FIS) (tempatan)/ UW00502 Bahasa Melayu komunikasi II (BMK II) (antarabangsa) (2 Jam Kredit)	UW00802 Penghayatan Etika Dan Peradaban (PEDP) (local)/ UW00702 Falsafah dan Isu Semasa (FIS) (antarabangsa) UCXXX02 (Pilih 1 UC sahaja) (4 Jam Kredit)	UW00302 Asas Keusahawanan Akulturasi (2 Jam Kredit)					
TERAS UNIVERSITI (BAHASA) (8 Jam Kredit)	UB00202 Oral Communication in English/ UB06002 English for Creative Communication (2 Credit Hours)	UB01002 Essential Communication Skills/ UB00402 Academic Reading & Writing (2 Credit Hours)	UB00702 English for Occupational Purposes / UB02002 English For Employment (2 Credit Hours)	UB00302 Reading & Writing in English/ UB00502 English for Research Purposes (2 Credit Hours)				
KOKUM (3 Jam Kredit)	EXXXX3 Ko-Kurikulum (3 jam kredit)							
TERAS PROGRAM	KG04403 Kalkulus KG12501 Bengkel Kejuruteraan KG12903 Mekanik Gunaan KG12303 Pengenalan Kepada Kejuruteraan Minyak dan Gas	KG05503 Kalkulus Pelbagai Pembolehubah KG06603 Pengaturcaraan Kejuruteraan KG12403 Termodinamik Kejuruteraan KG12603 Sifat-Sifat Batuan dan Bendalir Reservoir	KG22903 Mekanik Bendalir KG22303 Persamaan Pembezaan KG22501 Makmal I KG22101 Makmal II KG22301 Kerja Lapangan Geologi KG22503 Geosains	KG22203 Kejuruteraan Bahan KG22403 Geofizik KG22801 Makmal III KG22401 Makmal IV KG22802 Teknologi Elektrik KG22603 Kejuruteraan Reservoir	KG08803 Etika dan Perundangan untuk Jurutera KG32101 Makmal V KG32103 Kejuruteraan Penggerudian KG32503 Statistik Kejuruteraan KG32703 Simulasi Reservoir	KG09903 Pengurusan & Perakaunan untuk Jurutera KG32203 Kejuruteraan Pengeluaran KG32403 Kelengkapan Telaga KG32603 Keselamatan dalam Kejuruteraan Minyak dan Gas KG32803 Penilaian Formasi dan Pengujian Telaga	KG01202 Projek I KG42102 Projek Pembangunan Lapangan I KG42703 Pengangkutan dan Storan KG42303 Kejuruteraan Gas KG42503 Ekonomi Petroleum	KG01204 Projek II KG42404 Projek Pembangunan Lapangan II

	TAHUN 1		TAHUN 2		TAHUN 3		TAHUN 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
(107 Jam Kredit)	(10 Jam Kredit)	(12 Jam Kredit)	(12 Jam Kredit)	KG22803 Rekabentuk Kejuruteraan (16 Jam Kredit)	KG32903 Kawalan Proses dan Instrumentasi (16 Jam Kredit)	KG30005 Latihan Industri (20 Jam Kredit)	(13 Jam Kredit)	(8 Jam Kredit)
MINOR / ELEKTIF (9 Jam Kredit)							KG4xxx3 Elektif I (3 Jam Kredit)	KG4xxx3 Elektif II KG4xxx3 Elektif III (6 Jam Kredit)
JUMLAH KESELURUHAN JAM KREDIT (135 Jam Kredit)	17	18	16	18	16	20	16	14

Skim Elektif: Sila pilih daripada kumpulan berikut. Semua kursus adalah berdiri sendiri dan mungkin akan ditawarkan dalam mana-mana kumpulan Elektif I, II dan III.

	ELEKTIF I	ELEKTIF II	ELEKTIF III
Pilihan 1	KG41103 Perolehan Minyak Tertingkat	KG42203 Kejuruteraan Air Dalam	KG43203 Tenaga Boleh Diperbaharui
Pilihan 2	KG41303 Sistem Penghantaran dan Pengagihan Gas	KG42403 Sistem Storan dan Retikulasi Gas	KG43403 Pacuan Elektrik dalam Industri Minyak dan Gas
Pilihan 3	KG41503 Pengurusan Tenaga	KG42603 Geomekanik Reservoir	KG43603 Teknologi Pembakaran
Pilihan 4	KG41703 Pemprosesan dan PENCECAIRAN	KG42803 Kejuruteraan Struktur Luar Pantai	KG43803 Kejuruteraan Kakisan

ACADEMIC RECORDS

CODE	COURSE	CREDIT HOURS	GRADE		
			ATTEMPT 1	ATTEMPT 2	ATTEMPT 3
UW00702	Philosophy and Contemporary Issues (FIS)	2			
UW00502	Malay Language for communication	2			
UW00802	Appreciation of Ethics and Civilizations (PEDP)	2			
UW00302	Fundamentals Of Entrepreneurial Acculturation	2			
UB00202/ UB06002	Oral Communication in English/ English for Creative Communication	2			
UB01002/ UB00402	Essential Communication Skills/ Academic Reading & Writing	2			
UB00702/ UB02002	English for Occupational purposes/English For Employment	2			
UB00302/ UB00502	Reading & Writing in English/ English for Research Purposes	2			
Exxxx3	Co-Curriculum	3			
KG04403	Calculus	3			
KG12501	Engineering Workshop	1			
KG12903	Applied Mechanics	3			
KG12303	Introduction to Oil and Gas Engineering	3			
UW00102	Ethnic Relations	2			
UCxxx02	(Students' Choice)	2			
UB01002/ UB00402	Essential Communication Skills / Academic Reading and Writing	2			
KG05503	Multivariable Calculus	3			
KG06603	Engineering Programming	3			
KG12403	Engineering Thermodynamics	3			
KG12603	Reservoir Rock and Fluid Properties	3			
KG22903	Fluid Mechanics	3			
KG22303	Differential Equations	3			
KG22501	Laboratory I	1			
KG22301	Geology Field Work	1			
KG22101	Laboratory II	1			

CODE	COURSE	CREDIT HOURS	GRADE		
			ATTEMPT 1	ATTEMPT 2	ATTEMPT 3
KG22503	Geoscience	3			
UB00302/ UB00502	Reading and Writing in English/ English for Research Purposes	2			
KG22802	Electrical Technology	2			
KG22203	Materials of Engineering	3			
KG22403	Geophysic	3			
KG22603	Reservoir Engineering	3			
KG22801	Laboratory III	1			
KG22401	Laboratory IV	1			
KG22803	Engineering Design	3			
KG08803	Ethics and Law for Engineers	3			
KG32101	Laboratory V	1			
KG32503	Engineering Statistics	3			
KG32703	Reservoir Simulation	3			
KG32903	Process Control and Instrumentation	3			
KG32103	Drilling Engineering	3			
KG09903	Management & Accounting for Engineers	3			
KG32403	Well Completion	3			
KG32203	Production Engineering	3			
KG32603	Safety in Oil and Gas Engineering	3			
KG32803	Formation Evaluation and Well Testing	3			
KG30005	Industrial Training	5			
KG01202	Project I	2			
KG42102	Field Development Project I	2			
KG42703	Transport and Storage	3			
KG42303	Gas Engineering	3			
KG4xxx3	Elective I	3			
KG42503	Petroleum Economy	3			
KG01204	Project II	4			
KG42404	Field Development Project II	4			
KG4xxx3	Elective II	3			
KG4xxx3	Elective III	3			

ACADEMIC ADVISOR RECORDS

SEMESTER ONE: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____

CGPA: _____

Date	Meeting Outcomes	AA Signature

SEMESTER TWO: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____

CGPA: _____

Date	Meeting Outcomes	AA Signature

SEMESTER THREE: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____

CGPA: _____

Date	Meeting Outcomes	AA Signature

SEMESTER FOUR: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____

CGPA: _____

Date	Meeting Outcomes	AA Signature

SEMESTER FIVE: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____

CGPA: _____

Date	Meeting Outcomes	AA Signature

SEMESTER SIX: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____

CGPA: _____

Date	Meeting Outcomes	AA Signature

SEMESTER SEVEN: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____

CGPA: _____

Date	Meeting Outcomes	AA Signature

SEMESTER EIGHT: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____

CGPA: _____

Date	Meeting Outcomes	AA Signature

SEMESTER NINE: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____

CGPA: _____

Date	Meeting Outcomes	AA Signature

SEMESTER TEN: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____

CGPA: _____

Date	Meeting Outcomes	AA Signature

SEMESTER ELEVEN: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____

CGPA: _____

Date	Meeting Outcomes	AA Signature

SEMESTER TWELVE: Student must meet their Academic Advisor (AA) at least TWO times per semester

GPA: _____

CGPA: _____

Date	Meeting Outcomes	AA Signature

Any activities that contribute to the attainment of Program Outcomes related to communication, values, volunteering, team work and other soft skills.

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[illegible]

PROFESSIONAL DEVELOPMENT RECORDS

Any programs, talks or short courses that contribute to the attainment of Program Outcomes related to technical knowledge or professional skills

[illegible]

AWARDS

Recognition or acknowledgment of their achievements

[illegible]