



جامعة السلطان الشريف علي الإسلامية
UNIVERSITI ISLAM SULTAN SHARIF ALI



FACULTY OF AGRICULTURE

UNDERGRADUATE PROGRAMME HANDBOOK



2022/2023

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



جامعة السلطان الشريف علي الإسلامية
UNIVERSITI ISLAM SULTAN SHARIF ALI
SULTAN SHARIF ALI ISLAMIC UNIVERSITY

FACULTY OF AGRICULTURE
UNDERGRADUATE PROGRAMME
HANDBOOK
2022/2023

Prepared by:
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TABLE OF CONTENTS

TABLE OF CONTENTS	vi-vii
FOREWORD	1-2
ABOUT US	3
VISION, MISSION AND OBJECTIVES	4
ORGANISATIONAL STRUCTURE	5
STAFF DIRECTORY	6-10
ACADEMIC CALENDAR	11
PROGRAMME OFFERED & PROGRAMME STRUCTURE	12-18
1. P001 – BACHELOR OF SCIENCE IN AGRICULTURE (AGRIBUSINESS)	12-14
2. P001 – BACHELOR OF SCIENCE IN AGRICULTURE (AGROTECHNOLOGY)	15-17
3. P101 – AGRICULTURE BRIDGING CERTIFICATE PROGRAM	18
COURSES DESCRIPTION	19-65
1. UNIVERSITY REQUIRED COURSES (URCs)	19-25
2. FACULTY REQUIRED COURSES (FRCs)	26-30
3. PROGRAMME REQUIRED COURSES (PRCs)	31-65

MINOR PROGRAMME	66-99
1. FACULTY OF USULUDDIN	66-70
2. FACULTY OF SHARIAH AND LAW	71-75
3. FACULTY OF ARABIC LANGUAGE	76-78
4. FACULTY OF ISLAMIC ECONOMIC AND FINANCE	79-83
5. FACULTY OF ISLAMIC DEVELOPMENT MANAGEMENT	84-90
6. HALALAN THAYYIBAN RESEARCH CENTRE	91-95
7. FACULTY OF ISLAMIC TECHNOLOGY	96-99

Foreword

بسم الله الرحمن الرحيم

السلام عليكم ورحمة الله وبركاته

الحمد لله رب العالمين، والصلاة والسلام على أشرف الأنبياء والمرسلين

وعلى آله وصحبه أجمعين، أما بعد



Alḥamdulillāh, all praises and thanks be to Allāh Subḥānahu wa Ta'ālā for His Blessings that has given me the opportunity to convey my greetings in this Undergraduate Programme Handbook 2022/23.

The Faculty of Agriculture (FoA) has been growing ever since its establishment on 28th January 2021. Bachelor of Science in Agriculture (Agribusiness) was initially offered and the current students are into their 2nd year. In addition, Bachelor of Science in Agriculture (Agrotechnology) shall be offered for academic session 2023/2024 too.

In this post-pandemic era, the areas of food security and self-sufficiency are at the heart of focus to be in-line with Brunei Darussalam's national goal to further increase the country's productivity through innovation. I believe there are exciting times ahead for agriculture and natural resources in terms of the opportunities in which we have to address in a sustainable manner.

This Handbook is published by FoA, Universiti Islam Sultan Sharif Ali (UNISSA) in order to convey information on academic

matters relating to the undergraduate programme offered by the Faculty. With this publication, it is hoped that the students, staff and the public especially can have access to the structures of the programme expected to be offered throughout their studies at UNISSA.

On this occasion, I would like to express my sincere gratitude to all parties involved in the preparation of this handbook. I am humbled and honored to lead the faculty as I look forward to working with the talented team here. I look forward to listening and learning as well as to achieve our shared vision for the Faculty of Agriculture in providing Agricultural education and research based on Islamic principles for the development of the agriculture sector. With all the efforts that we have put in, I pray that Allāh Subḥānahu wa Ta'ālā will reward us. Āmīn yā Rabbal 'Ālamīn.

وبالله التوفيق والهدايه
والسلام عليكم ورحمة الله وبركاته

Assistant Professor Dr Cristalina Jalil Marsal
Dean Faculty of Agriculture
Universiti Islam Sultan Sharif Ali

About Us

In an effort to uphold the *titah* of His Majesty the Sultan and Yang Di-Pertuan of Brunei Darussalam, UNISSA has worked towards the establishing and implementing the Agriculture Faculty with the appointment of agricultural specialists from among UNISSA academicians as well as from outside UNISSA, consisting of visiting academicians and practitioners.

During the Aidilfitri Celebration 1440H/2019 organized by Yayasan Sultan Haji Hassanal Bolkiah at Plenary Hall, International Convention Centre, Berakas, His Majesty said:

“In the period of 20 years from 1998 until 2017, the output of the agricultural sector, agri-food and fishery is encouraging.”

“This positive development indicates that opportunities to develop this sector are widely open. Even more so with the geographical conditions of this country receiving rain, permitting weather and lands still unexplored. All that remains is our effort and commitment to develop this sector.”

His Majesty also said to continue to improve the agricultural sector, productivity, use of advanced technology and to provide an orderly ecosystem and one of the important elements according to His Majesty that needs to be given attention is human resources, especially youths to be active in plantation or livestock activities.

“Thus, in this direction, I call upon the youths to appear as the main force in the country’s agricultural industry. My government has been and is currently implementing several initiatives to help the growth of this sector.”

Apart from that, His Majesty also paid serious attention towards the importance of the agricultural sector in the country as well as the role of educational institutions to also contribute to the development of agro-based industries. His Majesty's concern can be seen from a series of His Majesty's *titah* on the importance of agriculture. The culmination was the establishment of the Faculty of Agriculture at UNISSA in a *titah* during an unscheduled visit to UNISSA on 12 October 2020. He said:

“Wouldn’t it be appropriate if UNISSA set up a new faculty called the Faculty of Agriculture because I understand that similar knowledge of Agriculture and Animal Husbandry is also found in Islam.”

“So, I see that although we have yet to have a Centre of Higher Education for Agriculture, having a Faculty of Agriculture is just as sufficient.”

Thereupon, UNISSA officially set up its agriculture faculty on 28th January 2021 and named it as Faculty of Agriculture.

Vision

To be a centre of excellence of international standard in providing agricultural education and research based on Islamic principles for the development of agriculture sector.

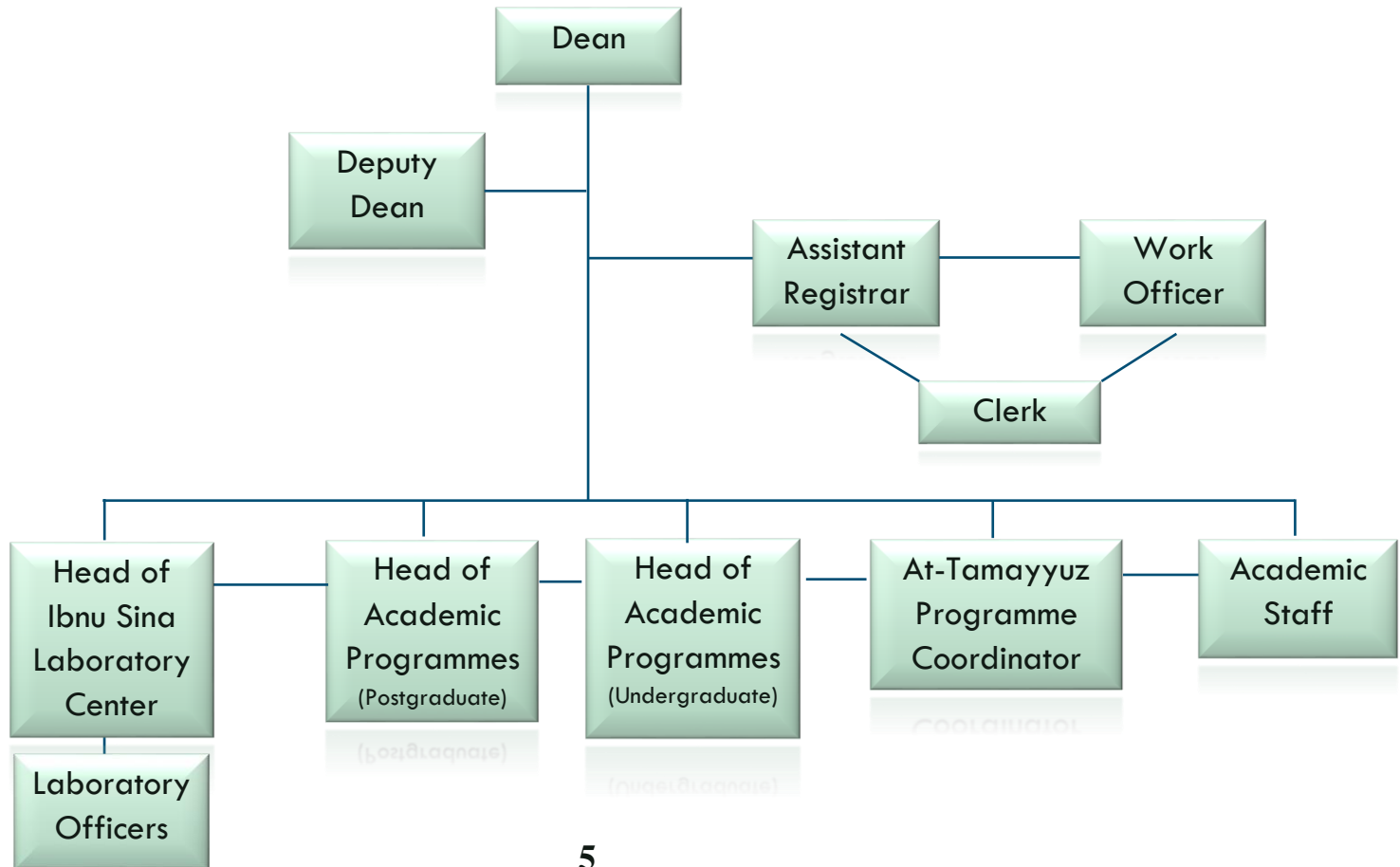
Mission

To produce virtuous, knowledgeable and highly skilled graduates in the field of agriculture in accordance to current technologies and needs.

Objectives

- ☞ To produce knowledgeable and skilled graduates in the field of agriculture based on the teachings of the Qur'an and Sunnah.
- ☞ To produce agriculture graduates who are critical thinkers and innovative in applying agricultural knowledge to develop the Ummah, industry and country.
- ☞ To train and produce competent agriculture graduates who can channel knowledge effectively to the community.
- ☞ To enable students to play a role in developing the field of agriculture based on the latest technology and identify entrepreneurial opportunities that can be contribute to the development of the country's agricultural industry.

ORGANISATIONAL STRUCTURE



STAFF DIRECTORY



DEAN & ASSISTANT PROFESSOR

Dr Cristalina Jalil Marsal

Educational Background

- PhD in Nutritional Sciences on the Investigation of the Physical-Chemical and Functional Properties of Fish Gelatin from Sustainable Warm-Water Fish (Tilapia), University of Surrey (United Kingdom)
- Master of Science in Food Science & Technology, Victoria University of Technology (Australia)

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DEPUTY DEAN & LECTURER

Dr Nur Thaqqifah Salihah Binti Haji Mohd Salleh

Educational Background

- PhD in Chemistry, Universiti Brunei Darussalam (UBD), Brunei Darussalam.
- Master of Chemistry in Forensic and Investigative Chemistry, Forensic and Investigative Chemistry, University of East Anglia, United Kingdom.

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HEAD OF POSTGRADUATE & PROFESSOR

Prof. Dr. Ahmed Jalal Khan Chowdhury

Educational Background

- PhD in Aquaculture and Management: University Putra Malaysia.
- MS (Fish Eco-Biology): University Putra Malaysia
- Post Graduate Specialization (Fisheries Planning, Extension and Management): Institute of Aquaculture, University of Stirling, Scotland, UK.
- Diploma (Islamic Revealed Knowledge): International Islamic University Malaysia
- BSc. Fisheries (Hons): Bangladesh Agricultural University Mymensingh.
- Professional Certificate for Halal Executive (PCHE), University Technology Malaysia.

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HEAD OF UNDERGRADUATE, AT-TAMAYYUZ COORDINATOR & ASSISTANT LECTURER

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Educational Background

- Master of Development Studies, University of Melbourne, Australia
- Bachelor (Hons) in Economics – Minor in Islamic Banking and Finance, Universiti Brunei Darussalam (UBD), Brunei Darussalam.

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**HEAD OF IBNU SINA LABORATORY
CENTRE & PROFESSOR**

Prof. Dr. Ahmed Osumanu Haruna

Educational Background

- PhD in Soil Fertility and Management (University Putra Malaysia)
- Master of Agricultural Science in Soil Fertility and Biosystems Management (University Putra Malaysia)
- Master of Library and Information Science (International Islamic University Malaysia)
- Bachelor of Agricultural Science (University of Ghana)

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LECTURER

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Educational Background

- PhD in Biomedical Science (Universiti Brunei Darussalam)
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PROGRAMME OFFERED

P001 – BACHELOR OF SCIENCE IN AGRICULTURE (AGRIBUSINESS)

Brief Profile	This programme provides a strong core curriculum in providing student with a strong foundation of Agricultural knowledge based on the teachings of the Qur'an and the Sunnah. It is designed to provide students with a specialist knowledge set and skills that arise out of combining the sciences of agriculture and business based on the latest technology. This programme aims to produce highly trained graduates who can contribute towards the improvement of the country's agricultural industry, the Ummah and the nation.
Mode and Duration of Study	Full-time basis – 4 years
Medium	English
Tuition Fee	BND 14,000.00
Intake	August

PROGRAMME STRUCTURE

Programme Bachelor of Science in Agriculture (Agribusiness)

Code G001

Faculty Faculty of Agriculture (FoA)

Medium English

YEAR 1 SEM 1											
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices
1	UT1120	Al-Qur'an Al-Karim I	0	1	1	Eng	40	60	URC	Mnd	
2	PG1112	Co-Curriculum I	0	2	0	NA	100	0	URC	Mnd	
3	PG1103	English for Business	2	3	0	Eng	50	50	URC	Mnd	
4	PG1106	Information and Communication Technology	3	1	2	Eng	70	30	URC	Mnd	
5	LS1202	Fiqh Al- Ibadat	3	2	1	Eng	40	60	FRC	Mnd	
6	AA1204	Arabic I	2	3	0	Eng	50	50	FRC	Mnd	
7	GB1201	Introduction to Agribusiness	3	2	1	Eng	60	40	PRC	Mnd	
8	GB1202	Fundamental of Agriculture	3	3	0	Eng	60	40	PRC	Mnd	
Total			Courses: 8	CHrs	16	Cont. Hrs: 22			Workload : 48		

YEAR 1 SEM 2											
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices
1	UT1120	Al-Qur'an Al-Karim I	1	1	1	Eng	40	60	URC	Mnd	
2	PG1112	Co-Curriculum I	1	2	0	NA	100	0	URC	Mnd	
3	PG1120	MIB (For Malay Speakers)	3	2	1	Mal	40	60	URC	Mnd	
4	PG1121	Brunei Studies (For Non-Malay Speakers)	3	1	2	Eng	70	30	URC	Mnd	
4	AA1208	Arabic II	2	2	1	Arb	50	50	FRC	Mnd	
5	GB1203	Agronomy and Animal Husbandry	3	3	0	Eng	60	40	PRC	Mnd	
6	GB1204	Agricultural Microeconomics	3	2	1	Eng	40	60	PRC	Mnd	
7	GB1205	Agriculture in Islam	3	2	1	Eng	60	40	PRC	Mnd	
Total			Courses: 7	CHrs	16	Cont. Hrs: 19			Workload = 48		

YEAR 2 SEM 1											
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices
1	UT2121	Al-Qur'an Al-Karim II	0	0	1	Eng	40	60	URC	Mnd	
2	PG2122	Co-Curriculum II	0	2	0	NA	100	0	URC	Mnd	
3	UA2224	Islamic Ethics	3	2	1	Eng	40	60	URC	Mnd	
4	CH2105	Islamic History and Civilisation	3	2	1	Eng	40	60	FRC	Mnd	
5	UT2226	Quranic And Hadith Sciences	3	2	1	Eng	40	60	FRC	Mnd	
6	GB2201	Agricultural Macroeconomics	3	2	1	Eng	40	60	PRC	Mnd	
7	GB2202	Farm Management	3	2	1	Eng	60	40	PRC	Mnd	
8	GB2203	Introduction to Accounting and Finance in Agriculture	3	2	1	Eng	40	60	PRC	Mnd	
Total			Courses: 8	CHrs	18	Cont. Hrs: 21			Workload : 54		

YEAR 2 SEM 2											
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices
1	UT2121	Al-Qur'an Al-Karim II	1	0	1	Eng	40	60	URC	Mnd	
2	PG2122	Co-Curriculum II	1	2	0	NA	100	0	URC	Mnd	
3	LS2102	Islamic Legal System	3	2	1	Eng	40	60	URC	Mnd	
4	UA2125	Aqidah Ahli Al-Sunnah Wa Al-Jama'ah	3	3	0	Eng	40	60	URC	Mnd	
5	GB2204	Agri-food Business	3	2	1	Eng	40	60	PRC	Mnd	
6	GB2205	Agriculture Production System	3	3	0	Eng	60	40	PRC	Mnd	
7	GB2206	Smart Farming	3	3	0	Eng	40	60	PRC	Mnd	

Total	Courses: 7	CHrs	17	Cont. Hrs: 18	Workload : 51
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YEAR 3 SEM 1											
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices
1	UT3122	Al-Qur'an Al-Karim III	0	0	1	Eng	40	60	URC	Mnd	
2	BB3105	Entrepreneurship	3	3	0	Eng	60	40	URC	Mnd	
3	GB3201	Agricultural and Digital Marketing	3	2	1	Eng	40	60	PRC	Mnd	
4	GB3202	Agribusiness Management	3	2	1	Eng	40	60	PRC	Mnd	
5	GB3203	Statistics in Agribusiness	3	2	1	Eng	40	60	PRC	Mnd	
6	GB3204	Export Marketing and Practices	3	2	1	Eng	40	60	PRC	Mnd	
7	GB3205	Food Security and Biosecurity in Agriculture	3	2	1	Eng	40	60	PRC	Mnd	
Total	Courses: 7	CHrs	18	Cont. Hrs: 19	Workload : 54						

YEAR 3 SEM 2											
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices
1	UT3122	Al-Qur'an Al-Karim III	1	0	1	Eng	40	60	URC	Mnd	
2	PG3216	Web Design	3	1	2	Eng	70	30	FRC	Opt	1 of 3
3	PG3217	Applied Multi Media	3	2	1	Eng	40	60	PRC	Mnd	
4	PG3218	Database Applications	3	2	1	Eng	40	60	PRC	Mnd	
5	GB3206	Currents Trends in Agricultural Markets	3	2	1	Eng	40	60	PRC	Mnd	
6	GB3207	Introduction to Brunei Agri-food and Agribusiness System	3	2	1	Eng	40	60	PRC	Mnd	
7	GB3208	Supply Chain Management in Agriculture	3	2	1	Eng	40	60	PRC	Mnd	
8	GB3209	Accounting for Decision Making	3	2	1	Eng	40	60	PRC	Mnd	
Total	Courses: 8	CHrs	16	Cont. Hrs: 16	Workload : 48						

YEAR 3 SEM 3											
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices
1	PG3324	Industrial Training	6	0	0	Eng	100	0	PRC	Mnd	
Total	Courses: 1	CHrs	6	Cont. Hrs: 0	Workload : 18						

YEAR 4 SEM 1											
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices
1	UT4123	Al-Qur'an Al-Karim IV	0	0	1	Eng	40	60	URC	Mnd	
2	LB4305	Business Law	3	2	1	NA	60	40	PRC	Mnd	
3	GB4201	Agricultural Business Risk and Investment	3	2	1	Eng	50	50	PRC	Mnd	
4	GB4202	Research Method for Agribusiness	3	2	1	Eng	60	40	PRC	Mnd	
5	GB4203	Agribusiness Investment Project Appraisal	0	0	0	Eng	0	0	PRC	Mnd	
6	GB4204	International Agricultural Trade	3	2	1	Eng	40	60	PRC	Mnd	
Total	Courses: 6	CHrs	12	Cont. Hrs: 13	Workload : 36						

YEAR 4 SEM 2											
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices
1	UT4123	Al-Qur'an Al-Karim IV	1	0	1	Eng	40	60	URC	Mnd	
2	GB4203	Agribusiness Investment Project Appraisal	6	0	0	Eng	0	100	PRC	Mnd	
3	GB4205	Sustainable Agriculture	3	2	1	Eng	40	60	PRC	Mnd	
Total	Courses: 3	CHrs	10	Cont. Hrs: 4	Workload : 30						

Grand Total	Courses: 46	CHrs: 129	Cont. Hrs: 132	Workload: 387
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Type	Courses Count	%	Credit Hrs	%	Contact Hrs	%
URC	13	28	26	20	39	29
FRC	6	13	16	12	18	14
PRC	27	59	87	68	75	57
TOTAL	46	100	129	100	132	100

PROGRAMME OFFERED

P001 – BACHELOR OF SCIENCE IN AGRICULTURE (AGROTECHNOLOGY)

Brief Profile	This program is necessary to enhance learning, knowledge and skills in the field of agriculture in line with the era of industrial revolution 4.0 national needs and developments at the international level. This is to meet the needs of the country and preparation towards Brunei Vision 2035. Studies in agriculture aim to train aspects of research and innovation as well as towards the improvement and progress of the country's agricultural sector and industry.
Mode and Duration of Study	Full-time basis – 4 years
Medium	English
Tuition Fee	BND 14,000.00
Intake	August

PROGRAMME STRUCTURE

Programme	Bachelor of Science in Agriculture (Agrotechnology)
Code	P001
Faculty	Faculty of Agriculture (FoA)
Medium	English

YEAR 1 SEM 1												
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices	
1	UT1120	Al-Qur'an Al-Karim I	0	1	1	Eng	40	60	URC	Mnd		
2	PG1112	Co-Curriculum I	0	2	0	NA	100	0	URC	Mnd		
3	PG1103	English for Business	2	3	0	Eng	50	50	URC	Mnd		
4	PG1106	Information and Communication Technology	3	1	2	Eng	70	30	URC	Mnd		
5	LS1202	Fiqh Al Ibadat	3	2	1	Eng	40	60	FRC	Mnd		
6	AA1204	Arabic I	2	3	0	Arb	50	50	FRC	Mnd		
7	GB1201	Introduction to Agribusiness	3	2	1	Eng	60	40	PRC	Mnd		
8	GB1202	Fundamental of Agriculture	3	3	0	Eng	60	40	PRC	Mnd		
9	GTXXXX	Environment, soil and agriculture	3	2	1	Eng	40	60	PRC	Mnd		
Total		Courses: 9	CHrs	19	Cont. Hrs: 25			Workload : 57				

YEAR 1 SEM 2											
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices
1	UT1120	Al-Qur'an Al-Karim I	1	1	1	Eng	40	60	URC	Mnd	

2	PG1112	Co-Curriculum I	1	2	0	NA	100	0	URC	Mnd	
3	PG1120	MIB (For Malay Speakers)	3	2	1	Mal	40	60	URC	Mnd	1 of 2
4	PG1121	Brunei Studies (For Non-Malay Speakers)		1	2	Eng	70	30	URC	Mnd	
4	AA1208	Arabic II	2	2	1	Arb	50	50	FRC	Mnd	
5	GTXXXX	Agricultural Botany	3	2	1	Eng	60	40	PRC	Mnd	
6	GTXXXX	Applied Animal Science	3	2	1	Eng	60	40	PRC	Mnd	
7	GTXXXX	Agricultural Economics	3	2	1	Eng	60	40	PRC	Mnd	
8	GB1205	Agriculture in Islam	3	2	1	Eng	60	40	FRC	Mnd	
Total			Courses: 8	CHrs	19	Cont. Hrs: 22	Workload = 57				

YEAR 2 SEM 1											
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices
1	UT2121	Al-Qur'an Al-Karim II	0	0	1	Eng	40	60	URC	Mnd	
2	PG2122	Co-Curriculum II	0	2	0	NA	100	0	URC	Mnd	
3	UA2224	Islamic Ethics	3	2	1	Eng	40	60	URC	Mnd	
4	CH2105	Islamic History and Civilisation	3	2	1	Eng	40	60	FRC	Mnd	
5	UT2226	Quranic And Hadith Sciences	3	2	1	Eng	40	60	FRC	Mnd	
6	GTXXXX	Fundamentals of Soil Science	3	2	1	Eng	60	40	PRC	Mnd	
7	GB2202	Farm Management	3	2	1	Eng	60	40	PRC	Mnd	
8	GTXXXX	Applied Crop Science	3	2	1	Eng	60	40	PRC	Mnd	
Total			Courses: 8	CHrs	18	Cont. Hrs: 21	Workload : 54				

YEAR 2 SEM 2											
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices
1	UT2121	Al-Qur'an Al-Karim II	1	0	1	Eng	40	60	URC	Mnd	
2	PG2122	Co-Curriculum II	1	2	0	NA	100	0	URC	Mnd	
3	LS2102	Islamic Legal System	3	2	1	Eng	40	60	URC	Mnd	
4	UA2125	Aqidah Ahli Al-Sunnah Wa Al-Jama'ah	3	3	0	Eng	40	60	URC	Mnd	
5	GTXXXX	Halal Slaughtering Management	3	2	1	Eng	60	40	PRC	Mnd	
6	GTXXXX	Biosecurity in Agriculture	3	2	1	Eng	60	40	PRC	Mnd	
7	GTXXXX	Crop Pests and Diseases Management Technology	3	2	1	Eng	60	40	PRC	Mnd	
8	GTXXXX	Seed Technology	3	2	1	Eng	60	40	Prc	Mnd	
Total			Courses: 8	CHrs	20	Cont. Hrs: 21	Workload : 60				

YEAR 3 SEM 1											
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices
1	UT3122	Al-Qur'an Al-Karim III	0	0	1	Eng	40	60	URC	Mnd	
2	BB3105	Entrepreneurship	3	3	0	Eng	60	40	URC	Mnd	
3	GTXXXX	Research Methods & Experimental Designs for Agriculture	3	2	1	Eng	60	40	PRC	Mnd	
4	GTXXXX	Livestock Production Technology	3	2	1	Eng	60	40	PRC	Mnd	
5	GTXXXX	Aquaculture and Fisheries Technology	3	2	1	Eng	60	40	PRC	Mnd	
6	GTXXXX	Agriculture Extension	3	2	1	Eng	60	40	PRC	Mnd	
7	GTXXXX	Plant, Soil, Fertilizer, and Water Analysis	3	2	1	Eng	70	30	PRC	Mnd	
8	GTXXXX	Horticultural Technology	3	2	1	Eng	60	40	PRC	Mnd	
Total			Courses: 8	CHrs	21	Cont. Hrs: 22	Workload : 63				

YEAR 3 SEM 2											
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices
1	UT3122	Al-Qur'an Al-Karim III	1	0	1	Eng	40	60	URC	Mnd	
2	PG3216	Web Design	3	1	2	Eng	70	30	FRC	Opt	1 of 3
	PG3217	Applied Multi Media		2	1	Eng	70	30			
	PG3218	Data Based Application		2	1	Eng	70	30			
3	GTXXXX	Agricultural Waste Management and Utilization Technologies	3	2	1	Eng	60	40	PRC	Mnd	
4	GTXXXX	Post Production Technology	3	2	1	Eng	60	40	PRC	Mnd	

5	GTXXXX	Agriculture Water Resource Management	3	2	1	Eng	60	40	PRC	Mnd	
6	GTXXXX	Genetics and Breeding Technologies	3	2	1	Eng	60	40	PRC	Mnd	
7	GTXXXX	Soil Fertility and Management	3	2	1	Eng	60	40	PRC	Mnd	
8	GTXXXX	Animal Health and Housing	3	2	1	Eng	60	40	PRC	Mnd	
Total		Courses: 8	CHrs	22	Cont. Hrs: 22			Workload : 66			

YEAR 3 SEM 3											
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices
1	PG3324	Industrial Training	6	0	0	Eng	100	0	PRC	Mnd	
Total		Courses: 1	CHrs	6	Cont. Hrs: 0			Workload : 18			

YEAR 4 SEM 1											
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices
1	UT4123	Al-Qur'an Al-Karim IV	0	0	1	Eng	40	60	URC	Mnd	
2	GTXXXX	Research Project	0	0	0	NA	60	40	PRC	Mnd	
3	GTXXXX	Precision Agriculture	3	2	1	Eng	60	40	PRC	Mnd	
Total		Courses: 3	CHrs	3	Cont. Hrs: 4			Workload : 9			

YEAR 4 SEM 2											
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices
1	UT4123	Al-Qur'an Al-Karim IV	1	0	1	Eng	40	60	URC	Mnd	
2	GTXXXX	Research Project	6	0	0	Eng	0	100	PRC	Mnd	
3	GB4205	Sustainable agriculture	3	2	1	Eng	40	60	PRC	Mnd	
Total		Courses: 3	CHrs	10	Cont. Hrs: 4			Workload : 30			

Grand Total	Courses: 49	CHrs: 138	Cont. Hrs: 141	Workload: 414
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Type	Courses Count	%	Credit Hrs	%	Contact Hrs	%
URC	13	27	26	19	39	28
FRC	8	16	22	16	24	17
PRC	28	57	90	65	78	55
TOTAL	49	100	129	100	132	100

P101 – AGRICULTURE BRIDGING CERTIFICATE PROGRAM

Brief Profile	This programme suits those with insufficient entry requirement for this university wishing to further education in Agriculture. This short but intensive programme serves as an excellent platform to prepare prospective applicants to gain entry into UNISSA’s Agricultural Degree programmes upon successful completion.
Mode and Duration of Study	Full-time basis – 1 Semester
Medium	English & Malay
Tuition Fee	BND 2,000.00
Intake	August

PROGRAMME STRUCTURE

Programme	Agriculture Bridging Certificate
Code	P101
Faculty	Faculty of Agriculture (FoA)
Medium	English & Malay

YEAR 1 SEM 1												
No.	Code	Course Name <Translation> {Note}	CHr	L	T	Med	CW%	EX%	Type	As	Choices	
1	XXXX	Al-Qur’an	2	1	1	Eng	40	60	URC	Mnd		
2	GB0001	Introduction to Science of Agriculture	4	4	0	NA	60	40	Core	Mnd		
3	GB0002	Basic Laboratory Practical Skills	3	0	3	Eng	100	0	Core	Mnd		
4	GB0003	Foundation of Business	4	2	2	Eng	60	40	Core	Mnd		
5	GB0004	Academic Numeracy & IT Skills	4	2	2	Eng	60	40	Core	Mnd		
6	GB0005	Academic Literacy Skills	4	2	2	Eng	60	40	Core	Mnd		
Total		Courses: 6	CHrs	18	Cont. Hrs: 21			Workload : 63				

COURSES DESCRIPTION

UNIVERSITY REQUIRED COURSES (URCs)

UT1120 AL-QURAN AL-KARIM I

In semester 1, students will be practicing recitation and memorization of the Sūrahs al-Fātiḥah and al-Ḍuḥā until al-‘Ādiyāt together with an introduction of the rules of al-Tajwīd, definition of al-Laḥn, the different categories and rules of al-Laḥn, aḥkām al-Isti‘ādhah, aḥkām al-Basmalah, manners of reading the Qur’an, prostration of reading (Sujūd al-Tilāwah), description of degrees (al-Marātib) or recitation (al-Tilāwah), The Nūn Sākinah and Tanwīn rules and Mīm Sākinah and its rules.

In Semester 2, students will continue with recitation and memorization of Sūrah al-Qāri‘ah until al-Nās with the rules of Rā: the velarization and attenuation (tafkhīm and tarqīq), the definition of al-Madd and its rules, assimilation (Idghām), the connecting Hamzah (Hamzah al-Wasl), Waqf and al-Ibtidā, the calligraphy and vocalisations of al-Qurān al-Karīm (Rasm al-Mushaf wa Dabṭuhu) and ethics of concluding (Khatm) al-Qur’an.

UT2121 AL-QURAN AL-KARIM II

Semester 1: Recitation and memorization of the following Sūrahs (al-Buruj, al-Tāriq, al-A’lā, and al-Ghāshiyah).

Semester 2: Recitation and memorization of the following Sūrahs (al-Fajr, al-Balad, al-Shams and al-Layl).

UT3122 AL-QURAN AL KARIM III

Semester 1: Recitation and memorization of the following Sūrahs (‘Abasa, al-Takwīr and al-Infīṭar). Semester 2: Recitation and memorization of the following Sūrahs (al-Muṭaffifin and al-Inshiqāq).

UT4123 AL-QURAN AL-KARIM IV

Semester 1: Recitation and memorization of Sūrah Yāsīn.

Semester 2: Recitation and memorization of Sūrah al-Mulk.

PG1112 CO-CURRICULUM I & PG2122 CO-CURRICULUM II

Co-Curriculum course I & II consist of two options: A: Uniformed Units or B: Workshops and Community Service. The Uniformed Units include: Royal Brunei Army Military Cadets, Fire & Rescue Cadets and Scouts. The workshops are divided into three (3) categories, namely soft skills workshops, creativity and innovation workshops and spiritual workshops. Finally, taken alongside these workshops is many forms of community service.

References

Berhormat Pehin Datu Seri Maharaja Dato Paduka Seri Setia (Dr.)
Ustaz Haji Awang Abdul Aziz bin Juned, *Aqidah Ahli Sunnah Wal-Jamaah: Penyelamat Ummah*. 24 Rabiulakhir 1432H/29 Mac 2011M.

Buku Dikir Maulud Syarafil Anam.

Buku Wirid dan Doa-Doa Pilihan.

PG1103 ENGLISH FOR BUSINESS

Prerequisite(s): English 'O' Level

The course covers language skills of reading, writing, speaking and listening particularly for business/economics-related contexts and academic registers. It also focuses on grammar of business/economics-related and academic texts which comprise of the study of parts of speech and verb tenses. The reading component develops students' ability to comprehend and interpret various range of texts and through the following macro- and micro-reading skills: making inferences, making predictions, analysing and evaluating text and interpreting the writer's point of view. The writing component develops students' ability in organizing and summarizing information, and citing document sources appropriately (in-text citations and references). The listening component will include how to listen and interpret, infer, predict outcome, draw conclusions, analyse and evaluate information. The speaking component will include how to express opinions,

participate in group discussions, support or oppose views or opinions and come to a general consensus.

References

- Bailey, S. (2011). *Academic Writing: A Handbook for International Students*. n.pl.: Routledge Taylor & Francis Group.
- Frendo, E. (2005). *Teach Business English*. n.pl.: Longman.
- Krizan, Merrier Jones. (2002). *Business Communication*. 5th ed. n.pl.: Thomson Learning.

PG1106 INFORMATION AND COMMUNICATION TECHNOLOGY

This could will introduce students the basic concepts of Information and Communication Technology (ICT) and to develop the computer proficiency required for university study. The course will include basic instructions in computers; operating systems; and functions of word processing; presentation; spreadsheet; e-mail; and Web browser applications. Practical approach will be adopted to ensure students competency and able to use technology efficiently in their studies.

References

- Colmer, R.S. (2004). *Senior's Guide to Easy Computing: PC Basics, Internet and e-Mail*. n.pl: Aliance Book. Co.
- Miller, M. (2007). *Absolute Beginner's Guide to Computer Basics*. 4th ed. Indiana: QUE Publishing.
- White, R. (2005). *How Computers Work*. 8th ed. Indiana: QUE Publishing.

PG1120 MIB (for Malay Speakers)

This course is designed to give students understanding of the meaning of Malay, Islam and Monarchy with the emphasis of its status as Brunei Darussalam national philosophy. In addition, to equip them with the core knowledge about 'Aqīdah of Ahlisunnah wal Jamā'ah and Shāfi'ī School of Thought.

References

- Abdul Latif Haji Ibrahim, Haji and Mohd. Taib Osman. (1993). *Melayu Islam Beraja, Kertas-Kertas Kerja Seminar “Melayu Islam Beraja”*. Universiti Brunei Darussalam: Akademi Pengajian Brunei.
- Muhammad Abdul Hadi Al-Masri (1994). *Ahlussunnah Wal-Jama'ah: Petunjuk Jalan yang Benar*. Kuala Lumpur: Penerbitan Kintan.
- Muhammad Abu Zahrah (terj). (2005). *Imam Shafi'i Biografi dan Pemikirannya dalam Masalah Aqidah, Politik dan Fiqh*. Jakarta: Penerbit Lentera.

PG1121 BRUNEI STUDIES (for Non-Malay Speakers)

This course is designed for non-Malay speaking international students who have arrived in Brunei Darussalam and are adapting and adjusting to life in Brunei. These students will be introduced to a brief historical overview of Brunei Darussalam; familiarize themselves with the unique national philosophy of MIB; learn about Brunei's society and culture as well as its traditions and customs; and equip them with practical communication in Malay / Brunei Malay as a means to help them cope with everyday interactions in Brunei society.

UA2224 ISLAMIC ETHICS

This course will cover topics on definition of ethics; its advantages and its theme; source of ethics; concept of ethics; important ethics in of Islam on improving ethics; nature of ethics and its acquisition; benefits of ethics; ethics of the Prophet (Peace Be Upon Him) as found in the Al-Qurān and Al-Sunnah. This course consists of three parts, the first part consists of individual ethics; suppressing anger, truthfulness, humility, sincerity of intention, controlling passions, lowering gaze, telling lies, hypocrisy, self-conceit and jealousy. The second part consists of family ethics: Excellence behaviours with parents, implanting good ethics and responsibilities to spouses and children. The last part consists of social ethics: Behaviours for fulfilling promises, trustworthiness, forgiveness, sacrifice, justice, lowering voice, ways of talking with elders, seeking permission and its methods, cheating, deceit, sarcasm, back biting, and unfairness.

References

Al-Ghazali, Abu Hamid Muhammad bin Muhammad. (1975). *Ihyā' Ulūmuddīn. Holland Muhtar (Trans). The Duties of Brotherhood in Islam*. Leicester, England: The Islamic Foundation.

Al-Haq Muhammad Zia. (2000). *Professional Ethics of Islam*. Islamabad: Dakwah Academy International Islamic University.

Haneef Shah, Sikandar Sayed. (2008). *Ethics and Fiqh for daily life: An Islamic Outline*. Kuala Lumpur: International Islamic University.

UA2125 'AQIDAH AHLI AL-SUNNAH WA AL-JAMA'AH

This course will introduce students the concept of 'aqīdah and tawḥīd, the concept of Ahlussunnah wal-Jama'ah, and their sources and methodology in determining the foundations of the 'aqīdah and its branched, and in refuting false doctrines; the concept of 'Ash'arism and Māturīdism; the importance of the right 'aqīdah in the life of the individual and society; the doctrine of the Sunnis in the divinities (al-Ilāhiyyāt) and prophethood (al-Nubuwwāt) and cosmologies (al-Kawniyyāt) and metaphysics (al-Ghaybiyyāt) and Imamate (al-Imāmah); apostasy and its causes; Quasi-Doctrines and contemporary destructive doctrines and ideologies such as secularism, liberalism and religious pluralism.

References

Al-Buti, Muḥammad Sa'īd Ramadan. (1996). *Keyakinan Hakiki: Kewujudan Maha Pencipta dan Tugas Makhhluk di Alam Semesta*. Trsl. By Muhammad Sulaiman Yassin. Selangor: ABIM.

_____. (2017). *The Greatest Universal Sureties: The Creator's Existence and The Creatures Function*.

Trsl. By Mahdi Lock. Singapore: www.fikr.com

Al-Ghazali. (1974).

LS2102 ISLAMIC LEGAL SYSTEM

Topics covered are the historical development of the Islamic legal system from the period of Prophet Muḥammad Ṣallallāhu ‘Alayhi wa Sallam to the period of al-Khulafā’ al-Rāshidīn, the Umayyah period, and the period of the ‘Abbāsiyyah. This course also covers the development of Maddhab; the modern-day application of Islamic legal system in Brunei: the position and structure of the Shariah Courts and their respective jurisdiction; the appointment of Shariah judges: their qualifications, dismissal, ethics, and also their etiquettes. The qualifications and roles of Syar’ie lawyers and prosecuting officers are also included in the module.

References

- Abdul Monir Yaacob. (1996). *Etika Hakim dan Peguam Syarie*. Kuala Lumpur: IKIM.
- Abu Ameenah Bilal Philips. (1998). *The Evolution of Fiqh*. Riyadh: International Islamic Publishing House.
- Farid Sufian Shuaib, Tajul Aris Ahmad Bustami & Mohd Hisham Mohd Kamal. (2001). *Administration of Islamic Law in Malaysia: Text and Materials*. Kuala Lumpur: Malayan Law Journal.

BB3105 ENTREPRENEURSHIP

This course will discuss topics on: the concept of entrepreneurship, the role of entrepreneurs, types of new ventures, entrepreneurial style, entrepreneurial management process, identification of entrepreneurial opportunities and the factors and personality traits contributing to the success of a small business entrepreneur. This course also covers the elements of feasibility studies including fundamentals of financing a small business and analysing industry/consumer/product risks and benefits. The social and ethical implications of entrepreneurship will be incorporated. This course also includes assignment to give some practical experience on setting up small businesses; marketing; approaching customers and selling; managing the business fund; budgeting, record keeping, cash flow management; prepare business plan and doing a group small business.

References

- Kuratko, D. F. (2009). *Introduction to Entrepreneurship*. 8th ed. Canada: South-Western.
- Sarina Hanim Aman Shah, Sharida Zaina Shafie & Cecilla Soon Teik Lan. (2016). *Entrepreneurship*. 4th ed. Petaling Jaya: Oxford Fajar Sdn. Bhd.
- Suhaimi Abdullah & Ku Halim Ariffin. (2010). *Keusahawanan Islam*. Malaysia: Universiti Malaysia Perlis.

FACULTY REQUIRED COURSES (FRCs)

AA1204 ARABIC I

This course aims to provide the students with the functional words, and a number of linguistic patterns to develop their basic Arabic language skills; so that they can learn the basic vocabulary and functional expressions, write simple sentences, express their basic needs in specific situations and use the necessary language expressions to communicate through the four language skills in accordance with their level of language. After completing this course, students are expected to be able to practice basic language skills.

References

- Sha'ban, Muhammed Adil, Fadl Allah, Muhammad al-Fatih & Sini, Mahmud Ismail. (1985). *Al Qiraah Al Muyassarah: Silsilah Fi Al 'Arabiyyah Li Al Natiqina Bi Ghayriha*. Vol1. Saudi: Jami'at Al Malik Sa'ud.
- Sini, Mahmud Ismail, Abul Aziz, Nasif Mustafa & Hussain, Mukhtar Al Tahir. (1983). *Al 'Arabiyyah Li Al Nashiin*. Vol 1. Riyadh: Wizarat Al Ma'arif.
- Mahmud, Taha Muhammed. (1984). *Al Ta'bir Al Muwajjah Lil Mubtadiin Min Ghayri Al Natiqina Bil 'Arabiyyah*. Riyadh: Jami'at Al Malik Sa'ud.

AA1208 ARABIC 2

This course aims to develop what the students have learned in the previous course regarding the four skills and provide them with a number of vocabulary and linguistic structures through topics related to Arab Islamic culture. The course also prepares them to use the language as a means of communication, and read Arabic texts that suit the limits of the vocabulary they have learned. After completing this course, students are expected to be able to use what they have learned in occasions and situations that suit their language level.

References

- Sha'ban, Muhammed Adil, Fadl Allah, Muhammad al-Fatih & Sini, Mahmud Ismail. (1985). *Al Qiraah Al Muyassarah: Silsilah Fi*

Al ‘Arabiyyah Li Al Natiqina Bi Ghayriha. Vol 2. Saudi: Jami’at Al Malik Sa’ud.

Sini, Mahmud Ismail, Abul Aziz, Nasif Mustafa & Hussain, Mukhtar Al Tahir. (1983). *Al ‘Arabiyyah Li Al Nashiin. Vol 2. Riyadh: Wizarat Al Ma’arif.*

Mahmud, Taha Muhammed. (1984). *Al Ta’bir Al Muwajjah Lil Mubtadiin Min Ghayri Al Natiqina Bil ‘Arabiyyah. Riyadh: Jami’at Al Malik Sa’ud.*

LS1202 FIQH AL-‘IBADAT

Topic covered are Ṭahārah (purification); ablution: definition, obligations, recommendations, and nullifiers. This course also covers topics on prayers: types, times, essential requirements, and recommendations of prayers; Zakāh: definition, conditions, pillars, time, and prohibitions; I’tikāf: definition and conditions; Ḥajj (pilgrimage): definition, conditions, recommendations, prohibitions during the period of ihram, nullifiers of Ḥajj, performing Ḥajj on behalf of others; and also ‘Umrah and their legal rulings.

References

Dr Abu Ameenah Bilal Phillips. (2005). *Funerals Rites in Islam. Saudi Arabia: International Islamic.*

Dr Mustafa al-Khin, Dr Mustafa al-Bagha. (1987). *Al-Fiqh al-Manhajī ‘alā Madhhab al-Imām al-Shāfi’ī. Damsyik: Dar al-Qalam.*

Mohamad Amin. (1978). *Journey of a Lifetime. Nairobi: Camerapix Publishes International Publishing House.*

CH2105 ISLAMIC HISTORY AND CIVILISATION

There are two main components of the course. The first part deals with Islamic history and the second part deal with Islamic civilization. The course starts from the time of Prophet Muḥammad - Ṣallallāhu ‘Alayhi wa Sallam – until the end of the Ottomans. It focuses on the history of the Prophet Muḥammad - Ṣallallāhu ‘Alayhi wa Sallam – his message and valuable teachings; Islamic propagation (da‘wah) and its expansion; Islamic administration during the time of the Prophet Muḥammad - Ṣallallāhu ‘Alayhi wa Sallam – the Righteous Caliphs, the Umayyads, the Abbasids and Ottomans; Islamic civilization its meaning, concept, principles, sources and its impact on human civilization.

References

- Abu Khaldun, Sati'al-Husari. (1967). *Dirāsāt 'an Muqaddimah Ibnī Khaldūn*. Beirut: Dar al-kitab al-Arabi. Al-Duri, Abd al-Aziz. (1960). *Bahth fī Nashāt 'Ilm al-Tārīkh 'Inda al-'Arab*. Beirut: Matba 'ah al-Kathulikiah.
- Bosworth C.E. (ed). (1974). *The Legacy of Islam*, 2nd ed. Oxford: at the Clarendon Press.

UT2226 QURANIC AND HADITH SCIENCES

This course will explore and explain the importance and the ranking position of this subject in Islam; discover some of the applicable terminologies that are used in Qur'anic and Hadith Sciences; discover the important basic rules in understanding the texts and giving assessment whether it is strong or weak according to its firmness and semantics.

References

- Abdullah, Ismail & Abdul Manas, Shayuthy. (2006). *Introduction to the Sciences of Hadith*. 1st ed. Kuala Lumpur: Research Centre International Islamic University Malaysia.
- Denffer, Ahmad Von. (1983). *Ulum al-Qur'an: An Introduction to the Sciences of the Qur'an*. Leicester: The Islamic Foundation.
- Ushama, Thameem. (2002). *Issues in the Study of the Qur'an*. Kuala Lumpur: Ilmiah Publishers.

PG3216 WEB DESIGN

Students will learn the basics of designing and developing a web site. Understanding of what is the WWW, the benefits/disadvantages of web presentation media, website design process, story boarding, preparation of images and graphics, platforms and web browsers including web production techniques for website development. Discussion about design issues specific to web-based presentations, learn web page layout, effective navigation and delve into the design process. Course will examine some of the how-to's, in's, out's and pitfalls of using graphics, colour and fonts on web pages as well as working with tables and CSS. Some site management techniques are covered, accessibility issues and working with domains and clients discussed.

References

- Adobe Creative Team. (2009). *Adobe Dreamweaver CS4 Classroom in a Book*. USA: Adobe Press.
- Clark, Joe. (2002). *Building Accessible Websites*. USA: New Riders Publishing.
- Horton, Sarah. (2005). *Access by Design: A Guide to Universal Usability for Web Designers*. USA: New Riders Publishing.

PG3217 APPLIED MULTIMEDIA

UNISSA students gain academic knowledge and skills in their chosen field of study. They also cover general problem-solving and critical thinking skills. The combination can empower them to participate as educated citizens in the economic, political, and cultural life of their communities in the knowledge-based economy. The course contents are Multimedia Theory and Analysis, Fundamentals of Flash Animation, Production Team Roles and Responsibilities, Planning Multimedia Projects, Advanced Flash Animation Techniques, Audio Recording and Editing and Authoring and Distributing Multimedia Projects.

References

- Adobe Creative Team. (2009). *Adobe Creative Suite 4 Design Premium Classroom in a Book*. US: Adobe Press.
- Adobe Creative Team. (2009). *Adobe Soundbooth CS4: Classroom in a book*. US: Adobe Press.
- Adobe Creative Team. (2009). *Adobe Premiere Pro CS4 Classroom in a Book*. US: Adobe Press.

PG3218 DATABASE APPLICATIONS

Introduction to databases and its environment. Conceptual Database Design. Logical Database Design (including Normalisation). Entity-Relationship (ER) modelling techniques. Physical Database design. Structured Query Language (SQL). Data Warehousing Concepts. DW Design. Client Server Architecture, Data & Database Administration: Duties, security, Transaction Management, concurrency control and Distributed Database. The course covers theoretical concepts in depth and gives the students a thorough practical knowledge of databases. The assignments will require

students to demonstrate their mastery of the practical aspects of SQL DBMS (selected from available resources in the university for DBMS such as MySQL, MS-SQL or Oracle DBMS) and database design. On completion, the student will be able to develop and design a practical database application using the current database management's systems technology. Application on web-based database application will supplement the proficiency and mastery of the DBMS.

References

- Connolly, Thomas. and Begg, Carolyn. (2005). *Database Systems: A practical approach to design, management and management, 4th ed.* USA: Addison-Wesley.
- Costain, Gay F. (2003). *Data Modeling for Student Analysts.* USA: Dunmore Press.
- Palmerston North. Ramakrishnan and Gehrke. (2003). *Database Management Systems.* 3rd ed. USA: McGraw Hill.

PROGRAMME REQUIRED COURSES (PRCs)

GB1201 INTRODUCTION TO AGRIBUSINESS

This course is designed to introduce students to agribusiness management. Upon completing the course, students are expected to understand the basic theories of agribusiness management and functional responsibilities of management. Students are also expected to apply difference management tools in improving the efficiency of the agribusiness and provide alternatives solution to solve problems in agribusiness.

References

- Barnard, F., Ckridge, J., Dooley, F. & Foltz (2018). *Agribusiness Management* (4th ed.). USA: Routledge.
- Bryceson, K. P. (2019). *Issues in Agribusiness: The What, Why and How*. Australia: CABI Publication.
- Erickson, S., Ckridge, J. T., Barnard, F. & Downey, D. (2017). *Agribusiness Management* (3rd ed.). USA: McGraw-Hill.

GB1202 FUNDAMENTAL OF AGRICULTURE

This course is designed to give understanding on the basic and fundamental principles of agriculture. This course aims to give the foundation of knowledge for Agriculture in different areas of agriculture including plants, animals, soil and health. Upon completing the course, students are expected to apply knowledge towards further understanding of agriculture.

References

- Damon, W.S. (2018). *Introduction to Animal Science: Global, Biological, Social and Industry Perspectives* (6th ed.). USA: Pearson.
- Davies, F.T., Jr., Geneve R.L., Wilson, S.E., Hartmann, H.T., & Kester, D.E., & (2018). *Plant Propagation: Principles and Practices* (9th ed.). USA: Pearson
- Field, T.G., & Taylor, R.E. (2020). *Scientific Farm Animal Production: An Introduction to Animal Science* (12th ed.). USA: Pearson.

GB1203 AGRONOMY AND ANIMAL HUSBANDRY

This course is designed to provide essential knowledge on agronomy and animal husbandry. This course is a continuation to Fundamentals of Agriculture by focusing of crops important in agronomy and animal husbandry. Upon completing the course, students are expected to apply knowledge towards further understanding of agriculture.

References

- Field, T.G., & Taylor, R.E. (2020). *Scientific Farm Animal Production: An Introduction to Animal Science* (12th ed.). USA: Pearson.
- Damon, W.S. (2018). *Introduction to Animal Science: Global, Biological, Social and Industry Perspectives* (6th ed.). USA: Pearson.
- Davies, F.T., Jr., Geneve R.L., Wilson, S.E., Hartmann, H.T., & Kester, D.E., & (2018). *Plant Propagation: Principles and Practices* (9th ed.). USA: Pearson.

GB1204 AGRICULTURAL MICROECONOMICS

This course is designed to acquaint students with microeconomic principles including the fundamental and central core of economics. This includes roles and characteristics of agricultural businesses in our economic system. Upon completing the course, the students should have a sound knowledge of microeconomic theories and methods, be able to apply their analytical skills to a range of contemporary microeconomic principles in the agricultural firms.

References

- Centre for Islamic Economics. (2020). *Contributions to Contemporary Islamic Economics – Moving Forward*, Sayyid Abul A'la Mawdudi's 'First Principles of Islamic Economics'. Centre for Islamic Economics (Cie) International Islamic University Malaysia.
- Mankiw, N. G. (2007). *Principles of Microeconomics* (4th ed.). South-Western College Publishing.
- McEachern, W. A. (2009). *Microeconomics Principles: A Contemporary Introduction*. (8th ed.). South-Western Cengage Learning.

GB1205 AGRICULTURE IN ISLAM

This course is designed to acquaint the students with the importance of Agriculture in Islam as well as to know the meaning of agribusiness from the Islamic perspective. Upon completing the course, students are expected to apply the knowledge and able to provide significant suggestions and strategies for the future exploration on Islamic agriculture and agribusiness.

References

- Ab. Aziz, M. R. (2012). *Agriculture and Agribusiness from The Perspective of Al-Qur`An and Al-Sunnah*. Riyadh: Dar al-Salam
- Ab. Aziz, M. R. (2012). *Agriculture in Islam: From the Perspective of Economics, Banking & Finance*. Malaysia: UTM Press.
- Andrew M. W. (2008). *Agricultural Innovation in the Early Islamic World: The Diffusion of Crops and Farming Techniques*. United Kingdom: Cambridge University Press

GB2201 AGRICULTURAL MACROECONOMICS

This course is designed to acquaint students with the basic concept and issues of macroeconomics, as well as provide students with a deeper understanding of transmission mechanism of demand management policies and the analysis of macroeconomic including macroeconomics of agriculture. On completing the course, the students should have a comprehensive knowledge of macroeconomic theories, methods and application on related issues.

References

- Ab. Aziz., M. R. (2012): *From the Perspective of Economics, Banking & Finance*. Malaysia: UTM Press.
- Centre for Islamic Economics. (2020). *Contributions to Contemporary Islamic Economics – Moving Forward*, Sayyid Abul A`la Mawdudi's 'First Principles of Islamic Economics'. Malaysia: Centre for Islamic Economics, IIUM.
- David Colman. (2002). *Principles of Agricultural Economics: Markets and Prices in Less Developed Countries*. UK: Cambridge University Press.

GB2202 FARM MANAGEMENT

This course is designed to give understanding of the key concepts of effective farm management. The students will be equipped with farm management knowledge and skills ranging from land to financial of farm businesses. Upon completing the course, students are expected to apply knowledge towards holistic management of farm.

References

- Bochtis, D., Sørensen, C., & Kateris, D. (2018). *Operations Management in Agriculture*. USA: Elsevier.
- Kay, R., Edwards, W., & Duffy, P. (2020). *Farm Management* (9th ed). USA: McGraw Hill.
- Mason, J. (2011). *Farm Management* (2nd ed.). Australia: Kangaroo Press.

GB2203 INTRODUCTION TO ACCOUNTING AND FINANCE IN AGRICULTURE

This course is designed to equip students with aspects of the accounting and finance related to farm, ranch or related business. The course focus to unique aspects of agricultural and financial accounting that are not encountered in other industries. Upon completing the course, the students will have adequate understanding of accounting concept and examples and show how an accounting system can be constructed and operated in agribusiness.

References

- Barbara M. W. (2007). *Introduction to Agriculture*. New York: Clifton Park.
- Needles B.E., Powers, M. & Crosson, S.V. (2014). *Principles of Accounting* (12th ed.). USA: Cengage.
- Nagpal R.B. (2017). *Agricultural Finance*. India: Pacific Books.

GB2204 AGRI-FOOD BUSINESS

This course is designed to understand the Agri-Food business dimensions such as Food Laws and Agriculture standards, Agri-

food sanitation and Hygiene, microorganisms and foodborne illness, agri-food infections and intoxications, food adulterations, agri-food contaminants, agri-food handling and safety. Upon completing the course, students are expected to ascertain the characteristics of chemical and physical of Agri-food and their components including the agri-food preparation aspect and agri-food business processing technique.

References

- Accorsi, R., Cholette, S., Manzini, R., Pini, C., & Penazzi, S. (2016). The land-network problem: ecosystem carbon balance in planning sustainable agro-food supply chains. *Journal of Cleaner Production*, 112, 158-171
- Banasik, A., Kanellopoulos, A., Claassen, G.D.H., Bloemhof-Ruwaard, J.M., van der Vorst, J.G. (2017). Closing loops in agricultural supply chains using multi-objective optimization: a case study of an industrial mushroom supply chain. *International Journal of Production Economics*, 183, 409-420.
- Luthra, S., Govindan, K., Kannan, D., Mangla, S. K., Garg, C. P. (2017). An integrated framework for sustainable supplier selection and evaluation in supply chains. *Journal of Cleaner Production*, 140, 1686-1698.

GB2205 AGRICULTURE PRODUCTION SYSTEMS

This course is designed to explore both plant production industries, including pastures, cereal crops, and annual and perennial horticulture and animal production industries, for food (e.g., meat, milk & eggs) production in both extensively and intensively managed systems. Upon completing the course, students will be able to know the strategies that are employed to produce high quality crop products and productivity benchmarks in the major production animal systems.

References

- Field, T.G., & Taylor, R.E. (2020). *Scientific Farm Animal Production: An Introduction to Animal Science* (12th ed.). USA: Pearson.
- Lalitha, B.S., Shankar, M.A., & Prajwal Kumar, G.K. (2020). *Cropping Systems: Principles and Practices*. India: Nipa Books.

McMahon, M.E. (2020). *Plant Science: Growth, Development, and Utilization of Cultivated Plants* (6th ed.). USA: Pearson.

GB2206 SMART FARMING

This course is designed to give understanding on the use of information and communication technology in Industrial Revolution 4.0's technologies for agricultural industry. Upon completing the course, students are expected to be able to apply smart farming in agribusiness and crop production system and design business processes based on the IoT.

References

- Ayre, M., Mc Collum, V., Waters, W., Samson, P., Curro, A., Nettle, R., Paschen, J.A., King, B., & Reichelt, N. (2019). Supporting and practising digital innovation with advisers in smart farming. *NJAS - Wageningen Journal of Life Sciences*, 90–91 (2019) 100302, 12 pages.
- Bhangea, M. & Hingoliwala, H.A. (2015). Smart Farming: Pomegranate Disease Detection Using Image. Processing. *Procedia Computer Science*, 58 (2015) 280 – 288.
- Chris McPhee *et al.*, (2018). Inclusive Innovation in Developed Countries. *Technology Innovation Management Review*. 8(2).

GB3201 AGRICULTURAL AND DIGITAL MARKETING

This course is designed to provide students with a strong foundation in marketing theories and techniques in agriculture to satisfy the farmer, producer and consumer. It also includes the advertising and sale of agricultural produce. Upon completing the course, students will be able to apply digital marketing techniques and skills in the farm business operations as well as throughout the agribusiness sector in line with the teaching of Islam.

References

- Alserhan, B. K. (2016). *Principles of Islamic Marketing* (2nd ed.). UK: Gower Publishing.
- Crawford, I. D. (1997). *Agricultural and Food Marketing Management*. Rome: Food and Agriculture Organisation of the United Nations.

Hanlon, A. H. (2010). *Digital Marketing: Strategic Planning & Integration*. UK: Sage.

GB3202 AGRIBUSINESS MANAGEMENT

This course is designed to equip students with agribusiness management skills and expose them to the environment in which an agricultural manager operates. Upon completing the course, students will be able to apply managerial functions in the farm business operations as well as throughout the agribusiness sector.

References

- Barnard, F. L., Foltz, J., & Yeager, E. A. (2016). *Agribusiness Management* (5th ed.). UK: Routledge.
- Dorfman, J. H. (2014). *Economics and Management of the Food Industry*. UK: Routledge.
- Fleet, E. V., Seperich, G., & Fleet, D. V. (2013). *Agribusiness: Principles of Management*. US: Cengage Learning.

GB3203 STATISTICS IN AGRIBUSINESS

This course is designed to enable students to grasp important concepts in statistics, which can be used in business environment with emphasis on presentation, interpretation and application. Upon completing the course, the students should be able to apply statistical techniques to help in agribusiness decision-making.

References

- Anderson, D., Sweeney, D., Williams, T., Camm, J., Cochran, J., Fry, M., & Ohlmann, J. (2019). *Statistics for business & economics* (14th ed.). US: Cengage Learning.
- Carlson, W., & Thorne, B. (2019). *Statistics for Business and Economics, Global Edition* (9th ed.). UK: Pearson.
- Levine, D., & Szabat, K. (2019). *Basic Business Statistics, Global Edition* (14th ed.). UK: Pearson.

GB3204 EXPORT MARKETING AND PRACTICES

This course is designed to expose students with exporting strategies from the perspective of marketing planning and the mechanics of export practice. Upon completing the course, students will understand on how to make an explicit and informed choice between

the real market options faced in practical export situations, which takes into account the many company and market factors shaping such strategies.

References

- Bhasin, B. B. (2011). *Doing Business in the ASEAN Countries*. US: Business Expert Press.
- Julian, C. C. (2016). *Research Handbook on Export Marketing*. UK: Edward Elgar Publishing Ltd.
- Neo, D., Sauve, P., & Strehlo, I. (2019). *Services Trade in ASEAN: The Road Taken and the Journey Ahead*. UK: Cambridge University Press.

GB3205 FOOD SECURITY AND BIOSECURITY IN AGRICULTURE

This course is designed to equip the students with the concept of food security and principles of biological invasions by analysing their impacts, discussing in detail the various control methods and consider their possible side effects. Upon completing the course, students are expected to be able to address food security, strategic thinking, and always link to the global current issue on food security and alert of the measures to be taken. know measures aimed at preventing the introduction and/or spread of harmful organisms (e.g., viruses, bacteria, etc.) to animals and plants in order to minimize the risk of transmission of infectious disease.

References

- Ashley, J. (2016). *Food Security in the Developing World* (1st ed.). USA: Elsevier
- Cook, D., Fraser, R., & Wilby, A. (2017). *Plant Biosecurity Policy Evaluation: The Economic Impacts of Pests and Diseases*. USA: World Scientific Publishing
- Dewulf, J., & Van Immerseel, F. (2020). *Biosecurity in Animal Production and Veterinary Medicine: From principles to practice*. USA: CABI.

GB3206 CURRENT TRENDS IN AGRICULTURAL MARKETS

This course is designed to extend the students understanding of marketing and be able to analyse current trends of agriculture with

particular reference to the agribusiness sector. Upon completing the course, students will gain an understanding of how to achieve a competitive advantage in the market by targeting the customers they can serve best and ensuring that product consistently meets the needs of the target market.

References

- Addicott, J. E. (2020). *The Precision Farming Revolution: Global Drivers of Local Agricultural Methods*. London, US: Palgrave.
- Luc, N. (2014). *The Handbook of Global Agricultural Markets: The Business and Finance of Land, Water, and Soft Commodities*. Basingstoke, UK: Palgrave.
- Norwood, F. B., & Lusk, J. L. (2018). *Agricultural Marketing and Price Analysis*. US: Waveland Press.

GB3207 INTRODUCTION TO BRUNEI AGRI-FOOD AND AGRIBUSINESS SYSTEM

This course is designed to understand the business related to agriculture in Brunei Darussalam. The chain from farm to fork where business can support the process. Upon completing the course, students are expected to understand the opportunities in business related to agriculture beyond farming in Brunei Darussalam.

References

- Hj Amzah B Hj Abdul Rahman, Hjh Rosidah Bt Hj Metussin, Hjh Aidah Bt Hj Mohd Hanifah (2011). *Southeast Asian Agriculture and Development Primer Series: Brunei Darussalam*. Singapore: ISEAS.
- Ministry of Industry Department of Agriculture (1998). *Brunei Darussalam Agriculture Statistics 1996*. Brunei: Ministry of Industry Department of Agriculture
- Musa, S.F.P.D., Idris, D.S.R. & Basir, K.H. (2020). *Inspiring Agripreneurs of Brunei*. Bandar Seri Begawan: UNISSA Press.

GB3208 SUPPLY CHAIN MANAGEMENT IN AGRICULTURE

This course is designed to develop an advanced understanding the principles, concepts and approaches employed in the management

of supply chains between industrial, commercial, and governmental organisations in agriculture. Upon completing the course, students are expected to be able to understand the role and manage supply chains in agriculture for the efficient production and supply of agribusiness products from farm level to consumers, to reliably meet consumers' requirements in terms of quantity, quality, and price.

References

- Chandrasekaran, N., & Raghuram, G. (2014). *Agribusiness Supply Chain Management*. US: Taylor & Francis Inc.
- Chase, R. B., & Jacobs, F. R. (2021). *Operations and Supply Chain Management*. Canada: McGraw Hill.
- Dani, S. (2015). *Food Supply Chain Management and Logistics*. London, UK: Kogan Page Ltd.

GB3209 ACCOUNTING FOR DECISION MAKING

This course is designed to equip students with aspects of financial reporting, analysis and interpretation for decision-making. Upon completing the course, the students are expected to have adequate understanding to have better decision making, proper planning and formulation of policies, control management performance and interprets financial information.

References

- Birt, J., Chalmers, K., Maloney, S., Brooks, A. & Oliver, J. (2020). *Accounting: Business reporting for decision making* (7th ed). UK: John Wiley and Sons Ltd.
- Collier, P.M. (2015). *Accounting for Managers: Interpreting Accounting Information for Decision Making* (5th ed). UK: John Wiley and Sons Ltd.
- Needles B.E., Powers, M. & Crosson, S.V. (2014). *Principles of Accounting* (12th ed). US: Cengage.

PG3324 INDUSTRIAL TRAINING (LI)

LI give students the opportunities to practice the theoretical knowledge that they learn in class and apply it in the real working environment. It is also to inculcate professionalism in the students through interaction and communication with the people at their training places besides to look for job opportunities for their future

career. Moreover, LI helps in developing students' skills and abilities in every aspect of life. Finally, LI is also to develop and maintain good relations with government and non-government organizations that can help UNISSA to produce skilful and proficient graduates.

References

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LB4305 BUSINESS LAW

The course covers the study of concepts, principles and application of the laws and regulations relating to the sale of goods, agency, hire purchase and employment. The study discusses relevant statutory provisions, case law and application of various legal concepts on these areas of law.

References

Atiyah, P.S., Adams, J.N. & MacQueen, H. *The Sale of Goods*. 10th ed. London: Longman.

Aun, Wu Min. (1994). *Legal Aspects of Sale of Goods*. Kuala Lumpur: Longman (Malaysia) Sdn Bhd.

Keenan, D. & Riches, S. (2007). *Business Law*. 8th ed. Essex: Pearson Education Ltd.

GB4201 AGRICULTURAL BUSINESS RISK AND INVESTMENT

This course is designed to equip students with the application of financial business management, economic and risk management principles to decision making in agribusiness and agricultural systems and to develop a framework on how to assess and measure risk, and formulate strategies to reduce it from qualitative and quantitative perspectives. Upon completing the course, students are expected to be able to apply principles of management and decision making in relation to agribusiness and apply techniques for the assessment of risk and develop strategies to enhance decision making.

References

- Barry, P. & Ellinger, P. (2012). *Financial Management in Agriculture* (7th ed). US: Pearson.
- Battles, R.W. & Thomposon Jr, R.C. (2001). *Fundamentals of Agribusiness Finance*. UK: Wiley.
- Hardaker, J. B., Huirne, R. B. M., Anderson, J. R. & Lien, G. (2015). *Coping with Risk in Agriculture* (3rd ed). UK: CABI.

GB4202 RESEARCH METHODS FOR AGRIBUSINES

This course is designed to provide students with a tangible tool by revealing the explicit and implicit essentials of research writing, particularly at the initial stages. Upon completing the course, the students are expected to have the knowledge and skill necessary to apply research techniques, including assertion, confidence, discipline, as well as divergent thinking, and tacit writing ability within the confines of business, economics, and finance and banking research.

References

- Adrian, R.B. Chris, B. & Marcel, P. (Eds.). (2014). *Handbook of Research Methods and Applications in Empirical Finance*. UK: Edward Elgar.
- Bell, E., Bryman, A., Harley, B., & Bryman, A. (2019). *Business research methods*. UK: Oxford University Press.
- Creswell, J., & Creswell, J. (2018). *Research design* (5th ed.). US: Sage Publication.

GB4203 AGRIBUSINESS INVESTMENT PROJECT APPRAISAL

This course is designed to apply the principles of financial appraisal of capital projects and applications to agriculture/agribusiness investments through proposing an Agricultural Investment Project under supervision of a supervisor and approval of the faculty. Students are required to submit a full Project Appraisal Report. Upon completing the course, students are expected to be able to appraise and evaluate private investment projects related to agribusiness.

References

- Battles, R.W. & Thompson, R.C. (2001). *Fundamentals of Agribusiness Finance*. UK: Wiley.
- Clayman, M.R., Fridson, M.S., & Troughton, G.H. (2012). *Corporate Finance: A practical Approach*. UK: Wiley.
- Dayananda, D, Irons, R, Harrison, S, Herbohn, J & Rowland, P. (2002). *Capital budgeting: Financial Appraisal of Investment Projects*. UK: Cambridge University Press.

GB4204 INTERNATIONAL AGRICULTURAL TRADE

This course is designed to understand agricultural trade patterns and institutions; trade theory with applications to agriculture. Upon completing this course, students should be able to Access economic news with greater sophistication; Relate international economic events to the operations of a firm, Assess the impact of proposed international economic policies; Appreciate the interrelatedness of national economies; and Understand towards the international economic interactions fluctuate.

References

- Daniels, J. D., Radebaugh, L. H. & Sullivan, D.P. (2014). *International Business: Environments and Operations* (15th ed). UK: Pearson.
- Feenstra, R. & Taylor, A. (2017). *International Trade* (4th ed). US: Worth Publisher.
- McLaren, J. (2012). *International Trade*. US: John Wiley & Sons.

GB4205 SUSTAINABLE AGRICULTURE

This course is designed to understand the Sustainable Agricultural Systems, characteristics, types of sustainable agricultural systems and how to assess the sustainability of a farming system, sustainable land management, and Policy of Sustainable Agriculture. Upon completing the course, students are expected to be able to assess and analyse the sustainability of agricultural systems and design integrated farming techniques based on sustainable agricultural systems.

References

- Bos, M.G., van den Bosch H., Diemont H., van Keulen H., Lahr, J., Meijerink ,G. & Verhagen, A. (2007). Quantifying the sustainability of agriculture. *Irrig Drainage Syst*, 21, 1–15.
- Brussaard, L., de Ruiter, P.C., & Brown, G.G. (2007). Soil biodiversity for agricultural sustainability. *Agriculture, Ecosystems and Environment*, 121, 233–244.
- Carter, M.R. (2002). Soil Quality for Sustainable Land Management: Organic Matter and Aggregation Interactions that Maintain Soil. *Agron, J.* 94, 38–47.

GTXXXX ENVIRONMENT, SOIL AND AGRICULTURE

This course will introduce students to the relationships or linkages between the environment, soil, and agriculture as well as ecosystem changes. Students will gain knowledge on environmental issues involving soils, water, and wastes in addition to how agriculture has evolved over the centuries and will appreciate the fact that agriculture plays significant role in human existence. The impacts that agriculture has on the environment, and including soils and biodiversity will be highlighted in relation to the United Nation’s Sustainable Development Goals. Students will have a grasp of the options available for sustainable agricultural practices so that our soils and the environment (including biodiversity) will cope with the food security and human population pressures. Students will be exposed to the role new methods and emerging technologies are playing to achieve environmental, soil, and agricultural sustenance.

References

- Ghosh, K. and Braun, G. (2020). *Transforming food and agriculture to achieve the Sustainable Development Goals (SDG’s)*. Rome: FAO.
- Verna, D.K. (2019). *Microbiology for Sustainable Agriculture, Soil Health, and Environmental Protection*. USA: Academic Press.
- Marie, P. (2019). *The Evolution of Agricultural Technology*. USA: Britannica Educational Publishing

Barrow, J.W. (2018). *Sustainable Agriculture: Principles and Practices* (1st ed.). USA: Syrawood Publishing House.

Hunter, D., Guarino, L., Spillane, C. & McKeown, P.C. (2017). *Routledge Handbook of Agricultural Biodiversity*. UK: Earthscan.

GTXXXX APPLIED CROP SCIENCE

The course is designed to provide students with a strong understanding of principles and practices in crop science. Principles of crop physiology, genetics & breeding, production and management of crops will be discussed. Concepts and essentials of good agricultural practices (GAPs) will be emphasized. Importance will be placed on selection, improvement and production of food, fiber and feed crops useful to man. In the process, students will be trained to critically analyse production area, soil, climate, economic aspects, etc. and make accurate decisions. Some experiential learning (hands-on) will be included. Factors influencing crop production will be discussed thoroughly during lectures. Cropping systems and smart agriculture will also be explained.

References

Acquaah, G. (2005). *Principles of Crop Production: Theory, Techniques and Technology* (4th ed). Pearson Prentice Hall.

Acquaah, G., (2012). *Principles of Plant Genetics and Breeding* (2nd Ed). USA: Wiley-Blackwell.

Hanks, J. (2016). *Agronomy and Crop Science*. USA: Callisto Reference.

Savin, R. & Slater, G.A. (2019). *Crop Science*. New York: Springer.

GTXXXX APPLIED ANIMAL SCIENCE

The aim of this course is to provide basic knowledge and understanding of animal science and its applications. Student will develop an understanding of the environmental, ethical and

economic contexts in which the sector operates. Applied animal science helps to improve the productivity and sustainability of livestock production systems, control disease epidemics, standards of animal welfare, and to enhance wildlife biodiversity.

References

Dewulf, J., & Immerseel, F. V. (2018). *Biosecurity in animal production and veterinary medicine: From principles to practice*. Leuven: Acco.

Damon, W.S. (2018). *Introduction to Animal Science: Global, Biological, Social and Industry Perspectives* (6th ed.). USA: Pearson.

Field, T.G., & Taylor, R.E. (2020). *Scientific Farm Animal Production: An Introduction to Animal Science* (12th ed.). USA: Pearson.

Hynd, P. (2019). *Animal Nutrition: From Theory to Practice*. Australia: CSIRO Publishing.

Brazer, F.W., Lamb, G.C., & Wu, G. (2020). *Animal Agriculture: Sustainability, Challenges and Innovation*. USA: Elsevier

GTXXXX AGRICULTURAL ECONOMICS

This course is designed to acquaint students with agricultural economics including both macroeconomics and microeconomic principles. This includes roles and characteristics of agricultural businesses in our economic system. Upon completing the course, the students should have a sound knowledge of agricultural macroeconomic and microeconomic theories and methods, be able to apply their analytical skills to a range of contemporary economics principles in the agricultural firms as well as understanding of transmission mechanism of demand management policies and the analysis of macroeconomic of agriculture.

References

Colman, D. (2002). *Principles of Agricultural Economics: Markets and Prices in Less Developed Countries*. UK: Cambridge University Press.

Debertin, D. L. (2012). *Agricultural Production Economics: The Art of Production Theory* (2012). UK: CreateSpace Independent Publishing Platform.

Nourse, E.G. (2013). *Agricultural Economics: A Selection of Materials in Which Economics Principles Are Applied to the Practice of Agriculture*. USA: University of Chicago Press.

Cramer, G.L, Jensen, C.W., Southgate, D.D. Jr. (2001). *Agricultural Economics and Agribusiness* (8th ed.). USA: Wiley.

McEachern, W. A. (2009). *Microeconomics Principles: A Contemporary Introduction* (8th ed.). USA: South-Western Cengage Learning.

GTXXXX FUNDAMENTALS OF SOIL SCIENCE

Soil is a fundamental natural resource of humanity that must be managed and conserved in a sustainable way. This course will introduce students to the basic concepts and terms used in soil science, soil formation and the basic functions of soils with particular emphasis on tropical soils and their use in agriculture. Soil classification, their physical, chemical and biological properties will be covered. Fundamentals of land evaluation will be introduced so that students appreciate the varying capabilities or uses of soils in agriculture. Managing soils using precision farming approaches based on field data collection and basic characterization of soils in the laboratory will be introduced to the students. Students will be able to apply the knowledge gained in this course to especially manage soil fertility and soil water for productive and sustainable agriculture.

References

Halvin, J.L., Tisdale, S.L., Nelson W.L. and Beaton, J.D. (2005). *Soil Fertility and Fertilizers: An Introduction to Nutrient Management*. 8th ed. Pearson

- Huang, P.M., Li, Y. & Sumner, M.E. (2011) *Handbook of Soil Sciences –Vols 1 & 2*. (2nd ed.). USA: CRC Press
- Tan, K.H. (2005). *Soil Sampling, Preparation, and Analysis* (2nd ed.). USA: Taylor & Francis.
- Weil, R.R & Brady, N.C. (2016). *Nature and Properties of Soils* (15th ed.). USA: Pearson
- Weil, R.R & Brady, N.C. (2019). *Elements of the Nature and Properties of Soils* (4th ed.). USA: Pearson
- of the Nature and Properties of Soils* (4th ed.). USA: Pearson

GTXXXX AGRICULTURAL BOTANY

This course aims to equip students with scientific knowledge and understanding of plants: forms, diversity, uses and survival. Students will be introduced to principles and practices of plant taxonomy. Plant morphology, anatomy, physiology and reproduction will also be discussed. Students will be introduced to the International Code of Botanical Nomenclature (ICBN) and taught how to write scientific/botanical names correctly. Students will be taught Ethnobotany. The importance of plants to the environment will also be discussed.

References

- Bayton, R. & Maughan, S. (2017). *Plant Families: A Guide for Gardeners and Botanists*. USA: University of Chicago Press.
- Blackmore, S., & Crane, P. (2018). *How Plants Work: Form, Diversity, Survival*. USA: Princeton University Press.
- Kumar, A., Sharma, A., Balyan, U.K. & Dhak, T.S. (2019.) *Economic Botany and Plant Genetic Resources at a Glance*. India: Sharma Publishers and Distributors.
- Percival, J. (1946). *Agricultural Botany: Theoretical and Practical* (8th ed.). UK: Duckworth.
- Ulteridge, T., & Gemma, B. (2014). *The Kew Tropical Plant Families Identification*. Kew: Royal Botanic Gardens.

GTXXXX BIOSECURITY IN AGRICULTURE

Biosecurity in Agriculture focuses on production animal management practices and the implementation of safeguards that eliminate and decrease the rate of infectious diseases. This course gives students the opportunity to understand and apply concepts of disease transmission in animal and plant production situations. Multiple species, pest and diseases will be discussed throughout the course as examples of biosecurity in practice. This course provides the foundation for students interested in learning the complexities of the prevention of disease transmission in both animals, plants and animals. This course aims to provide students with a fundamental understanding of what constitutes such biological hazards, the theory and practice of avoiding or controlling these hazards, the regulatory framework for managing biosecurity, and opportunities to explore topical examples of biosecurity issues.

Biosecurity in Agriculture is a discussion-based course to allow students to fully understand the practical application of biosecurity in our ever more global world.

References

- Cook, D., Fraser, R., & Wilby, A. (2017). *Plant Biosecurity Policy Evaluation: The Economic Impacts of Pests and Diseases*. USA: World Scientific Publishing
- Dewulf, J., & Van Immerseel, F. (2020). *Biosecurity in Animal Production and Veterinary Medicine: From principles to practice*. USA: CABI.
- Gordh, G., & McKirdy, S. (2014). *The Handbook of Plant Biosecurity*. USA: Elsevier.
- Cardwell, K.F., & Bailey, K.L. (2022). *Tactical Sciences for Biosecurity in Animal and Plant System*. USA: IGI Global Publishing
- A. David Scarfe, Cheng-Sheng Lee, Patricia J. O'Bryen. (2006). *Aquaculture Biosecurity: Prevention, Control, and Eradication of Aquatic Animal Diseases*. USA: Wiley-Blackwell Publishing.

GTXXXX CROP PEST AND DISEASE MANAGEMENT TECHNOLOGY

This course will introduce students to the fundamental concepts and principles of protecting crops against economically important pests (including weeds) and diseases. The course will emphasize on knowledge related to the identification, symptoms, causal conditions/agents, spread and control which will enable effective and sustainable management of crop pests and diseases. Integrated pest management (IPM) approach will be highlighted. Students will have the opportunity to learn about pest and disease incidence assessment, prevention and control including use of state of the art technologies for selected crops both in the field and post harvest.

References

- Ciancio, A. & K.G. Mukerji, K.G. (2007) *General Concepts in Integrated Pest and Disease Management*. USA: Springer.
- Hill, D.S. (2008). *Pests of Crops in Warmer Climates and Their Control*. USA: Springer
- Muniappan, R. & Heinrichs, E.A. (2018). *Pest Management of Tropical Vegetable Crops*. Dordrecht: Springer.
- Rapisarda, C. & Cocuzza, G.E.M. (2018). *Integrated Pest Management in Tropical Regions*. New York: CABI Publishing.
- Squire, D. (2016). *Home Gardener's Garden Pest & Diseases: Identifying and Controlling Pests and Diseases of Ornamentals, Vegetables and Fruits (Specialist Guide)*. New Jersey: Creative Homeowner. New Jersey: Creative Homeowner.

GTXXXX SEED TECHNOLOGY

This course is designed to introduce students to agro-technology concepts. Upon completing the course, students are expected to describe the basics of concepts relating to seed technology, to find,

analysis and solve problems in seed technology. The application of seed technology through research results and to communicate with groups. The students have skills that relate to the college material application.

have a sense of responsibility, work hard, be honest, discipline in work with groups, and

have skills that relate to the college material application.

References

Agawal, R. L. (2021). *Seed Technology* (2nd ed.). UK: Oxford & IBH Publishing Co Pvt. Ltd.

Bhattacharjya, D. R., Maharjan S. K. (2019). *Plant Breeding and Seed Technology*. UK: Heritage Publications.

Salisbury, F. B., & Ross, C. W. (1985). *Plant Physiology*. USA: Wadsworth Publishing Company

Taiz, L. & Zeiger, E. (1998). *Plant Physiology* (3rd ed.). UK: Oxford University Press.

McMahon, M.E. (2020). *Plant Science: Growth, Development, and Utilization of Cultivated Plants* (6th ed.). USA: Pearson.

GTXXXX RESEARCH METHODS AND EXPERIMENTAL DESIGNS FOR AGRICULTURE

This course is designed to provide the foundation for research methods, experiments planning and interpreting the findings through relevant statistical analysis in experiments for agriculture. Upon completing the course the students are expected to be able to design, execute and analyse experimental programme.

References

Bailey, S. (2003). *Academic Writing: A Practical Guide for Students*. USA: Routledge

Feak, C.B., & Swales, J. (2012). *Academic Writing for Graduate Students: Essential Tasks and Skills*. USA: University of Michigan Press.

- Hoshmand, A. R. (2020). *Design of Experiments for Agriculture and The Natural Sciences* (2nd ed.). USA: CRC Press.
- Ireland, C. R. (2010). *Experimental Statistics for Agriculture & Horticulture*. UK: CABI Publication.
- Glaz, B., & Yeater, K. M., J. T. (2020). *Applied Statistics in Agricultural, Biological and Environmental Sciences*. USA: American Society of Agronomy Inc

GTXXXX LIVESTOCK PRODUCTION TECHNOLOGY

This course will acquaint students on basic aspects of various livestock and poultry including housing, feeding, breeding and healthcare. Students will gain knowledge on various systems of livestock production and Management Shelter designs and engineering, poultry farm and hatchery management, integrated livestock production systems in farming system, Integration of fish, arable farming and different livestock enterprises, livestock business management, management of rabbits and intensive rearing of goats, sheep, and buffaloes for meat and milk.

References

- Little, D.C., & Edwards, P. (2003). *Integrated Livestock-Fish Farming Systems*. Rome: FOA
- Renard, C. (1997). *Crop Residues in Sustainable Mixed Crop/Livestock Farming Systems*. USA: CABI.
- Reddy, D.V. (2007). *Applied Nutrition: Livestock, Poultry, Human, Pet, Rabbit and Laboratory Animal Nutrition*. UK: IBH & Oxford.
- Powell-Owen, W. (2008). *Poultry Farming and Keeping*. India: Daya Books.
- Kassam, A., Kueneman, E., Kebe, B., Souleymane, Farako-ba, Faso, B., & Youdeowei, A. (2010). *Enhancing Crop-Livestock Systems in Conservation Agriculture for Sustainable Production Intensification Integrated Crop Management Vol.7-2009*. Rome: FOA.

GTXXXX AQUACULTURE AND FISHERIES TECHNOLOGY

This course is designed to provide students with a strong foundation in professional or academic work in the field of aquaculture and fisheries. Upon completion the course the students are able to demonstrate the basic technical skills necessary for work in physical, biological, environmental data for sustainable aquaculture and fisheries management (e.g. culture system design, water quality analysis, fish health, nutrition, and growth, and scientific method for data collection and analysis). This course is deliberate to aware students with the halal aquaculture policies towards ‘Responsible Aquaculture and Fisheries and Management’. The students are able evaluate the importance on the recent advancement in science and technology towards the evolvement of aquaculture and fisheries management as the ‘Paradigm of Blue Ocean’. Besides, it also integrates existing information and skills to develop problem-solving strategies and technologies relevant to aquaculture and fisheries management to achieve the United Nations Sustainable Development Goals.

References

- Ágúst, E. & Ásta, D. O. (2020). *Fisheries and Aquaculture. The Food Security of the Future*. USA: Academic Press.
- Geoffrey, G. (2019). *Aquaculture: Principles and Practices*. USA: Syrawood Publishing.
- Jacob, B. (2015). *A guide to recirculation aquaculture*. Rome: FOA.
- Laura, G., Francesco, G., Giulia, M. & Lucrezia, G. (2018). *Feeds for the Aquaculture Sector: Current Situation and Alternative Sources*. USA: Springer.
- Sandhya, K. (2016). *Aquaculture and Fish Technology: Fundamentals, Applications and Economics*. Maldova: Lap Lambert Academic Publishing.

GTXXXX AGRICULTURAL EXTENSION

This course will equip students with the principles, theories and practices of agricultural extension. It will cover extension communication methods which will enable students to conduct practical demonstrations of new agricultural technologies to others especially farmers. Students will be exposed to individual, group and mass extension methods. The use of ICT for this purpose will be emphasized. Students will gain knowledge and skills needed for application in effectively planning, organizing and conducting extension and training programs to successfully transfer new agricultural technologies.

References

- Chole, R. R, Deshmukh, P. R. & Kapse, P. S. (2010). *Transfer of Agricultural Technology*. Jodhpur: Scientific Publishers.
- Janani, S., Sujeetha, T. N., Asokhan, M. & Harish, R. (2019). *Agricultural Extension: A Glimpse*. India: Scientific Publishers.
- Kalaitzandonakes, N., Carayannis, E.G. & Grigoroudis, E. (2018). *From Agriscience to Agribusiness: Theories, Policies and Practices in Technology Transfer and Commercialization (Innovation, Technology, and Knowledge Management)*. Cham: Springer International Publishing.
- Gerard, B. (2017). *Technology transfer: A Complete Guide*. South Carolina: CreateSpace Independent Publishing Platform.
- Eise, J. & H, W. (2016). *The Communication Scarcity in Agriculture*. London: Taylor & Francis Ltd.

GTXXXX PLANT, SOIL, FERTILIZER, AND WATER ANALYSIS

This course introduces students to the principles, concepts, and theories for analysing plant tissues, soils, fertilizers, and water for production agriculture. The course does not only enable students to interpret results from analyzed plant tissues, soils, fertilizers, and water samples but it also equips students with practical knowledge and skills needed for modern agriculture, particularly for resource optimization that translates into agronomic, economic and environmental efficiency (Agriculture 4.0).

References

- Pal, S.K. (2019). *Methods of Soil and Plant Analysis*. India: New India Publishing Agency-NIPA.
- Havlin, J.L., Tisdale, S.L., Nelson, W.L. & Beaton, J.D. (2016). *Soil Fertility and Fertilizers: An Introduction to Nutrient Management* (8th ed.). India: Pearson.
- Incorporated Administrative Agency (2020). *Testing Methods for Fertilizer*. Japan: Food and Agricultural Materials Inspection Center.
- Ali, T. & Nayaran, S. (2016). *Manual of Soil, Plant, and Water Analysis*. India: Daya Publishing House.
- Jorge Álvaro-Fuentes, Dénes Lóczy, Sören Thiele-Bruhn, & Raúl Zornoza. (2019). *Handbook of plant and soil analysis for agricultural systems*. Cartagena: CRAI Biblioteca

GTXXXX HORTICULTURAL TECHNOLOGY

This course introduces students to the principles and practices of Horticulture. Students will be exposed to matters related to the different branches of horticulture as well as business and career opportunities in the horticultural industry. The different systems and practices in horticultural crop production will be elaborated. Potential, high value crops will be introduced. New technologies and approaches adopted by horticultural practitioners such as soilless culture, vertical farming, “food factory” concepts, AI and IOT will be thoroughly discussed. Topics on nursery establishment

& management and plant material production, maintenance & handling will be revisited.

References

- Bird, C. (2014). *The Fundamentals of Horticulture: Theory and Practice*. Cambridge: Cambridge University Press
- Christians, N.E., Patton, A.J. & Law, Q.D. (2016). *Fundamentals of Turfgrass Management*. New York: John Wiley & Sons, Inc.
- Kozai, T., Niu, G. & Takagaki, M. (2019). *Plant Factory: An Indoor Vertical Farming System for Efficient Quality Food Production*. San Diego: Elsevier Science Publishing.
- Mefferd, A. (2019). *The Organic No-Till Farming Revolution: High Production Methods for Small-Scale Farmers*. Gabriola Island: New Society Publishers.
- Yahia, E.M. (2019). *Postharvest Technology of Perishable Horticultural Commodities*. San Diego: Elsevier Science Publishing Co. Ltd..

GTXXXX AGRICULTURAL WASTE MANAGEMENT AND UTILIZATION TECHNOLOGIES

This course introduces students to the basic concept on waste, types and sources of waste; Students will gain knowledge on wastes that are agriculturally based and understand different sources of agricultural wastes; Students also classify and characterize wastes that are hazardous in nature; Students are able to know and understand the decomposition of organic matter; the series of microorganism involved in the decomposition process; learn the simple way of carrying out the composting of organic wastes and residues; the general impact of various waste sources on the environment; Employ different waste management strategies to solve waste generation and its impact on environment; It also discusses different waste reduction, reuse and recycling techniques, landfilling and incineration of wastes, which are the conventional ways of waste treatment and disposal techniques; This course also

acquaint with students the modern ways of waste treatment and disposal, which include: pyrolysis, gasification, combined pyrolysis – gasification and anaerobic digestion; The course also reveals the integrated waste management technology is discussed, which combines all the technologies in one system.

References

- Barnes, Jr. R.C. (2018). *Agricultural Waste Management Field Manual*. UK: Forgotten Books Press.
- Camille, N. F. (2015). *Agricultural Wastes: Characteristics, Types and Management*. USA: Nova Science and Publishers.
- Devender, M., R., Mandapati, R. & Deepthi, C.H. (2019). *Agricultural Waste Management*. India: Kalyani Publishers.
- Muzaffar, A. B., Wani, A. A., Sikander, B. M., Lone, Y. & Malik, J.M. (2020). *Innovative Waste Management Technologies for Sustainable Development*. USA: IGI Global
- Zainul, A.Z. (2018). *Sustainable Technologies for the Management of Agricultural Wastes*. USA: Springer.

GTXXXX POST PRODUCTION TECHNOLOGY

Upon completion of the course, students are expected to be able to understand and use the principles of post-harvest technology, apply the basic principles and processes affecting postharvest quality, the harvesting systems (traditional and modern); postharvest biology (microbes and insect pests) as well as the physiology and chemistry of horticultural crop and livestock products, know how to apply this information to daily practice by developing strategies to maintain postproduction quality as well as the importance of quality, safety and marketability of the agricultural products. The skills and knowledge obtained will give the student the understanding on consumer attitudes, how to reduce postharvest loss, improve the quality of processed products, and add value to products to make more quality food available.

References

- Bala, B.K. (2020). *Agro-Product Processing Technology*. USA: CRC Press.
- Basharat, N.D., & Shabir A.M. (2021). *Emerging Technologies for Shelf-Life Enhancement of Fruits*. USA: Apple Academic Press.
- Galanakis, C.M. (2019). *Sustainable Meat Production and Processing*. USA: Elsevier.
- Stadelman, W.J., Newkirk, D., & Newby, L. (1995). *Egg Science and Technology* (4th ed.). USA: CRC Press
- Yikmus, S. (2019). *Technological Developments in Food Preservation, Processing, and Storage*. USA: IGI Global.

GTXXXX AGRICULTURE WATER RESOURCE MANAGEMENT

This course will enable students to effectively and efficiently manage water resources for agriculture. Existing agriculture water resources, their quality, uses, and sustainable management will be emphasized. Students will appreciate that water is a scarce resource that needs to be managed well especially in the context of changing climate and other environmental factors. Current issues related to water use will be highlighted and discussed. Students will be introduced to existing technologies for managing water resources in agriculture and soil-water-plant relation. Students should be able to make a scientific assessment of plant water requirements and water resources, the management of efficient irrigation systems, agricultural drainage and watershed management.

References

- Finley, S. (2016). *Sustainable Water Management in Smallholder Farming: Theory and Practice*. England: CABI.
- Ehsan, G. (2018). *Agricultural Drainage*. Extension Bulletin E3370 New February 2018. Michigan State University Extension

- Kirkham, M. B. (2005). *Principles of Soil and Plant Water Relations*. Amsterdam: Elsevier
- Srivastava, P., Gupta, M., Tsakiris, G. and Quinn, N. (2020). *Agricultural Water Management: Theories and Practices*. USA: Academic Press.
- Oweis, T. (2018). *Water Management for Sustainable Agriculture*. London: Burleigh Dodds Science Publishing.

GTXXXX GENETICS AND BREEDING TECHNOLOGIES

This course is designed to give understanding of the basic and fundamental principles of genetic and breeding plants, and animals. Foundation of conventional and modern technologies, plant culture and the effect of environmental factors on genetic, plant growth and development, biotechnology in agriculture.

References

- Higgins, I. J. (1985). *Biotechnology Principles and Applications*. London: Blackwell Scientific Publications.
- Jumin, H.B. (2013). *Plant Genetic Resources: A Review; Biotechnology in Citrus Relatives*. Germany: Lambert Academic Publishing.
- McMahon, M.E. (2020). *Plant Science: Growth, Development, and Utilization of Cultivated Plants*. USA: Pearson.
- Mather, J. P., & Roberts P. E. (1998). *Introduction to Cell and Tissue Culture*. New York: Theory and Press.
- Thieman, W. J., & Palladino, M. A. (2013). *Introduction to Biotechnology* (3rd ed.) Boston: Pearson.

GTXXX SOIL FERTILITY AND MANAGEMENT

This course enables students to understand the concept of soil fertility as the interactions among the physical, chemical, and biological properties of soils. The course also emphasizes on the sustainable management of soil fertility in relation to soil and crop productivity in modern agriculture. Maintenance of tropical soil health will be emphasized. Besides comprehending the principles and theories of soil fertility, upon completing this course, students will be able to assess soil fertility, soil health and quality to

recommend soil management in manner that ensures sustainable agronomic and environmental efficiency of farming systems.

References

- Havlin, J.L., Tisdale, S.L., Nelson, W.L. & Beaton, J.D. (2016). *Soil Fertility and Fertilizers: An Introduction to Nutrient Management* (8th ed.). India: Pearson.
- Hennig, E. (2016). *Secrets of Fertile Soils: Humus as the Guardian of the Fundamentals of Natural Life*. Texas: Acres USA Inc.
- Plaster, E.J. (2013). *Soil Science & Management* (6th ed.). USA: Delmar Cengage Learning.
- Sharanappa (2021). *Soil Fertility and Nutrient Management*. India: NIPA Publishing.
- Weil, R.R., & Brady, N.C. (2017). *The Nature and Properties of Soils* (15th ed.). Harlow: Pearson Education Limited.

GTXXXX ANIMAL HEALTH AND HOUSING

In this course, student will be focus into animal health to improving and enhancing welfare. The course combines classroom, field practical, research with applied science skills for use within the animal sector knowledge .In practical situations where an in-depth understanding of animal health and welfare might be of benefit, for example in animal production, utilisation of animals for educational/therapeutic purposes, conservation efforts, and the role/value of animals in society more generally. The course will cover the scientific theory and practice relating to animal health. It will also critically evaluate and assess the biological and physiological with the aim of improving our understanding and overall the quality of animal welfare .

References

- Dewulf, J., & Immerseel, F. V. (2018). *Biosecurity in animal production and veterinary medicine: From principles to practice*. Leuven: Acco.

- Fuller W. Bazer, G., Lamb, C., & Wu, G. (2019). *Animal Agriculture: Sustainability, Challenges and Innovations*. San Diego: Elsevier Science Publishing Co Inc.
- Davis, R.G. (2011). *Animals, Diseases, and Human Health: Shaping Our Lives Now and in the Future*. USA: ABC-CLIO.
- Olsson, A., & Galindo, F. (2018). *Animal Welfare*. UK: CABI Publishing.

GTXXXX APPLIED RESEARCH PROJECT

This course is designed to provide the students opportunity to do research project which include foundation planning and proposing proposal, literature review and on-field/experimental research and interpreting the findings. Upon completing the course the students are expected to be able to design, execute and analyse research project.

References

- Bailey, S. (2003). *Academic Writing: A Practical Guide for Students*. USA: Routledge
- Feak, C.B., & Swales, J. (2012). *Academic Writing for Graduate Students: Essential Tasks and Skills*. USA: University of Michigan Press.
- Glaz, B., & Yeater, K. M., J. T. (2020). *Applied Statistics in Agricultural, Biological and Environmental Sciences*. USA: American Society of Agronomy Inc
- Hoshmand, A. R. (2020). *Design of Experiments for Agriculture and The Natural Sciences* (2nd ed.). USA: CRC Press.
- Ireland, C. R. (2010). *Experimental Statistics for Agriculture & Horticulture*. UK: CABI Publication.

GB0001 INTRODUCTION TO SCIENCE OF AGRICULTURE

This course is designed to give understanding on the basic and fundamental principles of sciences which is important in order to comprehend agricultural science. This course aims to give the foundation of knowledge for sciences that are relevant in different areas of agriculture including plants, animals, soil and health. Upon completing the course, students are expected to apply knowledge towards further understanding of agriculture.

References

Field, T.G., & Taylor, R.E. (2020). *Scientific Farm Animal Production: An Introduction to Animal Science* (12th ed.). USA: Pearson.

McMahon, M.E. (2020). *Plant Science: Growth, Development, and Utilization of Cultivated Plants* (6th ed.). USA: Pearson.

GB0002 BASIC LABORATORY PRACTICAL SKILLS

This course is designed as a practical accompaniment to the module Science of agriculture. It is to equip students with basic technical skills in laboratory techniques for agriculture science. Upon completion of the course, students will be able to apply basic practical knowledge in understanding theoretical knowledge and working proficiently in laboratories, including preparation of chemical reagents, collection, safe handling, processing, and analysis of biological specimens.

References

Meah, M. and Kebede-Westhead, E. (2008). *Essential Laboratory Skills for Biosciences*. United States: Wiley.

Saba, B. (2011). *Laboratory Skills in Water and Wastewater Analysis*. Saarbrücken, Germany: VDM Verlag.

Thien, S. and Graveel, J. (2008). *Laboratory Manual for Soil Sciences Agricultural AND Environmental Principles*. Iowa, United State: Kendall Hunt Publishing.

GB0003 FOUNDATION OF BUSINESS

This course is designed to expose the students with the necessary foundation to understand agribusiness. The course emphasises on learning by doing, and therefore, students are regularly required to work on actual projects. The students will have the opportunity to apply the concepts and strategies in the classroom to real life through projects, such as the set-up and operation of a pushcart. Upon completing the course, students are expected to be able to apply basic theories and concepts and the fundamentals of starting and operating a business.

References

Barnard, F., Ckridge, J., Dooley, F. & Foltz (2018). *Agribusiness Management* (4th ed.). USA: Routledge.

Erickson, S., Ckridge, J. T., Barnard, F. & Downey, D. (2017). *Agribusiness Management* (3rd ed.). USA: McGraw-Hill.

Ricketts, C. & Rawlins, N. O. (2017). *Introduction to Agribusiness*. USA: Thomson Reuters.

GB0004 ACADEMIC NUMERACY & IT SKILLS

This course is designed to introduce the essentials of mathematics. The module will also use interactive software used at the university

and in the workplace. Upon completing the course, the students should be able to understand key concepts, skills in solving problems and on the use of the Microsoft Excel spreadsheet as a tool in agriculture related quantitative computation and analysis.

References

- Buglear, J. (2004). *Quantitative Methods for Business*. Oxford. United Kingdom: Butterworth-Heinemann Ltd
- Kolluri, B., Panik, M.J. and Singamsetti, R.N. (2016). *Introduction to Quantitative Methods in Business : With Applications Using Microsoft Office Excel Set*. Hoboken, United States: Wiley-Blackwell.
- Anderson, D., Sweeney, D., Williams, T., Fry, M., Ohlmann, J., Camm, J. and Cochran, J. (2016). *Quantitative Methods for Business*. Florence, United States: South-Western College Publishing.

GB0005 ACADEMIC LITERACY SKILLS

This course is designed to reinforce essay composition skills and introduce students to the practice of writing for academic purposes. It will prepare students for work in high level English courses in which research writing is a requirement. Upon completing the course, the students should be able to use basic research writing skills including: conducting research, note taking, paraphrase, summary, direct quotation, positioning, and MLA or APA style citation.

References

- Bailey, S. (2018). *Academic Writing: A Handbook for International Students*. London: Taylor & Francis Ltd.

- Oshima, A. and Hogue, A. (2017). *Longman Academic Writing Series 4 : Essays, with Essential Online Resources*, 5th Edition. Upper Saddle River, United States: Pearson Education.
- Read, S.H. (2018). *Academic Writing Skills for International Students*. New York, United Kingdom: Red Globe Press.

MINOR PROGRAMMES

FACULTY OF USULUDDIN

MINOR IN CONTEMPORARY DA'WAH

MANDATORY COURSES

UA3104 INTRODUCTION TO DA'WAH

The content of this course: The definition of Islamic *da'wah*, tasks and responsibilities of *da'wah*, objectives of *da'wah*, *da'wah* and characters of *Da'i*, responsibilities and qualification of *da'i*, strategies of *da'wah*, challenges and solutions in contemporary *da'wah*.

References:

- Ibn Hisyam, 'Abdullah (n.d). *Al-Sirah al-Nabawiyyah*. Beirut: Dar al-Jeel.
- Nasr, Seyyed Hossein. (1964). *Traditional Islam in the Modern World*. London: Kegan Paul.
- Rahman, Fazlur. (1982). *Islam and Modernity: Tranformation of an Intellectual Tradition*. Chicago: University of Chicago Press.

UM3004 TAFSIR

The Introduction of Tafsir, its definition, its gradual development, its categories, the explanation of the important rules and principles in Tafsir, the needed appliances by the interpreter, explanation of the rules in interpretation the meaning of the Qur'an, and which may not be allowed and may not be benefits. The course will focus on the exegesis of leading Qur'an interpreters on the last three parts of the Qur'an (parts 28, 29 and 30).

References:

- Al-Jumal, al-Sheikh Sulayman ibn Umar al-'Ajali al-Shafi'i. (1994). *Al-Futuhat al-Ilahiyyah bi Taudih Tafsir al-Jalalayn li al-Daqa'iq al-Khafiyyah*. Beirut: Dar al-Fikr.
- Ushama, Thameem (2013). *History and Sciences of the Qur'an*. Malaysia: IIUM Press.

Al-Mubarakpuri, Shaykh Saifur Rahman, (2003). *Tafsir Ibn kathir*, Riyadh: Darussalam.

UM3005 HADITH

The course will include the selection of some Ahadith with brief explanation from the forty Hadith of al-Imam an-Nawawi, on various topics, such as the importance of intention, definition of Islam, iman and ihsan, Pillars of Islam, Man's development and final deeds, prohibition of innovation in religion, avoidance of doubtful matters, religion is sincerity, obedience to the prophet (s.a.w), good character, Avoiding sins, shame and shyness, some attributes of Allah, righteousness and wrongdoing, social behavior. The focus will be on objectives and legal injunctions deduced from the Hadith.

References:

- Al-Bugha, Mustafa and Misto, Muhyiddin. (1420AH/1999AD). *Al-Wafi fi Syarh al-Arba'in al-Nawawiyah*, Damascus: Dar Ibn Kathir.
- Abdullah, Abdul Manas, Ismail, Shayuthy, (2006), *Introduction to the Sciences of Hadith*, Malaysia: Research Centre, IIUM
- Muhammad, Umm, (1999). *The Forty Hadith of al-Imam an-Nawawi*. Saudi Arabia: Abdul-Qasim Publishing House

OPTIONAL COURSES

UA3105 ISLAMIC MEDIA

The content of this course includes, but not limited to, defining Islamic media academically and linguistically, modern tools of communications including social media, stature of media in Islam and its importance in propagating the faith; development of Islamic media outlets compare to secular non-Islamic media; fundamentals and characteristics of media based on Islamic teachings; principles of media as reported through the teaching of the Qur'an and the

guidance of the Prophet Muhammad (PBUH). The performances and outcomes of Islamic media along with Islamic ethics are to be observed in all media techniques and methods; examples of contemporary Islamic media from newspapers, magazines, radio and TV, satellite channels, Islamic online web pages, social media tools, challenges faced by Muslim communities via global media reporting and find ways and means for enhancing better understanding of Islam in the media.

References:

- Ab. Razak, A. and A. Abdul Majeed, (eds.). (2002). *Enhancing the Understanding of Islam for the Media*. Kuala Lumpur: Institute of Islamic Understanding Malaysia.
- Bunt, G. R. (2000). *Virtually Islamic: Computer-Mediated Communication and Cyber Islamic Environments*. Cardiff, UK: University of Wales Press.
- Mowlana, H. (1998), "Covering Islam: Media and Its Impact on Muslim Identity". Paper presented at the International Conference on Muslim Identity in the 21st Century: Challenges of Modernity. School of Oriental and African Studies, University of London.

UM3003 STUDIES IN WORLD RELIGION

This course is an introduction to world major religions from an Islamic viewpoint. It will explore religious communities such as Hinduism, Buddhism, Judaism, Christianity, Chinese religions and native traditional believe systems as known in Brunei Darussalam. What do religious communities have in common, and what distinguishes them from each other? The contents of this course will focus on how Muslim students understand the discipline of studying "World Religions" and/or "Comparative Religion" as known among contemporary Muslim intellectuals and Islamic institutions. Specifically, this course will survey world major religions including topics such as their socio-historical background, philosophy, worship, rituals, sects, institutions, women status, "fundamentalist" movements, modern lifestyles and Qur'anic perspective. Other issues such as maintenance of religious identity; the media; diversity, secularization in the western society, will briefly be explored.

References:

- Al-Biruni, A, (d. 1048). *Al-Biruni's India: An Account of the Religion, Philosophy, Geography, Chronology, Astronomy, Custom, Laws and Astrology of India about AD 1030*. Edward C. Sachau, (ed.), trans., with notes and indices. London: Kegan Paul, Trench, Trubner and Co., 1910.
- Al-Faruqi, I. R, (1998). *Islam and Other Faiths*. Ataullah Siddiqui (ed.). Leicester, England: The Islamic Foundation.
- Kazi, A. K. and J. G. Flynn, (1984), "Introduction to Muhammad b. 'Abd al-Karim Shahrastani." *Muslim Sects and Divisions*. London: Kegan Paul International.

UM3006 CONTEMPORARY THOUGHTS

Definitions of the intellectual invasion and contemporary ideologies such as theory of Darwinism, Freemasonry, Zionism, Nationalism and its relationship with colonialism, Secularism, Liberalism, Sisters in Islam and its relationship with orientalist and missionaries, Baha'ism, Ahmadiyah and Qadiyani movement which include developments and goals of each ideologies and highlights the Islamic views of these ideologies.

References:

- Al-Samuk, Sam'oun Mahmud. 2006. *Fi al-Mazahib al-Gikriyyah al-Mu'asirah*. Amman: Dar Wail li al-Nashr wa al-Tauzi'.
- Qutb, Muhammad. 1988. *Mazahib Fikriyyah Mu'asirah* (3rd eds). Dar al-Syuruq.
- Yasin Ghadban. 2012. *Madkhal li Dirasah al-Islam wa al-Mazahib al-Mu'asirah*. Amman: Dar al-I'lam

UM3007 TAUHID

The definition of the science of al-Tawhid and its three sections: divinities, prophecies, *al-Sam'iyat*; the legitimacy of these knowledge and belief. The nature of Allah and His compulsory, permissible and impermissible attributes. The method of theologians in proving the existence of Allah and his attributes, analogical texts and stand of the predecessor and successor toward it. *Qada'* and *Qadar* (predestination)), human free will. The concept

of prophecy and divine mission, the human need towards it. Attributes which are compulsory, permissible and impermissible for the Prophets. *Khatm al-Nubuwwah* (seal of the Prophets) and universal message of Muhammad (peace be upon him). Miracles and miraculous of Quran. *Sam'iyat* (Transmitted knowledge) and its content: concept of death and *barzakhiyyah*, End of Time and its signs, resurrection and its horrors, heaven and pleasures, hell and torment.

References:

- Al-Buti, Muhammad Said Ramadan. (1402H). *Kubra al-Yaqiniyyat al-Kauniyyah*. Dar al-Fikr.
- Al-Ghazali, Abu Hamid Muhammad. (1988). *Al-Iqtisad fi al-I'tiqad*. Beirut: Darul Kutub al-'Ilmiyyah.
- Al-Shafi'i, Mahmud. (1991). *Al-Madkhal Ila Dirasat 'Ilm al-Kalam*. ed. 2. Cairo: Maktabah Wahbah.

UM3008 TASAWWUF

Tasawwuf, its lexical root and technical meaning and its Quranic and prophetic basis, views on the sources of Tasawwuf, the emergence of Tasawwuf and its relation to asceticism and worship, the link between Tasawwuf and 'aqidah, shari'ah and ethics, Notification of the most renowned Sufi Orders (Qadiriah, Syaziliyah and Naqshabandiyah), Spiritual stations and positions among Sufis such as *tawba*, *wara'* and *tawakkul*, some of the major issues in Tasawwuf such as *al-hulul*, *al-ittihad* and *wahdatul wujud* in the light of the analytical views of the sufi Masters and their training methods.

References:

- Imam Ghazali. (n.d). *Ihya Ulum al-Din* (The Book of Knowledge). Transl: Nabih Amin Faris. New Delhi: International Islamic publishers
- Al-'Aid, Abd al-Latiff Muhammad. (1999). *Al-Tasawwufi al-Islam wa aham al-I'tiradat al-waridah 'alaihi*. Cairo: Dar al-Nasr li al-tTauzi' wa al-Nashr.
- Al-Kurdi, Muhammad Dhiyaa al-Deen. (1971). *Nash'ah al-tasawwuf al-Islamiy*. Cairo: Al-Matba'ah al-Fanniyyah.

FACULTY OF SHARIAH AND LAW

MINOR IN LAW

MANDATORY COURSES

LB1301 CONSTITUTIONAL AND ADMINISTRATIVE LAW I

This course commences with some historical perspectives of the Constitution of Brunei Darussalam. This is followed by the discussion on the conventional fundamental constitutional concepts; the Rule of Law; the Separation of Powers; the Royal Prerogative; and Sovereignty, with special focus of these concepts in the Bruneian constitution. The course will also discuss the structures and roles of the institutions of a State, including the Executive, Legislature and Judiciary, and the relationship between the individuals and the State, citizenship, immigration, and the State security. Some comparative aspects of constitutional law will also be covered, including Commonwealth constitutional relations.

References

- Carroll, A. (2007). *Constitutional and Administrative Law*. 4th ed. Essex: Pearson Education Limited.
- Elliott, C. & Quinn, F. (2007). *English Legal System*. 8th ed. Essex: Pearson Education Limited.
- Faruqi, Shad Saleem. (2008). *Document of Destiny: The Constitution of the Federation of Malaysia*. Petaling Jaya: The Star Publications (M) Bhd.

SL2302 INTRODUCTION TO LAW AND LEGAL SYSTEM IN BRUNEI

The course contains the study of the fundamental concepts, structures, and functions of the legislature and the role of the judiciary, which includes the role of law in the society; sources of law; the court system in administration of justice; alternative dispute resolution; legal reasoning; statutory interpretation; and some basic laws, such as constitutional law, law of tort, criminal law, and law of contract.

References:

- ASEAN Law Association. (1995). *ASEAN Legal Systems*. Singapore: Butterworth's Asia.
- Burton, S.J. (1995). *Introduction to Law and Legal Reasoning*. 2nd ed. Aspen Publishers.
- Elliot, C. & Quinn, F. (2007). *English Legal System*. 8th ed. Essex: Pearson Education Ltd.

SJ4310 KANUN JENAYAH SYARIAH

Kursus ini mengandungi kajian berkaitan sifat, tujuan dan skop Kanun Keseksaan Brunei (Perenggan 22). Tumpuan akan diberikan kepada jenis-jenis kesalahan seperti yang terdapat dalam Kanun tersebut, termasuk kesalahan bunuh, mencederakan orang rogol, curi, rompakan dan lain-lain lagi; prinsip-prinsip undang-undang jenayah, prinsip-prinsip am seperti, kesilapan (*mistake*), kemalangan, ugutan, keperluan (*necessity*), persetujuan dan hak-hak pertahanan diri. Kajian perbandingan undnag-undang jenayah Islam dengan Kanun Keseksaan Brunei (Perenggan 22) juga akan dibincangkan dari semasa ke semasa.

Rujukan:

- Anwarullah. (1997). *The Criminal Law of Islam*. Kuala Lumpur: A.S. Noordeen Publisher.
- Chandrachud, Y.V. & Manohar V.R. (Eds.) (2007). *Ratanlal's & Dhirajlal's Law of Crimes: A Commentary on the Penal Code*. 26th ed. New Delhi: Bharat Law House.
- Kanun Keseksaan Brunei (Perenggan 22)*.

OPTIONAL COURSES (any TWO courses)**LS1301 PRINCIPLES OF ISLAMIC JURISPRUDENCE I**
<Usul al-Fiqh 1>

The course covers the definition of Usul al-Fiqh; subject-matter of Usul al-Fiqh; distinction between Usul al-Fiqh and fiqh; emergence and development of Usul al-Fiqh; approaches to writing in Usul al-Fiqh. This course also discusses the origin of Shariah (the

Lawgiver); the nature and conditions of *taklif*; Legal capacity: meaning, types and causes of deficiency; classification of *hukm*: the obligatory, the forbidden, the recommended, the disapproved of, and the permissible; including the concepts of *rukhsah* and *'azimah*.

References:

- Abdur Rahim. (1994). *The Principles of Islamic Jurisprudence*. India: Kitab Bhavan.
- `Alwani, Taha Jabir Fayyad. (1990). *Source Methodology In Islamic Jurisprudence: Usul al-Fiqh al-Islami*. Herndon, Va. USA: International Institute of Islamic Thought.
- Kamali, Mohammad Hashim (2003). *Principles of Islamic Jurisprudence*. UK: Islamic Texts Society.

LB4305 BUSINESS LAW

The course covers the study of concepts, principles and application of the laws and regulations relating to the sale of goods, agency, hire purchase and employment. The study discusses relevant statutory provisions, case law and application of various legal concepts on these areas of law.

References:

- Atiyah, P.S., Adams, J.N. & MacQueen, H. *The Sale of Goods*. 10th ed. London: Longman.
- Aun, Wu Min. (1994). *Legal Aspects of Sale of Goods*. Kuala Lumpur: Longman (Malaysia) Sdn Bhd.
- Keenan, D. & Riches, S. (2007). *Business Law*. 8th ed. Essex: Pearson Education Ltd.

LS4306 ISLAMIC FAMILY LAW

The course focuses on the relevant marital issues, such as the importance and role of family, un-Islamic alternative practices of marriage (adultery, temporary marriage, illegal cohabitation, same-sex marriage), required characteristics of spouse, *kafa'ah* in marriage, betrothal and its rulings, solemnization of marriage and its rulings, conditions, essential requirements, and legal effects (dowry, maintenance, property ownership, paternity), unlawful marriage, polygamy, fosterage, types and rulings in dissolution of marriage as

well as its legal effects such as period of abstention, maintenance, guardianship and mut'ah. It includes the discussion on the Shariah legal rulings, provisions in the law supported by the case law studies.

References:

- Ahmad Ibrahim (1997). *Family Law in Malaysia*. Kuala Lumpur: Malayan Law Journal.
- Mohamad Som Bin Sujimon dan Abdul Basir bin Mohamad (2006). *Fikah Kekeluargaan*. Kuala Lumpur: UIAM.
- Najibah Mohd. Zin (2016). *Islamic Family Law in Malaysia*. Kuala Lumpur: Sweet & Maxwell Thomson Reuters.

LS5303 LAW OF THE EVIDENCE IN THE SHARIAH COURT

The course covers the meaning of Islamic law of evidence; the importance of evidence in the court; Islamic maxims relating to Islamic law of evidence; proceeding; essential requirements and conditions of Islamic law of evidence; discussion on some methods of evidence in Islamic law including *iqrar* (admission), *shahadah* (witness), *yamin* (oath), *qasamah* (collective oath relating to a murder), *qafah* (genetic evidence), *qarinah* (circumstantial evidence), *qur'ah* (lucky draw), *Ilm al-qadi* (the knowledge of the judge), *kitabah* (written documents), sections of the law and cases of Islamic law of evidence act.

References:

- Abdul Karim Zaidan. (1993). *Prinsip-Prinsip Pendakwaan dan Pembuktian Dalam Sistem Kehakiman Islam* (Terjemahan). Kuala Lumpur: Penerbit Hizbi.
- Abdul Rahman Mustafa. (1990). *Prinsip-Prinsip Undang-Undang Keterangan Islam*. Kuala Lumpur: Al-Rahmaniah.
- Ibn al-Qayyim. (1977). *Al-Turuq al-Hukmiyyah*. Jeddah: Matba'ah al-Madani.

LS4302 CONTEMPORARY ISSUES IN FIQH

The study covers the following topics: cloning, organ transplantation, surrogate motherhood, milk banks, hymenoplasty,

cosmetic surgery, fetus gender selection, abortion, acting, painting, making statues (sculpturing) and music.

References:

- Abu Zaid, Baker AbdelAllah (1996). *Fiqh al nawazel*. Beirut: Mu'assasat al-Risalah.
- Al Qirra Daggy, 'Ali 'Al Muhammady Ali Yousif (2005). *Fiqh al qadaya al tibbiya al muassara*. Beirut: Dar al Bashair.
- Al Salous , Ali Ahmed (1996). *Al Iqtasad Al Islami Wa Al Qadaia Al Fiqhia Al Moussara*. Doha: Dar Al Thakafa K Moassasit Al Resala.

FACULTY OF ARABIC LANGUAGE

MINOR IN TRANSLATION

MANDATORY COURSES

AA2314 AL-MADKHAL ILA AT-TARJAMAH

الترجمة وأهميتها، تعريفات الترجمة، مؤهلات المترجم، ميادين الترجمة، أنواع الترجمة: الترجمة التحريرية والترجمة الفورية، أصناف النصوص، تحليل النص، نظريات الترجمة عند العرب الأوائل، الترجمة الدينية، الترجمة الأدبية، الترجمة والمكافآت والترجمة والثقافة، وترجمة نصوص من العربية إلى الملايوية، ومن الإنجليزية إلى الملايوية والعكس.

References

خورشيد، إبراهيم زكي. (1985م). *الترجمة ومشكلاتها*. القاهرة: الهيئة المصرية العامة للكتاب.
ديداوي، محمد. (1992م). *علم الترجمة بين النظرية والتطبيق*. تونس: دار المعارف للطباعة والنشر.
محمد، عبد الغني عبد الرحمن. (1986م). *دراسة في فن التعريب والترجمة*. القاهرة: مكتبة الانجلو المصرية.

AA4326 TARJAMAH AL-NUSUS AL-DINIYAH

نشأة وتطور ترجمة النصوص الدينية وبخاصة ترجمة كتاب الله ، ووجهات نظر العلماء فيها قديما وحديثا ، وفضل العلماء في ترجمة كتب التراث، وضرورة دراسة هذه الترجمة، وترجمة الأسماء بأنواعها، والأفعال والأحرف بأقسامها، ومعرفة الأسرار اللغوية للنصوص ومختلف المصطلحات، وتعدد الترجمات، والأصول المنهجية، وأساليب ترجمة النصوص الدينية.

References

لارسون ، ملديرد. (2007). *الترجمة والمعنى*. ترجمة: محمد محمد حلمي هليل. الكويت: جامعة الكويت.
نيومارك، بيتر. (1992). *الجامع في الترجمة*. ترجمة: حسن غزالة. د. م: دار الحكمة.
Abdullah Hassan, Aionon Mohammad. (2008). *Teori dan Teknik Terjemahan*. Kuala Lumpur: PTS Professional Publishing Sdn. Bhd.

AA4332 AL-TARJAMAH AL-FAWRIAH

تحتوي هذه المادة على التعريف بالترجمة الفورية وأنواعها، ومزايا ومؤهلات المترجم الفوري، وثقافته، وأخلاقيات المترجم الفوري، الترجمة التتابعية مع تدريب وتطبيق على مواقف من الترجمة بين العربية والملايوية/ الإنجليزية.

References

حديد، حسيب إلياس. (2014م). *أصول الترجمة: دراسات في فن الترجمة بأنواعها كافة (الترجمة الفورية والأدبية والإعلانية)*. بيروت: دار الكتب العلمية.
خلوصي، صفاء. (1986م). *فن الترجمة*. القاهرة: الهيئة المصرية العامة للكتاب.
عناي، محمد. (2000م). *فن الترجمة*. ط5. القاهرة: لونجمان.

OPTIONAL COURSES (1 of Two) - Year 2 Semester 2

AA3321 AL-AKHTAA' AL-SYA'IAH FI AL-TARJAMAH

تحتوي هذه المادة على التعريف بأهم الأخطاء الشائعة في الترجمة، مع بيان أسباب هذه الظاهرة اللغوية، وأنواعها، ونتائجها، وأثارها المختلفة، وبيان أشهر الأخطاء الشائعة في ترجمة الأسماء، والأفعال، والحروف، والتراكيب، والمصطلحات المتعددة، مع بيان ضرورة معرفة الثقافات اللغوية لتحاشي الوقوع في هذه الأخطاء؛ وذلك من خلال النماذج التطبيقية المتنوعة.

References

لارسون ، ملريد. (2007م). الترجمة والمعنى. ترجمة: محمد محمد حلمي هليل. الكويت: جامعة الكويت.
مناع، علي. (د.ت). الترجمة بين التصويب والتعقيب. لندن: منشورات الاختلاف.
نيو مارك، بيتر. (2004م). الجامع في الترجمة. ترجمة: حسن غزالة. الرياض: دار كنوز المعرفة.

AA4325 AL-TARJAMAH AL-ALIYYAH

تحتوي هذه المادة على بيان مفهوم الترجمة الآلية، نشأتها وتطورها، الهدف منها، الوضعية الراهنة للترجمة الآلية، أنواعها، ونظمها ومراحلها، فعاليتها ومشكلاتها، الترجمة الآلية التفاعلية، الترجمة الآلية للعربية، وتحليل بعض نماذج لبرامج الترجمة الآلية المتاحة مثل غوغل، عجيب، وغيرهما. طرق تحسين النص المترجم آلياً.

References

الجمعاوي ، صابر. (2009). القضايا المصطلحية في الترجمة الآلية. الرباط: المركز العربي للتعريب والترجمة والتأليف والنشر.
الحميدان، عبد الله حمد. (2001م). مقدمة في الترجمة الآلية. الرياض: مكتبة العبيكان.
الشريف، حسن. (2000م). تقرير المسح عن الترجمة الآلية في الوطن العربي. بيروت: مركز دراسات الوحدة العربية.

OPTIONAL COURSES (1 of Three) - Year 3 Semester 1

AA4327 TARJAMAH AL-NUSUS AL-IQTISADIYYAH WA AL-IDARIYYAH

تحتوي هذه المادة على بيان مفهوم النصوص الاقتصادية والإدارية، وأنواعها، وأهم معاجم المصطلحات الاقتصادية والإدارية، وأبرز المصطلحات المستخدمة في المكاتب الحكومية ومكاتب القطاع الخاص. ومناقشة أهم إشكاليات ترجمة النصوص الاقتصادية والإدارية، واقتراح حلول لها؛ من خلال التدريب على ترجمة نصوص مختارة من الكتب والدوريات والمجلات والصحف الإنجليزية والعربية.

References

إسماعيل، صلاح حامد. (2003م). دليل المترجم. القاهرة: دار الطلائع للنشر والتوزيع والتصدير.
الحملوي، محمد رشاد. (1997م). القاموس الحديث في العلوم الإدارية والمحاسبة الاقتصادية. القاهرة: مطابع الأهرام التجارية.
الخولي، محمد علي. (2001م). الترجمة الإدارية والمالية من اللغة الإنجليزية إلى اللغة العربية. القاهرة: دار الفلاح للنشر والتوزيع.

AA4328 TARJAMAH LUGHAH AL-I'LAM

تحتوي هذه المادة على بيان مفهوم اللغة الإعلامية، وأهم الخصائص العامة لها، وترجمة أسلوب الكتابة الإذاعية، ومكونات لغة الراديو والتلفزيون وترجمتها، ترجمة لغة الأخبار في الراديو والتلفزيون، ترجمة لغة الصحافة، ترجمة لغة بيانات العلاقات العامة والرسائل الإعلانية، ترجمة الأخبار والتقارير، والتعليق على الأنباء مع دراسة أخطاء شائعة في ترجمة اللغة الإعلامية.

References

شرف، عبد العزيز. (1991م). اللغة الإعلامية. بيروت: دار الجيل للطبع والنشر والتوزيع.
عناي، محمد. (2000م). فن الترجمة. ط5. القاهرة: لونغمان.
محمد الباقر بن الحاج يعقوب. (2009م). مقدمة إلى فن الترجمة. ماليزيا: مطبعة الجامعة الإسلامية العالمية.

AA4329 AL-TARJAMAH AL-ADABIYYAH

تحتوي هذه المادة على معالجة قضايا أساسية مثل: هل الترجمة علم أم فن؟ العلاقة بين الأدب والترجمة، وطرائق الترجمة الأدبية، ومكانة الأدب المترجم، ترجمة النثر الفني، ترجمة النصوص القصصية، ترجمة النصوص المسرحية، ترجمة الشعر، ترجمة التراكمات البلاغية، تعدد الترجمات، الأصول الفنية للترجمة الأدبية، أسلوب ترجمة النصوص الأدبية.

References

حسن، محمد عبد الغني. (1986). فن الترجمة في الأدب العربي. القاهرة: دار ومطابع المستقبل.
أبوخضير، عارف كرخي. (2011). الترجمة الأدبية. تنجوغ ماليم: جامعة السلطان إدريس.
خلوصي، صفاء. (1986). فن الترجمة. القاهرة: الهيئة المصرية العامة للكتاب.

FACULTY OF ISLAMIC ECONOMIC AND FINANCE

MINOR IN ISLAMIC ECONOMICS

MANDATORY COURSES

BE1301 PRINCIPLES OF ISLAMIC ECONOMICS

Topics covered are: Foundation of the Islamic Economic paradigm; principles of Islamic Economics: (ownership, fair and equitable distribution, rent, usury and interest); key microeconomic concepts: (defining microeconomics, issue of needs and wants, consumer behavior, theory of the firm, dynamics of demand and supply, efficiency versus equity, and market models); key macroeconomic concepts: (principal economic agents, national income, consumption, savings, investment, inflation, deflation, unemployment, open economy, international trade and Islam); Islamic economic systems: (role of the state; role of financial system; and role of market system).

References

- Askari, H., Iqbal, Z., & Mirakhor, A. (2015). *Introduction to Islamic Economics: Theory and Application*. Singapore: John Wiley & Sons Singapore Pte. Ltd.
- Case, K. E., Fair, R. C., & Oster, S. M. (2017). *Principles of Economics*. 12th ed. Upper Saddle River: Pearson Education.
- Mankiw, G. (2014). *Principles to Economics*. 7th ed. Florence: Cengage Learning, Inc.

BB1302 PRINCIPLES OF MANAGEMENT

Topics covered are: the roles and functions of managers from both an Islamic and western perspective; different types of organisations; the need for and nature of management; managerial responsibilities and professional ethics; the four functions of management: (planning and decision making, organizing, leading and motivating, controlling and evaluating); strategic planning; leadership theories; teamwork; change and innovation; management from an Islamic

perspective; the Islamic worldview and management; motivations from Islamic perspectives; and Islamic leadership.

References

- Ahmad, K. (2007). *Management from an Islamic Perspective*. Malaysia: International Islamic University.
- Ali, J.A. (2005). *Islamic Perspectives on Management and Organisation*. Cheltenham: Edward Elgar Publishing.
- Jabnoun, N. (2012). *Islam and Management*. New Revised English 3rded. Saudi Arabia: International Islamic Publishing House.

BF1302 TRANSACTIONS IN ISLAMIC BANKING AND FINANCE

Topics discussed are: the formation of contracts under Islamic law; lawful contracts vs. *ribawÉ* contracts; interest-free banking system; *riba* in Islamic commercial law; lawful contracts in Islamic commercial law; contract of sales: (*Bay' al-MurÉbaÍah*, *Bay' al-Ónah*, *al-Tawarruq*, *al-IstiÍnÉ'*, *Bay' Bithaman Ójil*, and *Bay' al-Salam*); contracts of equity based: (*al-MuÍÉrabah*, *al-MushÉrakah*, and *al-MushÉrakah al-MutanÉqiÍah*); contract of lease based: (*al-IjÉrah*, *al-IjÉrah Thumma al-Bay'*, and *al-IjÉrah al-Muntahiyah bi al-TamlÉk*); contract of fee based: (*al-WakÉlah*); contract of *Tabarru'* based: (*Óadaqah*, *Hibah*, *Waqf*, and *TakÉful*); contract of security based: (*ÓamÉn*, *KafÉlah*, and *Wa'd*); contract of *AmÉnah* based: (*QarÍ*, *Rahnu*, *WadÉ'ah Yad AmÉnah*, and *WadÉ'ah Yad ÓamÉnah*); and supporting contracts: (*Ta'wÉd*, and *GharÉmah*); *MuqtaÍÉ al-'Aqd* (the objectives of contracts); and the basic techniques of structuring Islamic financial transactions and how they are applied to practice.

References

- Abdul Ghafar Ismail. (2017). *Money, Islamic Banks and the Real Economy*. 2nd Ed. Singapore: Cengage Learning Asia Pte Ltd.
- Billah, M. M. (2009). *Shari'ah Standard of Business Contract*. Malaysia: A.S. Noordeen.
- International Shariah Research Academy for Islamic Finance. (2011). *Islamic Financial System*. Malaysia.

OPTIONAL COURSES (any TWO courses)

BB1303 BUSINESS PRESENTATION AND COMMUNICATION SKILLS

Topics covered are: Islamic communication foundations: (communication model, and technology's impact on business communication); the intercultural communication in the workforce; communication strategies without bias and in team environments; outlines the writing process: (targeting the audience, planning, composing, revising business messages, fundamentals of grammar and usage, format and layout of business documents); formats and styles of writing: (reports, routine letters, Curriculum Vitae, goodwill messages, business correspondence, memos and email messages, persuasive messages, and good and bad news messages); illustrates the application of essential communication tools to enhance clarity, accuracy, conciseness unity, and coherence and logical organization.

References

- Cornelissen, J. (2014), *Corporate Communication: A Guide to Theory and Practice*. London: Sage.
- Guffey, M.E. & Du-Babcock, B. (2007), *Essentials of Business Communication*. 2nd Ed. Cengage Learning.
- Hair, D.O, & Friedrich, G.W. (2011) *Strategic Communication in Business and the Professions*. 7th Ed. (international ed.) Boston, New York: Allyn & Bacon.

BE2302 ISLAMIC ECONOMICS

Topics covered are: What is an economic system, current state of the global economic system, Islamic economics paradigm, short history of economic thought in Islam, social and economic justice, prohibition of interest (*riba*), risk-sharing economic system and notion of risk-sharing, issue of needs versus wants, models of an interest-free economy, building blocks of the Islamic financial system, role of the state in the Islamic economic system, policy instruments of the state in Islam, fiscal policy in an Islamic economy, monetary policy in an Islamic economy, foundation and framework of development and growth in Islam, Islamic perspective

on financial inclusion, economic justice and public policy in the Islamic economic system.

References

- Ahmad, K. (ed.). (2013). *First Principles of Islamic Economics*. Ahmad Imam Shafaq Hashemi (Trans.). United Kingdom: The Islamic Foundation.
- Askari, H., Iqbal Z., Mirakhor A. (2014). *Introduction to Islamic Economics: Theory and Application*. n.pl: John Wiley & Sons.
- El-Gamal, M.A. (2008). *Islamic Finance: Law, Economics, and Practice*. Houston: Rice University.

BE3303 HUMANOMICS

Topics covered are: Social capital systems (*ukhuwwah, tabarru', hibbah, sadaqah*, etc.); social organization (philanthropy organization); the theory of human-centred economic development; main organizations of philanthropy: (*zakat* organization, *waqf* organization, and microfinance organization). The discussion of each organization will focus on: (i) sources and uses of each philanthropy; (ii) regulation and supervision (including governance) of each organization; and (ii) it relationship with humanitarian aid and economic development.

References

- Abdul Ghafar Ismail. (2016). *Zakat: Pensyariatan, Perekonomian dan Perundangan*. Bangi: UKM Press.
- _____ & Abdelrahman Elzahi Saaid Ali. (2017) *Regulation and Supervision of Islamic Microfinance*. Gombak: IIUM Press.
- _____, Khalifa Muhamed Ali & Raditya Sukmana. (2017) *Waqf and Socio Economic Development*. Gombak: IIUM Press.

BF3308 ISLAMIC BANKING

Topics covered are: understanding the concept of money; understanding the working of money and Islamic bank in economy; management of Islamic banks' funds: (liquidity management, risk management, and capital management); composition of Islamic bank's balance sheet (asset and liability management); regulation and supervision of Islamic banking operations (on and off site examination); transmission of monetary policy: (identify the tools

and method of transmission mechanism); and Islamic banks and the real economy.

References

- Abdul Ghafar Ismail. (2017). *Money, Islamic Banks and the Real Economy*. Singapore: Cengage Learning Asia Pte Ltd.
- Aishah Abdul-Rahman, Shahida Shahimi & Abdul Ghafar Ismail. (2017). *Case Studies in Islamic Banking & Finance*. Bangi: UKM.
- International Shariah Research Academy on Islamic Finance. (2012). *Islamic Financial System: Principles & Operations*. Kuala Lumpur: ISRA.

BB3309 PRINCIPLES OF MARKETING

Topics covered are: introduction to the principles of marketing; manage profitable customer relationship; marketing environment and managing marketing information; introducing the different types of consumer markets and consumer buyer behaviour; business markets and business buyer behaviour; product, services and branding strategy used in marketing; pricing strategies; retailing and wholesaling; advertising and public relations; understanding Islamic marketing: (Islamic business deals, markets and marketing in Islam); the Islamic marketing mix: (the product, the pricing practices, promotions, logistics, etc.); issues in Islamic marketing: (the Muslim consumer, and Islamic branding).

References

- Baker Ahmad Alserhan. (2011). *Principles of Islamic Marketing*. Ashgate Publishing.
- Kalthom Abdullah. (2008). *Marketing Mix from an Islamic Perspective: A Guide for Marketing Courses*. Malaysia: Pearson.
- Kotler, P. and Armstrong, G. (2007). *Principles of Marketing*. 12th ed. New Jersey: Pearson Education

**FACULTY OF ISLAMIC DEVELOPMENT
MANAGEMENT**

MINOR IN ISLAMIC DEVELOPMENT MANAGEMENT

MANDATORY COURSES

CM1301 ISLAMIC-BASED DEVELOPMENT

The course focuses on the theory and practice of Islamic-based development. It consists of seven components - i) Introduction and meaning of Islamic-based development; ii) Highlights literatures on development in Islam; iii) Principles of Islamic-based development; iv) Fundamentals in implementing Islamic-based development; v) Approaches of Islamic-based development and conventional development; vi) Issues in Islamic-based development and vii) The philosophy of MIB, Concept of Negara Zikir and Wawasan Brunei 2035 within the framework of Islamic-based development. The principles and concepts of Islamic-based development as well as examine the approaches and issues of contemporary Islamic-based development at both national and international levels will also be covered.

References:

- Ahmad Shukri Nain & Rosman Md Yusoff. (2013). *Konsep, Teori, Dimensi & Isu Pembangunan*. Johor: Penerbit UTM.
- Mohd Shukri Hanapi. (2014). *Tasawur Islam dan Pembangunan*. Kuala Lumpur: Dewan Bahasa & Pustaka.
- Mohd Shukri Hanapi. (2015). Acuan Dasar dan Strategi pembangunan Negara Zikir. In Siti Sara Haji Ahmad & Muhammad Syukri Salleh (eds.), *Dasar dan Strategi Pembangunan Negara Zikir*, 1-24. Brunei: UNISSA Press.
- Muhammad Syukri Salleh. (2003). *7 Prinsip Pembangunan berteraskan Islam*. Kuala Lumpur: Zebra Editions.
- Todaro, M. P. & Smith, S. C. (2011). *Economic Development (11th Ed.)*. London: Pearson.

CM1304 ISLAMIC-BASED MANAGEMENT

The course provides a general overview on Management functions, planning and decision making, organizing, organizational structures, the theory of Islamic management, principles of Islamic management, Islamic management functions, communication from Islamic perspectives, managing ethics from Islamic perspectives and managing quality from Islamic perspectives. Students are expected to know the definition and sources of Islamic-based management as well as be well versed with issues pertaining to Islamic-based management encompassing strategic planning, human resource, leadership, communication skills, conflict management and quality management.

References:

- Ahmad, F.A. (2013). *Konsep Pengurusan Institusi Pembangunan Berteraskan Islam*. Pulau Pinang: ISDEV dan Kuala Lumpur: DBP.
- Ahmad, K. & Fontaine, R. (2011). *Management from Islamic Perspective (2nd Edition)*. Petaling Jaya: Pearson Malaysia Sdn. Bhd.
- Hassan, M.A. (1992). *The Tawhidic Approach in Management and Public Administration: Concepts, Principles and Alternative Model*. Kuala Lumpur: National Institute of Public Administration Malaysia.
- Pusat Da'wah Islamiah, Kementerian Hal Ehwal Ugama, Negara Brunei Darussalam. (1999). *Himpunan Ayat Al-Qur'an dan Hadis Mengenai Pentadbiran, Brunei Darussalam*.

CM1302 METHODOLOGY FOR DEVELOPMENT MANAGEMENT

The course focuses on the definition, elements and types of research methods both in conventional and Islam. It also differentiates between conventional research methods and Islamic research methods. It provides examples on the inaccuracy that can be obtained in using conventional research methods for matters on Islam and the Muslims affairs. Students will be able to use the method of research based on *naqli* and *aqli* sources for research on Islam and the affairs of the Muslims.

References:

- Ali, M.M. (2009). *The Philosophy of Science: Western and Islamic Perspectives on Certain Aspects*. Selangor Darul Ehsan: Thinker's Library Sdn Bhd.
- Kumar, R. (2011). *Research Methodology: A Step-by-Step Guide for Beginners (3rd Edition)* London: SAGE Publications Ltd
- Salleh, M.S. (2011). Kaedah Penyelidikan Berteraskan Islam Untuk Penyelidikan Berkaitan Islam in Zakaria Bahari, Fadzila Azni Ahmad & Roselee Shah Sharuddin, (Eds.) *Pengurusan Ilmu, Ekonomi dan Pembangunan Berteraskan Islam*. Pulau Pinang: Penerbit Universiti Sains Malaysia.
- Salleh, M.S. (2008). "Keperluan, Kedudukan dan Hala Tuju Kaedah Penyelidikan Berteraskan Islam". *Pemikir*, Bil. 54, Oktober-Disember 2008.
- Walliman, N. (2015) *Social Research Methods: The Essentials (2nd Edition)*. London: SAGE Publications Ltd.

OPTIONAL COURSES (any TWO courses)

CM1303 DEVELOPMENT MANAGEMENT IN NAQLI SOURCES

The course offers the identification of verses in al-Qur'an and *Ahadith* that are related to development management through a thematic approach (*Tafsir Maudu'iy*). It also includes the background of *Tafsir Maudu'iy* and its approaches in determining the theme and thereafter in identifying the various verses in al-Qur'an related to the chosen theme. From the identified verses on development management, the exegesis of these verses and *asbab al nuzul* (reasons for revelation) will also be studied. In the meantime based on the identified *Ahadith* also through a thematic approach, the various explanations and background for the *Ahadith* will be taught. These identified verses and *Ahadith* will then be examined to identify how they can help in shaping the development management worldview according to Islam.

References:

- Nain, A.S. & Md Yusoff, R. (2013). *Konsep, Teori, Dimensi & Isu Pembangunan*. Johor: Penerbit UTM.
- Hanapi, M.S. (2015). Acuan dasar dan strategi pembangunan Negara Zikir. In Siti Sara Haji Ahmad & Muhammad Syukri Salleh (eds.), *Dasar dan Strategi Pembangunan Negara Zikir*, 1-24. Brunei: UNISSA Press.
- Muhd Najib Abdul Kadir, Mazlan Ibrahim & Zulkifli Abd. Mubi. (2015). *Tafsir Mawdui: Harta Menurut Perspektif al-Quran*. Bangi: UKM Press.
- Ali, R. (1997). *Pengantar Ulum al-Qur'an*. Kuala Lumpur: Pustaka Salam Sdn Bhd.
- Ahmad Uthmani, Z. (2014). *Qawa'id fi 'Ulum al-Hadith: Underlying Principles of the Sciences of Hadith*. United Kingdom: Turath Publishing.
- Wiley & Sons.

CM2305 PRINCIPLES OF 'UMRANIC STUDIES

Definition of *'umrān* and other related terms such as culture, urbanization and civilization and to highlight the important of

'*umrān* in the study of human life as a source of religious knowledge. So, this course is particularly concerned with the contradictory views by drawing special attention to the theory of '*umrān* to determine which of the views is correct. The method used in this course is called "induction", a method of logical reasoning that obtains or discovers general laws from particular facts. Among the topics discussed including the concept of '*umrān* and its meaning, characteristics and objectives and other related terms such as *int'ma* and *ma'mūr* revealed in the Holy Qur`ān.

References:

- Abd al-Rahman bin Khaldun. (1993). *Muqaddimah*. Beirut: Dar al-Kutub al- Ilmiyyah.
- al-Jabri, Muhammad `Abid. (1992). *Fikr Ibn Khaldun al-`Asabiyyah wa al-Dawlah*. Beirut: Markaz Dirasat al-Wihdah al-`Arabiyyah.
- al-Sak`ah, Mustafa. (1988). *Al-Usul al-Islamiyyah fi Fikr Ibn Khaldun*. Cairo: al-Dar al-Misriyyah al-Lubnaniyyah.
- Boukraa, R. (2008). The Khaldunian Concept of `Umran/Ijtima` in the Light of the Current paradigm of Post-Modern Society. *Journal of North African Studies*, Vol. 13, No. 3, pp. 317-326.
- Mahmoud Dhaouadi.. (2005). The Ibar Lessons of Ibn Khaldun`s Umran Mind. *Contemporary Sociology: American Sociological Association*, Vol. 34. No. 6, pp. 585-590.

CM3311 ISLAMIC SERVICES MANAGEMENT

The course offers a general background on the meaning of services management both from the conventional perspective as well as in Islam. It outlines the various concepts on what is exactly entailed in services management and how to recognise and identify services management that are Islamic. This course brings students to examine the current definition and understanding of Islamic services management. It also exposes students on the real sources of Islamic services management based on Islamic epistemology and *tasawwur*. Based on this understanding it depicts the differences on current practices of service management to that of service management according to Islamic teachings.

References:

- Abdul Aziz, A.H. & Md Dahlal, N. (2016). *Islamic Service Management: A New Paradigm*. Pulau Pinang: Centre for Islamic Development Management Studies (ISDEV).
- Henderson, J.C. (2010). *Shariah Compliant Hotels, Tourism and Hospitality Research*. Retrieved from 10.246-254. Doi:10.1057/thr.2010.3.
- JAWHAR. (2007). *Manual Pengurusan Perkhidmatan Umrah*. Kuala Lumpur: Jabatan Wakaf, Zakat & Haji.
- Kandampully, J. (2011). *Service Management: The New Paradigm in Retailing*. New York: Spinger.
- Normann, R. (2000). *Service Management: Strategy and Leadership in Business Management (3rd Edition)*. New Jersey: John Wiley & Sons.

CM3316 ISLAMIC ORGANIZATIONAL MANAGEMENT

The course focuses on Management functions, importance of management in the organizational context, evolution of the management theories, planning and decision making, organizing, organizational structures - Types of business organizations, organizational environments and contexts, managing dynamic environments, globalization, organizational culture and its importance - Motivation at work, effective leadership, managing through power, influence and negotiation - Managing organizational changes and innovation as well as organizational communication - Islamic organizational management, theory of Islamic management, principles of Islamic management, Islamic management functions, - Communication from Islamic perspectives, managing ethics from Islamic perspectives and managing quality from Islamic perspectives.

References:

- Ahmad, K. (2007). *Management from Islamic Perspective*. Kuala Lumpur: International Islamic University Malaysia.
- Ali, J.A. (2005). *Islamic Perspective on Management & Organizations*. N.P: Edward Elgar Publishing.
- Jones, G.R. & George, J.M. (2011). *Management: The Essentials*. Australia: Pearson.

- Lim, G.S., S.B., USA, S. & Daft, R.L. (2015). *New Era of Management in a Globalized World: An Asian Perspective*. N.P: Cengage Learning.
- Norlida K, Zaafaran, H, Rabiah AW, Rohaya MH. (2015). *Principles of Management, International Edition*. United Kingdom: Oxford University Press.

CM4317 LEADERSHIP IN ISLAM

The course provides concept of leadership from Al-Qur'an, Hadith and other Islamic literatures. The course starts with the basic operational principles of leadership in Islam. Thereafter components of leadership from Islamic perspective will also be covered. This course will introduce students to the true concept of a leader according to the behaviour of Rasulullah SAW and his teachings. It provides examples of how Rasulullah SAW resolves conflicts and becomes a leader that is able to unite all the Arab tribes. Thus the concept of leadership in resolving conflict based on Al-Qur'an, Hadith and other Islamic literatures will then form the second part of this course bringing students to understand the concept of peace and its components in Islam.

References:

- Altalib. H. (1991). *Training Guide for Islamic Workers*. Virginia: The International Institute of Islamic Thought.
- Bekun, R. & Badawi, J. (1999). *Leadership: An Islamic Perspective*. Maryland: Amana Publication.
- Randeree, K. (2011). Leadership Lessons from Early Islamic Literature in Ahmad, K., Rafikul Islam & Ismail, Y. (Eds.) *Issues in Islamic Management: Theories and Practices*. Selangor: IIUM Press.
- Thaib, L. (2015) *Leadership: An Islamic Perspective*. Germany: Lambert Academic Publishing.

HALALAN THAYYIBAN RESEARCH CENTRE

MINOR IN HALAL SCIENCE

MANDATORY COURSES

HS3312 Verses of the Quran on Halal and Haram

This course will discuss topics on the following verses of the Holy Qur'an on *Halalan Thayyiban*: *Al-Ma'idah* (5): 3; *Al-Baqarah* (2): 173, *Al-Baqarah* (2): 168, *Al-Ma'idah* (5): 88, *Al-Nahl* (16): 114, *Al-Nisa'* (4): 43, *Al-Ma'idah* (5): 6, *Al-Baqarah* (2): 57, *Al-Baqarah* (2): 172, *Al-Baqarah*: 168, *Al-A'raf* (7): 157, *Al-Mukminun* (23): 51, *Al-Taubah* (9): 29; *Al-Nahl* (16): 114-115, *Taha* (20): 81, *Hajj* (22), 28,30, 34-36, *Al-Zumar* (39): 6 and others, wisdom of the Qur'an on *Halalan Thayyiban* and its application to halal industry.

References

- Ali Shah, Syed Arif. (2017). *Halal Certification In The Light of The Shariah*. Karachi: SANHA Halal Associates Pakistan.
- Chand, Muhammad Umar. (2001). *Halal and Haram: The prohibited and The Permitted Foods and Drinks According to Jewish, Christian and Muslim Scriptures*. Kuala Lumpur: A.S. Noordeen.
- Mohammad Hashim Kamali. (2013). *The parameters of Halal and Haram in Shariah and The Halal Industry*. Kuala Lumpur: International Institute of Advanced Islamic Studies (IAIS) Malaysia.

HS3313 Philosophy of Halal and Haram in Islam

This course will discuss topics on: meaning of Halal and Haram in *Shariah*, the meaning of *Thayyibat*, lawful and unlawful foods in shari`ah; the wisdom of prohibition of Unlawful Food: prohibition of *maytah* (carrion), prohibition of flowing blood, prohibition of pork, prohibition of meat dedicated to anyone other than *Allah Subhanahu Wa Ta'ala*.

References

- Ali Shah, Syed Arif. (2017). *Halal Certification In The Light of The Shariah*. Karachi: SANHA Halal Associates Pakistan.
- Chand, Muhammad Umar. (2001). *Halal and Haram: The prohibited and The Permitted Foods and Drinks According to Jewish, Christian and Muslim Scriptures*. Kuala Lumpur: A.S. Noordeen.
- Hussain Hamid Hassan. (1997). *An Introduction To The Study of Islamic Law*. Islamabad: International Islamic University

HS3316 Hadith on Halal and Haram

This course will discuss topics on: selection of 10 relevant *Ahadith* of the Prophet Muhammad *Sallallahu Alaihi Wasallam (S.A.W)* on *Halalan Thayyibat* & wisdom of the *Ahadith*, application to halal industry; current issues on halal-haram as well as relevant halal products.

References

- Bukhari, Sahih Al-Bukhari Arabic-English Summarized. (1996). translator: Khan Muhammad Muhsin. Madinah: Darussalam.
- State Mufti's Office, Prime Minister's Office. (2007). *Fatwa of State Mufti Issues on Halal Products; Compilation of State Mufti's Fatwa on issues on Halal Products 1994-2006 Brunei Darussalam*. Bandar Seri Begawan: State Mufti's Office, Prime Minister's Office.
- Yusuf al-Qaradawi. (1985). *The Lawful and The Prohibited In Islam (al-Halal wal-haram fil Islam)*. translators, Kamal El-Helbawy, M. Moinuddin Siddiqui, Syed Shukry; translation reviewed by Ahmad Zaki Hammad. London: Shorouk International (UK).

OPTIONAL COURSES (any TWO courses)

HS2306 Halal Policy, Standard and Regulation

This course will discuss topics on: halal policies, halal standards and regulations, halal agencies in Negara Brunei Darussalam, Malaysia and others as models (Food Export requirements, Import Requirements, halal regulation Food Additives Regulatory Bodies, Food Act 1983 and Food Regulations 1985, Trade Descriptions Act 2011).

References:

- Bandar Seri Begawan: The Religious Council. (2007). Halal Food: Piawai Brunei Darussalam.
- State Mufti's Office, Prime Minister's Office. (2007). *Fatwa of State Mufti Issues on Halal Products; Compilation of State Mufti's Fatwa on issues on Halal Products 1994-2006 Brunei Darussalam*. Bandar Seri Begawan: State Mufti's Office, Prime Minister's Office.
- M. Harith Mahmud. (2011). *Halal Living*. Selangor : Kemilau Publika.
- Riaz, Mian N. (2004). *Halal Food Production*. Boca Raton, FL : CRC Press.

HS2307 Objective of Islamic Law in Halal Industry

This course will discuss topics on: *Shari`ah* (Islamic Law): meaning, objective of Islamic Law and its relevance to modern and global society; the essential (*daruriyyat*); the complimentary (*al-hajjiyyat*); the embellishments (*al-tahsiniyyat*), application of *Maqasid Shari`ah* in Halal Industry.

References

- Doi, Abdur Rahman I. (1984). *al-Shari`ah*. Kuala Lumpur: A.S. Noordeen
- Masud, Muhammad Khalid. (2005). *Shatibi's Philosophy of Islamic Law*. Kuala Lumpur: Islamic Book Trust.
- Al-Raysuni, Ahmad. (2006). *Imam Al-Shatibi's Theory off the Higher Objectives and Intents of Islamic Law*. Herndon: The International Institute of Islamic Thought.

HS2310 Halal Slaughtering Management

This course will discuss topics on: Quranic verses on slaughtering, *Ahadith* of the Prophet Muhammad *Sallallahu Alaihi Wasallam* (S.A.W) on slaughtering, halal slaughtering in *Shari'ah*, halal slaughtering in scientific aspects, halal slaughtering management and practice in halal industry, the model of slaughtering house in Brunei Darussalam and abroad, issues related to slaughtering such as stunning and its method, slaughtering equipment, fatwa and laws, policies and regulations, and standards.

References

- Khan, Salar M. (2010). *The Islamic concept of animal slaughter*. New Delhi: IFA Publications.
- Nurdeng Deuraseh. (2016). *Halal slaughtering in Shari'ah*. Kuala Lumpur : Attin Press sdn bhd.
- Pachirat, Timothy. (2011). *Every Twelve Seconds Industrialized Slaughter and The Politics of Sight*. New Haven : Yale University Press.

HS4323 Fiqh Management and Administration of Halal Industry

This course will discuss topics on: concept of the Islamic administration, historical development in the golden age of Islam, the role of the administrative system in Islam, model and principle of Islamic management, the concept and design of public organizations in Negara Brunei Darussalam.

References

- Doi, Abdur Rahman I. (1984). *al-Shari'ah*. Kuala Lumpur: A.S. Noordeen
- Masud, Muhammad Khalid. (2005). *Shatibi's Philosophy of Islamic Law*. Kuala Lumpur: Islamic Book Trust.
- Al-Raysuni, Ahmad. (2006). *Imam Al-Shatibi's Theory off the Higher Objectives and Intents of Islamic Law*. Herndon: The International Institute of Islamic Thought.

HS4324 Halal Science in ASEAN (Option)

This course will discuss topics on: the definition of Halal Organization, the role of organizations, halal organizations in ASEAN, such as in Negara Brunei Darussalam, Malaysia, Thailand and others.

References

- Aziz Phitakhhumpon, .H. E. (2013). *Halal Thailand Halal World*. Bangkok: The Central Islamic Council of Thailand.
- Baharudin Othman, et all. (2016). Potential of ASEAN in Halal Certification Implementation: A Review, in *Pertanika J. Soc. Sci. & Hum.* 24 (1): 1 – 24.
- Nurdeng Deuraseh. (2013). Islamic Political Policy Based on Islamic Value With Special Reference to *Islam Hadhari* (Civilizational Islam) in Malaysia: A Foundation for Development of Muslim Community in ASEAN, *Jurnal Islam Hadhari*, Vol. 4, 3, 2013, (submitted and in process for publication).

FACULTY OF ISLAMIC TECHNOLOGY

MINOR IN ICT

MANDATORY COURSES

MANDATORY COURSES

FT3401 | Information And Communication Technology Fundamental

To introduce students to the basic concepts of Information and Communication Technology (ICT) and to develop the computer proficiency required for university study. Practical approach will be adopted to ensure students competency and able to use the technology efficiently in their studies. Upon completing the course, students will feel confident in their ability to apply the use of computer technology and the Internet in their respective disciplines.

References

- Joan Lambert (2016). Microsoft Office 2016 Step by Step. USA: Microsoft Press.
- Keith Turvey (2016). Primary Computing and Digital Technologies: Knowledge, Understanding and Practice Seventh Edition. California: Sage Publishing.
- Miller, M. (2015) Computer Basics: Windows 10 Edition, Absolute Beginner's Guide (Absolute Beginner's Guides). Indiana: Que Publishing.

FT3402 | Information System

The ability to develop and use computer databases is becoming a critical skill that is required in many disciplines. These skills are developed through an introduction to data modeling, relational theory, database design, and the management of databases. Upon completing the course, the student will be able to develop and design a practical database application using the current database information managements systems technology.

References

- Adrian W. West (2013). Practical PHP and MySQL Website Databases: A Simplified Approach. USA: Apress
- Connolly, Thomas and Begg, Carolyn (2014). Database Systems: A practical approach to design, management and management (Sixth Edition) USA: Addison-Wesley.
- Hoffer, Jeffrey A. et al. (2015). Modern Database Management. (9th Edition) USA: Pearson.

FT2306 | Digital Technologies

This course focuses on the latest digital technologies. The aims of this course is to develop students' knowledge and skills in the latest technology to to obtain employment in the industry, become knowledgeable and skilled citizens. At the successful completion of this course, students will be able to comprehend the concept of digital technologies; describe the use of digital technology and media for communication; demonstrate the use a higher level of thinking in designing and developing innovative technologies.

References

- Jeanne W. Rose, et al. (2020). Designed for Digital. USA: MIT Press Ltd
- Hans Schaffers, Matti Vartiainen and Jacques Bus (2021). Digital Innovation and the Future of Work. Denmark: River Publisher.
- Michelle F. Wright, PhD (2020). Digital Technology: Advances in Research and Applications. USA: Nova.

FT3406 | Multimedia Technology

This course introduces the use of text, graphics, audio, video and animation to impart information. There is an emphasis on the multimedia process, and how it can be implemented in the new media and technology industries in particular applying it with Islamic core studies knowledge. Upon completing the course, students should be able to identify and analyze the elements of multimedia pieces, describe planning stages and roles within a

multimedia project, understand basic and advanced tools in a variety of industry-standard multimedia software programs, author a comprehensive multimedia project that incorporates text, graphics, audio, video or animation elements and to locate and use various learning resources (such as the internet) to develop and enhance multimedia software skills.

References

Adobe Creative Team (2017). Adobe Premiere Pro CC Classroom in a Book (2017 Release) (Classroom in a Book (Adobe)) USA: Adobe Press.

_____ (2013). Adobe Audition CC Classroom in a Book. USA: Adobe Press.

_____ Digital Video with Adobe Creative Cloud Classroom in a Book. USA: Adobe Press.

OPTIONAL COURSES (any 1 of 2)

FT3407 | Web Technologies

To explore the basic principles and production methods of website design. The central purpose is to provide students with a foundation in both the practical skills and knowledge of this allied form of media presentation. Upon completion of the course, the student will have both the practical skills and knowledge of this allied form of media presentation in the development and production of web design, demonstrate understanding of accessibility guidelines, utilize organization techniques and apply basic principles of web page design.

References

Adobe Creative Team (2009). Adobe Dreamweaver CS4 Classroom in a Book. USA: Adobe Press.

Clark, Joe (2002). Building Accessible Websites. USA: New Riders Publishing.

Horton, Sarah (2005). Access by Design: A Guide to Universal Usability for Web Designers. USA: New Riders Publishing.

FT3408 | Internet And Ethics

To explore the basic principles of Internet Ethics. Internet has evolved into a more social and communicative tool and venue, the ethical issues have shifted from purely data driven to more human-centered. Internet research ethics calls for new regulatory and/or professional and disciplinary guidance. For these reasons, the concept of human subjects research policy and regulation informs this entry which will explore the growing areas of ethical and methodological complexity, including personal identifiability, reputational risk and harm, notions of public space and public text, ownership, and longevity of data as they relate to Internet research.

References

- Banks, W. and M. Eble (2007). "Digital Spaces, Online Environments, and Human Participant Research: Interfacing with Institutional Review Boards," in *Digital Writing Research: Technologies, Methodologies, and Ethical Issues*, H. McKee and D. DeVoss (eds.), Cresskill, NJ: Hampton Press.
- Buchanan, E. (2010). "Internet Research Ethics: Past, Present, Future," in *The Blackwell Handbook of Internet Studies*, C. Ess and M. Consalvo, (eds.), Oxford: Oxford University Press.
- Emanuel, E., R. Crouch, J. Arras, J. Moreno and C. Grady (2003). *Ethical and Regulatory Aspects of Clinical Research: Readings and Commentary*. USA: Johns Hopkins Press.