



UNIVERSITI  
MALAYSIA  
KELANTAN

#### RESEARCH FIELD

- Agro Technopreneurship
- Product Development Technology
- Agricultural Biotechnology
- Animal Husbandary
- Food Security
- Aquaculture
- Agro Technology
- Agribusiness
- Agronomy
- Pest Management
- Plant Mycology
- Plant Pathology
- Horticulture
- Plant Breeding
- Weed Science
- Post-Harvest Technology
- Soil Science
- Plant Biotechnology
- Animal Nutrition
- Aquaculture Nutrition
- Animal Reproduction and Breeding
- Forage and Fodder Crops Science
- Poultry Science
- Dairy Science and Technology
- Industrial Biotechnology
- Molecular Biotechnology

#### ADMISSION REQUIREMENTS

- IELTS with minimum score Band 4.5; or
- MUET with minimum score High Band 2; or
- TOEFL iBT with minimum score 35; or
- Pearson Test of English with minimum score 43; or
- Cambridge English Qualifications and Tests with minimum score 147 (include Linguaskill); or
- Any English language qualification which is aligned to The Common European Framework of Reference for Languages (CEFR) with minimum score of CEFR Mid B1; or
- The exemption to the above conditions with the approval of the Senate may be granted to applicants whose Mother Tongue or the National Language is the English.

*\*An applicant who is unable to fulfill any of the English requirements above is required to attend our Intensive English Course (IEC) for three (3)-month duration with a course fee of RM4,320 as well as to sit for MUET or any equivalent certification which is aligned to The Common European Framework of Reference (CEFR) within six (6)-month duration from the date of the applicant's first registration of study.*

The applicant must provide a certificate of English competency to the Centre for Postgraduate Studies (CPS) within two (2) years of the first registration of study.

#### MASTERS

Bachelor's Degree with Honours (CGPA > 2.75) from recognized institutions of higher learning or equivalent qualification as endorsed by the Senate of UMK

Applicants with other equivalent qualifications may also be considered for admission provided he/she has appropriate research experience and able to demonstrate the capacity to undertake Postgraduate Studies

#### DOCTOR OF PHILOSOPHY

Master's degree from recognized institutions of higher learning or equivalent qualification as endorsed by the Senate of UMK

#### DURATION

PROGRAMMES	FULL TIME
Master	2 - 3 years
PhD	3 - 5 years

#### FEES

Total fees based on minimum semesters for Master's programme and PhD programme

MASTER	FULL TIME
Master of Science	RM17,220.00 (minimum) & RM23,020.00 (maximum)

PhD	FULL TIME
Doctor of Philosophy (Science)	RM25,070.00 (minimum) & RM37,870.00 (maximum)

*\* Exclude thesis examination fee, ALUMNI fee and convocation fee*

Other Fees Applicable for International Students Visa

**New Student** : RM1,779.00  
**Renewal** : RM698.40

*\* Fees are subject to the country of origin*

*\* Fees inclusive personal insurance, ikad, processing fee and visa fee*

#### UNDERGRADUATE



Faculty of Agro-Based Industry  
Universiti Malaysia Kelantan, Jeli Campus  
17600 Jeli,  
Kelantan, Malaysia

✉ [fiat@umk.edu.my](mailto:fiat@umk.edu.my)  
☎ +609-9477441  
🌐 <http://fiat.umk.edu.my>

#### POSTGRADUATE



Centre for Postgraduate Studies  
Universiti Malaysia Kelantan, City Campus  
Pengkalan Chepa, 16100 Kota Bharu  
Kelantan, Malaysia

✉ [siswazah@umk.edu.my](mailto:siswazah@umk.edu.my)  
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ENTREPRENEURSHIP  
*is our thrust*



FACULTY OF  
AGRO-BASED INDUSTRY



# UNDERGRADUATE PROGRAM

## ► BACHELOR OF APPLIED SCIENCE (ANIMAL HUSBANDRY SCIENCE) WITH HONOURS (SBH)

**DURATION OF STUDY : 4 years (8 semesters)**  
**CREDIT HOUR : 122 credit hours**

### PROGRAMME SYNOPSIS

Animal Husbandry Science is the key to the development of agro-based industry in Malaysia. Livestock industry has been established in our country and has contributed significantly to economic development. Various types of livestock have the potential to be further developed. Among them are ruminants like cattle and goats and others as well as aquatic animals such as fish and various crustaceans. Animal Husbandry Science programme is blended with the elements of entrepreneurships as well. This will support the National Agriculture Policy in order to commercialize agricultural products and increase in food production. Specific goal of this programme are to; i. Diversifying the agricultural sector, while supporting activities related to health and veterinary medicine, ii. Generate hands on and lifelong learning graduates in terms of knowledge and skills to explore new industry based on the challenge of animal science, iii. Meet the needs of the workforce required in the agriculture and manufacturing industries especially in the production of food from animal sources, and iv. Will be the foundation of successful entrepreneurial activity.

### CAREER PROSPECTS

- Lecturers in Institute of Higher Learning Institution
- Researcher
- Agriculturist
- Environmentalist
- Officers in various Government Agencies and Statutory bodies
- Administrative and Diplomatic Officers
- Environmental Protection Officer
- Entrepreneur in agro ecosystem sector
- Manager of animal husbandry company
- Farm manager
- Farm supervisor
- Junior farm executive
- Sales executive (companion animal)
- Cadet planter/ assistant manager of aquaculture company
- Setting up own company - self employed

## ► BACHELOR OF APPLIED SCIENCE (AGROTECHNOLOGY) WITH HONOURS (SBL)

**DURATION OF STUDY : 4 years (8 semesters)**  
**CREDIT HOUR : 122 credit hours**

### PROGRAMME SYNOPSIS

Bachelor of Applied Sciences (Agrotechnology) with Honours degree aims to educate students in the scientific habit of thought, entrepreneurial skills and prepare them to become professionals with entry-level competencies in technical agriculture. It emphasizes the processes and techniques of identifying, diagnosing and analyzing problems and in designing, packaging and applying technologies needed in the development and conservation of the agriculture and food system resources. The programme enables graduates to gain an

understanding of crop production systems for the sustainability of the agricultural industry, including the underpinning scientific, economic and business principles and the applicability of recent technologies and developments to increase the nations' food production and food security. Besides, the programme also emphasizes in assessing the agro-environment interactions and devise environmental management strategies and managing agriculture as a business. The programme also promotes precision farming through the latest technology inputs, which strengthens the links between agriculture-related agencies and explores the sources of food supply from the vast natural resources sustainably, maximizing yields, increasing efficiency and managing costs of farming. Specific goal of this programme are to; i. Diversifying the agricultural sector, while supporting activities related to agrotechnology, ii. Generate 'hands on' and lifelong learning graduates: knowledge and skills to explore new industry based on the challenge of agriculture business, iii. Meet the needs of the workforce required in the agriculture and manufacturing industries especially in the production of food from agriculture sources, and iv. Will be the foundation of successful entrepreneurial activity.

### CAREER PROSPECTS

- Lecturers in Institute of Higher Learning Institution
- Researcher
- Agriculturist
- Environmentalist
- Officers in various Government Agencies and Statutory bodies
- Administrative and Diplomatic Officers
- Environmental Protection Officer
- Science Officer
- Entrepreneur in agro ecosystem sector
- Manager of animal husbandry company
- Farm manager
- Setting up own company - self employed

## ► BACHELOR OF APPLIED SCIENCE (PRODUCT DEVELOPMENT TECHNOLOGY) WITH HONOURS (SBP)

**DURATION OF STUDY : 4 years (8 semesters)**  
**CREDIT HOUR : 122 credit hours**

### PROGRAMME SYNOPSIS

Bachelor of Applied Science (Product Development Technology) with Honours is a technology-based programme offered for undergraduates who are interested in learning various aspects of agro-product developments from scientific research on the raw materials and processing technology, to market-ready products which involve product design, packaging and labelling, product registration and management. The programme structure emphasizes on producing well-rounded graduates that have knowledge and skills to innovate new agro-based products particularly the food and beverages, as well as non-food products such as cosmetics and agro-waste products that meet the required standards prior to commercialization. Graduates from this programme are exposed and trained with various entrepreneurial skills such as communication, teamwork and leadership that help them to establish their own business. Knowledge and skills in agro product development also have been acknowledged as one of the national critical occupational skills that can provide better job opportunities in both government and private sectors. Specific goals of this programme are to; i. Produce graduates with the skills and expertise to develop products starting from identifying the raw materials used in the product development that will ensure success in the market, ii. Produce graduates who can produce products through creative thinking and are innovative in proposing a design that could be developed, meet the standards, unique and has benefit, iii. Meet the needs of the industry in manufacturing products through the production of valuable commercial products for food and non-food industries, and iv. Emphasize product development through research leading to lifelong learning in the production of latest product design, which follows trend, needs and preferences of the user.

### CAREER PROSPECTS

- Quality Assurance Executive
- Quality Control Executive
- Agro Product Entrepreneur
- Science officer
- Researcher
- Technical and Production Executive
- Product Development Executive
- Agro Product or Food Processing Executive
- Research and Product Development Manager
- Lecturer at Higher Education Institution

## ► BACHELOR OF APPLIED SCIENCE (FOOD SECURITY) WITH HONOURS (SBF)

**DURATION OF STUDY : 4 years (8 semesters)**  
**CREDIT HOUR : 127 credit hours**

### PROGRAMME SYNOPSIS

Bachelor of Applied Sciences (Food Security) with Honours is the first and only undergraduate programme offered in Malaysia designed to prepare students to manage the problem of food security in a holistic manner. The design of the programme is in-line with Malaysia's Food Security Policy to ensure sufficient and sustainable food supply for the country. This programme aims to educate students with the scientific skills, entrepreneurial mindset and prepare them to become professionals with entry-level competencies in multi- disciplinary fields. Graduates in this programme will be exposed to both upstream and downstream aspects in agrotechnology. The program integrates agrotechnology, animal sciences, aquaculture and food technology in one programme. It enables students to gain an understanding of crops and animal production systems for the sustainability of food resources in Malaysia. Additionally, students will be exposed to the latest technology in food processing and the ability to turn food sources into value-added food products. Specific goal of this programme are to; i. Produce food security and technology professionals who are equipped with entrepreneurial skills, ii. Produce graduates who fulfill the agro-based industries needs in producing sustainable foods, iii. Produce graduates with the ability to develop and produce local agro-based products innovatively and with added-value and iv. Create students who understand the challenges of political, social and economic processes leading to food insecurity

### CAREER PROSPECTS

- Quality Assurance Executive
- Quality Control Executive
- Agro Product Entrepreneur
- Science officer
- Researcher
- Technical and Production Executive
- Product Development Executive
- Agro Product or Food Processing Executive
- Research and Product Development Manager
- Lecturer at Higher Education Institution

# POSTGRADUATE PROGRAM

### PROGRAMMES NAME

- DOCTOR OF PHILOSOPHY (MQA/FA6223)
- MASTER OF SCIENCE (MQA/FA6222)



## LIST OF PROGRAMS FOR INTERNATIONAL UNDERGRADUATE

UMK JELI CAMPUS							
FACULTY	PROGRAM NAME	PROGRAM CODE	DURATION (YEAR)	SEMESTER		INTERVIEW PROGRAM	
				SEPT	FEB	YES	NO
Faculty of Agro Based Industry (FIAT)	Bachelor of Applied Science (Agrotechnology) with Honours	SBL	4	✓			✓
	Bachelor of Applied Science (Animal Husbandry Science) with Honours	SBH	4	✓			✓
	Bachelor of Applied Science (Product Development Technology) with Honours	SBP	4	✓			✓
	Bachelor of Applied Science (Food Security) with Honours	SBF	4	✓			✓

## GENERAL ENTRY REQUIREMENTS

FACULTY	PROGRAM NAME	PROGRAM CODE	GENERAL ENTRY REQUIREMENTS	
			QUALIFICATION	ENGLISH PROFICIENCY
FIAT	ANIMAL HUSBANDRY SCIENCE	SBH	Minimum of 3 principals with A-Level examinations OR  International Baccalaureate (IB) (with one sitting) OR  <b>Entry Qualifications for International Student MQA</b>  1. Refer to MQA website : <a href="https://www.mqa.gov.my/pv4/bm/nilai_taraf.cfm">https://www.mqa.gov.my/pv4/bm/nilai_taraf.cfm</a> OR.  2. International students must have at least twelve (12) years of education and have undergone a national/international examination recognized by the Ministry of Education for the purpose of admission to diploma or degree programmes  3. If candidates have SPM/STPM certificate or equivalent, they need to fulfill the local student's requirements	TOEFL iBT minimum score 35 ; or  IELTS minimum band 4.5 ; or  MUET minimum high band 2 ; or  Pearson Test of English minimum score 43 ; or  Cambridge English Qualifications & Tests minimum score 147 ; or  Any English Certificate that aligned to the standard of The Common European Framework of Reference for Languages (CEFR) – minimum score CEFR Mid B1 .  *Exception for the International students from  i) Country with English as the official language ; or  ii) Institution using English as medium of instructions.
	AGROTECHNOLOGY	SBL		
	PRODUCT DEVELOPMENT TECHNOLOGY	SBP		
	FOOD SECURITY	SBF		

## SPECIFIC ENTRY REQUIREMENTS

PROGRAM NAME	PROGRAM CODE	INTERVIEW PROGRAM	SPECIFIC ENTRY REQUIREMENTS BY FACULTIES			
			ADDITIONAL REQUIREMENT/OTHERS	ADDITIONAL SUBJECT REQUIREMENTS	ADDITIONAL ENGLISH PROFICIENCY	ADDITIONAL DOCUMENTS
<b>Faculty of Agro Based Industry (FIAT)</b>						
Animal Husbandry Science	SBH	No	Oral Test for English Competency	Minimum PASS for at least one of these subjects	-	-
Agrotechnology	SBL	No		i) Biology ii) Physics	-	-
Product Development Technology	SBP	No		iii) Chemistry iv) Mathematics	-	-
Food Security	SBF	No		or any equivalent Science & Technology based subject	-	-