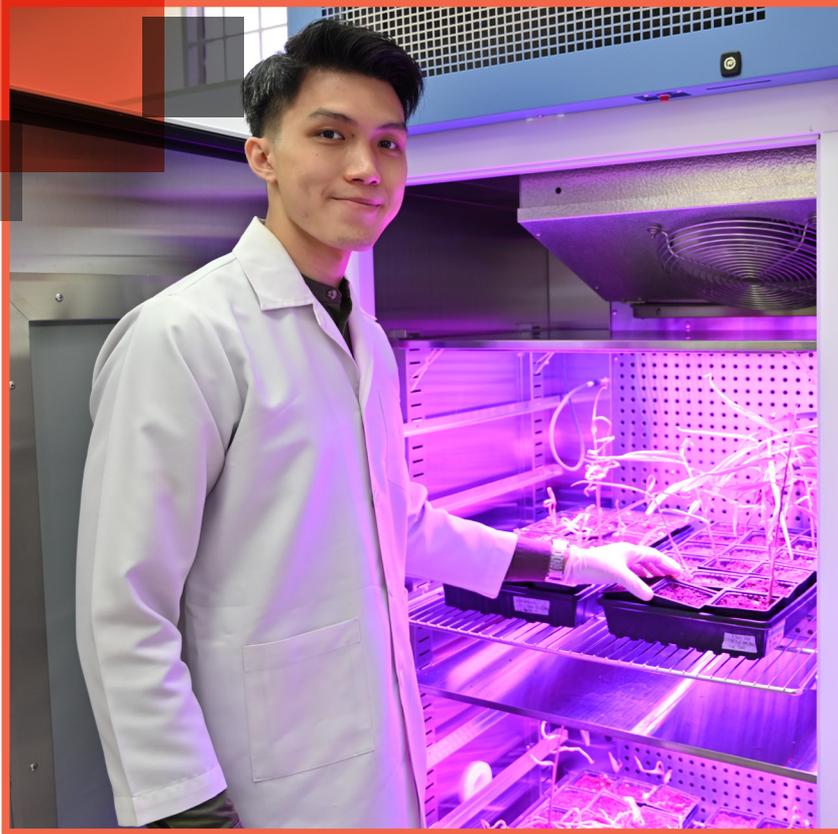




**TARUMT**  
TUNKU ABDUL RAHMAN UNIVERSITY OF  
MANAGEMENT AND TECHNOLOGY



2023

# FACULTY OF APPLIED SCIENCES

UNDERGRADUATE PROGRAMMES



TUNKU ABDUL RAHMAN UNIVERSITY OF MANAGEMENT AND TECHNOLOGY DU058(W)

Wholly owned by the TARC Education Foundation (Reg. No.: 201301003979 (1033820-M))

The **Faculty of Applied Sciences ('FOAS')** currently offers programmes at Diploma, Bachelor, Master and PhD's levels. The faculty has a range of science laboratories and facilities to support the programmes. Apart from running academic programmes, the faculty is active in research activities and has close relationships with the industry via industry-academia collaborative projects.



## What Our Graduates Say



**TAN CHEE TEONG**

*Pursuing my tertiary level studies at TAR UMT has been one of the most rewarding decisions that I have ever made. The comprehensive and conducive learning environment provided at TAR UMT has greatly influenced the outcome of my studies. Enrolling in the Bioscience with Chemistry programme has enabled me to explore in detail the fields of study. All the knowledge and practical skills that I have gained from the programme have given me an opportunity to excel. Apart from equipping myself with proficient knowledge and skills, the programme has also shaped me into a better person as it trained me to be more independent, to have stronger time-management skills, to improve on my leadership qualities and to learn how to cooperate with others as a team. The lecturers and tutors are always passionate in sharing their knowledge and experience in their teaching and this has further stimulated the passion I had for my studies. I deeply value and appreciate all the caring lecturers, tutors and friends that I have encountered throughout my educational journey at TAR UMT. I sincerely believe that pursuing my studies at TAR UMT has built a strong foundation in my life which leads to success and I would always be thankful for having chosen TAR UMT.*

**Bachelor of Science (Honours) in Bioscience with Chemistry - Graduated in 2022**



**KHOR JIA WEI**

*The TAR UMT KL Campus provides a conducive study environment and a huge campus containing many facilities which include the swimming pool and basketball courts. The programmes conducted here are well planned and well thought out and prepare students with the necessary knowledge and skills required to enter the working industry. The lecturers are very dedicated, experienced in teaching and helpful in providing guidance and direction. Just as importantly, the tuition fees are very affordable and reasonable even though the quality of education provided is high. Due to this reason, hundreds of thousands of students have benefitted over the past 53 years.*

**Bachelor of Science (Honours) in Analytical Chemistry - Graduated in 2022**



**JESSIE TAN LI SI**

*The decision to enrol myself in TAR UMT's Sport and Exercise programme a week before orientation was definitely one of the best decisions that I have made in my life. Throughout the 4 years that I've spent at TAR UMT, I have had countless memories and formed many friendships that I would always cherish. Although the past 2 years were spent online due to the Covid-19 pandemic, the quality of education received was definitely high. Lecturers have put in an immense amount of effort into making things work for us students and they were also very empathetic to the problems that we faced during online classes which I really appreciated because it was not easy for any of us. Not going to lie, but not being able to experience the physical university life was definitely a downside of my time here but it was inevitable. Still, I'm glad to have been able to learn and work with so many incredible individuals, such as lecturers, peers or other TAR UMT staff, and I'm proud to be able to call myself a TAR UMT graduate.*

**Bachelor of Science (Honours) in Sports and Exercise Science - Graduated in 2022**

*Why study at the*  
**FACULTY OF  
APPLIED  
SCIENCES**

The laboratories are well-equipped with **modern facilities** and **state-of-the-art equipments**.

A variety of programmes that **provide differentiation** to suit the diverse interest and needs of students.

**Dedicated** and **qualified academic staff** who are committed to their role in providing education to students.

Close link with **industry partners** and **scientific institutions**.

The Faculty of Applied Sciences is **ISO 9001:2015 Certified**



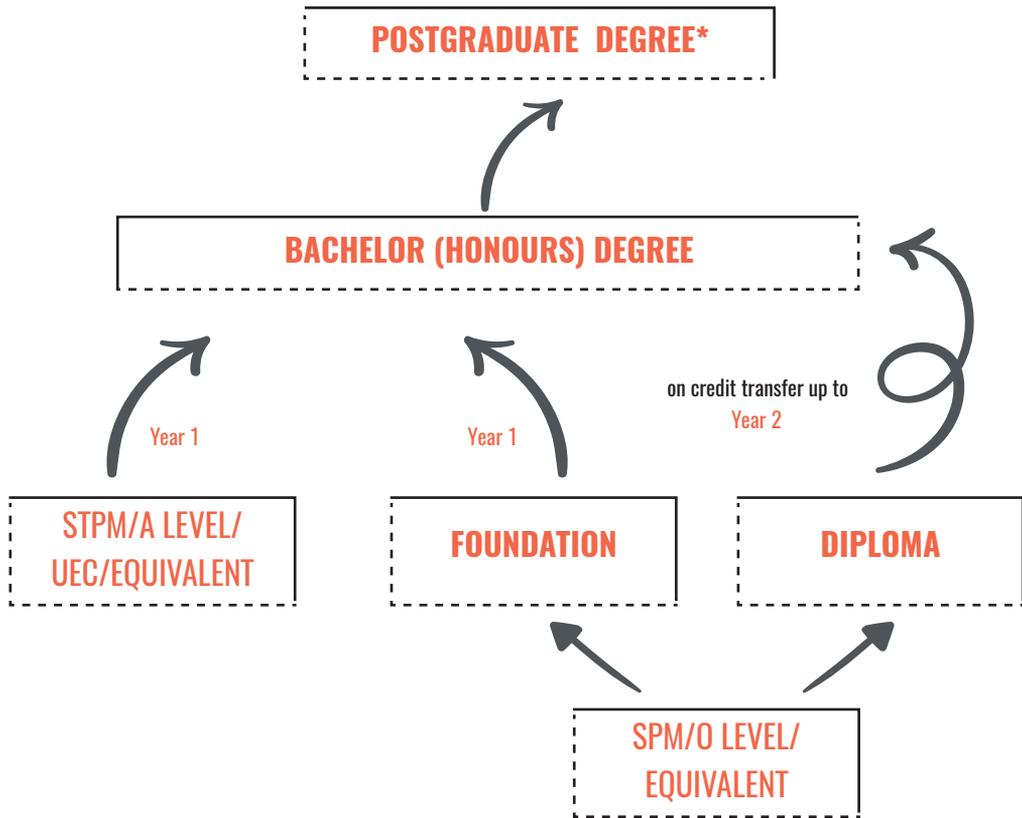
CERTIFIED TO ISO 9001:2015  
CERT. NO. : MY-QMS 02847

Wide range of **alternative progression routes** for further studies, both locally as well as overseas.

Industrial training which provides students with **real-world experience** and **enhances employment prospects**.

**Holistic education** that instils strong technical and scientific skills as well as personal and character development.

# GENERAL PROGRESSION ROUTE



\* The Faculty of Applied Sciences offers the following postgraduate programmes:

- **Master of Science**  
(R/440/17/0027)(04/26)(MQA/FA8115)
- **Master of Science (Life Science)**  
(R/421/17/0059)(05/26)(MQA/FA8464)
- **Master of Science (Food Science)**  
(N/541/17/0036)(11/25)(MQA/PA10036)
- **Master of Science in Sport Science**  
(N/813/17/0021)(04/26)(MQA/PA10035)
- **Doctor of Philosophy (Life Sciences)**  
(N/421/18/0060)(10/25)(MQA/PA10038)
- **Doctor of Philosophy (Physical Science)**  
(N/440/18/0051)(03/26)(MQA/PA10037)
- **Doctor of Philosophy (Sports Science)**  
(N/813/18/0021)(03/26)(MQA/PA10731)
- **Doctor of Philosophy (Food Science)**  
(N/541/18/0045)(08/27)(MQA/PA13794)

## 2023 INTAKES

### FEBRUARY COMMENCEMENT DATE:

- Foundation 10/02/2023
- Selected Bachelor Degree/ Diploma programmes

### JUNE COMMENCEMENT DATE:

- Foundation 23/06/2023
- Bachelor Degree & Diploma 26/06/2023

### OCTOBER/NOVEMBER COMMENCEMENT DATE:

- Foundation 20/10/2023
- Selected Bachelor Degree/ Diploma programmes 17/11/2023

# PROGRAMMES OFFERED

## Foundation (1 Year)

➤ Foundation in Science  
(Track A) **KL**

➤ Bachelor of Science (Honours)  
in Applied Physics (Instrumentation) **KL**

➤ Foundation in Science  
(Track B) **KL**

➤ Bachelor of Science (Honours)  
in Bioscience with Chemistry **KL**

➤ Foundation in Science  
(Track A/Track B) **KL**

➤ Bachelor of Science (Honours)  
in Analytical Chemistry **KL**

➤ Bachelor of Science (Honours) in  
Food Science **KL**

➤ Bachelor of Science (Honours) in  
Sports and Exercise Science **KL**

➤ Bachelor of Science (Honours) in Sports  
Coaching and Performance Analysis **KL**

## Diploma (2 Years)

on credit transfer up to

Year 2

## Bachelor Degree (3 Years)

➤ Diploma in Science **KL**

➤ Bachelor of Science (Honours)  
in Analytical Chemistry **KL**

➤ Bachelor of Science (Honours)  
in Bioscience with Chemistry **KL**

➤ Diploma in Food Science **KL**

➤ Bachelor of Science (Honours)  
in Food Science **KL**

➤ Diploma in Sport and  
Exercise Science **KL**

➤ Bachelor of Science (Honours) in  
Sports and Exercise Science **KL**

➤ Bachelor of Science (Honours) in Sports  
Coaching and Performance Analysis **KL**

➤ –

Bachelor of Science (Honours) in  
Applied Physics (Instrumentation) **KL**

➤ Diploma in Aquaculture **JH**

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# ANALYTICAL CHEMISTRY

Analytical chemistry is the science of obtaining, processing, and communicating information about the composition and structure of natural and artificial materials. That is to say, analytical chemistry is the combination of art and science of determining what matter is (identification) and how much of it (quantification) exists. Analytical chemistry also focuses on improvements in experimental design, chemometrics, and the creation of new measurement tools to provide better chemical information. Analytical chemistry has applications in forensics, bioanalysis, clinical analysis, environmental analysis and materials analysis. As a scientific field which has such great diversity in its application, students trained in this programme will surely be in great demand in chemical related industries.

The Analytical Chemistry programme prepares graduates with the foundation to use their knowledge of chemistry, instrumentation, computer, and statistics to solve problems in almost all areas of chemistry and for all kinds of industries. For example, their measurements are used to assure the safety and quality of food, pharmaceuticals, and water; to assure compliance with environmental and other regulations; to support the legal process; to help physicians diagnose diseases; and to provide measurements and documentation essential to trade and commerce.

This programme equips students with technical knowledge of analytical chemistry. The students will also be made aware of international standards that bound them to the society and industry. They will have an opportunity to work with industry through their internship and to carry out a real-life research project on analytical chemistry. All such training will add value to their qualification and later to their employment opportunities.

This programme is endorsed by Institut Kimia Malaysia (IKM). Graduates of this programme can join IKM as a member and hence recognised as a 'Registered Chemist' in Malaysia.



## Career Prospects

- Research Scientists
- Analytical Chemists in commercial labs
- Quality Control/Assurance Chemists
- Laboratory Supervisors
- Product Chemists (Analytical Instrumentation)
- Occupational Health and Safety Specialists
- Environmental Impact Assessment (EIA) Officers (Chemistry aspect)
- Product Development Chemists (pharmaceutical area, food industry, cosmetic industry, polymer industry, etc)
- Product Specialists
- Atmospheric Chemists
- Nanotoxicologist
- Sustainability Manager
- Sport Scientist
- Policy Researcher

## Level & Campus

Bachelor of Science (Honours) in Analytical Chemistry - 3 years

- **KL** (R/442/6/0004)(09/23)(MQA/FA3924)

# BIOSCIENCE WITH CHEMISTRY

This programme equips students with an in-depth understanding of the core principles and methodologies underlying current biotechnological research, thus, able to pursue careers in bioscience and biotechnology either in industry or academic research. In this programme, students are able to develop the transferable qualities and skills required for employment or research in the biosciences sector. Bioscience students are not only trained in laboratory and research skills but equip with the relevant business and entrepreneurial skills. Students will have an opportunity to work with industry through their internship and to carry out a real-life research project in the bioscience area. All such training will add value to their qualification and benefit their employment.

## Career Prospects

- Microbiologists
- Life Sciences Product Specialists
- Research Scientists
- Quality Control/Assurance Executives
- Chemists
- Marketing & Sales Executives
- Life Science Technologists
- Biochemists
- Biotechnologists
- Occupational Health & Safety Specialists
- Environmentalists

## Level & Campus

Bachelor of Science (Honours) in Bioscience with Chemistry - 3 years

- **KL** (R/421/6/0017)(10/23)(MQA/FA3921)



# APPLIED PHYSICS (INSTRUMENTATION)

This programme equips students with the knowledge in physics and instrumentations and operational technical skill, which would lay the foundation for applications in various industrial areas. Students will go through training in the applications of physics and instrumentations, computer simulations, designing virtual instruments using Labview and handling advanced equipment such as thermal evaporator and atomic force microscope. This programme would lay the foundation for future applied physics innovators in material sciences, instrumentations, biomedical and healthcare equipment designers.

Academically, this programme has adequate coverage in its core physics contents, and graduates are well prepared to continue their post-graduate studies in physics, locally or overseas. Additionally, they can also pursue post-graduate studies in cross-disciplinary fields such as nanoscience, biophysics, chemical physics, medical physics and geophysics.

Industries employing physicists are varied:

- Aerospace & Defence
- Education
- Energy
- Engineering
- Instrumentation
- Manufacturing
- Oil and Gas
- Science & Telecommunications



## Career Prospects

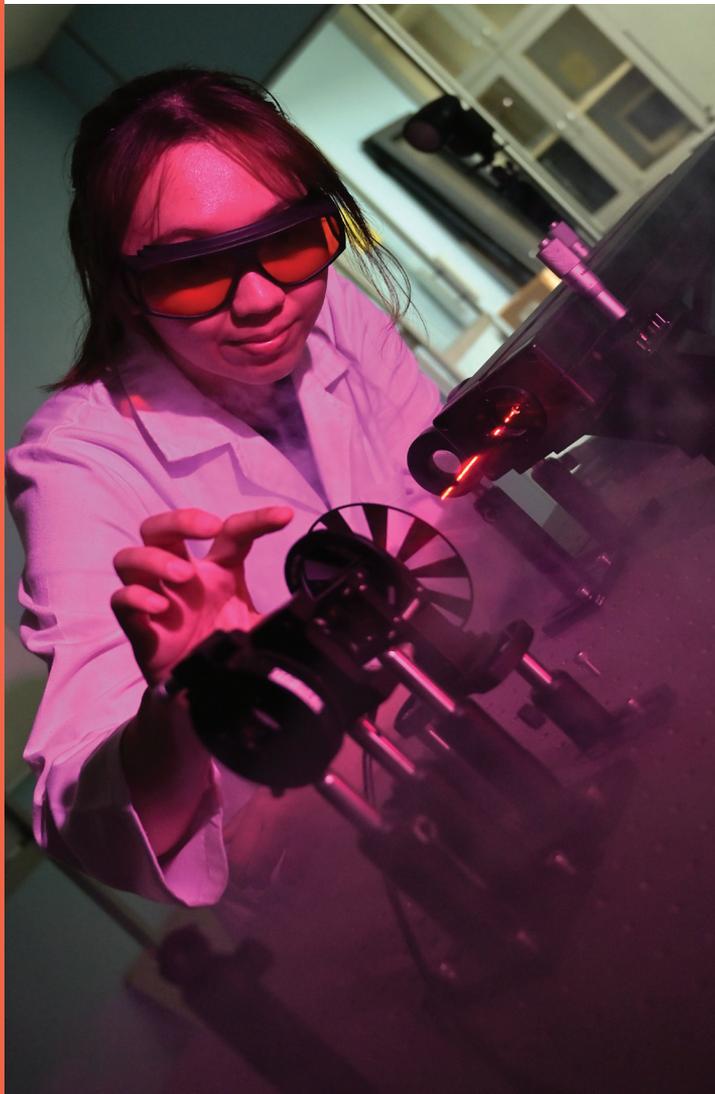
- Research & Development personnel
- Semiconductor Test Engineers
- Semiconductor Design Engineers
- Instrumentation Engineers
- Biomedical Devices Engineers



## Level & Campus

Bachelor of Science (Honours) in Applied Physics (Instrumentation) - 3 years

- **KL** [R/545/6/0028](10/23)(MQA/FA3922)



# FOOD SCIENCE

This programme applies the pure science subjects, such as chemistry, biochemistry, nutrition, biology and microbiology to the study of the nature, properties and composition of foods. It also covers the changes which they undergo during storage and processing including transformation into safe and quality food products for consumers. Graduates will be given exposures to areas in functional foods leading to healthy and vibrant lifestyle. In addition, this programme prepares graduates with advanced laboratory skills and current techniques in food science including those related to safety practices and standards, leading to the professionalism in the area of food science.

Graduates of this programme, therefore, will have developed a range of skills which will enable them to occupy production and managerial positions in food and food-related industries, consulting laboratories, government organisations and regulatory bodies. This programme also aims to prepare technically competent graduates to venture into entrepreneurship and new product developments in food industry.

## Career Prospects

- Food Technologists
- Food Chemists
- QC/QA Executives
- Food Product Development Specialists
- Food Product Specialists
- Nutrition Executives
- Food Microbiologists
- Food Researchers
- Food Service Executives
- Industrial/Retail Buyers
- Marketing and Sales Executives

## Level & Campus

Bachelor of Science (Honours) in Food Science - 3 years

- **KL** (R/541/6/0019)(10/23)(MQA/FA3923)

Diploma in Food Science - 2 years

- **KL** (R/541/4/0021)(06/24)(MQA/FA1070)



# SPORTS AND EXERCISE SCIENCE

The Sports and Exercise Science programme provides the basis for understanding of academic contents related to sport and exercise settings. The programme is based on the application of scientific principles and interdisciplinary approaches. Students will be equipped with both theoretical and practical knowledge. In order to provide holistic theoretical base, students are exposed to exercise physiology, motor behavior, sport and exercise psychology, sport sociology, biomechanics, sport coaching, sport nutrition, sport for special population, health and wellness, research methods, testing and measurement, as well as sport management, marketing and entrepreneurship. The students' practical skills are enhanced through practical approaches which are incorporated into some of the subjects, the inclusion of numerous sport skills which emphasised on the practical aspects will also learned by students.

This programme is relevant in the current development as the market for sport, exercise and recreation is expanding in view of increasing leisure time, rising income and greater awareness of the benefits of sport, exercise and recreation. The expanding market provides increasing opportunities for employment in various sport, exercise and recreation organisations. In addition, the internship programme provides an additional edge to the students in seeking employment in the chosen sector.



## Career Prospects

- Sport Scientists
- Sport Therapists
- Strength and Conditioning Coaches
- Sports Coaches
- Sport Physiologists
- Sport Biomechanists
- Sport and Exercise Psychologists
- Health Promotion Specialists
- Sports Development Officers
- Sport Administrators
- Health & Lifestyle Consultants
- Physical Education Teachers
- Event Management Executives
- Fitness Trainers
- Sport Entrepreneurs
- Personal Trainers



## Level & Campus

Bachelor of Science (Honours) in  
Sports and Exercise Science - 3 years

- **KL** (R/813/6/0022)(10/23)(MQA/FA3920)

Diploma in Sport and Exercise  
Science - 2 years

- **KL** (R/813/4/0021)(08/23)(AA0116)



# SPORTS COACHING AND PERFORMANCE ANALYSIS

The Sports Coaching and Performance Analysis programme provides the basis for understanding academic content related to sports coaching and performance analysis settings. This programme is designed to equip students with a comprehensive understanding of the theoretical and practical knowledge to adopt a scientific approach toward enhancing sports skills relevant to sports coaching as well as to improve sporting performance, sports skills, sport tactical and technical effectiveness using performance analysis. Students are exposed to courses such as sports coaching, biomechanics, sports nutrition, sports performance analysis, strength and conditioning, application of performance analysis, sports pedagogy and training plans. In order to experience a high-quality learning experience, the programme is equipped with facilities such as the Biomechanical Analysis Lab, Exercise Physiology Lab, Athletic Training Lab, and Sports Nutrition Lab. In addition, graduates will have hands-on experience using state-of-the-art equipment and software such as a 3D motion analysis system, indoor athletic track with embedded force platform, sports performance analysis software, world-class timing and training system, flywheel training instrument, cognitive-motor and functional training instrument and many more.

Graduates will be able to demonstrate competencies in applying the theoretical, practical and instructional skills gained in performing effective planning, evaluating and managing sports coaching and performance analysis activities. Graduates will also comprehend the ability to utilize objective information to make more evidence-based decisions, which is essential for sports performance. Also, graduates will acquire information to explore emerging trends, research, and the impact of technology on sports coaching and performance analysis industries. Hence, preparing them to gain employment in the sports, coaching and fitness industry.

## Career Prospects

- Sport Performance Analyst
- Sports Coaches
- Sport Coaching Scientists
- Strength and Conditioning Coaches
- Sport Biomechanist
- Fitness Trainers
- Personal Trainer
- Health and Wellness Specialists
- Sports Coaching Development Officers
- Physical Educators
- Sport Administrators
- Sport Entrepreneurs
- Research and Development Officers
- Talent Identification Officers

## Level & Campus

Bachelor of Science (Honours) in  
Sports Coaching and Performance Analysis - 3 years

- **KL** (N/B13/6/0053)(08/28)(MQA/PA14637)

# CHEMISTRY AND BIOLOGY

The programme syllabus covers a broad spectrum of topics which include environmental chemistry & technology, electrochemistry, industrial organic chemistry, thermodynamics, stereochemistry, material science, biotechnology, biochemistry, genetics, physiology, microbiology and immunology. Trainings in various advanced techniques and instrumentation such as FT-IR, UV-VIS spectroscopy, centrifugation, and serological methods are also included.



## Career Prospects

- Clinical Lab Technologists
- Laboratory Supervisors
- Production Technicians
- Quality Controllers
- Product Specialists
- Research Assistants
- Quality Assurance Technologists
- Sales Executives



## Level & Campus

Diploma in Science - 2 years

- **KL** (R/421/4/0015)(08/23)(AA0106)

# AQUACULTURE

This programme provides students with the scientific knowledge and skills in aquaculture and forms a link for those who wish to embark on a career in aquaculture industries. The programme covers a wide range of topics in aquaculture setup, water quality, system preparation, feed and nutrition, seed production and nursery, harvesting, aquaponics etc.

This programme also offers hands-on practicals, fieldwork, industrial training. The programme prepares graduates with aquaculture skills and techniques, as well as analytical skills in laboratories, leading to the professionalism in the area of aquaculture. Students will also be taught the fundamental of business and entrepreneurship to help them venture into various aquaculture industries.



## Career Prospects

- Sales & Technical
- Hatchery Technicians
- Farm Technicians
- Laboratory Technicians



## Level & Campus

Diploma in Aquaculture - 2 years

- **JH** (R/624/4/0002)(04/26)(MQA/FA7567)

# BACHELOR DEGREE ENTRY REQUIREMENTS

<b>Bachelor of Science (Honours) in Bioscience with Chemistry</b>	<b>STPM</b>	<b>A Level</b>	<b>UEC</b>	<b>Other IHL</b>	<b>TAR UMT/TAR UC</b>
	Grade C in Biology and Chemistry	Grade D in Biology and Chemistry	Grade B in 5 relevant subjects which must include Biology and Chemistry	Relevant Foundation/ Diploma accredited by MQA	<ul style="list-style-type: none"> <li>Foundation in Science (Track B)</li> </ul> OR <ul style="list-style-type: none"> <li>Diploma in Science <i>[formerly known as Diploma in Science (Chemistry and Biology)]</i></li> </ul>
<b>AND</b> <b>SPM Pass/O Level Grade E (Pass) in Mathematics## / UEC Grade C in one mathematics subject##</b> <b>AND</b> <b>SPM Pass/O Level Grade E (Pass)/UEC Grade C in English Language**</b>					
<b>Bachelor of Science (Honours) in Analytical Chemistry</b>	<b>STPM</b>	<b>A Level</b>	<b>UEC</b>	<b>Other IHL</b>	<b>TAR UMT/TAR UC</b>
	Grade C in 2 relevant subjects which must include Chemistry	Grade D in 2 relevant subjects which must include Chemistry	Grade B in 5 relevant subjects which must include Chemistry	Relevant Foundation/ Diploma accredited by MQA	<ul style="list-style-type: none"> <li>Foundation in Science (Track A / Track B)</li> </ul> OR <ul style="list-style-type: none"> <li>Diploma in Science <i>[formerly known as Diploma in Science (Chemistry and Biology)]</i></li> </ul>
<b>AND</b> <b>SPM Pass/O Level Grade E (Pass) in Mathematics## / UEC Grade C in one mathematics subject##</b> <b>AND</b> <b>SPM Pass/O Level Grade E (Pass)/UEC Grade C in English Language**</b>					
<b>Bachelor of Science (Honours) in Applied Physics (Instrumentation)</b>	<b>STPM</b>	<b>A Level</b>	<b>UEC</b>	<b>Other IHL</b>	<b>TAR UMT/TAR UC</b>
	Grade C in 2 relevant subjects which must include Physics	Grade D in 2 relevant subjects which must include Physics	Grade B in 5 relevant subjects which must include Physics	Relevant Foundation/ Diploma accredited by MQA	Foundation in Science (Track A)
<b>AND</b> <b>SPM Pass/O Level Grade E (Pass) in Mathematics## / UEC Grade C in one mathematics subject##</b> <b>AND</b> <b>SPM Pass/O Level Grade E (Pass)/UEC Grade C in English Language**</b>					

\*\* Grade C and above in AELE0364 English Language conducted by TAR UMT is accepted as having fulfilled the English Language requirement for applicants who fail English Language at SPM/O Level/UEC.

## Grade C and above in AMMS0104 General Mathematics conducted by TAR UMT is accepted as having fulfilled the Mathematics requirement for applicants who fail the required Mathematics subject at SPM/O Level/UEC.

Note:

- Students without a credit in SPM Bahasa Melayu are required to pass Bahasa Kebangsaan A before the award of Bachelor Degree.
- TAR UMT/TAR UC Diploma will be accepted on credit transfer into Bachelor Degree programmes.
- Equivalent qualifications/qualifications from other Institution of Higher Learning (IHL) will be considered on a case-by-case basis.
- Subject to the Ministry of Higher Education latest requirements.

# BACHELOR DEGREE ENTRY REQUIREMENTS

	STPM	A Level	UEC	Other IHL	TAR UMT/TAR UC
<b>Bachelor of Science (Honours) in Sports and Exercise Science</b>	Grade C in 2 relevant subjects	Grade D in 2 relevant subjects	Grade B in 5 relevant subjects	Relevant Foundation/Diploma accredited by MQA	<ul style="list-style-type: none"> <li>Foundation in Science (Track A/ Track B)</li> </ul>
<b>Bachelor of Science (Honours) in Sports Coaching and Performance Analysis</b>	<b>AND</b> <b>SPM Pass/O Level Grade E (Pass) in Mathematics## /</b> <b>UEC Grade C in one mathematics subject##</b> <b>AND</b> <b>SPM Pass/O Level Grade E (Pass)/UEC Grade C in English Language**</b>				OR <ul style="list-style-type: none"> <li>Diploma in Sport and Exercise Science</li> </ul>

	STPM	A Level	UEC	Other IHL	TAR UMT/TAR UC
<b>Bachelor of Science (Honours) in Food Science</b>	Grade C in 2 relevant subjects which must include Chemistry	Grade D in 2 relevant subjects which must include Chemistry	Grade B in 5 relevant subjects which must include Chemistry	Relevant Foundation/Diploma accredited by MQA	<ul style="list-style-type: none"> <li>Foundation in Science (Track A/ Track B)</li> </ul>
	<b>AND</b> <b>SPM Pass/O Level Grade E (Pass) in Mathematics## /</b> <b>UEC Grade C in one mathematics subject##</b> <b>AND</b> <b>SPM Pass/O Level Grade E (Pass)/UEC Grade C in English Language**</b>				OR <ul style="list-style-type: none"> <li>Diploma in Food Science</li> </ul>

\*\* Grade C and above in AELE0364 English Language conducted by TAR UMT is accepted as having fulfilled the English Language requirement for applicants who fail English Language at SPM/O Level/UEC.

## Grade C and above in AMMS0104 General Mathematics conducted by TAR UMT is accepted as having fulfilled the Mathematics requirement for applicants who fail the required Mathematics subject at SPM/O Level/UEC.

Note:

- Students without a credit in SPM Bahasa Melayu are required to pass Bahasa Kebangsaan A before the award of Bachelor Degree.
- TAR UMT/TAR UC Diploma will be accepted on credit transfer into Bachelor Degree programmes.
- Equivalent qualifications/qualifications from other Institution of Higher Learning (IHL) will be considered on a case-by-case basis.
- Subject to the Ministry of Higher Education latest requirements.

# DIPLOMA ENTRY REQUIREMENTS

<b>Diploma in Science</b> <i>[formerly known as Diploma in Science (Chemistry and Biology)]</i>	<b>SPM</b>	<b>O Level</b>	<b>UEC</b>	<b>Certificate</b>
	3 Credits in the relevant subjects	3 Grade C in the relevant subjects	3 Grade B in the relevant subjects	Relevant Certificate accredited by MQA
<b>Compulsory subjects:</b>				
(i) <b>SPM</b> Credit/ <b>O Level</b> Grade C/ <b>UEC</b> Grade B in Biology or Chemistry where minimum <b>SPM</b> Pass/ <b>O Level</b> Grade E(Pass)/ <b>UEC</b> Grade C in the other subject is required				
(ii) <b>SPM</b> Pass / <b>O Level</b> Grade E (Pass) in Mathematics <sup>##</sup> / <b>UEC</b> Grade C in Advanced Mathematics (I or II) <sup>##</sup>				
(iii) <b>SPM</b> Pass/ <b>O Level</b> Grade E (Pass)/ <b>UEC</b> Grade C in English Language**				
<b>Diploma in Sport and Exercise Science</b>	<b>SPM</b>	<b>O Level</b>	<b>UEC</b>	<b>Certificate</b>
	3 Credits in the relevant subjects	3 Grade C in the relevant subjects	3 Grade B in the relevant subjects	Relevant Certificate accredited by MQA
<b>Compulsory subjects:</b>				
(i) <b>SPM</b> Pass/ <b>O Level</b> Grade E (Pass) in Mathematics <sup>##</sup> / <b>UEC</b> Grade C in one mathematics subject <sup>##</sup>				
(ii) <b>SPM</b> Pass/ <b>O Level</b> Grade E (Pass)/ <b>UEC</b> Grade C in one relevant science subject <u>AND</u> English Language**				
<b>Diploma in Food Science</b>	<b>SPM</b>	<b>O Level</b>	<b>UEC</b>	<b>Certificate</b>
	3 Credits in the relevant subjects	3 Grade C in the relevant subjects	3 Grade B in the relevant subjects	Relevant Certificate accredited by MQA
<b>Compulsory subjects:</b>				
(i) <b>SPM</b> Credit/ <b>O Level</b> Grade C in Mathematics/ <b>UEC</b> Grade B in Advanced Mathematics (I or II)				
(ii) <b>SPM</b> Credit/ <b>O Level</b> Grade C/ <b>UEC</b> Grade B in Chemistry				
(iii) <b>SPM</b> Pass/ <b>O Level</b> Grade E (Pass)/ <b>UEC</b> Grade C in English Language**				
<b>Diploma in Aquaculture</b>	<b>SPM</b>	<b>O Level</b>	<b>UEC</b>	<b>Certificate</b>
	3 Credits in the relevant subjects	3 Grade C in the relevant subjects	3 Grade B in the relevant subjects	Relevant Certificate accredited by MQA
<b>Compulsory subjects:</b>				
<b>SPM</b> Pass/ <b>O Level</b> Grade E (Pass)/ <b>UEC</b> Grade C in one relevant science subject <u>AND</u> English Language**				

\*\* Grade C and above in AELE0364 English Language conducted by TAR UMT is accepted as having fulfilled the English Language requirement for applicants who fail English Language at SPM/O Level/UEC.

## Grade C and above in AMMS0104 General Mathematics conducted by TAR UMT is accepted as having fulfilled the Mathematics requirement for applicants who fail the required Mathematics subject at SPM/O Level/UEC.

Note:

- SPM holders must have at least a pass in Bahasa Melayu and SPM holders from Year 2013 onwards must have at least a pass in Sejarah.
- Students without a credit in SPM Bahasa Melayu are required to pass Bahasa Kebangsaan A before the award of Diploma.
- Equivalent qualifications/qualifications from other Institution of Higher Learning (IHL) will be considered on a case-by-case basis.
- Subject to the Ministry of Higher Education latest requirements.

# FOUNDATION ENTRY REQUIREMENTS

BACHELOR DEGREE	FOUNDATION	ENTRY REQUIREMENTS		
		SPM	O LEVEL	UEC
Bachelor of Science (Honours) in Bioscience with Chemistry	Foundation in Science (Track B)	5 Credits in the relevant subjects which must include,	5 Grade C in the relevant subjects which must include,	3 Grade B in the relevant subjects which must include,
		<p><b>SPM Credit/O Level Grade C/UEC Grade B</b> in one mathematics subject and two relevant science subjects  <b>AND</b>  <b>SPM Pass/O Level Grade E (Pass)/UEC Grade C</b> in Biology, Chemistry and English Language</p>		
Bachelor of Science (Honours) in Food Science	Foundation in Science (Track B)	5 Credits in the relevant subjects which must include,	5 Grade C in the relevant subjects which must include,	3 Grade B in the relevant subjects which must include,
Bachelor of Science (Honours) in Analytical Chemistry		<p><b>SPM Credit/O Level Grade C/UEC Grade B</b> in one mathematics subject and two relevant science subjects  <b>AND</b>  <b>SPM Pass/O Level Grade E (Pass)/UEC Grade C</b> in Biology, Chemistry and English Language</p>		
Bachelor of Science (Honours) in Sports and Exercise Science	Foundation in Science (Track A)	5 Credits in the relevant subjects which must include,	5 Grade C in the relevant subjects which must include,	3 Grade B in the relevant subjects which must include,
Bachelor of Science (Honours) in Sports Coaching and Performance Analysis		<p><b>SPM Credit/O Level Grade C/UEC Grade B</b> in one mathematics subject and two relevant science subjects  <b>AND</b>  <b>SPM Pass/O Level Grade E (Pass)/UEC Grade C</b> in Physics, Chemistry and English Language</p>		
Bachelor of Science (Honours) in Applied Physics (Instrumentation)	Foundation in Science (Track A)	5 Credits in the relevant subjects which must include,	5 Grade C in the relevant subjects which must include,	3 Grade B in the relevant subjects which must include,
		<p><b>SPM Credit/O Level Grade C/UEC Grade B</b> in one mathematics subject and two science subjects  <b>AND</b>  <b>SPM Pass/O Level Grade E (Pass)/UEC Grade C</b> in Physics, Chemistry and English Language</p>		

**Note:**

- a) SPM holders must have at least a pass in Bahasa Melayu and SPM holders from Year 2013 onwards must have at least a pass in Sejarah.
- b) Equivalent qualifications other than the above will be considered on a case-by-case basis.
- c) Subject to the Ministry of Higher Education latest requirements.

**PERFORM**

**1<sup>ST</sup> AgileMAS HPSC 2022**

1<sup>ST</sup> AGILEMAS RESEARCH IN HIGH PERFORMANCE SPORTS COLLOQUIUM (HPSC) 2022

"SPORTS EXCELLENCE THROUGH RESEARCH, INNOVATION & TECHNOLOGY"

**YOUNG INVESTIGATOR AWARDS**      **BEST PRESENTER AWARDS**

**NG WAN XI**

**NURAINA NAZIHA**      **KLEVEN LIM JIN YEW**      **PHOEBE NG XIAO YAN**

**Department of Sport Science, Tunku Abdul Rahman University College**



Sport Science Students won Young Investigator Award and Best Presenter Awards in 1<sup>st</sup> Agilemas Research in High Performance Sports Colloquium (HPSC) 2022.

**Certificate of Achievement**

**NATIONAL BIOTECHNOLOGY CASE COMPETITION 2021**

This certificate is presented to

**CHAN ZI YIN**

for winning the  
**National Biotechnology Case Competition 2021 (NBCC21)**  
Senior Category  
organized by the  
**IUMW Biotechnology Club**  
International University of Malaya-Wales, Kuala Lumpur  
16th August 2021 - 1st October 2021

**Dr. Nurul Nisa Omar**  
Dean  
Faculty of Arts and Science  
International University of Malaya-Wales



Chan Zi Yin, a Diploma in Science (DSC) student won the National Biotechnology Case Competition 2021 for Senior Category organised by the International University of Malaya-Wales (IUMW) Biotechnology Club.

# STUDENT ACTIVITIES



1. Mid-Autumn Festival with Wangsa Walk Mall 2022, 10 & 11 September 2022
2. Making Your Own Snowskin Mooncake
3. Soap Carving Contest
4. Mini Weiqi Competition



Field Trip Visit to EGI Green Farm, Sungkai, Perak, on 8 July 2022 organised by SAS Alumni Society.



**Bursary for State/National Players**

Bursary for State/National Players is open to students who are pursuing the **Sports and Exercise Science & Sports Coaching and Performance Analysis** programme.



- The value of the Bursary is as follows:-  
National player : **50%** waiver tuition fee  
State player : **25%** waiver tuition fee
- The Bursary is for one semester only (i.e. 1st Semester)

# MERIT SCHOLARSHIP

Automatically offered upon admission

## Diploma/Foundation Programmes

Entry Qualification	Criteria	Waiver of Tuition Fee
SPM	Minimum 8A+/A	<b>100%</b>
O Level	Minimum 8As	
SPM	8As*	<b>50%</b>
O Level	7As	
SPM	7As*	<b>25%</b>
O Level	6As	
SPM	6As*	<b>20%</b> Foundation programmes only
SPM	5As*	<b>15%</b> Foundation programmes only

\*SPM As : A+/A/A-

## Bachelor Degree Programmes

Entry Qualification	Criteria	Waiver of Tuition Fee
STPM / A Level	3As	<b>100%</b>
Unified Examination Certificate (UEC)	8As	
*TAR UMT/TAR UC Diploma/ *TAR UMT/TAR UC Foundation/ Matriculation	CGPA ≥ 3.8500	
South Australian Matriculation (SAM)/ Western Australian Certificate of Education (WACE)/ Higher School Certificate (HSC)	≥ ATAR 95	
Canadian Pre-University (CPU)	≥ 95%**	
STPM / A Level	2As	
Unified Examination Certificate (UEC)	7As	
*TAR UMT/TAR UC Diploma/ *TAR UMT/TAR UC Foundation/ Matriculation	CGPA ≥ 3.7500	
South Australian Matriculation (SAM)/ Western Australian Certificate of Education (WACE)/ Higher School Certificate (HSC)	≥ ATAR 90	
Canadian Pre-University (CPU)	≥ 90%**	
Unified Examination Certificate (UEC)	6As	<b>25%</b>
Unified Examination Certificate (UEC)	5As	<b>20%</b>

Including A-

\*Must have obtained straight passes in all courses (including co-curriculum courses for diploma)  
\*\*For all subjects with a minimum of 6 subjects

Only applicable for full-time programmes.  
Terms & Conditions apply.

## For further information, please contact:

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**Faculty of Applied Sciences**

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