



2024



TARUMT
TUNKU ABDUL RAHMAN UNIVERSITY OF
MANAGEMENT AND TECHNOLOGY

BEYOND EDUCATION

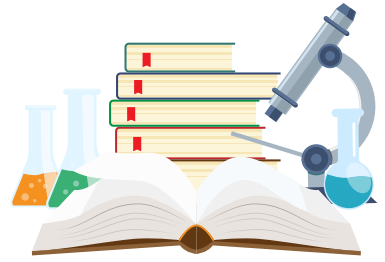
FACULTY OF APPLIED SCIENCES

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



NG WIN NIE



“The four years I spent at TAR UMT KL Campus will always be great and memorable for me. I am grateful to my lecturers who have guided and shared their knowledge and experience with me while always maintaining their professionalism, patience and enthusiasm. I have also gained wonderful friends through team assignments and the moments we have spent together will be engraved as valuable and indelible memories in my heart. In these four years, I have improved a lot in practical, technical, problem solving and communication skills, which have shaped me to become a better version of myself. Special thanks to TAR UMT for providing a conducive and vibrant environment for students to study and also have a balanced campus lifestyle. Last but not least, I would like to express my biggest attitude to my family, friends and lecturers who helped me and provided useful advice when I faced challenges.”

Bachelor in Science (Honours) in Analytical Chemistry - Graduated in 2023



CHANG HUI KIE



“Studying food science at TAR UMT has been a highly enriching experience. Exploring food chemistry and formulation ignited my passion. The programme has an emphasis on practical application. Through various lab sessions, industry-focused projects, and internships, I had the opportunity to apply theoretical concepts to real-world scenarios. TAR UMT's outstanding resources, facilities and industry partnerships offered unparalleled opportunities for cutting-edge research, keeping me updated with the latest advancements in food science. I'm truly grateful that TAR UMT has equipped me well for immediate employment after graduation, allowing me to contribute meaningfully to society.”

**Regulatory Technologist, Kerry Group, Malaysia
Bachelor in Science (Honours) Food Science - Graduated in 2023**



CLAUDIA NG JIA YEE



“Studying sports science at TAR UMT has been an amazing experience for me. I credit much of my success to the support given by TAR UMT which helped me delve deeper into the fascinating world of sports coaching and performance. From engaging lectures to practicals, especially in sports coaching, sports nutrition and exercise physiology subjects, this programme has provided me with valuable experiences and knowledge to prepare me for my future career in the sports industry. I confidently recommend this programme to anyone seeking a transformative education in the field of sports.”

Bachelor in Science (Honours) in Sports and Exercise Science - Graduated in 2023

The Faculty of
Applied Sciences is
ISO 9001:2015 Certified



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

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.

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

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

Why study at the

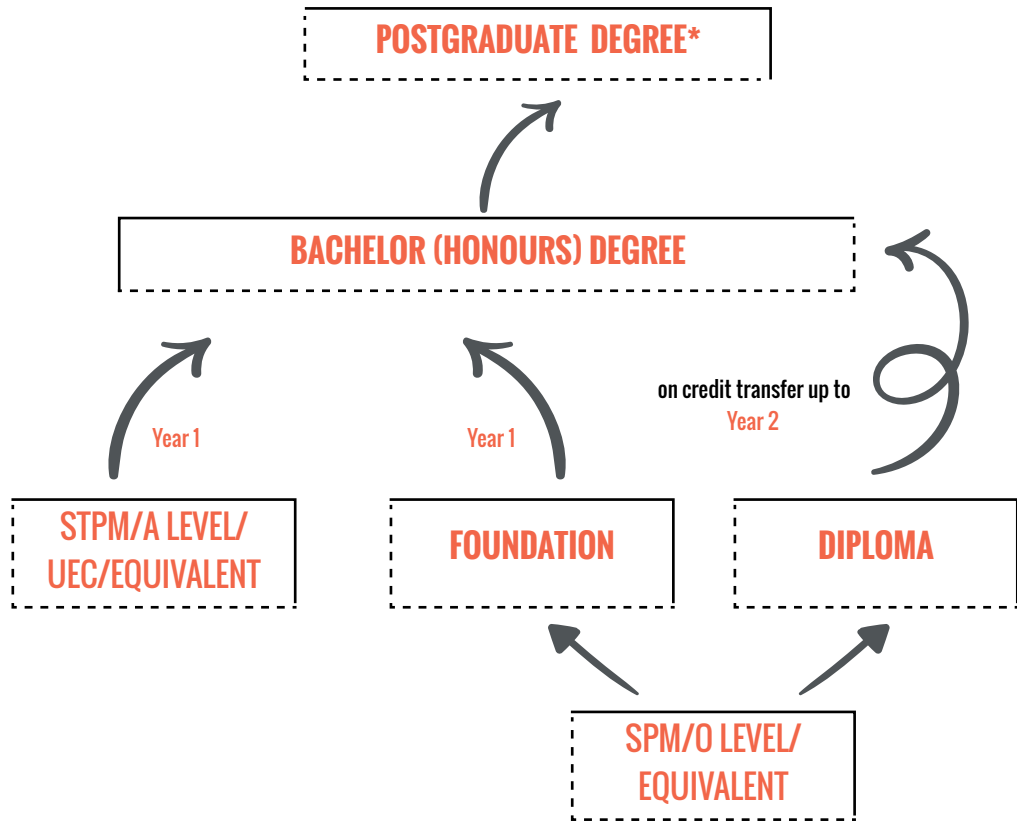
FACULTY OF APPLIED SCIENCES

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

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**.

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/FA10036)
- **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)

2024 INTAKES	FEBRUARY	COMMENCEMENT DATE:
	<ul style="list-style-type: none"> • Foundation • Selected Bachelor Degree/ Diploma programmes 	19/02/2024
JUNE	COMMENCEMENT DATE:	
	<ul style="list-style-type: none"> • Foundation • Bachelor Degree & Diploma 	21/06/2024 24/06/2024
OCTOBER/NOVEMBER	COMMENCEMENT DATE:	
	<ul style="list-style-type: none"> • Foundation • Selected Bachelor Degree/ Diploma programmes 	11/10/2024 14/11/2024

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**

➤ Bachelor of Science (Honours) in
Nutrition - 3 Years 6 months **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**

➤ Bachelor of Science (Honours) in
Nutrition - 3 Years 6 months **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
- Science Writer
- Sales and marketing specialist
- Petrochemical analyst
- Science Communication and Outreach Specialist



Level & Campus

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

- **KL** (R2/0531/6/0004A)(09/28)(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** (R2/0511/6/0017A)(10/28)(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

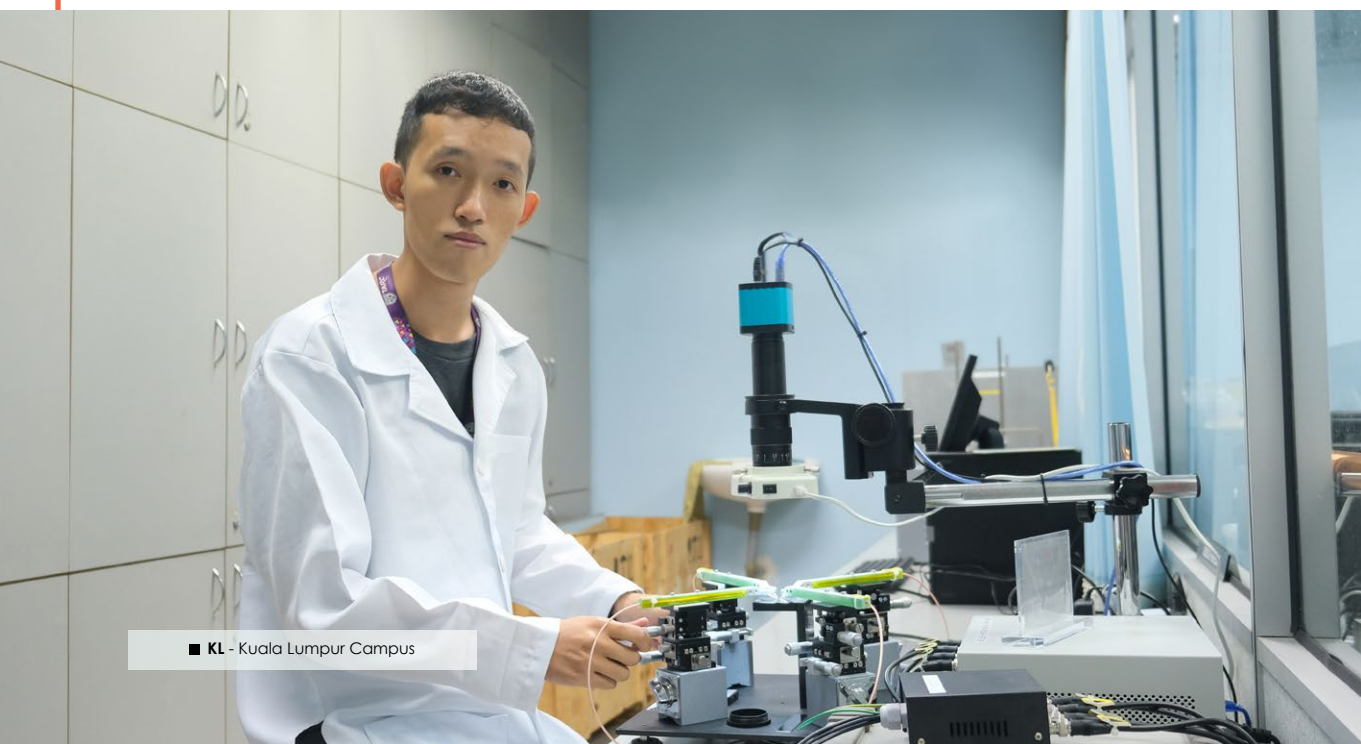
Career Prospects

- Research & Development personnel
- Semiconductor Test Engineers
- Semiconductor Design Engineers
- Instrumentation Engineers
- Biomedical Devices Engineers
- Research and Development Scientist/Engineer
- Photonics Engineer
- Nanotechnology Specialist
- Renewable Energy Specialist
- Medical Physicist
- Science Communication and Outreach Specialist

Level & Campus

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

- **KL** (R2/0533/6/0028A)(10/28)(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** (R2/0721/6/0019A)(10/28)(MQA/FA3923)

Diploma in Food Science - 2 years

- **KL** (R2/0721/4/0001)(06/29)(MQA/FA1070)



NUTRITION

This programme, in a nutshell, is regarding how food, nutrients and other dietary components affect growth and development in health and disease by applying fundamental knowledge of pure science subjects, such as biochemistry, nutrition, biology and microbiology. The programme also examines environmental, sociocultural, psychological, and behavioural aspects concerning food and eating. Consumer concerns on food and water safety, food quality and regulations are important issues which are addressed in this programme. Graduates will be exposed to areas in community nutrition leading to a healthy and vibrant lifestyle. In addition, this programme prepares graduates with advanced laboratory skills and current techniques in nutrition to assess nutritional status as well as those related to safety practices and standards, leading to professionalism in nutrition.

Graduates of this programme, therefore, will develop a range of skills which will enable them to provide evidence-based nutritional guidelines and recommendations in nutrition and food-related industries; consulting the public based on the understanding of the role of diet in maintaining health and preventing diseases; taking up positions in government organisations and regulatory bodies which require nutritionist. This programme also aims to prepare technically competent graduates to venture into entrepreneurship and new product developments in the food industry.

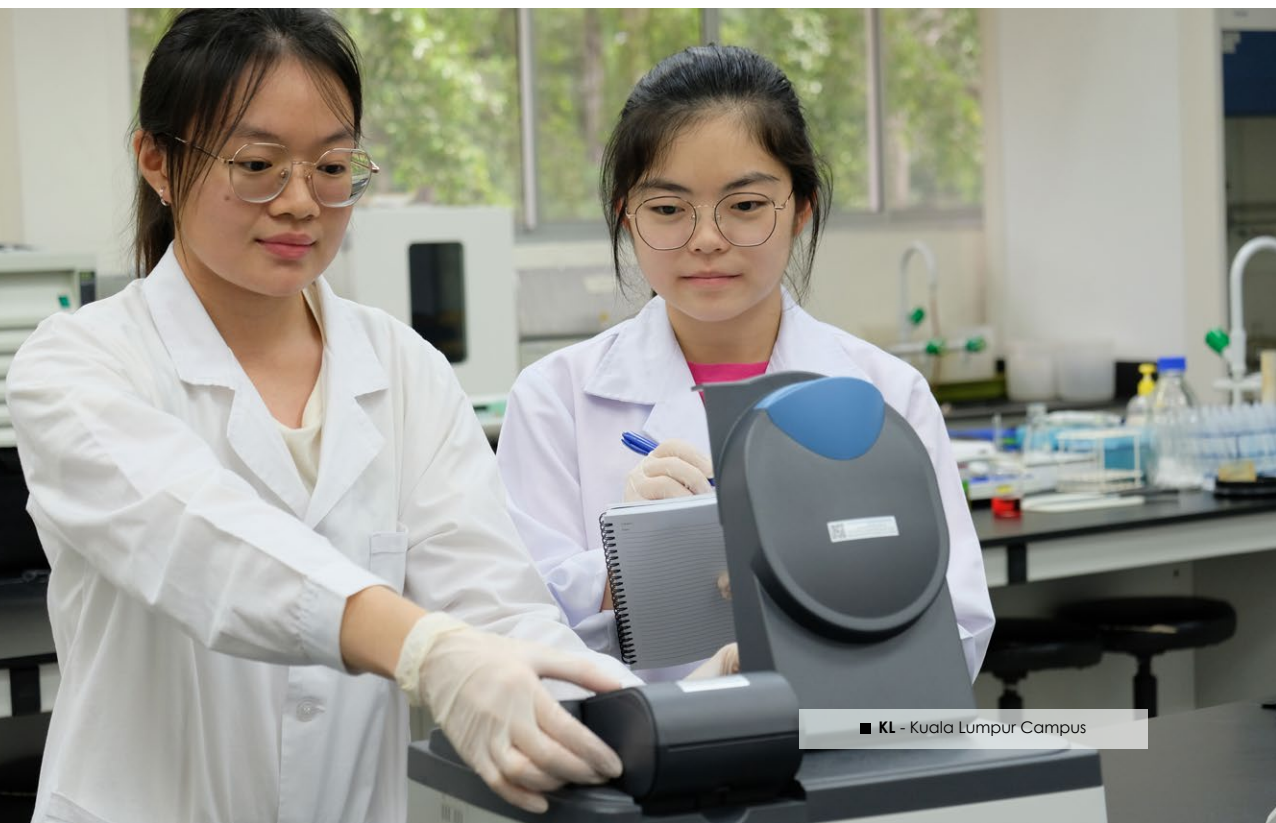
Career Prospects

- Nutrition researcher, R&D field
- Nutritional & health management consultation/ meal plan
- Sales & marketing
- Nutritionist trainer, consultation
- Public education, promote health awareness, health educator
- Product formulation personnel
- Regulatory affairs
- Business management
- Nutrition event planner

Level & Campus

Bachelor of Science (Honours) in Nutrition - 3 years 6 months

- **KL** (N/0915/6/000 2)(10/29)(MQA/PA15687)



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** (R2/1014/6/0022A)(10/28)(MQA/FA3920)

Diploma in Sport and Exercise Science - 2 years

- **KL** (R2/813/4/0021)(08/28)(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/813/6/0053)(08/28)(MQA/PA14637)

■ **KL** - Kuala Lumpur Campus



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.

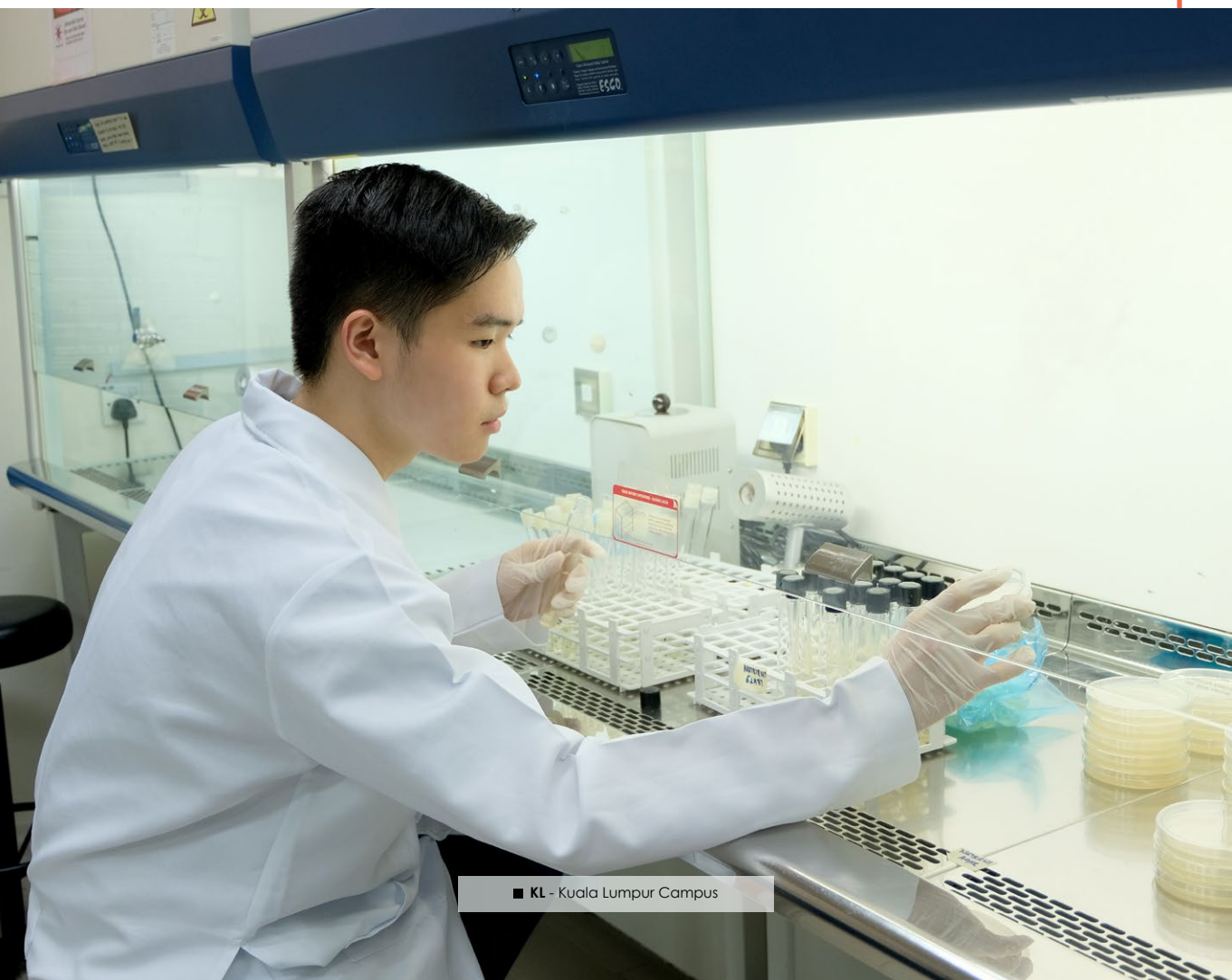
Career Prospects

- 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** (R2/421/4/0015)(08/28)(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

	STPM	A Level	UEC	Other IHL	TAR UMT/TAR UC
Bachelor of Science (Honours) in Bioscience with Chemistry	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"> Foundation in Science (Track B) OR Diploma in Science [formerly known as Diploma in Science (Chemistry and Biology)]
	AND SPM Pass/O Level Grade E (Pass) in Mathematics## / UEC Grade C in one mathematics subject## AND SPM Pass/O Level Grade E (Pass)/UEC Grade C in English Language**				
Bachelor of Science (Honours) in Analytical Chemistry	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"> Foundation in Science (Track A/ Track B) OR Diploma in Science [formerly known as Diploma in Science (Chemistry and Biology)]
	AND SPM Pass/O Level Grade E (Pass) in Mathematics## / UEC Grade C in one mathematics subject## AND SPM Pass/O Level Grade E (Pass)/UEC Grade C in English Language**				
Bachelor of Science (Honours) in Applied Physics (Instrumentation)	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)
	AND SPM Pass/O Level Grade E (Pass) in Mathematics## / UEC Grade C in one mathematics subject## AND SPM Pass/O Level Grade E (Pass)/UEC Grade C in 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:

- 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
Bachelor of Science (Honours) in Sports and Exercise Science	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"> ■ Foundation in Science (Track A/Track B) OR ■ Diploma in Sport and Exercise Science
Bachelor of Science (Honours) in Sports Coaching and Performance Analysis	<p>AND</p> <p>SPM Pass/O Level Grade E (Pass) in Mathematics^{##} / UEC Grade C in one mathematics subject^{##}</p> <p>AND</p> <p>SPM Pass/O Level Grade E (Pass)/UEC Grade C in English Language^{**}</p>				

	STPM	A Level	UEC	Other IHL	TAR UMT/TAR UC
Bachelor of Science (Honours) in Food Science	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"> ■ Foundation in Science (Track A/Track B) OR ■ Diploma in Food Science
	<p>AND</p> <p>SPM Pass/O Level Grade E (Pass) in Mathematics^{##} / UEC Grade C in one mathematics subject^{##}</p> <p>AND</p> <p>SPM Pass/O Level Grade E (Pass)/UEC Grade C in English Language^{**}</p>				

^{**} 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:

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

BACHELOR DEGREE ENTRY REQUIREMENTS

	STPM	A Level	UEC	Other IHL	TAR UMT/TAR UC
Bachelor of Science (Honours) in Nutrition	Grade C+ in 2 of the following subjects: <ul style="list-style-type: none"> ▪ Biology ▪ Chemistry ▪ Physic/one mathematics subject 	Grade D in 2 of the following subjects: <ul style="list-style-type: none"> ▪ Biology ▪ Chemistry ▪ Physic/one mathematics subject 	Grade B in 5 relevant subjects which must include 2 of the following subjects: <ul style="list-style-type: none"> ▪ Biology ▪ Chemistry ▪ Physic/one mathematics subject 	<ul style="list-style-type: none"> ▪ Relevant Foundation accredited by MQA with minimum GPA 2.3300 in two of the following subjects: <ul style="list-style-type: none"> • Biology • Chemistry • Physics/Mathematics OR ▪ Relevant Diploma accredited by MQA with minimum CGPA 2.7500 OR less than CGPA of 2.7500 and a minimum of 3 years working experience in the related field 	<ul style="list-style-type: none"> ▪ Foundation in Science (Track A/Track B) with minimum GPA 2.3300 in two of the following subjects: <ul style="list-style-type: none"> • Biology • Chemistry • Physics/Mathematics OR ▪ Diploma in Food Science with minimum CGPA 2.7500 OR less than CGPA of 2.7500 and a minimum of 3 years working experience in the related field
	<p>AND</p> <p>SPM Pass/O Level Grade E (Pass) in Mathematics## / UEC Grade C in one mathematics subject##</p> <p>AND</p> <p>SPM Pass/O Level Grade E (Pass)/UEC Grade C in English Language**</p>				
<p>AND</p> <p>***MUET Band 3.0/IELTS Band Score 4.0/equivalent</p>					

***Exempted for students whose programme full medium of instruction was in English.

** 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:

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

DIPLOMA ENTRY REQUIREMENTS

Diploma in Science

[formerly known as Diploma in Science (Chemistry and Biology)]

SPM	O Level	UEC	Certificate
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
Compulsory subjects:			
(i) SPM Credit/O Level Grade C/UEC Grade B in Biology or Chemistry where minimum SPM Pass/O Level Grade E (Pass)/UEC Grade C in the other subject is required			
(ii) SPM Pass/O Level Grade E (Pass) in Mathematics^{##}/UEC Grade C in Advanced Mathematics (I or II) ^{##}			
(iii) SPM Pass/O Level Grade E (Pass)/UEC Grade C in English Language ^{**}			

Diploma in Sport and Exercise Science

SPM	O Level	UEC	Certificate
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
Compulsory subjects:			
(i) SPM Pass/O Level Grade E (Pass) in Mathematics^{##}/UEC Grade C in one mathematics subject ^{##}			
(ii) SPM Pass/O Level Grade E (Pass)/UEC Grade C in one relevant science subject <u>AND</u> English Language ^{**}			

Diploma in Food Science

SPM	O Level	UEC	Certificate
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
Compulsory subjects:			
(i) SPM Credit/O Level Grade C in Mathematics/ UEC Grade B in Advanced Mathematics (I or II)			
(ii) SPM Credit/O Level Grade C/UEC Grade B in Chemistry			
(iii) SPM Pass/O Level Grade E (Pass)/UEC Grade C in English Language ^{**}			

Diploma in Aquaculture

SPM	O Level	UEC	Certificate
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
Compulsory subjects:			
SPM Pass/O Level Grade E (Pass)/UEC 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:

- a) SPM holders must have at least a pass in Bahasa Melayu and SPM holders from Year 2013 onwards must also have at least a pass in Sejarah.
- b) Students without a credit in SPM Bahasa Melayu are required to pass Bahasa Kebangsaan A before the award of Diploma.
- c) Equivalent qualifications/qualifications from other Institution of Higher Learning (IHL) will be considered on a case-by-case basis.
- d) 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>SPM Credit/O Level Grade C/UEC Grade B in one mathematics subject and two relevant science subjects AND SPM Pass/O Level Grade E (Pass)/UEC Grade C 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,
		<p>SPM Credit/O Level Grade C/UEC Grade B in one mathematics subject and two relevant science subjects AND SPM Pass/O Level Grade E (Pass)/UEC Grade C in Biology, Chemistry and English Language</p>		
Bachelor of Science (Honours) in Analytical Chemistry				
Bachelor of Science (Honours) in Sports and Exercise Science				
Bachelor of Science (Honours) in Sports Coaching and Performance Analysis	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>SPM Credit/O Level Grade C/UEC Grade B in one mathematics subject and two relevant science subjects AND SPM Pass/O Level Grade E (Pass)/UEC Grade C 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>SPM Credit/O Level Grade C/UEC Grade B in one mathematics subject and two science subjects AND SPM Pass/O Level Grade E (Pass)/UEC Grade C in Physics, Chemistry and English Language</p>		

Note:

- SPM holders must have at least a pass in Bahasa Melayu and SPM holders from Year 2013 onwards must also have at least a pass in Sejarah.
- Equivalent qualifications other than the above 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 Nutrition	Foundation in Science (Track A/Track B)	5 Credits in the relevant subjects which must include the following 4 subjects:	5 Grade C in the relevant subjects which must include the following 4 subjects:	3 Grade B in the following subjects:
		<ul style="list-style-type: none"> • Biology • Chemistry • Physics • one mathematics subject 		<ul style="list-style-type: none"> • Biology • Chemistry • Physics/one mathematics subject
		AND SPM Pass/O Level Grade E (Pass)/UEC Grade C in English Language		

Note:

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



STUDENT ACHIEVEMENTS



A number of teams consisting of FOAS students won the WATSON & TARUMT Youth Empowerment & Sustainability Program (YES) 2023 Competition on 5 October 2023. Two teams won the first and second placings in the Go Empowerment category while another won second placing in the Go Green category.



Two teams of students from FOAS participated in the Microbes Invention Innovation and Ideation Challenge (MINIC) 2023 organised by Universiti Putra Malaysia (UPM) on 18 November 2023. One team won the second prize while the other won the Bronze award in the Undergraduate category.

STUDENT ACTIVITIES



TAR UMT sports science team led by Assoc Prof Dr Ler Hui Yin, Deputy Dean, Faculty of Applied Sciences provided scientific monitoring and guidance to Mr Soh Wai Ching, who attempted the 'Farthest Simulated Distance Climbed on a Stair Machine in One Hour' with a distance of 1.649km for the Guinness World Records in April 2023.



Faculty of Applied Sciences (FOAS) co-organised a coaching clinic with Badminton World Federation (BWF) on 25 March 2023 & 24 June 2023 in conjunction with World Badminton Day.



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)

For further information, please visit www.tarc.edu.my

MERIT SCHOLARSHIP

Automatically offered upon admission

Diploma/Foundation Programmes

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

*SPM As : A+/A/A-

Bachelor Degree Programmes

Entry Qualification	Criteria	Waiver of Tuition Fee	
STPM / A Level	3As	100%	
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		50%
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%**		
STPM*** / A Level***	1A	25%	
Unified Examination Certificate (UEC)	6As		
Unified Examination Certificate (UEC)	5As	20%	

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

***Effective June 2024 Intake

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

For further information, please contact:

Faculty of Applied Sciences

Telephone: (6) 03 4145 0100/23 ext. 3231

Email: foas@tarc.edu.my

 (6)011-1075 8544

Kuala Lumpur Campus

Jalan Genting Kelang, Setapak, 53300 Kuala Lumpur, Malaysia.

Telephone: (6) 03 4145 0100/23

E-mail: info@tarc.edu.my

Penang Branch

77, Lorong Lembah Permai Tiga, 11200 Tanjung Bungah, Penang, Malaysia.

Telephone: (6) 04 899 5230

E-mail: penang@tarc.edu.my

 011-1082 5618

Perak Branch

Jalan Kolej, Taman Bandar Baru, 31900 Kampar, Perak, Malaysia.

Telephone: (6) 05 466 0388, 466 8012/3

E-mail: perak@tarc.edu.my


 011-1075 8513

Johor Branch

Jalan Segamat/Labis, 85000 Segamat, Johor, Malaysia.

Telephone: (6) 07 927 0801/3

E-mail: johor@tarc.edu.my


 011-1082 5624

Pahang Branch

Jalan IM 9/2, Indera Mahkota 9, 25200 Kuantan, Pahang, Malaysia.

Telephone: (6) 09 573 8171/2/3

E-mail: pahang@tarc.edu.my


 011-1082 5631

Sabah Branch

No 1, Jalan Alamesra, Alamesra, 88450 Kota Kinabalu, Sabah, Malaysia.

Telephone: (6) 088 348 080

E-mail: sabah@tarc.edu.my

 011-1082 5619



www.tarc.edu.my

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