



**UniKL**  
UNIVERSITI  
KUALA LUMPUR

# RESILIENCE THAT BEAMS, GRIT THAT GLEAMS

ANNUAL REPORT 2021



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**NEW ASPIRATIONS,**

**A NEW DIRECTION**



With the strategies, initiatives and targets set for 2022, UniKL envisioned strengthening its reputation and sustainability to establish its global prominence.

Almost 20 years since the establishment of UniKL, by next year, this technical university has built a strong and exceptional brand in the field of education. Proven by the commendable success of securing the Putra Brand awards in succession, it shows beyond doubt that UniKL remains the people's choice.

The 20 August 2002 marked a revived defining moment for Malaysia's educational landscape with the birth of a new Higher Technical and Vocational Education and Training (HTVET) academic institution.

UniKL pioneers the HTVET agenda of the nation, which has formed a strategic driving force towards producing graduates who are needed globally and educated in ways to maintain a humane society. In essence, UniKL cultivates its graduates with solid technological knowledge and adroit entrepreneurial skills who can meet the current demand of the industries.

With 13 institutes located throughout the country, UniKL offers various foundation, diploma, undergraduate and postgraduate programmes in their niche areas of specialisation. As a university dedicated to tertiary education, UniKL also develops its commercialisation potential and research under the concept of One Institute, One Specialisation.

“UniKL pioneers the HTVET agenda of the nation, which has formed a strategic driving force towards producing graduates who are needed globally and educated in ways to maintain a humane society.”

**NEW ASPIRATIONS, A NEW DIRECTION | NE**





**DATUK DR ROZIAH OMAR**

“Aimed at achieving the prime objective, positioning the university in the international education market has since become one of the utmost priorities in propelling the growth and sustainability of UniKL.”

## Putting UniKL on the global map

UniKL has welcomed a new administration into its fold during the still-raging Covid-19 pandemic crisis on 1 July 2021 with the appointment of Datuk Dr. Roziah Omar as the university's fourth President and Chief Executive Officer (CEO).

Above the mark of the Asian market, Datuk Dr Roziah, 65, who had previously served as the Deputy Director-General (Private Higher Education Institutions) at the Ministry of Higher Education, envisions setting a future-proof footprint for UniKL beyond the horizon — towards globalisation.

Aimed at achieving the prime objective, positioning the university in the international education market has since become one of the utmost priorities in propelling the growth and sustainability of UniKL.

It has been set under the second and third strategic thrust of UniKL in the short term of three years, involving the essence of academic excellence, branding, marketing and internationalisation.

In line with the university's motto, 'Where Knowledge is Applied and Dreams Realised', Datuk Dr Roziah, a distinguished scholar with extensive achievements in research and leadership acknowledges UniKL has to ensure the relevancy of the programmes offered and the career pathway of its graduates while ensuring its academic excellence is being recognised.

To this end, UniKL aspires to attract distinguished global talents in teaching and research, as well as collaborations with internationally renowned universities for internal talent development.

This can be realised through mutual teaching and research mobility programmes to enhance the university's academic talent.

The desired objective must correspondingly be met by linking with top local and international universities and industries. Yet, this extends beyond networking to improve international visibility and branding through high impact collaborations with internationally renowned universities.

In fact, UniKL has indeed provided academic and technical programmes in collaboration with recognised education institutes in Spain, France, Britain, Germany, Italy and other developed countries by means of bilateral relationships between the government of Malaysia and these nations.

Through such collaboration, many undergraduate and postgraduate students to a certain degree have gained a first-rate working environment and a lively social life experience.

While globalising UniKL is preeminent, strategic partnerships with key industrial players will remain strong, established from time to time to ensure UniKL can continuously leverage all the latest technology and its resources provided by partners for academic and research use.

Courses taught at UniKL, on the ground of this, are recognised by leaders and professional bodies in its relevant industry.

## **Global recognitions manifest UniKL's steady exertions**

Earlier this year, UniKL marked a new chapter when it was enlisted for the first time in the Times Higher Education (THE) Emerging Economies University Ranking 2021.

Malaysia's largest private technical entrepreneurial university with an enrolment of 22,000 students and under the aegis of Majlis Amanah Rakyat (MARA), UniKL is ranked 400-500 position, a remarkable achievement since its inception in 2002.

It is also among 15 Malaysian universities out of 606 tertiary institutions from 48 countries and regions worldwide or 14 percent more than in 2020 (533), as 86 universities make their debut.

Amid the global Covid-19 pandemic that has affected student enrolment into universities, UniKL then continues to soar as a top-performing institution in the Times Higher Education (THE) Asia University Rankings 2021.

The ninth edition of THE Asia University Rankings secured UniKL a spot among the top 551 universities from 30 territories. UniKL made its debut, alongside Universiti Teknikal Malaysia Melaka (UTeM), in the 401+ band.

Not only that, the technical university also for the first time has been included in the QS World University Rankings 2022 and was among 22 Malaysian universities listed from a total of 1,300 universities in 97 locations globally in the annual university rankings.

It was listed in the 801-1000 band alongside Universiti Malaysia Pahang (UMP), Universiti Malaysia Perlis (UniMAP) and Universiti Tunku Abdul Rahman (UTAR).

These achievements have brought UniKL to become among four Malaysian government-linked universities (GLU) that have established themselves as top institutions by consistently getting excellent national and international ratings.

This achievement is amplified by the recognition of the Malaysia Research Assessment Instrument (MyRA) and Rating System for Malaysian Higher Education Institutions (SETARA).

By 2025, the technical university aims to be listed in the world's top 600 universities and has 6 SETARA star ratings. With the strategies, initiatives and targets set for 2022, UniKL envisioned strengthening its reputation and sustainability to establish its global prominence.



UNIVERSITI KUALA LUMPUR.

# ABOUT UNIKL



Universiti Kuala Lumpur (UniKL) is Malaysia's leading private entrepreneurial university in Higher Technical and Vocational Education and Training (HTVET). It was established on 20 August 2002 and is wholly owned by Majlis Amanah Rakyat (MARA), an agency under the Ministry of Rural Development. Rated as a Tier-5 "Excellent University" by the Ministry of Higher Education, UniKL is the biggest 'Government Linked University' or GLU in the country in terms of enrolment with over 22,000 students.

At its establishment in 2002, UniKL's original name was Universiti Teknikal MARA or UniTEK-MARA in short. However, during a Cabinet paper presentation in 2003 on the establishment of UniTEK-MARA, the 4th Prime Minister, Tun Dr. Mahathir Mohamad suggested a name change to Universiti Kuala Lumpur or UniKL in short to promote Kuala Lumpur as a learning hub and to propel UniKL internationally. UniKL City Campus, which is also the house of Chancellery, is located in the heart of Malaysia's capital and commerce area, boasting the tallest university tower in the country – a 31-storey building situated at the heart of the Golden Triangle of Kuala Lumpur. There are 13 institutes and 12 campuses strategically located nationwide offering more than 140 programmes starting from foundation, diploma, undergraduate and postgraduate studies.

The university's concept of 'One Institute, One Specialisation' is an ideal model formulated in creating graduates who are globally competent in meeting occupational demands in various sectors of the workforce. His Majesty the Yang di-Pertuan Agong (King of Malaysia) Al-

Sultan Abdullah Ri'ayatuddin Al-Mustafa Billah Shah Ibni Almarhum Sultan Haji Ahmad Shah Al-Musta'in Billah is also the Chancellor of UniKL. As the nation's premier institute in HTVET, UniKL has attained accreditation from several professional organisations including the Malaysian Qualification Agency (MQA).

UniKL provides new academic and technical programmes in collaboration with renowned international universities and research institutes from Spain, France, Britain, Germany, Italy and other developed countries. A recognised and trusted university, UniKL offers hands-on-training and actual industrial works that are embedded in all of UniKL courses including non-engineering technology programmes such as business studies, technology management, medicine, health care and pharmacy.

Being the HTVET university in Malaysia, we are proud to announce that since 2005, UniKL has produced 73,317 graduates (both local and international) in various divisions of studies. In 2018, UniKL stood tall as one of the top universities in Asia, ranked 351 out of 7,700 accredited universities in the region. This speaks volume of its rapid development as an educational hub globally, fulfilling the university's motto of 'Where Knowledge is Applied and Dreams Realised.' UniKL also stamped its mark in the world of brands and branding. It was awarded the Putra Award in Education and Higher Learning in 2016 and 2018 respectively and the Brand Laureate Best Brands Award in Higher Education for three consecutive years (2016-2018). The Putra Brand Awards is the premier brand award in Malaysia that recognises an integral business plan and preference by consumers.

# ORGANISATIONAL CHART



UniKL's mission to forge continued scalability towards becoming a leading technical university is behind a forth of optimised advocates by the leaders. UniKL's Chancellors, President, Board of Directors, Deans, and Management Committee invest supreme effort to ensure its continued growth and success.





**TUANKU  
CHANCELLOR**

HIS MAJESTY  
SERI PADUKA BAGINDA THE YANG DI-PERTUAN AGONG  
AL-SULTAN ABDULLAH RI'AYATUDDIN AL-MUSTAFA BILLAH SHAH  
IBNI ALMARHUM SULTAN HAJI AHMAD SHAH AL-MUSTA'IN BILLAH

D.K.P., D.K.M., D.K., D.M.N., S.S.A.P., S.I.M.P., D.K.(TERENGGANU), D.K.(JOHOR), S.P.M.J.,  
D.K.M.B.(BRUNEI), D.K.(KEDAH), D.K.(PERLIS), D.K.(PERAK), D.K.(SELANGOR)



**UNIVERSITI KUALA LUMPUR  
PRO CHANCELLORS**



**YB DATO' SERI  
MAHDZIR BIN KHALID**

Minister of Rural Development  
and Pro Chancellor of UniKL



**YB DATUK SERI PANGLIMA  
HAJAH AZIZAH BINTI  
DATUK SERI PANGLIMA  
HAJI MOHD DUN**

Chairman of Majlis Amanah Rakyat (MARA)  
and Pro Chancellor of UniKL



**YBHG. DATO'  
AZHAR BIN ABDUL MANAF**

Director General,  
Majlis Amanah Rakyat (MARA)  
and Pro Chancellor of UniKL

**UNIVERSITI KUALA LUMPUR  
BOARD OF DIRECTORS**



**YBHG. DATO'  
DR. AFIFI AL-AKITI**



**YBHG. DATUK  
CHE MURAD SAYANG  
BIN RAMJAN**



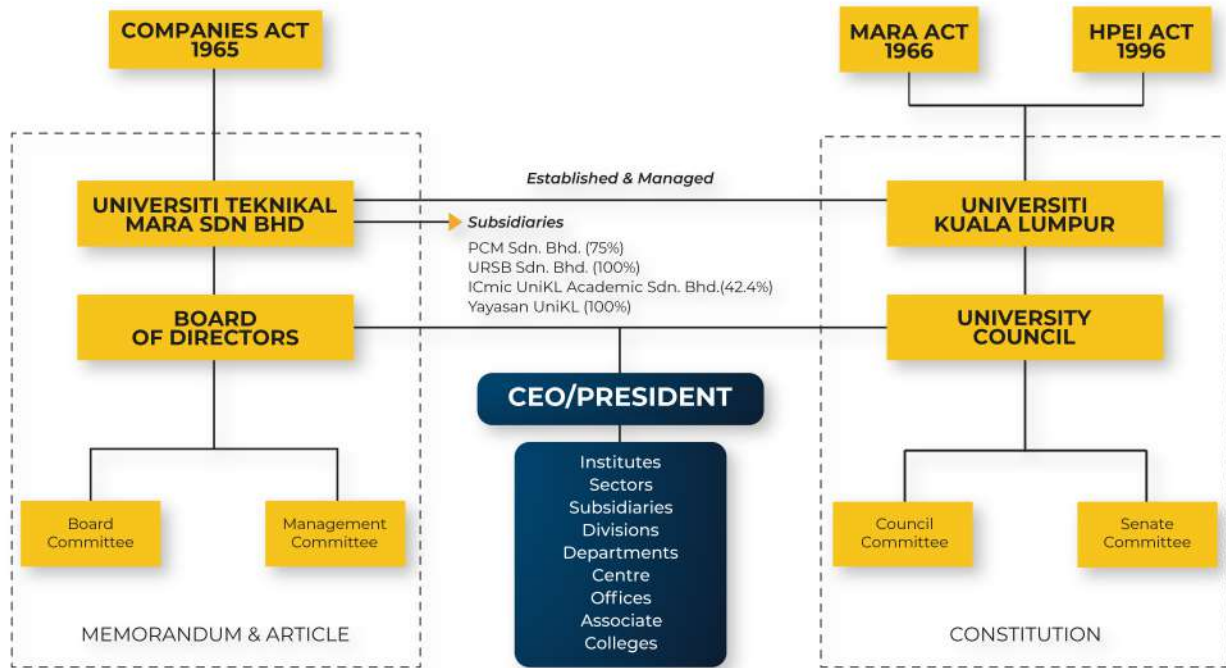
**YBHG. ENCIK RAZLAN  
BIN HAJI SAMSURI**

**UNIVERSITI KUALA LUMPUR  
PRESIDENT/CEO**

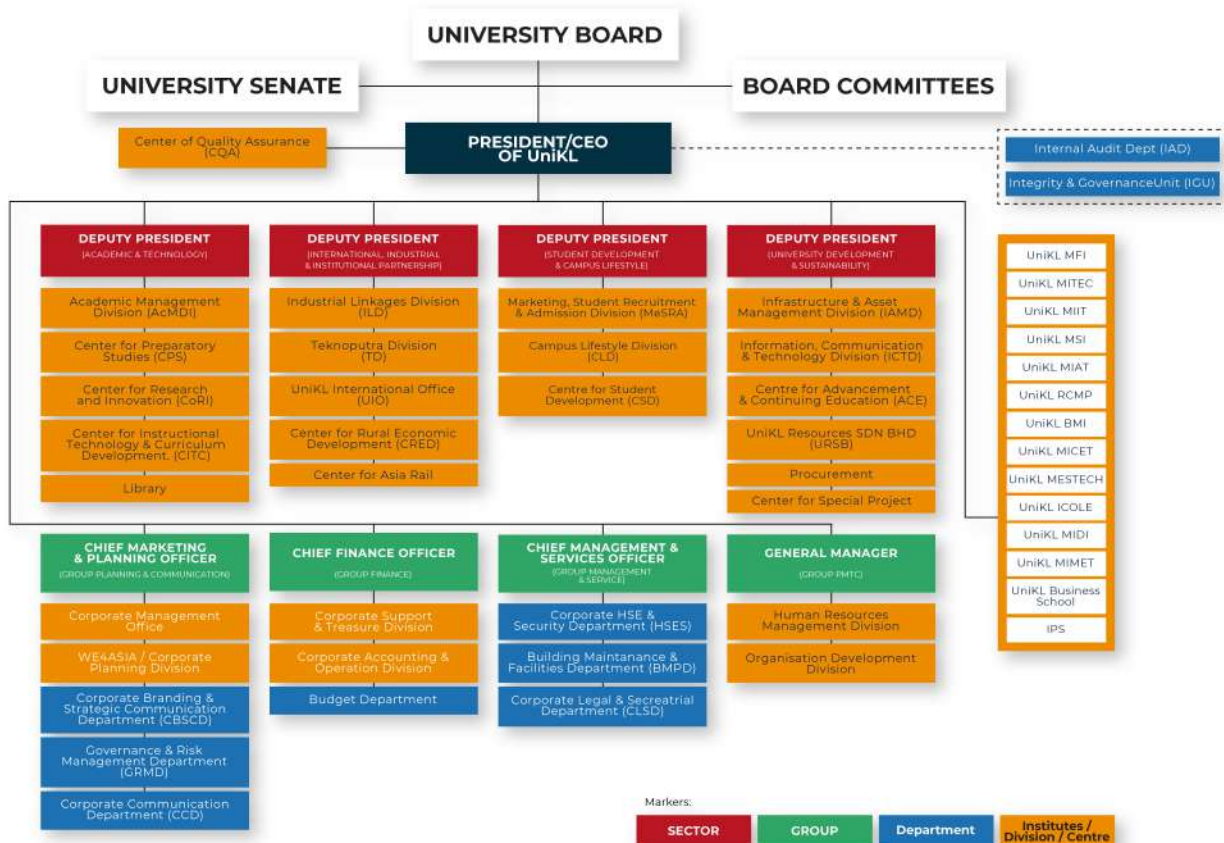


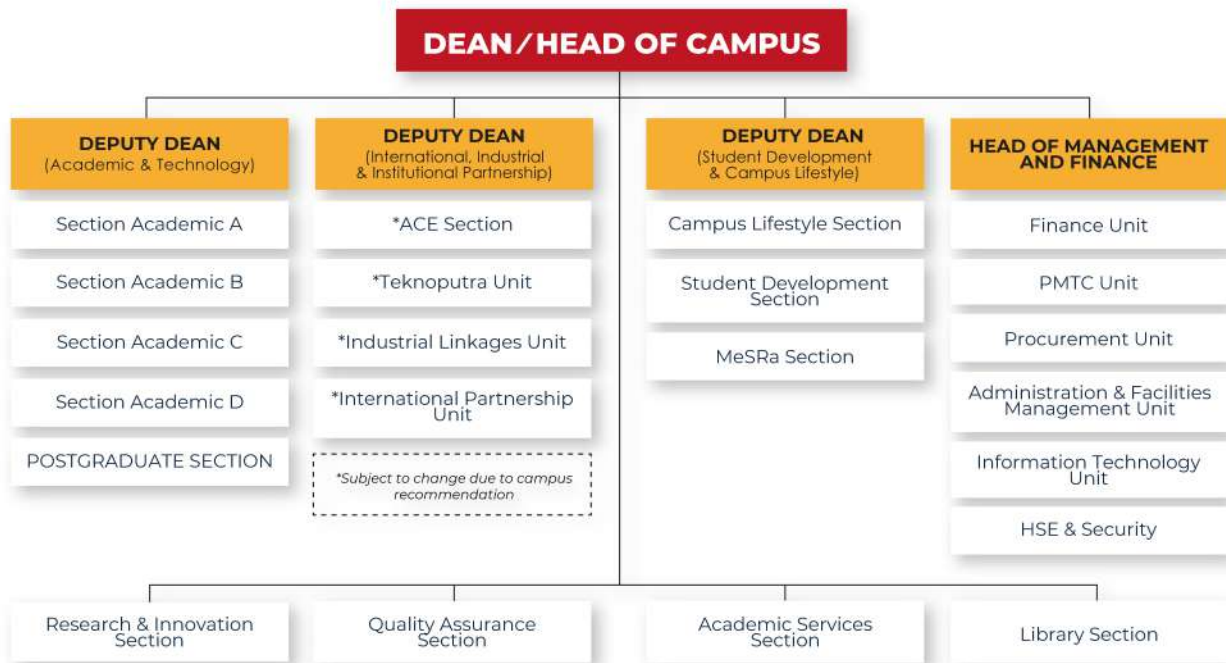
**YBHG. DATUK DR.  
ROZIAH BINTI OMAR**

# UNIVERSITI KUALA LUMPUR GOVERNANCE STRUCTURE



# CORPORATE STRUCTURE CHANCELLERY





Further development saw Universiti Teknikal MARA Sdn. Bhd, the operator of UniKL has become a wholly-owned subsidiary of MARA Corporation Sdn. Bhd., effective on 1 November 2021.

MARA Corporation’s acquisition of the largest private technical university in Malaysia aims to provide competitive and efficient centralised services to its subsidiary’s ecosystem, among others. Before the takeover, UniKL was wholly owned by Majlis Amanah Rakyat (MARA) and given the mandate to upgrade the status of technical education in Malaysia by the government.

Notably, the technical university was established with the original name of Universiti Teknikal MARA on 20 August 2002 before being renamed to UniKL in 2003.





**ACADEMIC AND  
INTERNATIONALISATION**



# Gearing towards renewable energy



Advocating the usage of renewable energy sources, embracing solar, wind, and geothermal are among other efforts to strive for a low-carbon future; and all countries around the world are putting it as their top priority. The efforts followed by the focus of industrial players — regardless of the field, are shifting towards sustainability, which eventually leads them to adopt a few goals outlined in the Sustainable Development, and Malaysia is not left behind.

A report by the Ministry of Energy, Green Technology and Water in 2019 stated that thousands of high-skilled jobs are projected to be created in

Malaysia during this transition to the green economy.

As the emergence of the renewable energy industry is developing, the hard truth that we have no choice but to accept is skill shortages in green jobs will inevitably surface, bidding the government to always introduce new efforts associated with the creation of renewable energy talents to curb the concern from worsening.

Welcoming the undertaking, Universiti Kuala Lumpur (UniKL) through its electrical and electronics (E&E)-focused institute, UniKL British Malaysian Institute (UniKL BMI) offers Bachelor of Electrical Engineering

Technology (Sustainable Energy) with Honours or BEET (SE) programme.

As emphasised by the Dean of UniKL BMI, Assoc. Prof. Dr. Kushsairy Abdul Kadir, the syllabus introduced in the programme is keeping abreast with the development of the industry, and the future graduates are believed to be highly in demand.

“We created this programme according to suggestions and guidance from Sustainable Energy Development Authority (SEDA). Not only that, the students who enrol in this programme will be graduating with two professional certificates, namely Grid-Connected Photovoltaic (PV) Systems Design Course and Energy Manager certification.

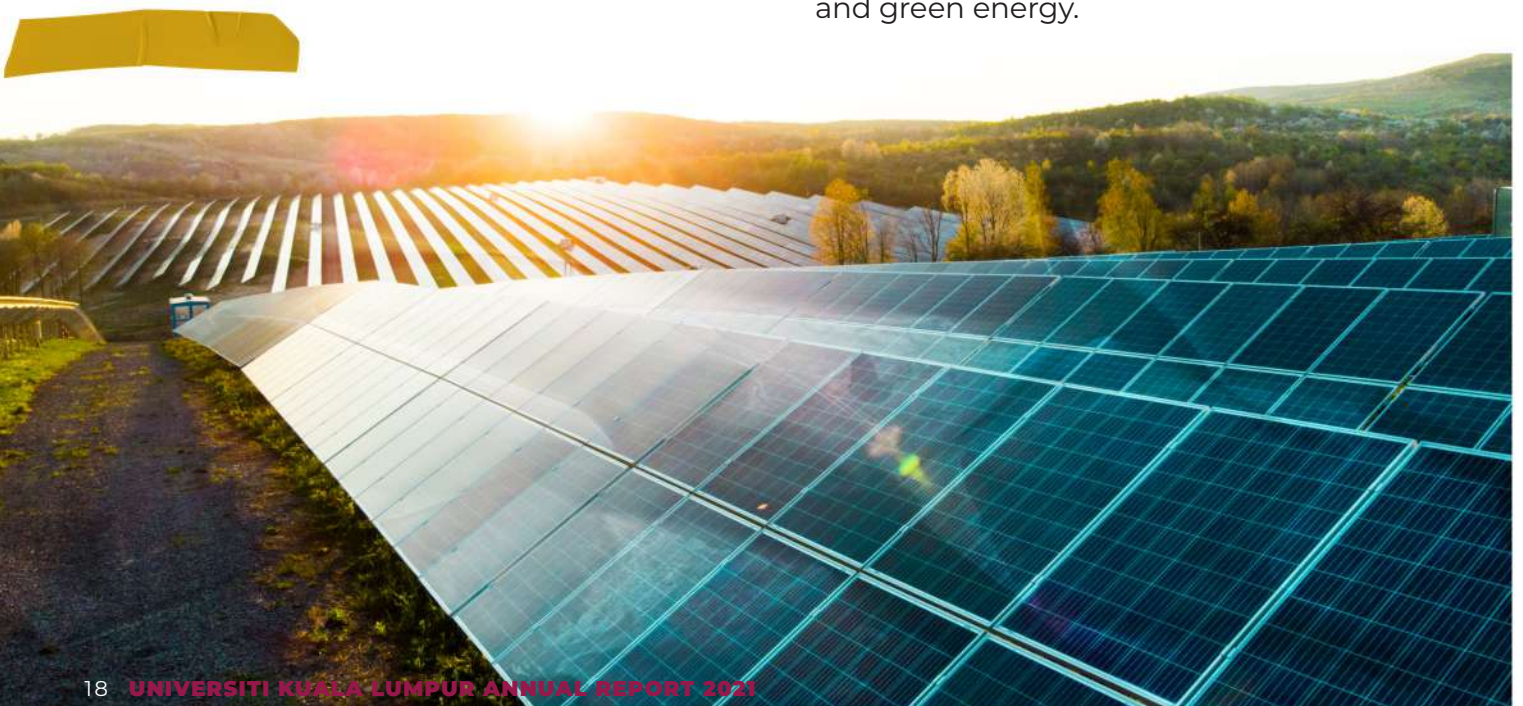
“With these two certifications on top of the academic degree, I have faith that the graduates will have an additional advantage and in fact, in view of the increasing RE industry demand talent, I expect our capacity of graduates creation will not be enough to fulfill it, eventually leading to 100 percent employability rate,” said him.

Under the RE vision and plan of Assoc. Prof. Dr. Kushsairy, there are two sides of the same coin that set off as the focus for the institute namely generation and consumption of energy. To complement that, UniKL BMI is establishing a centre of research with the living lab concept, which specially focalises on renewable energy and energy efficiency areas.

The centre is set to be the first net-zero building in Malaysia in consonance with the direction of Malaysia towards sustainability. The direction is certainly visible, but Assoc. Prof. Dr. Kushsairy admits that there is no denying this nation is still inadequate of expertise in energy storage and efficiency.

“Through this centre, we will not simply focus on renewable energy but also concentrate on energy optimisation and efficiency. When it comes to energy generation, it is important to stabilise it with energy storage technology,” he noted.

Alongside the new programme offered this year with the newly-established centre, UniKL BMI is progressing toward being the leading academic institution in RE and green energy.



In addition to the trailblazing endeavours, the Gombak-based institute plans to embark on a solar farm project on a 6-acre land located opposite the campus. Assoc. Prof. Dr. Kushsairy revealed that the solar farm is projected to generate an energy capacity of around 3 megawatts (MW).

“If we have all this, we have the capacity to become a net-zero campus. This large-scale solar can be utilised as our teaching factory through joint ventures with the industry players which eventually can provide our students with first-hand and hands-on learning as well as an internship programme,” he further elaborated.

Like all deans in 12 other UniKL institutes, Assoc. Prof. Dr. Kushsairy aims to be as well as a leader possibly can for the betterment of the campus by regularly communicating with academic, technical, and managerial staff regarding current activities and programmes.

Assoc. Prof. Dr. Kushsairy - who holds Bachelor of Science (Engineering), M.Sc in Mechatronics Engineering and Ph.D. in Electronic & Electrical Engineering, sets to ensure that the programmes offered at UniKL BMI are still relevant and current.

“On the strength of our hands-on learning, I believe the courses offered are still relevant in the next five to ten years. For now, I can say that UniKL BMI is one of the biggest electrical and electronic schools compared to other local universities.

“At the moment, this institute is the focal point for communication technology and electrical power and

general electronics courses.

The latest, we became the first academic institution in Malaysia to introduce a medical electronics programme, which is relevant to the current situation of pandemic Covid-19,” he added.

It is noteworthy to mention that UniKL BMI is gearing up to introduce another course in the area of semiconductors, which is expected to begin in September 2022.



**ASSOC. PROF. DR. KUSHSAIRY**

# A Partnership To Unlock Aerospace Future Potential In Malaysia

Malaysia's premier aviation training institution, Universiti Kuala Lumpur Malaysian Institute of Aviation Technology (UniKL MIAT) and Turkish Aerospace Incorporation (TAI) have entered into a Memorandum of Cooperation (MoC) to explore potential collaboration in aerospace educational, technical training, and applied research programmes in Malaysia.

The MoC provides a collaborative framework, in which both organisations will work on human capital, faculty, and academic programme development, focusing on initiatives to produce a pool of future talents for Malaysia's aerospace industry while addressing research challenges around the future of the aerospace industry and air power.





Chief Executive Officer of TAI, Professor Dr. Temel Kotil said that TAI is delighted to collaborate with UniKL MIAT to support aerospace education and training programmes in Malaysia.

“This country is located in the fastest-growing aviation market in the world, and this partnership could allow us to jointly meet the demand for highly-qualified professionals in the aerospace industry while assisting Malaysia to become a regional aerospace champion in this region,” said him, who was quoted as saying in a press release by UniKL.

Earlier on, Professor Dr. Temel Kotil undertook a tour of UniKL MIAT’s facility at Subang Campus, including two helicopter hangars, Advanced Flight Simulation Centre for Aircraft Type Rating Training Programme for Boeing 737-800 aircraft, and workshops.

For the record, the collaboration will focus on several areas such as aerospace design and engineering, manufacturing, system integration and maintenance, repair and overhaul (MRO) for both light aircraft and drones.

These areas are in line with the directions of the Malaysia Aerospace Industry Development Framework under the 12th Malaysia Plan (RMK-12) and Malaysia Aerospace Industry Blueprint 2030.

Meantime, Dr. Mohd Hafizi noted that UniKL MIAT looks forward to this industry-university partnership programmes in Malaysia that will benefit the graduates and Malaysia aerospace industry in the future.

He further expressed the university’s commitment to supporting the partnership, aiming to create the Industrial Centre of Excellence in aerospace design and engineering, aero manufacturing, system integration, and MRO within the university.

TAI is the centre of technology in design, development, manufacturing, integration of aerospace systems, modernisation, and after-sales support in Turkey, producing aircraft and drones with its major production plants located in Ankara.

UniKL MIAT is the premier aviation technical university that offers quality and industry-recognised academics and training programs for graduates and professionals.

The university is also a Part 147 Approved Aviation Training Organisation under the Civil Aviation Authority of Malaysia (CAAM) and European Aviation Safety Agency (EASA).



# UniKL-Polytechnics Mauritius foster partnership

The spread of Covid-19 also paved the way for Universiti Kuala Lumpur Malaysian Institute of Industrial Technology (UniKL MITEC) which is based in Johor to offer an industrial logistics programme to students in Mauritius through the first of its kind offshore learning center and has so far received a total of 191 students.

This is under a sealed offshore partnership with Polytechnics Mauritius Ltd (PML) following the registration of 42 students for the Diploma in Industrial Logistics (DIL) programme that commenced on 5 September 2020.

Logistics management is one of the essentials of any successful business. Typical problems in this area include supply chain design (materials handling, facility location, plant layout, integrated production systems, warehousing, pricing, service support), supply chain

operations (inventory control, third-part logistics, transportation and freight operations, air cargo systems, routing, network optimisation, distribution channels) and tactical issues (item tracking).

UniKL MITEC offers programmes that prepare graduates with knowledge of the strategic and economic principles of the efficient flow of materials, information, capital and products through the whole distribution network.

The agreement signifies a strong establishment between the two institutions with UniKL offering Malaysian Qualification Agency (MQA) accredited DIL programme modules and to train and advise PML teaching staff on the process of monitoring and developing teaching and learning materials.

Lecturers from UniKL MITEC located in Bandar Seri Alam, Johor, will coordinate with PML on the three-year DIL programme. For UniKL, this collaboration marks a significant chapter since its establishment as a Higher Technical and Vocational Education and Training (HTVET) institution 20 years ago.

The Polytechnics approach to education and training, he said, is distinctive — high knowledge content that is yet applied and practical. Very few education systems, let alone, universities practice this specific slant to education and training.

Polytechnics Mauritius Ltd is a privately endowed institution established in 2016, operating under the aegis of the Ministry of Education, Human Resources, Tertiary Education and Scientific Research, Mauritius. It has 2,074 students, and 23 programmes. PML also has campuses at Reduit and Pamplémousses.

Discussions on other engineering-related programmes with Polytechnics Mauritius Ltd such as light rail, avionics and helicopter maintenance technology are forthcoming.



**UNIVERSITI KUALA LUMPUR | UNIVERSITI KUALA LUMPUR**

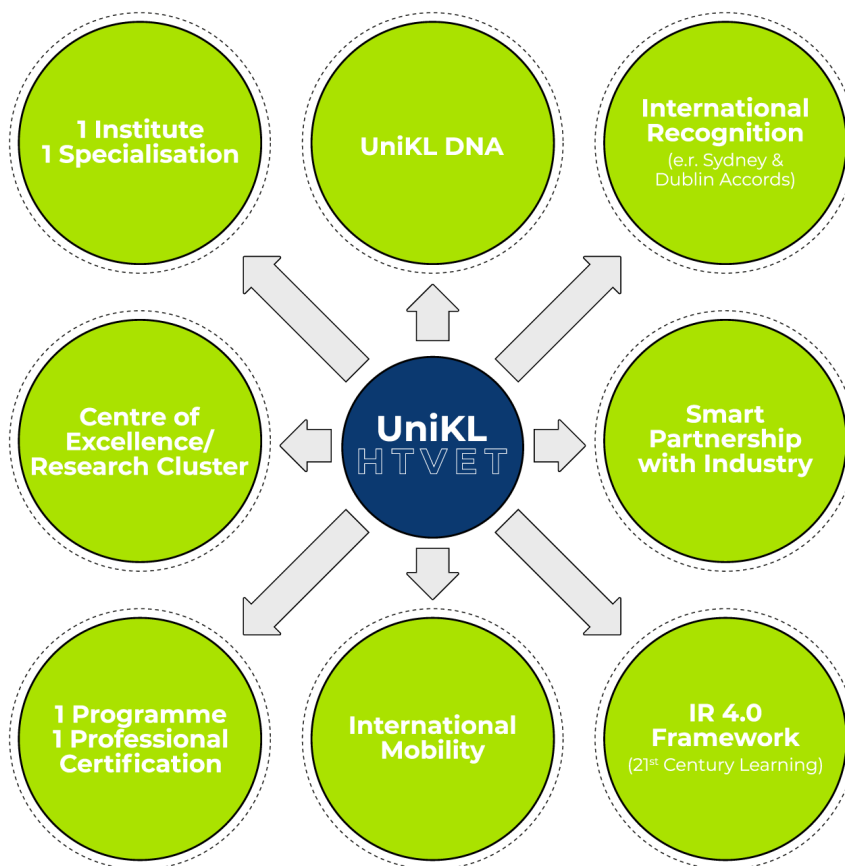
# 3.1 Teaching and Learning

UniKL is committed to producing human capital who are innovation-driven, entrepreneurial, ethical, and professionally skilled in science, technology and trades, contributing to Malaysia's aspiration to become a high-income nation.

To ensure quality and excellence in teaching and learning at UniKL, the university through the Centre for Instructional Technology and Curriculum Development (CITCD) developed the UniKL Value-Based HTVET Educational Model.

UniKL HTVET is an innovative education model which embodies the spirit of democratisation of knowledge and champions the continuous advancement of science, technology and trades.

It is designed to produce graduates who are needed globally and educated in a way to maintain a humane society. Driven by the conviction that a sustainable education system needs to be flexible and adapt to the needs of society, this model emphasises strong connections with relevant industries and organisations.



\*IR: Industrial Revolution

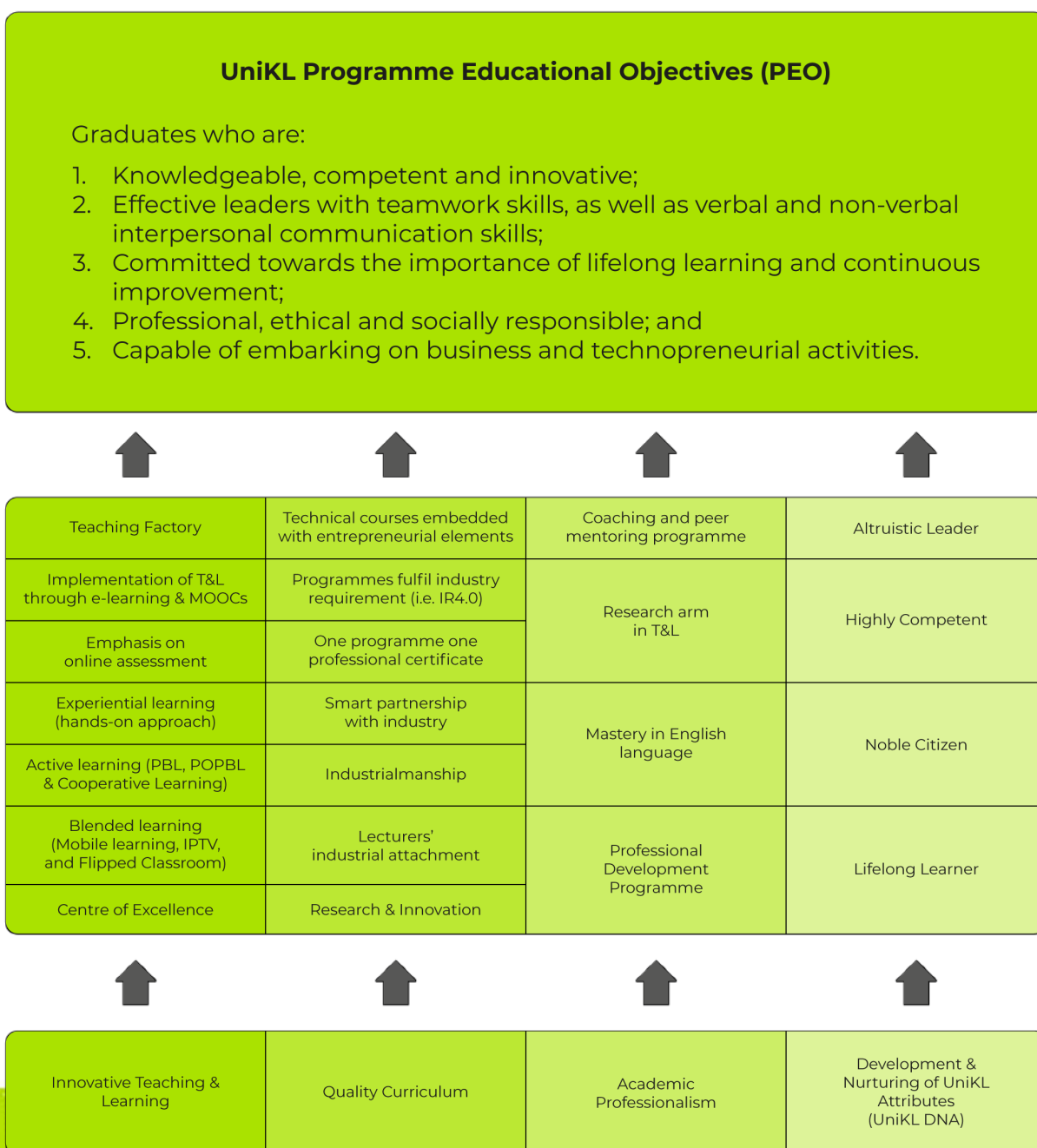


The UniKL Value-Based HTVET Educational Model emphasises four important components as follows:

- Innovative Teaching and Learning,
- Quality Curriculum,
- Academic Professionalism, and
- Student Talent Enhancement.

In this model, the four important components above are supported by UniKL’s shared values of Commitment, Integrity, Teamwork, Innovativeness and Excellence which guide the culture and practices of UniKL academic staff and students.

The UniKL Value-Based HTVET Educational Model also supports the 5 Programme Educational Objectives (PEOs) and UniKL Educational Goal which is in line with the University’s vision and mission.



## 3.1.1.

# Innovative teaching and learning

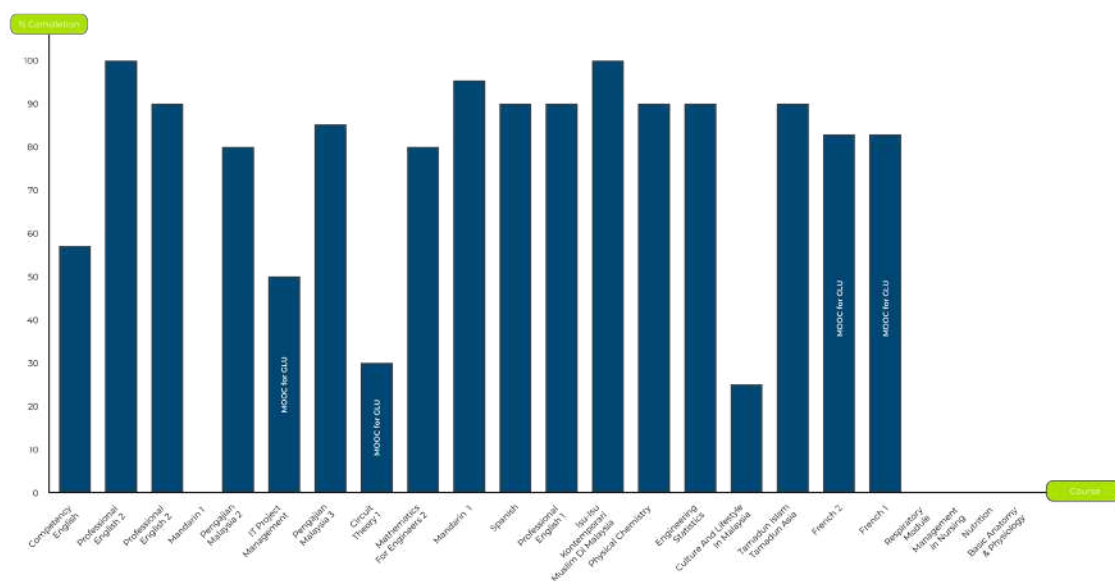
With UniKL's emphasis on innovative educational practice and research as well as having a strong link to the industry, this endeavour ensures that our academic programmes sufficiently equip our graduates with relevant professional and diverse transferrable skills in various specialisation areas.

Through our technopreneurs programmes, graduates are also introduced to career possibilities outside of their specialised areas. This would give them a competitive edge in the job market as they could create alternative career pathways if they have interest or talent in other areas.

To advocate that aspiration, UniKL implements many myriads undertaking which include:

- Implementation of teaching and learning through e-learning & Massive Open Online Courses (MOOCs);
- Emphasising online assessment; experiential learning (hands-on approach);
- Active learning (problem-based learning(PBL), project-oriented PBL (POPBL) and cooperative learning);
- Blended learning (Mobile learning, IPTV, and Flipped Classroom)
- Centre of Excellence

In 2021, a total of 23 MOOCs courses were developed. Four of the courses were developed as part of MOOCs for GLU namely IT Project Management, Circuit Theory 1, French 1 and French 2.



Development of UniKL Massive Open Online Courses (MOOCs) 2021

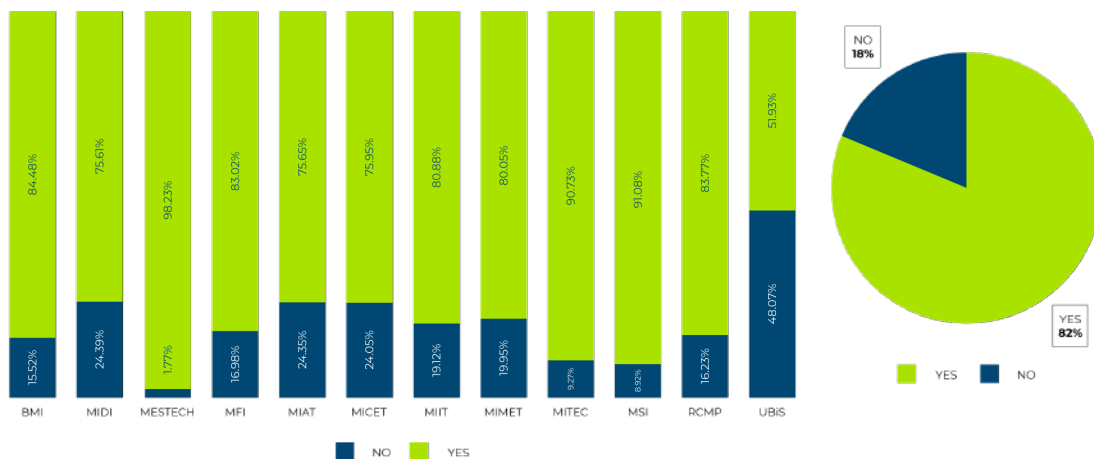
As a method of learning which engages students, UniKL combines effective modes of delivery, learning styles, and models teaching, which also uses both virtual and face-to-face learning experiences. This is where UniKL introduced Blended Learning.

Blended learning is a mixture of face-to-face class combined with e-learning. For example, students learn through mobile learning where they can access what they learn through computers, smartphones, etc. and learn using IPTV, in addition to what they learn in a face-to-face class.

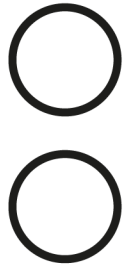
UniKL has a policy and guideline on Implementation of UniKL E-learning (UniKL/CITC/POL/20 & UniKL/CITC/GDL/06). In the e-learning policy, there are four requirements for the implementation of Blended Learning which are; all lecturers must have:

- At least 7 materials/files uploaded
- At least 3 activities posted (forum/chat/e-book/survey)
- At least 2 assessments (quiz or assignment) conducted online
- and at least one OBE related material uploaded (e.g Course learning plan)

Active & Blended Learning 2021



\* The summary of Blended Learning implementation by institutes. "Yes" refers to the completion of the 4 elements above and "No" refers to the incomplete implementation of Blended Learning.



## 3.1.2

# Development and Quality of Curriculum

The second component of UniKL Educational Model is Quality Curriculum. UniKL puts great importance on ensuring a quality curriculum is delivered to the students to ensure knowledgeable graduates with high employability demands are produced.

This is done by having:

### **i. Technical courses embedded with entrepreneurial elements**

UniKL technical subjects are embedded with entrepreneurial elements to produce students who are innovative and entrepreneurial, and in return contribute to Malaysia's aspiration to become a high-income nation.

### **ii. Programmes fulfil industry requirements**

UniKL ensures that its curriculum is current and relevant to the needs of the industry.

### **iii. One programme one professional certificate**

Each programme at least offers one professional certificate from professional bodies or industry. For example; professional certificates from the Malaysian Institute of Accountants (MIA), Association of Chartered Certified Accountants (ACCA), Board of Engineering Malaysia (BEM), Department of Civil Aviation (DCA), Malaysian Medical Council (MMC), Pharmacy Board, and Nursing Board of Malaysia (Lembaga Jururawat Malaysia).

### **iv. Smart partnership with industry**

UniKL ensures professional recognition through industry collaboration and recognition. This provides the path for exchange programmes and offshore opportunities that can further enhance students' value experience and the reputation of the university globally.

### **v. Lecturers' industrial attachment**

UniKL also ensures a quality curriculum by employing lecturers with industry backgrounds.

### **vi. Industrialmanship**

UniKL students also have the opportunity to be attached to the industry, exposing them to the real professional world, as soon as their third semester.

**vii. Research and innovation**

UniKL ensures that the University is current with the latest research and innovation of industrial relevance by recruiting the best research talents, collaborating with other partners, universities, research institutes, businesses and community, creating a Centre of Excellence, investing in professional development activities that will enhance the quality and quantity of research performance in UniKL and increasing the participation in Innovation Competitions.

In 2021, UniKL has considered five (5) applications for new academic programmes consisting of programmes at Bachelor’s, Master’s and Doctorate’s degree levels. An application for an academic programme is screened in the following manner:

Programme Name	Meeting	Date	Decision
Bachelor in Environment Management and Sustainability Technology (Hons) with a Master of Business Administration - UniKL MICET	NPDC 41(1/2021)	5 July 2021	Recommended to UAC
Doctor of Philosophy in Education - IHSS	NPDC 41(1/2021)	5 July 2021	Recommended to URPC
Bachelor of Electronic Engineering Technology (Microelectronics) with Honours	NPDC 42(2/2021)	6 October 2021	Recommended to UAC
Master of Science Process Safety Management	NPDC 43(2/2021)	8 December 2021	Recommended to URPC
Bachelor of Project Management (Hons)	NPDC 43(2/2021)	8 December 2021	Recommended to UAC

The offerings of these new academic programmes expected to meet manpower needs on time forward in related fields as well as supporting the desire for lifelong learning.

Courses also must be regularly monitored and reviewed by evaluating past teaching and learning activities as part of continual improvement.

The monitoring and reviewing mainly involve evaluating:

■ **Course content and delivery**

■ **Students' performance**





In the academic year of 2021, UniKL has reviewed 15 programmes involving Diploma, Bachelor and Master levels. The continual evaluation of course design and assessments involves all levels and sections of the teaching and learning process through periodic monitoring of teaching using evaluation tools such as management evaluation, Course Evaluation Survey (CES), Graduates Exit Survey (GES), PEO evaluation, and peer reviews.

Learning Outcomes Attainment Measurement System (LOAMS) can be used as an evaluation tool. Reports that can be extracted from LOAMS can be categorised into:

- a. Programme Coordinator (PC) Reports
- b. Course Leader (CL) Reports
- c. Lecturer Reports

Course monitoring and reviewing must be conducted annually or as required using feedback from internal and external stakeholders such as from industry, alumni, professional body and external examiners.

The feedback and actions taken as a result of this were then communicated to staff and students and made available to relevant stakeholders to encourage further participation and rapport.

Curriculum review in 2021: \_\_\_\_\_

**4** Diploma programmes    **8** Bachelor programmes    **2** Master programmes



### 3.1.3

## Academic Professionalism

Apart from being the third core component in UniKL's educational model, the term "professionalism" is used to describe adherence by academic staff to an acceptable standard in the method, manner and spirit in which they perform their duties.

This is to be read together with "Kod Etika dan Tatakelakuan" published by the Human Capital Department of the university and TDID Circulars on Short and Professional Courses.

This is done by providing staff and students with opportunities to develop their professionalism via:

#### **i. Coaching and peer mentoring programme**

This is done through Subject Matter Experts, team teaching, peer evaluation/review, class monitoring/supervision, intellectual discourse, and access to latest teaching journals.

#### **ii. Research arm in teaching and learning**

A special unit under the CITCD is designated to research and train academic staff with the latest innovative teaching and learning methodologies. Academic staff will also have access to teaching journals, journal publications in teaching and learning, opportunities to attend national/international conferences and collaboration in research at the national/international level. This is to ensure the academic staff is always current with the latest developments in teaching and learning.

#### **iii. Mastery in English language**

This is done by establishing a centre for language development.

#### **iv. Professional Development Programme (PDP)**

This is carried out through PDP merit systems, ISEM for staff, and introducing innovative teaching-enhanced technology such as e-learning, mobile learning, and virtual learning.



Hence, in 2021, there are 14 Academic Professional Development Programmes (APDPs) that have been conducted as they are responsible for upholding the interests of the university as well as the welfare of colleagues and students, thus defining the relationships between academic staff and the university’s community which include students, colleagues, the university and community at large.

**APDP Programmes in 2021**

<b>NO</b>	<b>TRAINING / WORKSHOP</b>	<b>DATE</b>
1	OBE Refresher Training - UniKL MIAT	4 Feb 2021
2	Pedagogy Training P1 & P2 : OBE & Assessment and Evaluation	9 - 11 Feb 2021
3	Examination Question Vetting System (EQVS ) Training	17 Feb 2021
4	E-Learning Training: VLE for lecturers: Guide to create your online course (Refresher course)	17 Feb 2021
5	Pedagogy Training P4 : Microteaching	23 - 24 Feb 2021
6	Pedagogy 3: Effective Teaching	7 – 8 April 2021
7	E-Learning Training: VLE For Lecturers: Guide to Create Your Online Course	6 April 2021
8	Training Self-Instructional Materials (SIMs) Used In Open & Distance Learning (ODL)	8 – 10 June 2021
9	Pedagogy Training P4: Microteaching	11 – 12 August 2021
10	Flipped Classroom & 21st Century Skills Training	9 August 2021
11	E-Learning Training: VLE For Lecturers: Guide to Create Your Online Course	16 August 2021
12	Pedagogy Training P1 & P2 : OBE & Assessment and Evaluation	29 – 30 Sept & 1 Oct 2021
13	Flipped Classroom & 21st Century Skills Training	27 Sept 2021
14	Pedagogy 3: Effective Teaching	29 – 30 Nov 2021



## 3.2

# Internationalisation and Global Linkages

In today's interconnected world, internationalisation is essential for universities seeking to provide their students with a truly global education. With globalisation impacting every aspect of our lives, it is imperative that universities prepare their students for a globalised world.

Universiti Kuala Lumpur (UniKL) is one such institution that has recognised the importance of global linkages and has made great strides in this area.

UniKL's commitment to internationalisation is reflected in its partnerships with leading universities and industries around the world.

These partnerships provide the university's students with unparalleled opportunities for international exposure and experiences. Additionally, they enhance the university's academic talent, enabling it to attract renowned global talents in teaching and research.

UniKL has established mutually beneficial programmes for teaching and research mobility, enabling its students and faculty to exchange knowledge and expertise with their counterparts at other universities.

This exchange of ideas is essential for creating a more interconnected world, and UniKL's efforts in this area are a testament to its commitment to preparing its students for the future.

Moreover, UniKL's internationalisation efforts extend beyond networking and collaborating with international universities to improve its international visibility and branding. The university has made it a priority to establish strong links with top local and international universities and industries. This enables UniKL to continuously leverage all the latest technology and resources provided by its partners for academic and research use.

Through its partnerships with recognised education institutes in developed countries, UniKL offers academic and technical programmes that provide its students with a first-rate working environment and a lively social life experience.

## ACADEMIC AND INTERNATIONALISATION

UniKL's commitment to producing competent graduates is reflected in the recognition its courses receive from leaders and professional bodies in relevant industries.

UniKL's internationalisation efforts have paid off in terms of rankings and recognition. The university made its debut in the Times Higher Education (THE) Emerging Economies University Ranking 2021, securing a spot among the top 500 universities.

UniKL's performance in THE Asia University Rankings 2021 was equally impressive, securing a spot among the top 551 universities in 30 territories.

Additionally, UniKL was included in the QS World University Rankings 2022, alongside 22 Malaysian universities, further establishing itself as one of Malaysia's top institutions.

Above all, UniKL's commitment to internationalisation and global linkages has enabled the university to provide its students with unparalleled opportunities for international exposure and experiences, as well as enhancing its academic talent and providing a world-class education.

With its impressive rankings and recognition by professional bodies in relevant industries, UniKL is a testament to the success of its internationalisation and global linkages efforts.



## 3.2.1 Global Linkages

International, Industrial and Institutional Partnership (IIIP) is one of the key sectors of Universiti Kuala Lumpur (UniKL). IIIP consists of five divisions, namely Teknoputra Division (Teknoputra), Centre for Industrial Linkages (CIL), UniKL International Office (UIO), Centre for Rural Economic Development (CRED) and Centre for Advancement & Continuing Education (ACE).

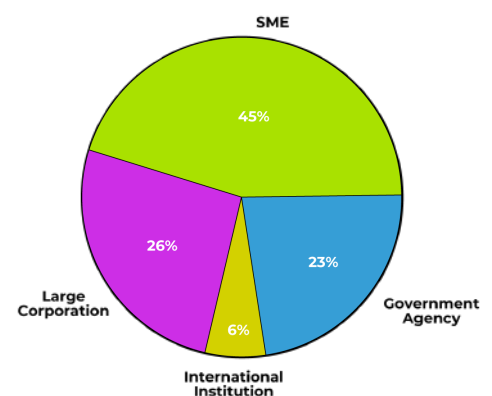
These sectors are responsible for the development of entrepreneurial and industrial competency among the students, faculty members and staff of UniKL through strategic partnerships and linkages with the relevant industry and institutions; as well as the enhancement of UniKL international visibility through partnerships and collaborations with institutions across the globe.

CIL is the gateway for the industry and university to seek new opportunity to complement each other and to develop talents suitable for current industry needs. Industrial collaboration between UniKL and the industries is to build a bridge between the university and the industries, an Industrial Academia Collaboration in which to strengthen the need of the industries and the talent produced by the university.

This Industrial Academia Collaboration is being built by UniKL through activities with the industries such as Industrialmanship, Internship, Industrial Final Year Project, Teaching Factories, Research & Development, Research Grant, Project & Consultation and Graduate Employability.

Teaching Factory is an Industrial Set-up created in campus or at the industries to fulfill Industrialmanship purpose. In year 2021, UniKL documented 65 collaborations with the industries compared with 26 collaborations in year 2020.

The collaboration consists from Letter of Intent to Memorandum of Agreement, in which it contributes RM4,815,147.00 in kind and in lieu. The collaboration with the industries covers from Large Corporation, International Institution, Small and Medium-Sized enterprises (SMEs) and Government Agencies.



ACTIVE COLLABORATION FROM 2018 UNTIL 2021

Campus	No. of Active Industrial Collaboration (2018-2021)								Campus	Contribution (RM)
	2018	Contribution (RM)	2019	Contribution (RM)	2020	Contribution (RM)	2021	Contribution (RM)		
MFI	5	16,000.00	3	240,000.00	1	240,000.00	4	30,000.00	MFI	286,000.00
MITEC	0	0	1	0	2	0	2	0	MITEC	0
MESTECH	4	0	2	127,550.00	1	0	1	32,000.00	MESTECH	159,550.00
UBIS	1	25,750.00	2	0	0	0	4	37,000.00	UBIS	62,750.00
BMI	1	0	3	85,000.00	0	0	1	0	BMI	85,000.00
MIIT	1	0	0	0	4	0	5	0	MIIT	0
MIAT	3	0	0	0	6	0	7	0	MIAT	0
MSI	0	0	0	0	0	0	11	2,994,000.00	MSI	2,994,000.00
MICET	0	0	0	0	6	0	11	18,000.0	MICET	18,000.0
MIMET	2	0	1	0	2	0	1	0	MIMET	0
MIDI	2	12,001,000.00	0	0	3	0	3	1,704,147.00	MIDI	13,705,147.00
RCMP	1	0	1	0	0	0	6	0	RCMP	0
CIL	1	0	0	0	1	0	9	0	CIL	0
<b>TOTAL</b>	<b>21</b>	<b>12,042,750.00</b>	<b>13</b>	<b>452,550.00</b>	<b>26</b>	<b>242,000.00</b>	<b>65</b>	<b>4,815,147.00</b>	<b>TOTAL</b>	<b>17,310,447.00</b>

## 3.2.2 Mobility Programme

UniKL offers the International Student Exchange Mobility (ISEM) to expose students to the best of international community, cultures, and practices beyond their boundaries. They can apply to participate in the programme for an enriching personal and professional experience.

ISEM aims to expose UniKL students to the best of international communities, cultures and practices beyond their boundaries. Through the programme, the selected applicants will be given an opportunity to be attached to any of UniKL's partner universities abroad for a period of less than a year.

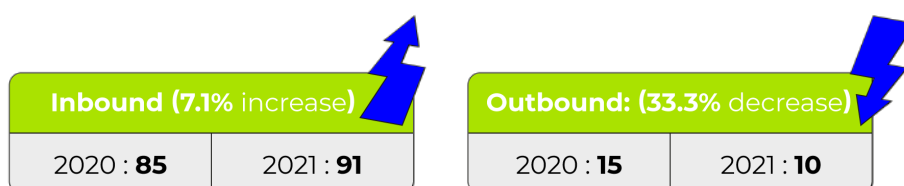
The UniKL International Student Exchange Mobility (ISEM) programme may be performed in the following modes:



Since its inception in 2009, the number of students involved in both outbound and inbound mobility programmes has increased substantially from 3 to 578 and 1,359, respectively, as of the year 2021.

This figure also increased from 213 (inbound) and 102 (outbound) students in 2020, despite the prolonged Covid-19 pandemic that saw few countries opting for strict lockdown re-implementation. In 2021 alone, UniKL has sent its 10 students, who flew to partner universities in South Korea, Portugal, Germany, Indonesia, Italy and Poland, to name a few.

In regards to the inbound mobility programme, UniKL received 91 students, including those from France, Pakistan, Germany and Indonesia, an increase from 85 students who attached to the university in 2020.



However, UniKL is not only receiving and sending students for cultural and knowledge transfer, but the university also offers customised short-term programme that provides meaningful and exciting educational as well as cultural experiences for students and staff.

No.	Virtual/ Online Programme Title	Campus	Partner University	Number of Participants (Inbound)
1	English for Fun	UniKL MESTECH	Princess of Naradhiwas University (PNU), Thailand	20
2	Online Joint Class	UniKL BMI & UniKL MIIT	Telkom University, Indonesia & Mapúa University, Philippines	132
3	UniKL MIIT Care & Share Outreach Programme	UniKL MIIT	Princess of Naradhiwas University (PNU), Thailand	55
4	UniKL MIIT Care & Share Outreach Programme	UniKL MIIT	Qingdao Hengxing University of Science and Technology, China	30
5	UniKL MITEC-KPRU Virtual Short Term (Language & Culture) Mobility 2021	UniKL MITEC	Kamphaeng Phet Rajabhat University, Thailand	49
6	Virtual Mobility 2021 Programme: Series 1	UniKL MIIT	Institute of Business Management, Pakistan	173
7	Interculture	UniKL MFI	Universidad del Quindío, Colombia	62
8	Virtual Mobility Programme 'Entrepreneurship: Theory and Practice'	UniKL MFI	Universitas Muhammadiyah Magelang, Indonesia	49
9	Virtual Railway Mobility Program	UniKL MIDI	Institut Transportasi dan Logistik (ITL) Trisakti, Indonesia	40
10	Virtual Workshop on Postgraduate: Research Methodology	UniKL MICET	Universitas Padjadjaran, Indonesia	15
11	Virtual Mobility Programme - Environmental Matters	UniKL MICET	Universitas Padjadjaran, Indonesia	41
12	Virtual Workshop on Postgraduate: Innovation Technology & Entrepreneurs	UniKL MICET	Universitas Padjadjaran, Indonesia	13
13	Virtual English Camp Programme (Batch 1)	UniKL MICET	Karawang Marine and Fisheries Polytechnic, Indonesia	143
14	Virtual English Camp Programme (Batch 2)	UniKL MICET	Karawang Marine and Fisheries Polytechnic, Indonesia	146
15	Virtual Short Term Programme (Logistic)	UniKL MITEC	Institut Transportasi dan Logistik (ITL) Trisakti, Indonesia	108
16	Virtual Short Course in Future Technology	UniKL MIIT	Telkom University, Indonesia & Mapúa University, Philippines	30
17	Joined Lecture Programme	UniKL BMI	Politeknik Negeri Ujung Pandang (PNUP), Indonesia	22
18	Business Model Canvas	UniKL MESTECH	Prince of Songkla University, Thailand; Princess of Naradhiwas University (PNU), Thailand; Mapúa University, Philippines & Universitas Mercu Buana Yogyakarta, Indonesia	43
19	Virtual International Mobility on Chemical Engineering	UniKL MICET	Universitas Muhammadiyah Palembang, Indonesia	26
<b>TOTAL PARTICIPANTS</b>				<b>1,197</b>

Currently, UniKL has 65 partner universities under the Memorandum of Agreement (MOA) Exchange.

Among the countries involved are Austria, Belgium, China, Denmark, France, Germany, India, Indonesia, Japan, Kazakhstan, Pakistan, Poland, Portugal, Slovenia, South Korea, Spain, Taiwan, Thailand, Turkey and also Vietnam.

Besides the MoA Exchange, the university has 25 Collaboration Notes (CN) that also include exchange mobility programmes.

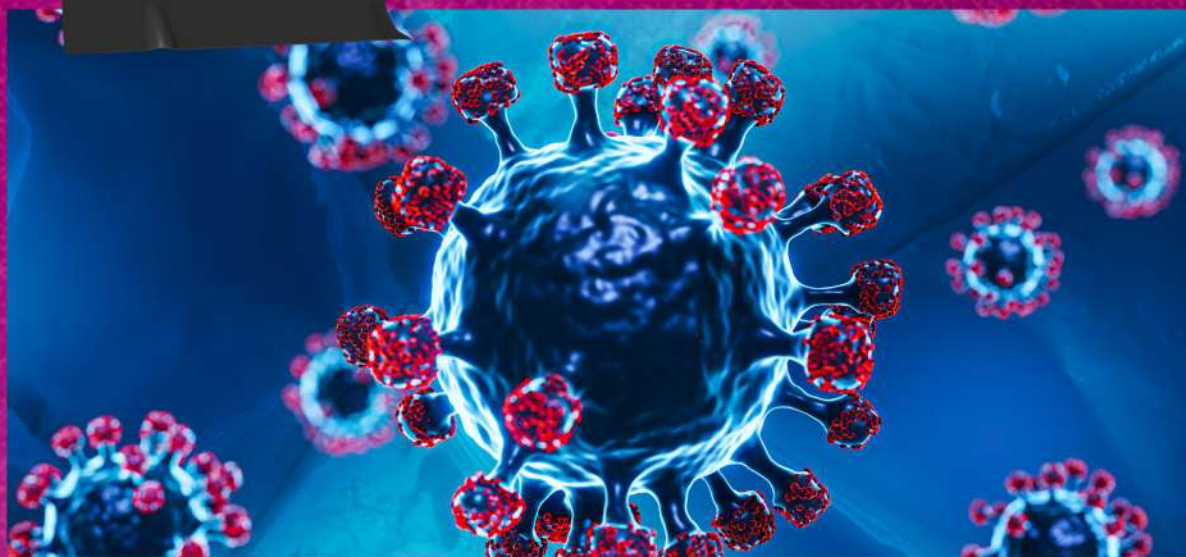




**RESEARCH**

**& INNOVATION**





# Role of antimicrobial peptides as potential therapeutic options for Covid-19

More than a couple of years has passed since the first case of severe acute respiratory distress coronavirus 2 (SARS-CoV-2) infection was reported in China's Wuhan province. The coronavirus disease 2019 (Covid-19) caused by SARS-CoV-2 has wreaked havoc all over the globe.

This pandemic has had serious implications on global public health, economy etc., and has several nations on their knees irrespective of their development status. During the last two years, there have been herculean efforts taken by the scientific fraternity for the prevention and management of COVID-19. Though there were several Covid-19 vaccines successfully developed and rolled out to the population, the virus continues to throw curveballs with the emergence of newer variants.

Quite a few drugs have been re-purposed to treat SARS-CoV-2 infection and tested

by clinical trials. The re-purposed drugs included anti-malarial drugs chloroquine and hydroxychloroquine, anti-parasitic drug ivermectin, anti-HIV drug lopinavir/ritonavir; remdesivir used as an antiviral drug against Ebola virus, and many others for possible treatment of SARS-CoV-2 infection. However, the clinical trial findings were not encouraging, and hence it remains the need of the hour for developing therapeutic molecules for effective management of COVID-19.

Antimicrobial peptides (AMPs) are a class of small peptides present widely in nature as part of innate immune responses of most living things to counteract microbial infections. The sources of AMPs can be mammalian, amphibian, insect and microorganisms. Various studies have documented the effects of AMPs against bacteria, fungi, parasites, and viruses. With the pipeline of newer antibiotics being sparse and the

emergence of antimicrobial resistance as a global health challenge, AMPs are investigated with renewed interest as therapeutic candidates for combating infections caused by microorganisms.

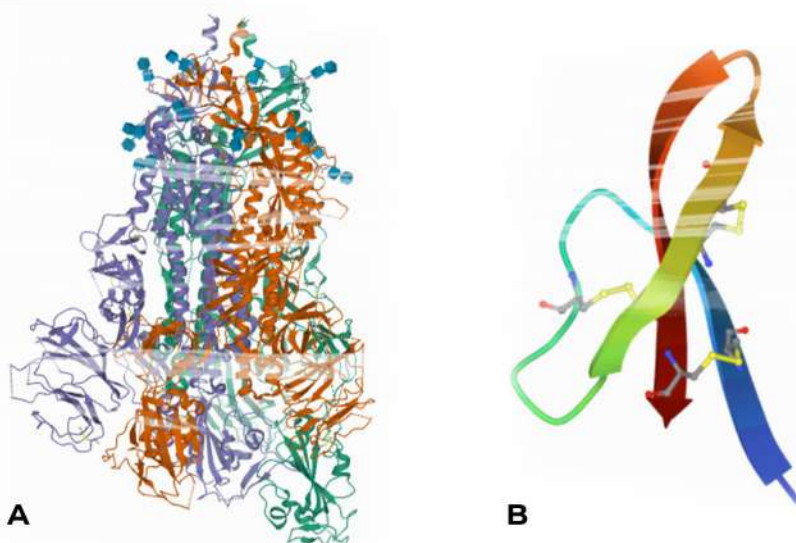
At UniKL RCMP, we are currently investigating the peptide-protein interactions between the AMPs and spike protein of SARS-CoV-2 respectively, based on computational analyses. This study is funded by FRGS and includes collaboration with scientists from the Sathyabama Institute of Science and Technology, India and the University of Cincinnati, USA.

This study is designed to screen the AMPs based on various stringent physicochemical properties and analyse the peptide-protein interactions using *in silico* approaches, to narrow down and identify the peptides that would effectively bind to the active site of SARS-CoV-2 spike protein.

The findings of the study could lead to possible therapeutic options that are to be further evaluated by *in vitro* and *in vivo* studies in future. Being a computational

approach, the screening of thousands of peptides is being performed and validated within a shorter duration and with minimised costs.

The findings of the study would throw light on the potential role of AMPs in the fight against SARS-CoV-2 and have profound applications for the drug-development pipeline.



# PhTX-343: A Promising Anti-Glaucoma Agent

The World Health Organization (WHO) has reported that the world is currently experiencing growth in both the size and the proportion of older persons in the population. As people age and with the increase in life expectancy, the risk of developing neurodegenerative conditions such as Alzheimer's and Parkinson's disease is also elevated. The sad truth about neurodegenerative diseases is that they cannot be cured; once you have it, there is no turning back. That is why all currently available treatment for the conditions focuses

on alleviating the symptoms. But if we cannot treat them, can we at least stop the progression? This is the question that needs to be researched and answered quickly.

Compared to Alzheimer's and Parkinson's disease, glaucoma is a much less talked about neurodegenerative condition which manifests in visual loss and blindness. The disease affects nearly 80 million people worldwide. All currently available glaucoma medications only lower the eye intraocular pressure (IOP),

**PhTX-343**  
 ❖ A synthetic analogue of PhTX-433 isolated from *Philanthus triangulum*  
 ❖ Molecular weight: 435.613 g/mol  
 ❖ Chemical formula:  $C_{23}H_{41}N_5O_3$

**Isolation of *Philanthus Triangulum* venom → PhTX-433**

**Chemical modification & synthesis of PhTX-343**

**A.** **B.** **C.**

but this therapy does not prevent retinal cell death which is the primary cause of impaired vision. They are not just expensive and provide only suboptimal IOP control, but are also associated with several adverse effects and do not protect against retinal cell death.

The problem faced by drug development researchers is that the mechanism of retinal cell death in glaucoma is unclear and involves multiple biochemical pathways. Many theories have been proposed, but all of them agree that the overstimulation of an N-methyl-D-aspartate or NMDA receptor is implicated in most theories. This receptor overstimulation results in a phenomenon called excitotoxicity which causes retinal cell death observed in glaucoma conditions. A compound called PhTX-343, isolated from the venom of solitary digger wasp, *Philanthus triangulum*, is a potential NMDA receptor blocker for the treatment of glaucoma. It is hypothesised that the compound can prevent retinal cell death by suppressing NMDA receptor overstimulation, preventing glaucoma progression, and subsequently preserving visual functions.

Experimentation on the glaucoma rat model has shown promising results that PhTX-343 protected the retinal cells from NMDA-induced injuries, assessed by histological and morphometric analysis, corroborated via visual behaviour assessments. The current focus of the study is to elucidate the precise molecular mechanism involved in the neuroprotection against NMDA-associated glaucoma via protein and gene expression analysis. This study is of paramount importance and in line with the national and global aspiration to eliminate avoidable blindness, and in the long run, contribute towards reducing the worldwide economic burden due to the increased prevalence of blindness in society.

This study was funded by the Ministry of Higher Education Malaysia under the Fundamental Research Grant Scheme (FRGS), and was recently awarded the UniKL Excellent Research Grant Scheme (UERGS). The research findings have been published in renowned WOS and Scopus indexed journals namely *Frontiers in Pharmacology*, *PLoS One* and *Diabetes & Metabolism Journal*, and presented at numerous local and international conferences.

The project has won multiple research innovation awards such as Gold medal at the International Invention, Innovation, and Design Competition (3iDC 2020), and Silver medals at the Malaysia Technology Expo (MTE 2021), International Conference & Exposition on Inventions by Institutions of Higher Learning (PECIPTA 2019) and the 30th International Invention, Innovation & Technology Exhibition (ITEX 2019). Led by Assoc. Prof. Ts. Dr. Izuddin Fahmy Abu from UniKL MESTECH and undertaken by two PhD students, Muhammad Fattah Fazel and Mohamad Haiqal Nizar Mohamad, the research team also include multi-national researchers from International Medical University Malaysia, Universiti Teknologi MARA, Volgograd State Medical University Russia, University of Nottingham United Kingdom, and University of Copenhagen Denmark.



# iSOBER: Intelligent Alcohol Detection

In 2019, Malaysia has become the third highest fatality rate from road accidents in Asia because of driving under the influence of alcohol. A person who consumed excessive amounts of alcoholic beverages, and is driving in a drunken state that causes death can be charged under penalty due to criminal action.

Horrendous accidents involving drunk driving have been reported recently and the numbers keep increasing every year. Although enormous international laws have been drafted to control the alcohol influence among drivers, there are lesser numbers of readily-available methods to measure alcohol consumption for public transport.

Alcohol is an addictive drug that can disrupt signal transformation in the brain and body. Alcohol has an adverse effect on problem-solving skills, decision-making, concentration, reaction times, and psychomotor. The utmost important factor to be highlighted is, alcohol may have adverse effects on 'fitness for work' and individual health and well-being.

Alcohol can affect human performance in safety-related activities, such as driving an automobile or flying an aircraft, and handling machinery for short-term effects could harm on single occasion.

An alcohol tester called a breathalyser can provide measurement data in a relatively shorter time compared to medical tests including blood tests or urine tests. However, a device to measure and monitor the percentage of alcohol content is still insufficient.

Alcohol consumption may not only affect a single person, but also affects the whole community including co-workers, customers, shoppers, family, friends, and community members. If the drivers drink alcoholic drinks before performing the duty, the probability of having an accident is higher and risk of death is increased as well.

The relationship between alcohol consumption and occupational accidents has been studied extensively. Most of the experimental research on alcohol's effects on safety performance was conducted in air and ground transportation. A high number of accidents related to alcohol consumption either on the road or air accidents have been reported.

Based on Federal Aviation Administration (FAA) reports published in October 2008, a number of 2,391 pilots involved in fatal accidents received by the Civil Aerospace Medical Institute (CAMI) were under toxicological investigation. Out of 215 of these pilots indicated 9% had

a documented alcohol or drug-related and 23 pilots (11%) were involved in a fatal aviation accident that had consumed ethyl alcohol.

Blood alcohol content (BAC) is an estimation of alcohol intoxication utilised for legal or clinical purposes. A BAC of 0.10 (0.10% or one-tenth of one percent) implies that there are 0.10 g of alcohol for every 100 ml of blood. If an individual has a BAC of 0.02%, that person will behave like a normal person.

If the BAC percentage is increased to 0.05%, a person starts to lose coordination, having a slower time for responses and causing a debilitated visual perception and considered unsafe to drive. For road users, the maximum BAC level to drive any automobile varies according to the country. In Malaysia, the allowable BAC level to drive is 0.08%, which is quite high; therefore, the tendency to be involved in an accident caused by alcohol is very high.

The Malaysian Institute of Road Safety (MIROS) stated the probability of a drunk driver to cause an accident is 13 times higher compared to a sober driver. From the aviation industry, the pilots are prohibited from flying or even attempting to fly an aircraft within 8 hours of alcohol intake; or if they required an alcohol concentration of 0.04 percent or higher.

Alcohol intoxication or alcohol poisoning is a condition where a person consumes a high intake of alcoholic beverages in a short time duration. The intoxication of alcohol is serious and could cause sudden collapse or death. Alcohol intoxication symptoms are loss of body coordination, blurry vision, and decreased person's reaction time that can lead to an accident.

The alcohol intoxication involves the breathing, pulse rate, and gag reflex and affects the human body system. Consumption of alcohol also has implications for the health and well-being of the drinkers; by implication, the implications also include the lives of the people surrounding them.

Over the years, research has been done and the impact of alcohol on the body

system has been identified that can lead to several health problems such as psychomotor deficit, cardiovascular problem and blurred vision. This proved that consuming alcohol can cause many negative impacts not only for our health but also the society.

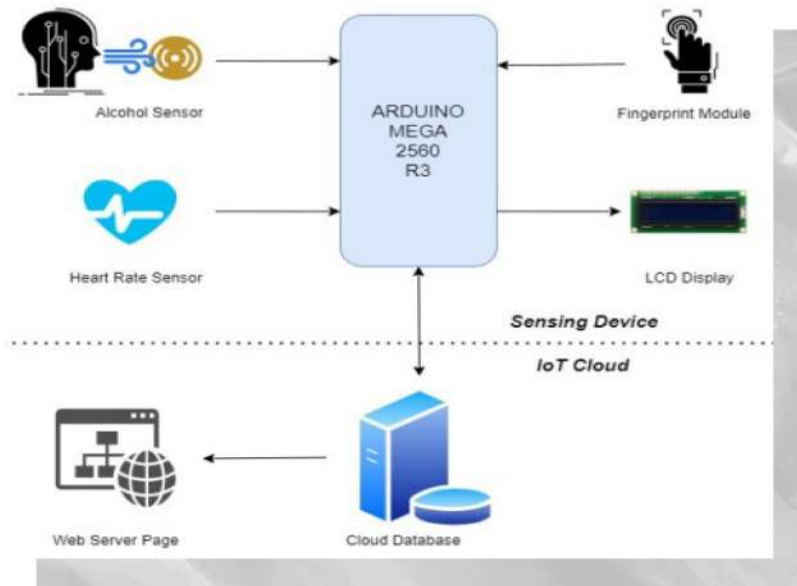
The objective of this study is to develop an early alcohol detection system and it is used to minimise the effect of alcohol influence and to identify the fitness of the person before performing their work. The system will measure the alcohol level in the blood through human breathing using an alcohol sensor and it will alert the safety manager if the person is unfit to perform work.

In this research, we have developed a device to measure the Blood Alcohol Concentration level (BAC). The recorded data will be transferred to the cloud system called MySQL database. It uses the PHP programming language to interact with the MySQL. The system used a local network to send the data computed by the Arduino mega and then forward to the MySQL and stored it to the database.

The software implementation for the system is using Arduino Integrated Development Environment (IDE) which is written in functions from C and C++ language. It is used to write and upload all the programs to the Arduino mega board. In addition, the alcohol sensor is an analogue sensor, the AOUT terminal of alcohol sensor generates an analogue voltage that is directly proportional with the amount of alcohol intake.

If the alcohol intake is higher, the analogue voltage will show higher output. If a certain threshold is met by the analogue voltage, the DOUT digital pin is high. Once this DOUT pin is high, the Arduino mega detected the signal that the alcohol threshold reached maximum value. All the compute data will be shown on the LCD display and sent to the database and can be accessed on the website.

This research provides a much-advanced concept that can be implemented in the construction site, factory, office, and also



public transport and to minimise alcohol-related accidents and improve the safety of workplaces. Overall, the outcome from this research will have significant impact on creating a safe and healthy community

This study was funded by the Industrial Grant from TRAMS Sdn Bhd. The research findings have been published in SCOPUS indexed journal and presented at international conferences. The project has won multiple research innovation awards such as Best of the Best and Gold Medal award at Apprentice Innovation & Research Exhibition (AIREX21), Gold medal award at International Invention and Innovative Competition (InIIC21), Silver medal at the Malaysia Technology Expo (MTE 2021), MTUN International Special Award (MTE21) and Gold medal at International Invention, Innovation & Technology Exhibition (ITEX21).



Led by Ts. Dr. Mohd Amzar Azizan from UniKL MIAT and undertaken by two Bachelor Degree Students, Amirul Rohismadi and Nurizzati Norizan. The research team also includes multi-national researchers from RMIT University, Melbourne and Universitat Politècnica de Catalunya, Spain. This research also was supported by TRAMS Sdn Bhd.

# 4.1

## Research and Innovation Governance

As UniKL focuses on achieving its research goals, much of UniKL's research is undertaken in collaboration with various industries and professionals, which ensures its relevance of application in the real world.

The research activities entangle all schools and departments and break traditional boundaries while maintaining an excellent reputation for being responsive to the needs of the business and the community.

The Centre for Research & Innovation was formed in 2005 and was formally known then as the Centre for Research and Postgraduate Studies (CRPS) and the Institute of Research and Postgraduate Studies (IRPS). Its function is mainly to coordinate research activities in UniKL, largely through the implementation of the Short Term Research Grant (STRG).

The university research is focused on seven research themes that align with the strength of the university to meet the multidisciplinary nature of research that aims to solve global issues within a local context.

Each theme is led by a research principal – a senior academic who works to consolidate our existing strengths, while seeking opportunities for collaboration across specialisms.

### 1. Digital Technology



Digital technologies have become increasingly integrated into our everyday lives with the coming of the 4th industrial revolution that brings a set of challenges to be discovered and solved. Our research addresses all different forms and aspects of technology from advanced communication, the Internet of Things and many others.

### 2. Sustainable Engineering Technology



Sustainable Engineering Technology looks into every aspect of sustainability. The diverse but interrelated research groups cover process design, innovative manufacturing, life cycle sustainability assessment and optimisation, clean and clean-up technologies and sustainable use of resources such as water, energy and biomass.



**3. Consumer, Health and Wellness**



Our research group and activities are multidisciplinary. This approach is built on our strength in technology, life sciences, chemistry and social sciences to work together to discover, refine and apply new interventions to improve health and wellbeing.

**5. Logistic, Transportation, Aerospace & Avionic**



The research undertaken by the university covers all modes and technology related to the industry. We strive to provide technological solutions, policy and management issues which contribute to the nation.

**7. Society and Policy**



Rural Economic Development

**4. Advance Material, Manufacturing & Robotic**



In advance Material, our research group works to explore the processing of materials and their properties used across a range of applications. Whereas, in Manufacturing and Robotic, we work on developing new manufacturing techniques including working on additive manufacturing, fabrication of functional surfaces, machine automation and robotics.

**6. Business, Management & HTVET**



Islamic Finance & Entrepreneurship

# 4.2

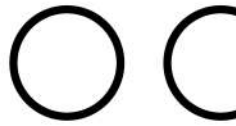
## Research Grants

UniKL works to maximise its performance in research, entrepreneurship and knowledge transfer and our activities reflect the university’s commitment to engagement with the needs of society and the economy. UniKL makes its contribution by delivering high-quality, professional support with specific funds.

Research Grant Source	Total Allocation (RM)		Increase/Decrease
	2020	2021	
Internal	3,989,709.43	4,307,144.43	7.96%
National	5,236,195.00	6,281,555.00	19.96%
Private	180,590.00	63,200.00	-65.00%
International	1,367,040.73	11,061,906.69	709.19%
<b>Total (RM)</b>	<b>10,773,535.16</b>	<b>21,713,806.12</b>	<b>101.55%</b>

The total grant approval in 2021 evidently illustrated strong expansion of RM21.71 million, an increase of more than 100% compared to the previous year’s RM10.77 million. This mostly was driven by the reactivation and resumption of research activities in the aforementioned year, after the Covid-19 pandemic containment measures in 2020.





# 4.3

## Research Achievement

### 4.3.1 Publication

The UniKL Publishing is a platform to encourage writings and publications among academicians and staff, hence creating opportunity for the university community to share and capture their thoughts, ideas, knowledge, skills in Journal, Conference etc. via printed and online medium.

Usually, the research is published through Elsevier's abstract and citation database, SCOPUS and ISI Web of Science database. This is followed by other types of publication, as shown in the table below:

PUBLICATION	2020	2021
SCOPUS & ISI Web of Science	616	382
Research Books & Chapters	52	127
Policy Paper	6	1
Others	200	277
<b>Total</b>	<b>874</b>	<b>787</b>

## 4.3.2 Awards

Apart from publications, achievements in the form of awards were also received by UniKL researchers. Malaysia Technology Expo (MTE) is one of the most prominent forums where UniKL's researchers win awards for their groundwork.

MTE is the largest event in the region featuring an expo on innovations, and an awards programme honouring innovators in technology that brings transformation to industries, public service and contribute to sustainability.

In addition to MTE, UniKL's lecturers brought their innovations and products to recognition in a few series of ITEX. ITEX is where the commercialisation of inventions or new products happens. Through ITEX, inventors can seek out potential investors and pave a way for the latter to explore new business ventures.

Despite the pandemic, the researches contributed seven awards at MTE 2021, increasing from five in the previous year. They kept the momentum going for ITEX 2021 by bagging seven awards.

In addition to their outstanding achievements in their fields, these awards also recognise the contribution that they have made to their areas of expertise.



\*Number of medals achieved at ITEX and MTE awards





**STUDENT**

**DEVELOPMENT**



**MUHAMMAD FAEZ RASHDAN | I**

# A Leader In Times Of Crisis

Dealing with the challenges presented by Covid-19 is daunting, but this is how Muhammad Faez Rashdan Mohd Rifae found ways to strategise during the disrupted times.

The unprecedented Covid-19 pandemic has disrupted the 'normal' lives of human beings, be it in the educational or mental health aspect, to say nothing of the economy of nations.

When the coronavirus outbreak in Malaysia first took place in 2020, which resulted in Movement Control Order (MCO), Universiti Kuala Lumpur (UniKL) swiftly reacted into forward-looking actions to counter the challenges arising from the pandemic.

Here comes the main role of a student leader in times of crisis — Muhammad Faez Rashdan, 23, who left no stone unturned in making sure the welfare of UniKL students were taken care of.

“Before becoming the President of UniKL Student Representative Council (USRC), I was the exco-member of Welfare and Accommodation, and when the pandemic Covid-19 first hit Malaysia, this unit basically directly involved to manage issues and challenges related to the crisis among students.

“From here on in, we can see the students really struggled in the matter of their mental health and education. Not to mention their finances were affected as the parents were laid off due to the pandemic. It is not an easy task to ensure their welfare,” told him.

He said the vicious cycle of Covid-19 brought many UniKL students stuck with financial distress to the extent that they strapped for cash to pay the study fees and some cannot afford a meal.

These inexorable strains, Muhammad Faez Rashdan further explained, have triggered the emotional and mental health of students in jeopardy, leading to depression. “The worsening Covid-19 outbreak sparked many difficulties, and the Student Representative Committee (SRC) at 12 campuses tried to find solutions in order to help hard-hit students.

“So, the first thing we did was to have an engagement session with the university’s top management to find a solution to help them. Among the initiatives that have been successfully implemented in collaboration with the university was the repatriation of students on campus through the UniKL Ride programme.

“For the students from Sabah and Sarawak, airlines such as AirAsia and Malaysia Airlines gave them discounted plane tickets, as a result of discussions between the Majlis Perundingan Pelajar Kebangsaan and those companies. This fruitful effort was due to the cooperation provided by the Ministry of Higher Education (MoHE) which created a platform for us to engage in discussions with airline industry players,” told him.

For those unable to return to their hometowns during the implementation of state travel restrictions, Muhammad Faez Rashdan said UniKL provided basic food aid to the students who rented out of campus as well as RM200 cash assistance to every student. The SRC at all 12 campuses ran on fumes to be of service despite having a skeleton crew.

He shared, there were even students who were admitted to the wards; following this, the SRC at the drop of a hat, traced the infected students and helped them to apply for the insurance claim. “We utilise the Tabung Kebajikan Siswa (TKS) to the maximum,” he quipped.

Setting foot in 2021, the committee yet faced the same challenges, but this time around they made every effort to settle things that had yet to be done. He noticed the students were in dire need of emotional support after two years of being trapped in the stagnant environment of Covid-19.

“That is why we also initiated a session of expressing feelings assuring their welfare would not be granted,” remarked him.

He has made a string of outspoken and sometimes vocal speeches in recent years at national and international levels. Not merely this, Muhammad Faez Rashdan also brought Malaysian youth voices to the ASEAN Young Leadership The Future: Opportunity and Challenges webinar.

Muhammad Faez Rashdan, who was selected to represent Malaysian future leaders at the webinar, said that young people are undeniably impetuous and sensitive, but once they set their sights on anything, they stand firm on their decision.

His sense of leadership has been nurtured since childhood and continued at the secondary school, Maahad Tahfiz Sains Darul Aman, where he served as president of the student representative council.

A good flashback to his pre-teens, the hardship and poverty of others inspired him to be a ‘headman’ who wants to shake things up. He hails all the way from Baling, Kedah, a rural area that is well-known to many.

“I was nurtured with a great passion for leadership and I am not a passive person. Baling is a far north area in Malaysia, so there was not much exposure to different kinds of walks of life, but the hardship of locals is felt in many ways.

“I saw the struggles of others to meet their daily ends. Throughout that experience, I was inspired to become a leader and it drew me towards medicine studies with the initial intention of giving back to the society,” he uttered.

Instead of spending most of the time playing with friends, he would rather hit the books, and this is proven by his excellent results, sweeping all As in national main examinations. Becoming a doctor has always been his dream since childhood.

Muhammad Faez Rashdan took his first step towards becoming a doctor by enrolling in Science and Medicine Foundation at Universiti Sultan Zainal Abidin (UniSZA), Terengganu before pursuing higher learning in Bachelor of Medicine and Bachelor of Surgery (MBBS) at UniKL Royal College of Medicine Perak (UniKL RCMP).



At UniKL, he continues to serve the student community, by serving as the student leader for two terms as of today. Despite all the challenges, Muhammad Faez Rashdan is clearly keen on doing more than just attuning to the needs of students, but instead taking advantage of every opportunity laid bare.

“Being chosen by the students to represent their voice is not an excuse for me to put it as a benefit of myself, but it drives me to serve them even better. At this hardship moment, I know that it slowly erodes the soft skills of students, as we had to adhere to the online classes and no physical meetings to name a few.

“That is why, at the SRC level, we strive to boost those skills by organising more activities to instil leadership, communication, management and hard skills into each student. Some might view this as a trivial effort, but this can amplify to even bigger success,” he told.



# From Plain-Jane To Self-Made Woman

“There are two powers in the world; one is the sword and the other is the pen. There is a third power stronger than both, that of women,” a quote by Malala Yousafzai, a Pakistani activist for female education and a Nobel Peace Prize laureate.

To match the same essence, a woman exceptionally has to spare no effort to realise her dreams. Having said that, this is what is being emulated by Norsiah Ahiddin to bring her vision to reality, who is eventually dubbed as Norcy after being well-known through her own empire of skincare business.

A plain-Jane hailing from the far north of Matunggong, Sabah, Norcy has turned herself into a self-made woman owing to Norcy Beauty Lab. Graduated with a prestigious bachelor’s degree qualification at Universiti Kuala Lumpur (UniKL), she has been long prepared to start and run a chemical lab business.

“Before I initiated this business, I had worked at numerous private labs for three years to



2017 and setting foot into 2018, I won business grants from Sedia Teraju worth RM100,000 which allowed me to establish my own cosmetic plant in 2019.

“However, at the moment, we are still waiting for Good Manufacturing Practice (GMP) accreditation by Ministry of Health (MoH) which has been delayed since 2020 due to the unprecedented Covid-19 pandemic. I expect this will take time until early next year.

“Throughout the first two years of Norcy Beauty Lab establishment, we operated as research and development (R&D) lab whereby, we help to formulate ingredients in skin care products for the client or founder and subsequently these will be produced in small scale manufacturing for the market test,” said her.

Small yet powerful, her business has helped more than 300 founders realise their dreams and they are not limited to those in Malaysia, but in Brunei and Kalimantan, Indonesia. Something that is difficult to do or deal with, but she knows that it is a tough row to hoe.

Humbly sharing it with the CBSCD, she admits that by having her own empire

in the industry, there is no dependency required on other cosmetic companies or chemical plants. “Currently, we are in the audit process and as of today, Norcy Beauty Lab has produced more than 27 range of skincare products certified by the MoH,” she added.

Ever since childhood, she flung herself into the cosmetic and beauty field, which became the driving force for her to pursue a related academic programme, Bachelor of Clinical Laboratory Science (Hons.) at UniKL Institute of Medical Science Technology (UniKL MESTECH).

“The programme allows me to expand my career opportunities not limited to beauty products but by setting up a chemical lab to commence the R&D effort. The learnings are applicable as we were taught in real labs, as used by the industry.

“Regardless of areas of the clinical field that I embark on such as the beauty lab or nutrition lab, the basics are all the same. We just have to be smart at adapting that knowledge and learn the rope,” told her.

It is no surprise for a start-up business to get to grip with a few hiccups, and for Norcy, the biggest challenge in building her own business from the ground up was to have sufficient capital. Funnily enough, she however expressed that it is incomparable to finding a perfect team players.

“To have a great team and recruiting perfect workers is another heavy set of burdens for any start-ups. It is then followed by how a leader can cultivate and develop the good skills to head up the team and business.

“As the business expands, the bigger the team will become. This is the hardest challenge,” she explained while adding that Norcy Beauty Lab to date,



has seven permanent employees and 100 agents throughout Malaysia.

Despite being a newly-established business, Norcy Beauty Lab recorded monthly revenue of RM75,000 to RM85,000.

As the proverb goes - “hard works betray none”, Norcy’s success even earned recognition from the government state of Sabah through a few awards. She was conferred with the first entrepreneurial award in 2019 and in the same year, she was listed among the top 100 ‘Most Outstanding Entrepreneur Sabah’.

She beat out several other products from the ‘land below the wind’ like textiles and handicraft. Recently in the year 2021, she bagged Anugerah Usahawan Belia Negeri Sabah in recognition of her outstanding achievements in entrepreneurship.

Notably, the award is open for all entrepreneurs in Sabah and is held every two years.

“Interestingly enough, I submitted the award application at the last minute. I was not confident in the first place as there were many other outstanding entrepreneurs who applied. However, I believe that this might be worth trying, and thereupon I tried my luck and was shortlisted.

“The winner is chosen based on a few criteria including business resilience against the Covid-19 pandemic and commitment to corporate social responsibility (CSR) during the crisis. Norcy Beauty Lab, in short, was not only generating income during that unprecedented time, but we provided

job opportunities to vulnerable and unemployed individuals.

“In addition to the effort, we extended our helping hands to the frontline staff by donating the personal protective equipment (PPE). I think, these might be the dominant factors Norcy Beauty Lab was honoured with the award,” she shared.

Norcy said her business was born with a different set of ideas and nature, to become distinguishable from other existing cosmetic and beauty industry players.

In hopes of overcoming scepticism among Malaysian consumers of local skincare products, she strives to ensure that the products assembled have undergone rigorous and effective research, among others in collaboration with the universities and researchers.

It is quite surprising to note that the researchers have found great discoveries that can lead to potential commercialisation, according to Norcy.

“At the same time, Norcy Beauty Lab can offer facility and plants to help formulate and produce the products based on the discovery of the potential ingredients, this is followed by a few more R&D processes.

“Our cosmetic manufactory operates on autopilot-basis, and currently, we are in the process of developing another plant which focuses on food R&D and manufacturing. With this new plant, we can extend our reach to the food and health drinks markets, in foreseeable future,” told her.





# STUDENT DEVELOPMENT



UniKL places its students as its most valuable asset; hence it provides various interactive courses to ensure our students' development. The impressive arrays of learning facilities available in UniKL are a testament to UniKL's commitment to excellence.

These learning facilities are equipped with the latest technologies to create an environment that replicates the real working world. These courses and facilities are to ensure that students are equipped with the relevant skills and be market-ready to face the challenging work environment in the future.

The university focuses on creating a conducive environment and the welfare of the students via services and facility management with good governance and standardized policies and procedures. Campus Lifestyle is also responsible for UniKL Sport development and participation in national-level tournaments and competitions.



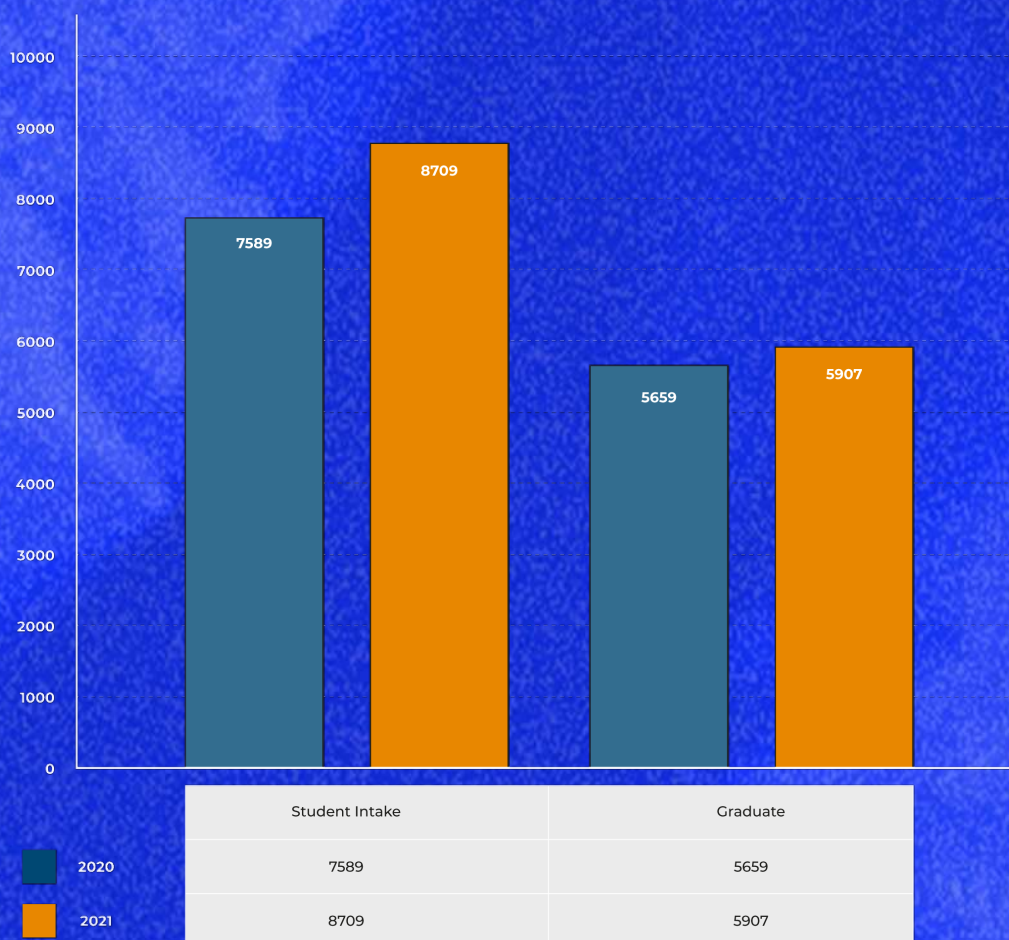
# 5.1

## Graduates and student intake

The total enrolment of students in various fields of study for 2021 reached 8,709 students people, an increase of 1,120 from 7,589 students in the previous year.

The same pattern could be seen with the number of graduates in 2021, a slight increase of 248 graduates, from 5,659 to 5,907 graduates.

**Comparison of student intake and graduate data in 2020 and 2021**



Student enrolment in 2021 by level of study and age range

Level of Study	18 - 20		Total	21 - 24		Total	25 & Above		Total	Grand Total
	L	P		L	P		L	P		
Bachelor	1,203	1,376	2,579	7,250	5,457	12,707	1,986	852	2,838	18,124
Diploma	3,166	2,485	5,651	1,185	634	1,819	75	32	107	7,577
Foundation	761	693	1,454	72	22	94	191	19	210	1,758
Master				25	37	62	349	262	611	673
PhD							378	200	578	578
<b>Grand Total</b>	<b>5,130</b>	<b>4,554</b>	<b>9,684</b>	<b>8,532</b>	<b>6,150</b>	<b>14,682</b>	<b>2,979</b>	<b>1,365</b>	<b>4,344</b>	<b>28,710</b>

Student enrolment in 2021 by level of study and race

Level of Study	MALAY			CHINESE			INDIAN			OTHERS			Total	Grand Total
	L	P	Total	L	P	Total	L	P	Total	L	P	Total		
Bachelor	9,846	7,402	17,248	51	14	65	175	89	264	367	180	547	18,124	
Diploma	4,183	3,018	7,201	16	13	29	83	37	120	144	83	227	7,577	
Foundation	949	679	1,628	12	11	23	18	21	39	45	23	68	1,758	
Master	258	255	513	12	2	14	15	14	29	89	28	117	673	
PhD	149	92	241	18	21	39	16	4	20	195	83	278	578	
<b>Grand Total</b>	<b>15,385</b>	<b>11,446</b>	<b>26,831</b>	<b>109</b>	<b>61</b>	<b>170</b>	<b>307</b>	<b>165</b>	<b>472</b>	<b>840</b>	<b>397</b>	<b>1,237</b>	<b>28,710</b>	

\* Student enrolment describes the number of students who currently attend this university.



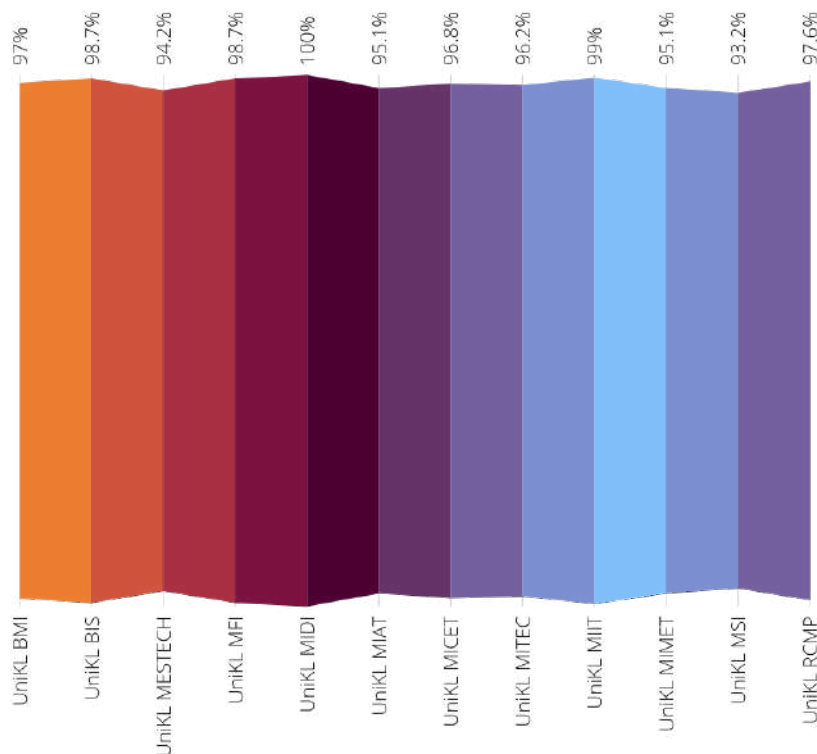


# 5.2 Alumni Employability

In terms of graduates' employability, Universiti Kuala Lumpur (UniKL) has produced the largest number of employable graduates compared to other private higher learning institutions (IPTS) in 2021, according to a report by the Ministry of Higher Education (MoHE).

The 'Kajian Pengesanan Graduan 2021', the graduates' employability rate of UniKL stands at 97.1%, better than 2020 with 96.1%. All 12 campuses of Universiti Kuala Lumpur (UniKL) again ranked top-20 in the report for the category of private institutions of higher learning (IPTS).

The graduates' employability rate of UniKL Malaysia Italy Design Institute (UniKL MIDI) surges to 100%, sharing the same spot with UCSI University. It is followed by UniKL Malaysia France Institute (99.1%), UniKL Malaysian Institute of Information Technology (99.0%), and UniKL Business School (98.7%). The remaining campuses, meanwhile, filled up the 7th to 18th spots.



This is also higher than the national rate of graduates' employability 85.5%. This growth is in line with the momentum of economic recovery and the labour market as more economic and social activities opened up in stages compared to the previous year.



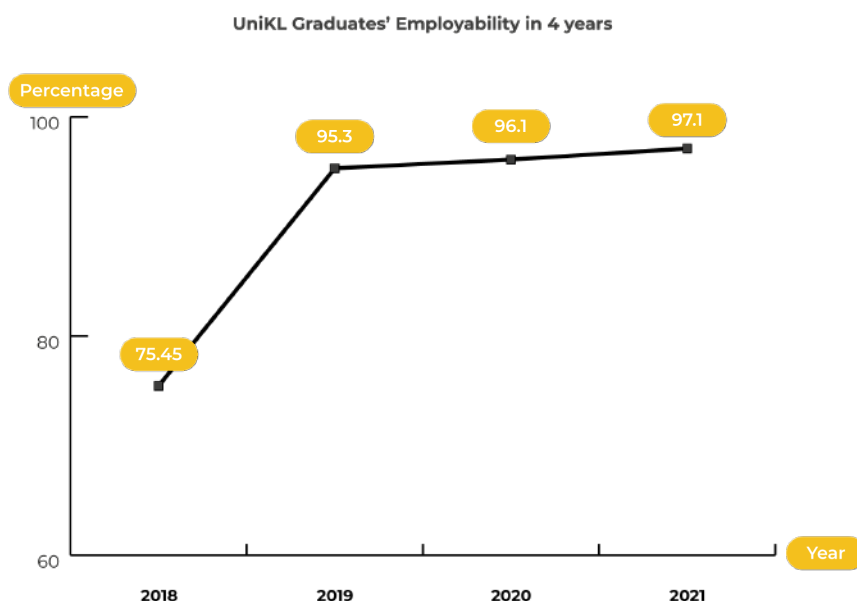
In Class 2021, 64.6% of 5,197 graduates are in employment, and 7.7% are self-employed or starting their own companies.

While employment growth overall has been strong in many fields, some specific areas of work are clear standouts for the rate of growth UniKL experienced in 2021. The technical field posts the highest number of working alumni with 1,784 graduates of Class 2021.

This is followed by Social Science, Science as well as Information Technology (IT) and Communication. This is based on the National Education Code, illustrated as below:

FIELD	EMPLOYED	FURTHER STUDY	UPGRADING SKILLS	WAITING FOR WORK PLACEMENT	SELF-EMPLOYED	UNEMPLOYED	GRAND TOTAL
<b>SCIENCE</b>	<b>414</b>	<b>79</b>	<b>18</b>	<b>109</b>	<b>14</b>	<b>22</b>	<b>656</b>
Pharmacy	84	59	4	14	4	8	173
Nursing / Health Sciences	308	20	13	17	10	13	381
Other Medical Areas	1						1
Medical	21		1	78		1	101
<b>LITERATURE &amp; SOCIAL SCIENCE</b>	<b>775</b>	<b>62</b>	<b>40</b>	<b>26</b>	<b>144</b>	<b>19</b>	<b>1066</b>
Finance/ Banking/ Insurance/ Investment/ Property	119	3	5	4	15		146
Tourism/ Hospitality/ Food & Beverage	14				7		21
Marketing & Sales/ Advertising	61	1	4	3	9	3	81
Transportation	149	32	9	14	10	8	222
Business Administration/ Trade	285	17	15	4	69	8	398
Accounting	147	9	7	1	34		198
<b>TECHNICAL</b>	<b>1784</b>	<b>534</b>	<b>207</b>	<b>98</b>	<b>192</b>	<b>106</b>	<b>2921</b>
Aerospace	345	306	30	27	36	38	782
Electrical/ Electronic/ Telecommunication Engineering	477	64	46	27	43	18	675
Chemical Engineering	172	31	38	10	18	9	278
Mechanical/Mechatronic Engineering	485	84	68	18	59	26	740
Other Engineering areas	305	49	25	16	36	15	446
<b>INFORMATION TECHNOLOGY &amp; COMMUNICATION</b>	<b>385</b>	<b>80</b>	<b>28</b>	<b>6</b>	<b>49</b>	<b>6</b>	<b>554</b>
Computer Applications/ Software Development	127	13	10	2	12	3	167
Network & Hardware	89	1	11	2	8	2	113
Computer Design & Graphic	122	66	4	1	27	1	221
Computer Science	46		3		2		52
Information Technology & Others	1			1			1
<b>GRAND TOTAL</b>	<b>3358</b>	<b>755</b>	<b>293</b>	<b>239</b>	<b>399</b>	<b>153</b>	<b>5197</b>

Overall, UniKL’s employability rate has shown steady growth since four years ago with only 75.45%.





## 5.3 Student Aids

UniKL is also actively involved in the university's social responsibility by implementing corporate social responsibility (CSR) initiatives, especially in supporting underprivileged students. The distribution of zakat is one of the additional incentives for UniKL students who are eligible.

For this reason, UniKL established Yayasan UniKL to assist in the improvement of the standard of living of the less fortunate in society through the provision of financial aid and basic amenities and services with respect to welfare, health and education for the benefit of all Malaysians only who are poor, needy and most deserving irrespective of race, religion or creed.

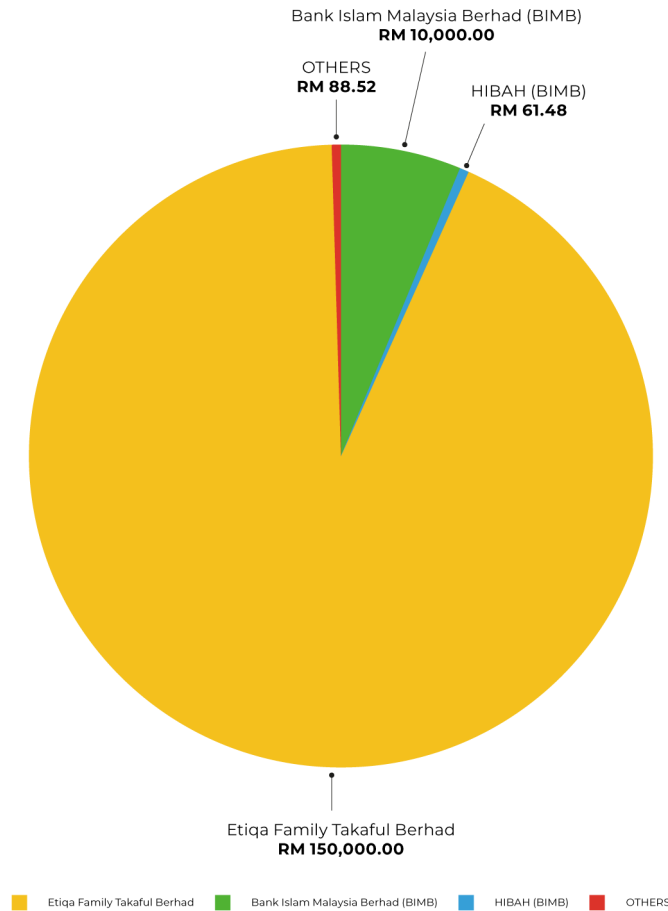
In 2021 alone, a total of RM77,200 had been given out to 12 eligible students under the UniKL Tengku Abdullah Scholarship scheme (UTASSS) for them to pursue their studies in the institutes of choice at UniKL.

This effort is further expanded through a zakat arm of UniKL, Tabung Amanah Zakat UniKL (UniZ@UniKL) which distributed RM563,071.20 in 2021. It was distributed under 12 almsgiving praxis.

No.	Type of Distribution	Unit/Item	Fakir	Miskin	Fisabilillah	Muallaf	Ibn Sabil	Total (RM)
1	Hari Raya Contributions- RM300/Person	229	107	122				68,400.00
2	Monthly Financial Aid - (6 Months)	203	82	121				270,400.00
3	Food Assistance - Majlis Agihan Zakat 2022	66	20	20	22			3,757.00
4	Contributions to Musalla at 4 UniKL Campuses in Selangor	RM1500 x 4			4			6,000.00
5	Penceramah & Panelists	1			1			500.00
6	Flood Aid - MIAT Student	1	1					500.00
7	Assistance to Medically Ill Employee	1			1			1,000.00
8	Asnaf Ibnu Sabil - 1 Foreigner	1					1	1,000.00
9	Asnaf Muallaf - 2 Students	2				2		2,800.00
10	Flood Aid to 96 Students & 28 employees of UniKL	102			102			30,600.00
11	Laptop Contribution to 14 Student	14	14					24,000.00
12	UniKL Business Zakats							154,114.20
<b>Grand total</b>								<b>563,071.20</b>

However, the zakat distribution is boundless as there were many financially needy students continued to be supported under the UniKL Campus Lifestyle Division (CLD). Through donation of zakat by four main contributors in 2021, a total of RM160,150 be of aid to 281 students at UniKL.

**Total Donation : RM160,150.00**  
**Total Reciever : 218 Students**



The CSR activities that have been organised by UniKL are based on charitable efforts that emphasise capacity building for the empowerment of the personality and identity of UniKL students. Apart from the zakat donation, 372 counselling activities had been conducted on the same year organised by the 12 campuses.

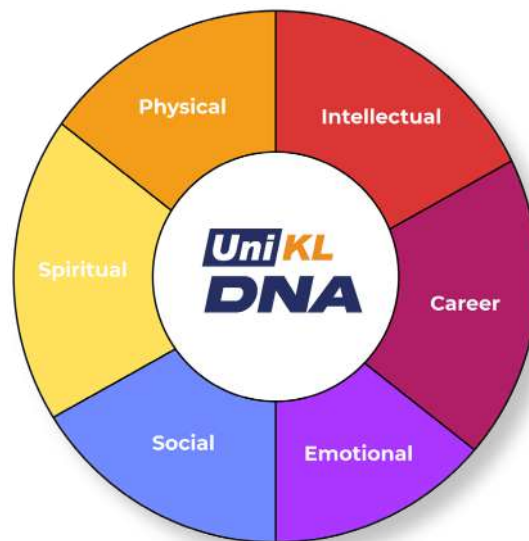
UniKL CARE was also established by UniKL with the main purpose of mobilising volunteer work among university students and staff at the local and global levels. It focuses on the social dimension of higher education in university-community engagement while fostering volunteerism amongst the UniKL community and giving back to society through UniKL CARE programmes and 157 activities were conducted.



# 5.4 UniKL DNA Empowerment

UniKL believes in the holistic approach of creating an all-rounder individual. Student character building is planned for each UniKL student in order to develop a “holistic graduate” leading to student success.

Student activities and organisations are an important part of holistic university education. All student activities will cover the UniKL activities domain (S.P.I.C.E.S) – Spiritual, Physical, Intellectual, Career, Emotional, and Social.



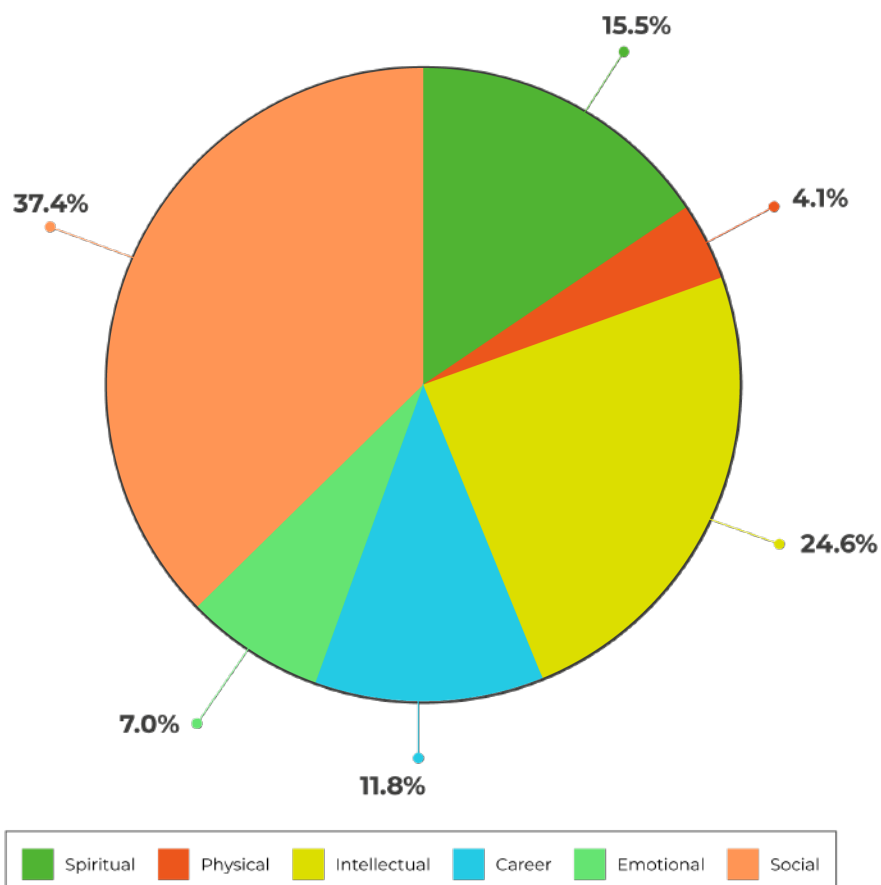
To encourage students to make continuous and hardworking efforts to pursue holistic independence, UniKL introduced Graduate – Higher Order Critical Skills (G-HOCS). It is a system developed as a programme to produce certification system to recognise students’ achievements and efforts. It involves experiential learning in training and interaction sessions and activities outside or inside the classroom.

Under the provision of the Centre for Student Development, approximately 772 activities anent the SPICES element had been conducted last year, despite the limitations of direct contact with people and restrictions on movement and travel, brought about by the Covid-19 pandemic.





Institute	Total Count of Spices	Total Sum of No of Participant
UniKL MIIT	11	605
UniKL BMI	85	9381
UniKL MESTECH	94	5638
UniKL MFI	64	2348
UniKL MIAT	198	14325
UniKL MICET	44	1994
UniKL MIDI	28	1698
UniKL MIMET	19	715
UniKL MITEC	64	2555
UniKL MSI	29	1802
UniKL RCMP	95	5170
UniKL UBIS	41	2355
<b>Grand Total</b>	<b>772</b>	<b>48586</b>



**SPICES element**

Developing a student profile helps to provide a deeper understanding of an individual’s unique interests, styles and abilities. This information can be used to enhance a student’s academic and characteristic developmental growth.

**HUMAN RESOURCE**

**DEVELOPMENT**



# Man With An Inspiring Touch

Associate Prof Dr Mohd Farid Shamsudin is an inspiration to the UniKL Business School Postgraduate programme. In the 2019 UniKL Convocation, he proudly witnessed 10 Ph.D and Master research students under his supervision receive their scrolls from His Majesty Al-Sultan Abdullah, the King of Malaysia.

Pursuing a doctorate programme calls for self-discipline, glowing stamina akin to a long-distance athlete, fortified family backing and financial support as earning a doctoral degree can be an expensive proposition.

If that is not tough enough, it can also be a lonely crusade. It has never been easy doing a doctorate programme as the route is remote, treacherous and tortuous.

However, a strong and crucial connection between the mentor and students is the catalyst to success. Good mentorship, said Assoc Prof Dr Mohd Farid Shamsudin, is the 'driving force' that drives the level of commitment in a PhD student to survive the pressure-cooker atmosphere.

For someone who has gone through the mill as a PhD student and Head of Research and Innovation at UniKL Business School, Assoc Prof Dr Mohd Farid believes that the decision to do a PhD programme is by itself a strong endorsement of a commitment but generally students can't do it alone.

"They need to work in a group and share their experiences in any kind of research. It is a widespread struggle. And the most important 'protagonist' in their success is the supervisor or advisor. Almost all my students who graduated during the 2019 Convocations had a common character

Below;  
Associate Prof Dr  
Mohd Farid Shamsudin



that is commitment, discipline and persistence,” said Assoc Prof Farid.

He has more than five years of teaching experience as a part-time postgraduate lecturer in various local universities before joining UniKL Business School.

“Students also share their knowledge and experience in WhatsApp group. The Supervisor gives instructions every week and postgraduate students are required to provide their progress report weekly. Students work in a group intending to graduate in time,” he added.

The 16th UniKL Convocation in 2019 at the Putrajaya International Convention Centre was the proudest moment for Assoc Prof Farid and UBIS as 14 of his students received their scrolls from UniKL Chancellor His Majesty Al-Sultan Ri'ayatuddin Al-Mustafa Billah Shah ibni Almarhum Sultan Haji Ahmad Shah Al-Musta'in Billah.

It was a personal milestone for Assoc Prof Dr Farid. In 2017 he witnessed two of his students receive their scrolls and one in 2018, making the 2019 graduation batch that including foreign students from Pakistan, Indonesia, China, Nigeria and Syria as the biggest number in his three years in UBIS as a senior lecturer.

Assoc Prof Dr Mohd Farid hails from Muar, Johor and holds a Bachelor in Business Administration (Multimedia University, 2004), Masters in Business Administration (International Islamic University, 2007) and Doctorate of Business Administration from University Utara Malaysia's OYA Graduate School of Business in 2012.

He lectures and researches in the areas of Marketing and has 22 years of working experience in the banking and telecommunication industry. Before joining UniKL, Assoc Prof Dr Mohd Farid held the position of Senior Product Manager in the largest Telecommunication Company. He acquired enormous industry experience especially related to consumer behaviour, product development, relationship marketing and customer services.

Among the subject specialised by Dr Mohd Farid Shamsudin are Principle of Marketing, Marketing Management, Strategic Marketing, Advertising and Promotion, Retail Management, Sales Management and Product Development.





# Bringing UniKL's global skills to the forefront

As demand shifts rapidly, countries need both advanced technical, and vocational skills as well as an adaptable workforce. Investing in skills development has become a paramount focus than anything else, in ensuring a solid economic upturn.

In Malaysia, its education landscape has gradually transitioned to technical and vocational boosterism. This pins Malaysia's hope of producing youth fitted out to concrete foundation skills.

This effort is further advocated through Skills Competition, one of the activities of SkillsMalaysia in conducting competitions at the national and international levels.

It is a national agenda jointly managed by the Ministry of Human Resources and the Ministry of Works (KKR), which is branded as WorldSkills Malaysia.

SkillsMalaysia symbolises the transformation of skills training to reach the most excellent level as an aspiration result of Malaysians and support to national development. It is an effort to attract the country's youth to be more confident and appreciate the skills field towards the transformation of Technical and Vocational Education Training (TVET) and Revolution IR4.0.

Since 2012 to date, Universiti Kuala Lumpur Malaysia France Institute (UniKL MFI) has been appointed and recognised as a Center of Excellence (CoE) for two skills trade areas namely, Refrigeration & Air Conditioning and Mechanical Engineering CAD by the KKR's Policy and International Divisions and the Department of Skills Development (JPK) under the Ministry of Human Resources.

The appointment aims to train and prepare selected country participants for the WorldSkills Competition (WSC), AsianSkills Competition (WSASEAN), WorldSkills Asia Competition (WSAsia) and other equivalent skills competitions at the international level.

The selected national candidates are trained at UniKL MFI CoE according to the training schedule that has been planned by the National Experts and agreed upon by the respected ministry.

UniKL MFI saw two of its specialists being appointed as the National Expert for the two said skills trade areas.

Mohd Zaki Mohamed's contribution to the National Expert selection came to pass from his role as an observer at an ASEAN skills competition, dating back to 2007.

“Couple years later, I was appointed as one of a skills competition’s judges, following up with my designation as the National Expert for Refrigeration & Air Conditioning area in 2012,” he told.

Mohd Zaki’s contribution to skills development thrived, with his highest achievement as the Chief Expert at the Kazan WorldSkills competition in 2019.

Joining the line-up, Ts. Junita Mohd Said has been contributing to TVET development since 1999, after being appointed as the National Trainer for

Mechanical Engineering CAD. She guided and succored Malaysia’s contestants in a WorldSkills Competition in Canada.

“From then on, I actively engaged in Skills Competition by being national judge and in 2012, I was named as National Expert for ASEAN Skills Competition in Jakarta,” she noted.

Both Mohd Zaki and Junita were among the pioneer who has been setting UniKL MFI in motion since 1995, and 2021 marked their more than 26 years of service.

Mr. Mohd Zaki Mohamed

Ts. Junita Mohd Said

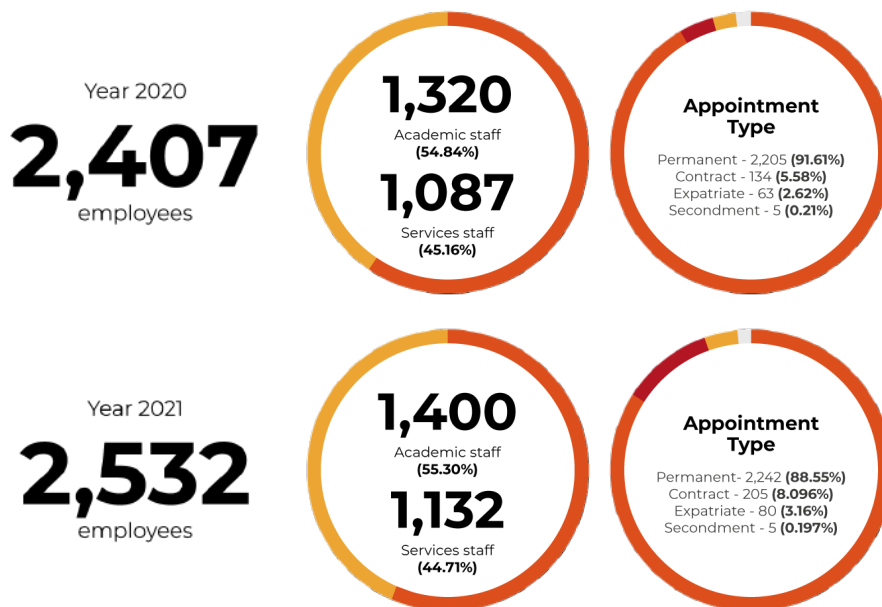


# 6.1 Human Resource Capacity

In addition to contributing to the university’s overall success, getting the right employees on board ensures that they grow with UniKL’s aspirations, vision, and mission.

In this part of the organisation, the People Management & Team Culture (PMTc) Unit has been tasked with planning, developing, and implementing programs designed to make use of the human resources in an organisation effectively.

In 2021, the number of staff slightly increase to 2,532 employees from 2,407 employees in the preceding year. The number of academic staff in both years still marks the highest percentage, which is then followed up by the service employees.



### Staff activities:

In order to improve the efficiency level of the employees, they have to undergo regular trainings and development programmes. All trainings and development needs are carried out by this department. Training might include on-the-job or off-the-job training.

# EXECUTIVE SUMMARY

1

## TRAINING MANDAYS



31,949  
HOURS

3,993  
DAYS

94%  
RATING

2

## NUMBER OF IN-HOUSE TRAINING PROGRAMME AT CHANCELLERY IN 2021

Q1 = 5  
Q2 = 11  
Q3 = 14  
Q4 = 14

3

## STAFF ATTENDED TRAINING



2020  
1,182 (52.2%)

2021  
1,499 (59.5%)

4

## \*HRDF CONTRIBUTION VS CLAIMED

Claimed	490,312.07
Contribution	1,232,454.60

5

CIAST Fund Utilisation	99.4%
Programmes Completed	100%

**Note:** Fund Approved = RM37,200.00

\*Human Resources Development Fund  
\*Centre for Instructor and Advanced Skill Training





## The CIAST Programme entails as follows:

No.	Courses	Commencement date	End Date
1	A Guide To Getting Started With SmartPLS (Online)	22-04-2021	23-04-2021
2	A Guide To Extended Analysis Using SmartPLS (Online)	20-05-2021	21-05-2021
3	Research Operational Template (ROT) - Preparation for proposal/ thesis	28-07-2021	28-07-2021
4	Predictive Analytics with Orange	27-07-2021	27-07-2021
5	Time Series Forecasting with R	26-06-2021	26-06-2021
6	PRINCE2 FOUNDATION	08-06-2021	10-06-2021
7	Lead Auditor (LA) Course for ISO 9001:2015	05-07-2021	09-07-2021



# HIGHLIGHT



Over the years, UNIKL has made significant contributions in various fields, including science, engineering, technology, and business. From groundbreaking research projects to winning prestigious awards and accolades, UniKL has a long and impressive list of accomplishments that continue to inspire and shape the future of education and research in Malaysia.



# Launching of UniSeri – your skin matters



24 Jan 2021 - Universiti Kuala Lumpur Malaysian Institute of Chemical and Bio-engineering Technology (UniKL MICET) has formulated a range of facial skin care products, UniSeri, using Bunga Telang as one of the basic ingredients of the product. UniSeri products have been on the market since February 2021.

UniKL MICET researchers said, the main benefit of Bunga Telang is that it is a high antioxidant agent, anti-aging, restores skin moisture, rejuvenates and stimulates youthful appearance. UniSeri is the first facial skin care product produced by UniKL MICET and guaranteed safe without prohibited substances.

For the first phase, UniSeri products consist of two products that have different advantages, namely Blu Telang Rejuvenate Serum and Blu Telang Pore Refining CC Cream. The main target for this Blu Telang Rejuvenate Serum product is for users in the age range of 35 to 50 years and for the Blu Telang Pore Refining CC Cream product, focuses on users in the age range of 20 to 26 years.



# UniKL awarded with Putra Brand Gold Award in Education and Learning Category

5 Feb 2021 - Universiti Kuala Lumpur (UniKL) finally was awarded with PUTRA Brand Gold Award in Education and Learning Category. For the record, UniKL won Bronze in 2016 and Silver in 2018 and 2019 in the same category. To remain competitive and have a stronger presence in the market, the technical university rides on the digital wave and maximising digital platforms.

For UniKL, active campaigns through mainstream media and digital marketing help to boost our brand image among consumers. Creative social media content has helped to reach a million viewers and popularised our brand. Mainstream media also promotes the brand by establishing a niche and brand differentiation. It established brand trust and reliability under uncertainties caused by the pandemic.





TOP UNIVERSITIES IN MALAYSIA BASED ON

**THE WORLD UNIVERSITY RANKINGS 2021 ASIA**

NO	UNIVERSITY	2020	2021
1	Universiti Malaya (UM)	43	49
2	Universiti Teknologi Petronas (UTP)	124	111
3	Universiti Tunku Abdul Rahman (UTAR)	119	119
4	Universiti Putra Malaysia (UPM)	145	136
5=	Universiti Kebangsaan Malaysia (UKM)	160	150
5=	Universiti Teknologi Malaysia (UTM)	143	150
7	Universiti Utara Malaysia (UUM)	251 - 300	155
8	Universiti Sains Malaysia (USM)	156	163
9	Universiti Tenaga Nasional (UNITEN)	201 - 250	201 - 250
10	Universiti Malaysia Perlis (UniMAP)	165	351 - 400
11=	<b>Universiti Kuala Lumpur (UniKL)</b> <small>NEW</small>	<b>NR</b>	<b>401+</b>
11=	Universiti Malaysia Sarawak (UNIMAS)	401+	401+
11=	Multimedia University (MMU)	401+	401+
11=	Universiti Teknikal Melaka (UTeM) <small>NEW</small>	NR	401+
11=	Universiti Teknologi MARA (UITM)	401+	401+

Source: As announced by Times Higher Education at 12:00 noon BST on 2 June 2021

10 March 2021 - Amid the global Covid-19 pandemic that has affected student enrolment into universities, Universiti Kuala Lumpur (UniKL) continues to soar as a top-performing institution in the Times Higher Education (THE) Asia University Rankings 2021.

The ninth edition of THE Asia University Rankings secured UniKL a spot amongst the top 551 universities from 30 territories. UniKL made its debut, alongside Universiti Teknikal Malaysia Melaka (UTeM), in the 401+ band. In total 15 Malaysian Universities made entries into THE Asia University Rankings 2021 compared to 13 in 2020. The announcement was made on June 2nd.

UniKL Acting President and CEO (Deputy President Academic and Technology) Prof Dr. Shahrulniza Musa said the rankings demonstrate the important role UniKL plays in delivering HTVET programmes despite the challenges.

In addition to this, a 2019 Graduate Employability Rankings revealed that UniKL's institutions occupy nine of the top 20 positions among most employable graduates in the country with an average of 96 percent graduate employability.

# The Asia University Rankings 2021 – UniKL soars



# A three-peat and a new winner

26 March 2021 - Tengku Ahmad Tajuddin Tengku Abdul Jalil fired in the winning goal as Universiti Kuala Lumpur (UniKL) edged Maybank 1-0 to retain the Tenaga Nasional Berhad - Malaysian Hockey League (TNBMHL) Premier League title at the National Hockey Stadium in Bukit Jalil on 25 March 2021.

It was UniKL's third straight Premier League triumph. Following the victory, UniKL ended their campaign in the league unbeaten at the top of the table standings with 19 points from seven matches, winning six and drawing one. They now hold a proud record of an unbeaten stretch of 33 matches since 2019 — winning 30 and drawing three. The varsity team, who had also retained the Charity Shield on 12 March 2021, first won the Premier League title in 2019 and went on to create history last season

by winning the Charity Shield, Premier League and TNB Cup (overall champions).

UniKL Ladies had also emerged champions in the Malaysian Women's Hockey League the previous week and then went into their next challenge – the Vivian May Soars Cup. It was a memorable debut for UniKL Ladies as they lifted the Malaysian Women's Hockey League title in grand style with a 7-0 drubbing over Sabah with one match in hand at the same venue. The eventually chalked up a 100 per cent record in the Malaysian Women's Hockey League as they outplayed Young Tigress 4-2 to register their fifth consecutive win at the National Hockey Stadium in Bukit Jalil on 24 March 2021.

# Sabah Science, Technology and Innovation Minister, Datuk Yakub Khan visits UniKL MFI

27 April 2021 - Universiti Kuala Lumpur Malaysia France Institute (UniKL MFI) is committed to continuing and exploring more potential collaboration with the Sabah Department of Human Resources (JPSM), as an addition to their existing cooperation. This came after the Minister of Sabah Science, Technology and Innovation, Datuk Yakub Khan undertook an official visit to Universiti Kuala Lumpur Malaysia France Institute (UniKL MFI). The visit will be a catalyst for more cooperation between UniKL and the Sabah Ministry of Science Technology and Innovation in the field of research by offering research and development funds or grants to UniKL lecturers who have expertise in various fields.

Prior to that, UniKL has signed a collaboration with JPSM on 22 January 2020. As a result of the cooperation, JPSM has sent a total of 5 students - 4 people to further their studies at the Diploma level at UniKL Malaysia France Institute in Automotive. Meanwhile, another student continued his studies at UniKL British Malaysian Institute in Gombak, Selangor majoring in Electrical and Electronics. They were part of the January 2020 session intake group and are currently in semester three (3) of their respective majors.

During the visit, Datuk Yakub undertook a tour of the campus facilities and workshops available at UniKL MFI. He also had a friendly session with JPSM-sponsored students.



# Cooperation between UniKL and Quandatics Academy

5 May 2021 - Quandatics Academy Sdn Bhd has come on board as an academia-industry partner with Universiti Kuala Lumpur (UniKL) in promoting talent development for data analytics and related fields. The collaboration will focus on joint ventures between both parties in the form of projects, research and development (R&D) activities in the area of Big Data and Data Analytics. It also hopes to create more job opportunities and industrial training placement for UniKL students.

The Memorandum of Understanding (MoU) signing ceremony was held on May 5th at the UniKL City Campus Chancellery. UniKL Acting President and Chief Executive Officer Prof. Dr. Shahrulniza Musa signed the MoU on behalf of the university while Quandatics

Academy Sdn Bhd was represented by its Managing Director Mr. Lim Meng Kooi. The event was witnessed by the Dean of UniKL Malaysian Institute of Information Technology (UniKL MIIT) Assoc. Prof. Dr. Zalizah Awang Long, Quandatics Academy Business Development Director, Ms. Shelly Lee Wai Ju and senior management staff of UniKL.

Quandatics Academy is founded in 2017 as a departmental spinoff from its parent company, Quandatics (M) Sdn Bhd and strives to promote learning in every country around the world. It offers practical, real-world-applicable upskilling programmes to help professionals, students and all those keen on improving themselves to adopt the skillsets needed to thrive in the Big Data revolution era.





21 May 2021 - THE Yang di-Pertuan Agong, Al-Sultan Abdullah Ri'ayatuddin Al-Mustafa Billah Shah, is an Honorary Member of the International Hockey Federation (FIH). His Majesty, who is also the Chancellor of Universiti Kuala Lumpur (UniKL), was named an Honorary Member at the #Hockeyinvites virtual conference held on the opening day of the 47th FIH Congress on May 21st.

The FIH, in its official website, stated that Al-Sultan Abdullah's recognition was due to His Majesty's tireless efforts in promoting and developing hockey. His Majesty Al-Sultan Abdullah Ahmad

Shah, who is the current Royal Patron of the Asian Hockey Federation, has initiated the regeneration of hockey in Asia and vowed to recreate its status as an extravaganza and symbolic sport on the Asian and global platform.

His Majesty has also been instrumental in UniKL having its hockey stadium located at the UniKL Malaysia France Institute in Bangi. The 500-seat Tengku Abdullah Hockey Stadium was officially launched on August 20th, 2018. Numerous hockey national associations and other individuals were also recognised in the FIH awards.

# King appointed FIH Honorary Member

# Unikl features in QS World University Rankings 2022

9 June 2021 - THE inclusion of Universiti Kuala Lumpur (Unikl) in the QS World University Rankings 2022 for the first time is a significant achievement for this young technical entrepreneurial university under the aegis of Majlis Amanah Rakyat (MARA). In a world that often presumes that the older an institution is, the better it will do in terms of world university rankings is a misconception. Precisely 19 years since its establishment in 2002, Unikl has made impressive gains.

Unikl is among 22 Malaysian universities listed from a total of 1,300 universities in 97 locations globally in the annual university rankings by global higher education analysts QS Quacquarelli Symonds. Unikl is listed in the 801-1000 band alongside Universiti Malaysia Pahang (UMP), Universiti Malaysia Perlis (UniMAP) and Universiti Tunku Abdul Rahman (UTAR) while Multimedia University, Universiti Malaysia Sarawak, Universiti Malaysia Sabah and Universiti Malaysia Terengganu are placed in the 1001-1200 band.

TOP UNIVERSITIES IN **MALAYSIA** BASED ON

**QS WORLD UNIVERSITY RANKINGS 2022**

No	University	2021	2022
1	Universiti Malaya (UM)	59	65
2	Universiti Putra Malaysia (UPM)	132	143
3	Universiti Kebangsaan Malaysia (UKM)	141	144
4	Universiti Sains Malaysia (USM)	142	147
5	Universiti Teknologi Malaysia (UTM)	187	191
6	Taylor's University	379	332
7	UCSI University	391	347
8	Universiti Teknologi Petronas (UTP)	439	414
9	Universiti Utara Malaysia (UUM)	531-400	511-520
10	MSU University	551-560	601-650
=11	Universiti Islam Antarabangsa M'sia (UIAM)	601-650	651-700
=11	Universiti Teknologi MARA (UiTM)	651-700	651-700
=11	Sunway University	701-750	651-700
14	Universiti Tenaga Nasional (UNITEN)	701-750	751-800
<b>=15</b>	<b>Universiti Kuala Lumpur (Unikl) <span style="border: 1px solid red; padding: 2px;">NEW</span></b>	<b>NR</b>	<b>801-1000</b>
=15	Universiti Malaysia Pahang (UMP)	751-800	801-1000
=15	Universiti Malaysia Perlis (UniMAP)	801-1000	801-1000
=15	Universiti Tunku Abdul Rahman (UTAR)	801-1000	801-1000
=16	Multimedia University (MMU)	1001-1200	1001-1200

# UniKL BMI serves as Covid-19 PPV

1 Aug 2021 - Universiti Kuala Lumpur British Malaysian Institute (UniKL BMI) is among the Vaccine Dispensing Centre (PPV) in facilitating the National Covid-19 Immunisation Programme. The UniKL BMI vaccine centre in Gombak began operations on Thursday, 29 July 2021 and is expected to continue until December 2021. Selangor State Assemblyman for Gombak Setia YB Muhammad Hilman Idham paid a visit to the vaccination centre on the first day of operations while Selangor Menteri Besar YAB Datuk Seri Amirudin Shari made a brief tour at the centre on August 1.

During the visit, Datuk Seri Amirudin was briefed on the procedures at the PPV from the registration counters, inoculation process and the discharge station by Eamy Mokhtar, the Chief Assistant District Officer (Rural Development) from the Gombak District Officer. Kuala Lumpur Medical Clinic is the Health Care Organiser of the UniKL BMI Vaccine Centre.

Unlike most PPV's which were overwhelmed by hundreds of people, the UniKL BMI centre saw a calm and steady stream of people who came as early as 8 am. The PPV operates from Monday to Sunday (8 am – 8 pm).



# The inauguration of UniKL MIAT synthetic football field

30 Oct 2021 - Universiti Kuala Lumpur Malaysian Institute of Aviation Technology (UniKL MIAT), Dengkil gets its own exclusive football field with synthetic turf that will allow players to train and play safely as Majlis Amanah Rakyat (MARA) Director-General, Dato' Azhar Abdul Manaf inaugurated the facility. The inauguration of the football field was further complemented by a friendly match between UniKL FC and Pasukan Kelab Bolasepak Persada Integriti Bersatu (PIB FC) which saw UniKL FC won by a margin of 2-0.

The occasion became more momentous when UniKL FC was represented by VIP guests including Dato' Azhar, Chief Marketing and Planning Officer (CMPO) of UniKL, Dato' Amir Azhar Ibrahim and Dean of UniKL MIAT, Dr Mohd Hafizi Shamsudin in the friendly match. The 6,000-square-meter field was originally in a less safe condition for football due to its hard ground surface and poor drainage. Taking those risks into account, the renovation work on synthetic turf started on 15 August 2019 and completed on 4 January 2021.







# UniKL now a subsidiary of MARA Corporation

1 Nov 2021 - Universiti Teknikal MARA Sdn. Bhd, the operator of Universiti Kuala Lumpur (UniKL) is now a wholly-owned subsidiary of MARA Corporation Sdn. Bhd., effective on 1 November 2021. MARA Corporation's acquisition of the largest private technical university in Malaysia aims to provide competitive and efficient centralised services to its subsidiary's ecosystem, among others. Before the takeover, UniKL was wholly owned by Majlis Amanah Rakyat (MARA) and given the mandate to upgrade the status of technical education in Malaysia by the government.



# UniKL secures 3 Medallion of Excellence at WSMUC 2021

3 Nov 2021 - Universiti Kuala Lumpur (UniKL) continues to outshine its accomplishment in skills competition by winning three Medallion of Excellence at WorldSkills Malaysia University Challenge (WSMUC 2021) which concluded on November 3rd. The recipients, Muhammad Naufal Mohd Azhari and Nurnayli Athirah Mohd Azhan from UniKL Malaysia France Institute (MFI) have been honoured with Medallion of Excellence in the category of Mechanical Engineering CAD, while Irfan Badzlin Badrul Hisham (UniKL Malaysian Institute of Information Technology – UniKL MIIT) bagged the same award in Cyber Security.

For the record, they were competing with more than 50 participants including four international students from approximately 10 institutes of higher learning. The two-day virtual competition started on 27 to 29 October 2021 involving four contested fields in future skills namely Mobile Applications Development, Cyber Security, Mechanical Engineering CAD, and Building Information Modelling (BIM). A maiden competition, WSMUC 2021 was organised by UniKL Malaysia France Institute (MFI) and Department of Skills Development (DSD).





# UniKL among 15 local universities seals MoU, MoC with PETRONAS

3 Nov 2021 - Universiti Kuala Lumpur (UniKL) and 14 other local universities have signed the Memoranda of Understanding (MoUs) and Memoranda of Cooperation (MoCs) with Petroliaam Nasional Berhad (PETRONAS). Under the effort called 'Collaboration with Higher Education Strategic Initiatives (CHES)', the collaboration aims at catalysing industrial-academic knowledge sharing for talent development and continuous progress which is in line with the company's sustainability goals.

The other involved universities are Universiti Tun Hussein Onn Malaysia (UTHM), Universiti Putra Malaysia (UPM), Universiti Utara Malaysia (UUM), Universiti Teknologi Malaysia (UTM), Universiti Sains Islam Malaysia (USIM), Universiti Malaysia Perlis (UniMAP), Universiti Malaysia Terengganu (UMT), Universiti Malaya (UM), Universiti

Malaysia Sabah (UMS), Universiti Kebangsaan Malaysia (UKM), Universiti Teknologi Melaka (UTeM), Universiti Teknologi MARA (UiTM), Universiti Malaysia Sarawak (UNIMAS) and Universiti Sains Malaysia (USM).

The MoUs and MoCs signing will see the launch of a spectrum of programmes to facilitate learning and coaching in a wider range of technical areas related to the energy industry. The collaborative research and development activities between PETRONAS and UniKL researchers in the Environmental & Sustainable Energy, Chemical & Advanced Materials Engineering; and prospective consultancy projects are relevant to Green Technology & Renewable Energy as it is in line with the varsity's strategic direction.

# UniKL MSI and Kulim Technology Park Corporation ink MoC

8 Nov 2021 - Universiti Kuala Lumpur Malaysian Spanish Institute (UniKL MSI) and Kulim Technology Park Corporation Sdn Bhd (KTPC) have signed Memorandum of Cooperation (MoC) to develop collaboration in various potential areas. This includes the sharing of available resources and expertise for education, talent pools, professional industrial programmes and industrialmanship initiatives.

The MoC was signed by President and Chief Executive Officer of UniKL, YBHG Datuk Dr Roziah Omar and Group Chief Executive Officer of KTPC, Tuan Haji Mohd Sahil Zabidi, in the presence of Senior State Executive Council Member, Industry & Investment Higher Education, Science, Technology & Innovation, Hons. Dato' Wira Dr. Ku Abd Rahman

Ku Ismail and KTPC Head, Sales and Strategic Planning, Puan Nurliza Ahmad. The academia-industry relationship will further improve UniKL graduates' employability with UniKL MSI becoming the focal point to lead the initiative.

KTPC is a developer and manager of KHTP, a premier and fully integrated high technology park neighbouring the state of Penang within the Northern Economic Corridor.





## UniKL – DSD to Explore joint effort on alumni employability

19 Nov 2021 - Universiti Kuala Lumpur (UniKL) through its Center for Alumni and Career Services (CACs) and Centre for Advancement & Continuing Education (ACE) in collaboration with the Ministry of Human Resources' Accreditation Unit, Department of Skills Development will explore a joint effort on the technical university's alumni employability. The joint effort includes potential training services to be provided to the varsity's alumni under the unit such as Sistem Latihan Dual Nasional (SLDN).

At the same time, the exchange of views session is also aimed at exploring the prospect of UniKL being one of the training universities for skills development. Hence, this will open opportunities for UniKL alumni to take part in skills training programmes under SLDN, precisely. This is not only for those who desire to land a job, but those who are seeking a career shift.



# First series of UniKL Ministerial Talk launched

22 Nov 2021 - The fate of Malaysia's future now lies in youth; hence, the Minister of Rural Development (KPLB), Yang Berhormat Dato' Seri Mahdzir Khalid has urged the young generation to be dynamic in all aspects of life. As the future of this nation can be challenging to predict, therefore, there is an urgency for the Malaysian youth to be knowledgeable and create more professionals as well as technocrats in all diverse industries, Dato' Seri Mahdzir further noted.

"The university can arrange any programme to empower students. But, it is the young people who need to come up with ideas to create a learning environment that is conducive for them," said him after officiating the 'UniKL Ministerial Talk Series' at UniKL Malaysian

Institute of Aviation Technology (UniKL MIAT).

The 'UniKL Ministerial Talk Series' was organised by UniKL Campus Lifestyle Division (CLD) with the aim of providing exposure and sharing of experience on leadership apart from providing an opportunity for student leaders to communicate and engage with the Minister of Rural Development, in line with the spirit of 'Keluarga Malaysia'. Prior to that, Yang Berhormat Dato' Seri Mahdzir Khalid undertook a 15-minute tour at two helicopter hangars of UniKL MIAT and then officiated the campus' Advanced Flight Simulation Centre for Aircraft Type Rating Training Programme for Boeing 737-800 aircraft.



# UniKL, the earliest university to have a Centre for Water Engineering Technology

29 Nov 2021 - Universiti Kuala Lumpur (UniKL) through its Bangi-based institute, UniKL Malaysia France Institute (UniKL MFI) has become the earliest institution in Malaysia to have its very own Centre for Water Engineering Technology (CWET) to further enhance skill and knowledge for the existing and new workforce in the sector. This came after the CWET academic building key was handed over in a closed ceremony.

The new 35,000-square-foot CWET building is equipped with virtual, decentralised, real-time, and immersive laboratories that aim to nurture creativity and innovation. Among housed within the CWET building is the Water Resources Management Laboratory, equipped with a state-of-the-art and IoT-based real-time water quality monitoring system which is developed in partnership with the French-based Veolia Group.



# MARA Chairman's visit to UniKL MFI

3 Dec 2021 - The long-established collaboration between Universiti Kuala Lumpur Malaysia France Institute (UniKL MFI) and France is believed to create more global-class talents from this nation in the field of engineering technology.

As the world is moving towards Fourth Industrial Revolution (IR4.0), the Chairman of Majlis Amanah Rakyat (MARA), YB Datuk Seri Panglima Hajah Azidah Datuk Seri Panglima Haji Mohd Dun believed the development of facilities and equipment for training purposes at UniKL MFI is also aligned

with the real international industry standards. She said that after an official visit at UniKL MFI.

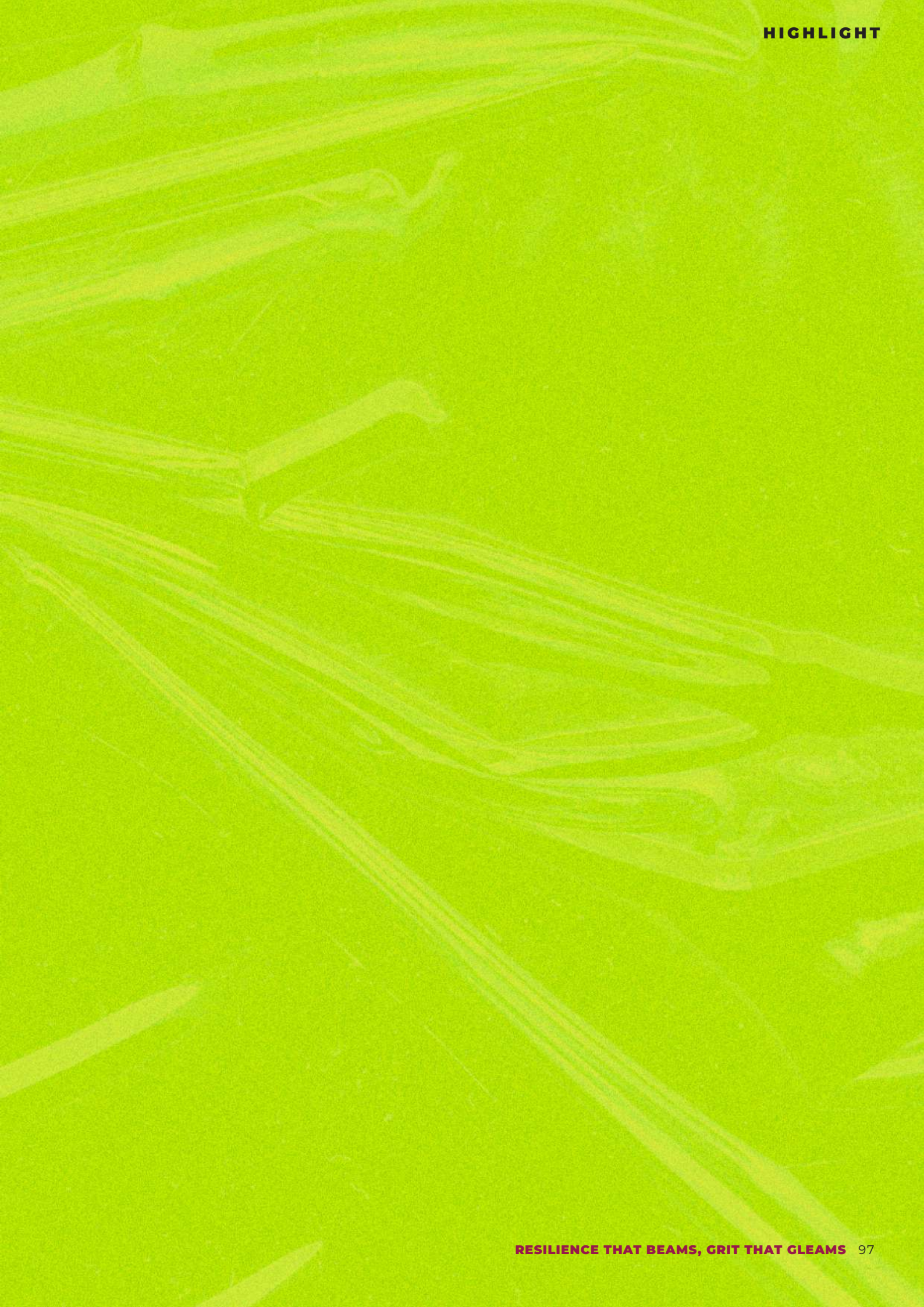
During the visit session, she undertook a tour of the facilities and training centers available at UniKL MFI including welding, automotive, and air conditioning workshops. Apart from that, she also had a friendly session with a total of 72 Sijil Pelajaran Malaysia (SPM) 2020 graduates who have been qualified to enroll in the Pre-France Preparation programme.



- YB Datuk Seri Panglima Hajah Azidah Datuk Seri Panglima Haji Mohd Dun









# FINANCIAL

Company No. **409 (570132-T)**

**UNIVERSITI TEKNIKAL MARA SDN. BHD.**  
(Incorporated in Malaysia)

**Statutory Declaration  
Pursuant to Section 251(1)(b) of the Companies Act, 2016**

I, DATUK DR. ROZIAH OMAR, being the Officer primarily responsible for the financial management of UNIVERSITI TEKNIKAL MARA SDN. BHD., do solemnly and sincerely declare that the financial statements set out on accompanying pages are to the best of my knowledge and belief, correct and I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the Statutory Declaration Act, 1960.

Subscribed and solemnly declared by the )  
above named DATUK DR. ROZIAH OMAR at )  
Kelana Jaya, Petaling in the State of Selangor )  
Darul Ehsan this day of **14 FEB 2022** )

  
\_\_\_\_\_  
DATUK DR. ROZIAH OMAR

Before me,



Tetuan ND Hamid & Associates  
Peguambela & Peguancara  
C607, Block C, Kelana Square  
Jalan SS7/26, Kelana Jaya  
47301 Petaling Jaya, Selangor

Page 7

Company No. **409 (570132-T)**

**DN. BHD.**

**Companies Act, 2016**

UKIMAN BIN SARMANI and DATO' SRI MEGAT D. SHAHRIMAN of the Directors of UNIVERSITI TEKNIKAL MARA SDN. BHD., do as Directors, the financial statements set out on accompanying with Malaysian Financial Reporting Standards, International requirements of the Companies Act, 2016 in Malaysia so as ncial position of the Group and of the Company as at 31 rformance and the cash flows of the Group and of the i.

with a resolution of the Board of Directors.

  
\_\_\_\_\_  
DATO' SRI MEGAT D. SHAHRIMAN BIN  
DATO' ZAHARUDIN

Page 6

Company No. 200201002469 (570132-T)

**UNIVERSITI TEKNIKAL MARA SDN. BHD.**  
(Incorporated in Malaysia)

**Statement by Directors**  
**Pursuant to Section 251(2) of the Companies Act, 2016**

We, PROF. EMERITUS DATUK DR. SUKIMAN BIN SARMANI and DATO' SRI MEGAT D. SHAHRIMAN BIN DATO' ZAHARUDIN, being two of the Directors of UNIVERSITI TEKNIKAL MARA SDN. BHD., do hereby state that, in the opinion of the Directors, the financial statements set out on accompanying pages are drawn up in accordance with Malaysian Financial Reporting Standards, International Financial Reporting Standards and the requirements of the Companies Act, 2016 in Malaysia so as to give a true and fair view of the financial position of the Group and of the Company as at 31 December 2021 and of its financial performance and the cash flows of the Group and of the Company for the financial year then ended.

Signed on behalf of the Board in accordance with a resolution of the Board of Directors.

  
\_\_\_\_\_  
PROF. EMERITUS DATUK DR.  
SUKIMAN BIN SARMANI

  
\_\_\_\_\_  
DATO' SRI MEGAT D. SHAHRIMAN BIN  
DATO' ZAHARUDIN

Shah Alam  
Date: 14 FEB 2022

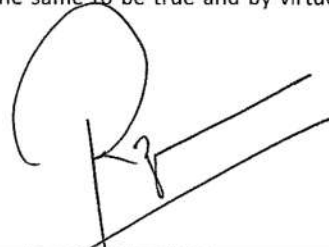
Company No. 200201002469 (570132-T)

**UNIVERSITI TEKNIKAL MARA SDN. BHD.**  
(Incorporated in Malaysia)

**Statutory Declaration**  
**Pursuant to Section 251(1)(b) of the Companies Act, 2016**

I, DATUK DR. ROZIAH OMAR, being the Officer primarily responsible for the financial management of UNIVERSITI TEKNIKAL MARA SDN. BHD., do solemnly and sincerely declare that the financial statements set out on accompanying pages are to the best of my knowledge and belief, correct and I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the Statutory Declaration Act, 1960.

Subscribed and solemnly declared by the )  
above named DATUK DR. ROZIAH OMAR at )  
Kelana Jaya, Petaling in the State of Selangor )  
Darul Ehsan this day of 14 FEB 2022 )

  
\_\_\_\_\_  
DATUK DR. ROZIAH OMAR

Before me,

\_\_\_\_\_  
COMMISSIONER FOR OATHS



Tetuan ND Hamid & Associates  
Peguambela & Peguamcara  
C607, Block C, Kelana Square  
Jalan SS7/26, Kelana Jaya  
47301 Petaling Jaya, Selangor

Company No.

200201002469 (570132-T)

**UNIVERSITI TEKNIKAL MARA SDN. BHD.**

(Incorporated in Malaysia)

**Statement of Comprehensive Income  
for the Financial Year Ended 31 December 2021**

	Note	Group		Company	
		2021	2020	2021	2020
		RM	RM	RM	RM
Operating income	5	347,089,673	328,866,285	272,055,785	270,633,179
Staff costs	6(a)	(176,705,173)	(170,069,505)	(143,245,214)	(141,134,912)
Operating expenses	7(a)	(38,294,199)	(37,908,776)	(23,918,417)	(27,923,366)
Gross profit		132,090,301	120,888,004	104,892,154	101,574,901
Other operating income	8	24,620,600	11,831,012	19,214,198	11,239,877
Amortisation of intangible assets	13	(966,382)	(1,087,660)	(966,382)	(1,087,660)
Depreciation of property, plant and equipment	15	(36,729,630)	(30,270,645)	(33,868,195)	(28,022,519)
Depreciation of right use of asset	16	(2,780,172)	(1,345,526)	(2,780,172)	(1,345,526)
Administrative staff costs	6(b)	(61,657,288)	(59,244,859)	(52,998,004)	(51,394,913)
Other operating expenses	7(b)	(57,094,911)	(69,175,258)	(49,264,629)	(59,910,918)
Finance cost	7(c)	(110,883)	(72,919)	(83,405)	(40,366)
Loss from operations		(2,628,365)	(28,477,851)	(15,854,435)	(28,987,124)
Amortisation of development grant	22(b)	17,309,159	16,747,854	16,567,653	15,773,600
Contribution from related company		4,000,000	6,133,000	4,000,000	6,133,000
Finance income	9	4,923,410	19,915,112	4,306,456	19,217,622
Profit before taxation	10	23,604,204	14,318,115	9,019,674	12,137,098

Company No.

200201002469 (570132-T)

**UNIVERSITI TEKNIKAL MARA SDN. BHD.**

(Incorporated in Malaysia)

**Statement of Comprehensive Income  
for the Financial Year Ended 31 December 2021 (Continued)**

	Note	Group		Company	
		2021	2020	2021	2020
		RM	RM	RM	RM
Taxation	11	(3,490,229)	(5,424,361)	(484,762)	(3,738,752)
Zakat		(652,261)	(466,550)	(352,261)	(316,550)
Net profit for the financial year		<u>19,461,714</u>	<u>8,427,204</u>	<u>8,182,651</u>	<u>8,081,796</u>
Total comprehensive income attributable to:					
Owners of the Company		16,013,684	7,491,951	8,182,651	8,081,796
Non-controlling interests		3,448,030	935,253	-	-
		<u>19,461,714</u>	<u>8,427,204</u>	<u>8,182,651</u>	<u>8,081,796</u>

The accompanying notes form an integral part of these financial statements

Company No.

200201002469 (570132-T)

**UNIVERSITI TEKNIKAL MARA SDN. BHD.**

(Incorporated in Malaysia)

**Statement of Financial Position as at 31 December 2021**

	Note	Group		Company	
		2021	2020	2021	2020
		RM	RM	RM	RM
<b>Non-current Assets</b>					
Goodwill	12	10,587,246	10,587,246		
Intangible assets	13	4,637,604	730,005	4,637,604	730,005
Property, plant and equipment	15	148,786,218	147,847,070	139,845,172	142,781,290
Right-of-use asset	16	4,571,294	7,351,466	4,571,294	7,351,466
Investment in subsidiary companies	26	-	-	19,999,999	19,999,999
Investment in associate	14	-	-	1	1
Other investment	17(a)	1	1	-	-
Financial assets at fair value through profit or loss	17(b)	200,818,175	201,007,656	199,542,921	197,256,253
Loan to subsidiaries	19(c)	-	-	5,000,000	6,000,000
Deferred tax asset	23	47,928	47,928	-	-
<b>Total non-current assets</b>		<u>369,448,466</u>	<u>367,571,372</u>	<u>373,596,991</u>	<u>374,119,014</u>
<b>Current Assets</b>					
Cash and short term fund	18(a)	83,626,821	54,141,668	17,485,022	16,014,868
Deposit at licensed banks	18(b)	104,598,334	113,567,525	102,896,932	111,901,841
Trade and other receivables	19(a)	29,954,999	21,175,057	20,690,006	5,162,716
Amount owing from ultimate holding corporate	24	-	3,815,000		3,815,000
Amount due from subsidiaries	19(b)	-	-	10,107,133	7,720,829
Inventories	20	623,523	521,211	-	-
Tax recoverable		1,649,302	1,624,921	-	-
<b>Total current assets</b>		<u>220,452,979</u>	<u>194,845,382</u>	<u>151,179,093</u>	<u>144,615,254</u>
<b>Total assets</b>		<u>589,901,445</u>	<u>562,416,754</u>	<u>524,776,084</u>	<u>518,734,268</u>
<b>Current Liabilities</b>					
Government grant	22(a&c)	7,058,816	14,202,253	7,058,816	14,202,253
Provision for taxation		1,300,342	295,400	261,736	295,400
Amount owing to related companies	25(b)	23,612,712	26,090,160	23,612,712	26,090,160
Trade and other payables	25(a)	188,703,843	164,727,638	159,463,414	145,410,390
Finance lease payables	27	3,002,970	2,780,172	3,002,970	2,780,172
<b>Total Current Liabilities</b>		<u>223,678,683</u>	<u>208,095,623</u>	<u>193,399,648</u>	<u>188,778,375</u>



Company No.

200201002469 (570132-T)

**UNIVERSITI TEKNIKAL MARA SDN. BHD.**  
(Incorporated in Malaysia)

**Statement of Financial Position as at 31 December 2021 (Continued)**

	Note	Group		Company	
		2021	2020	2021	2020
		RM	RM	RM	RM
<b>Non-current Liabilities</b>					
Government grant	22(b)	153,771,796	161,842,892	152,744,299	160,344,889
Finance lease payables	27	1,568,324	4,571,294	1,568,324	4,571,294
<b>Total non-current liabilities</b>		<u>155,340,120</u>	<u>166,414,186</u>	<u>154,312,623</u>	<u>164,916,183</u>
<b>Total liabilities</b>		<u>379,018,803</u>	<u>374,509,809</u>	<u>347,712,271</u>	<u>353,694,558</u>
<b>Shareholders' Equity</b>					
Share capital	21	30,000,000	30,000,000	30,000,000	30,000,000
Retained earnings		25,284,754	147,609,618	4,883,813	135,039,710
Endowment fund reserves	28	142,180,000	-	142,180,000	-
		<u>197,464,754</u>	<u>177,609,618</u>	<u>177,063,813</u>	<u>165,039,710</u>
Non-controlling interests		13,417,888	10,297,327	-	-
<b>Total equity</b>		<u>210,882,642</u>	<u>187,906,945</u>	<u>177,063,813</u>	<u>165,039,710</u>
<b>Total equity and liabilities</b>		<u>589,901,445</u>	<u>562,416,754</u>	<u>524,776,084</u>	<u>518,734,268</u>

The accompanying notes form an integral part of these financial statements

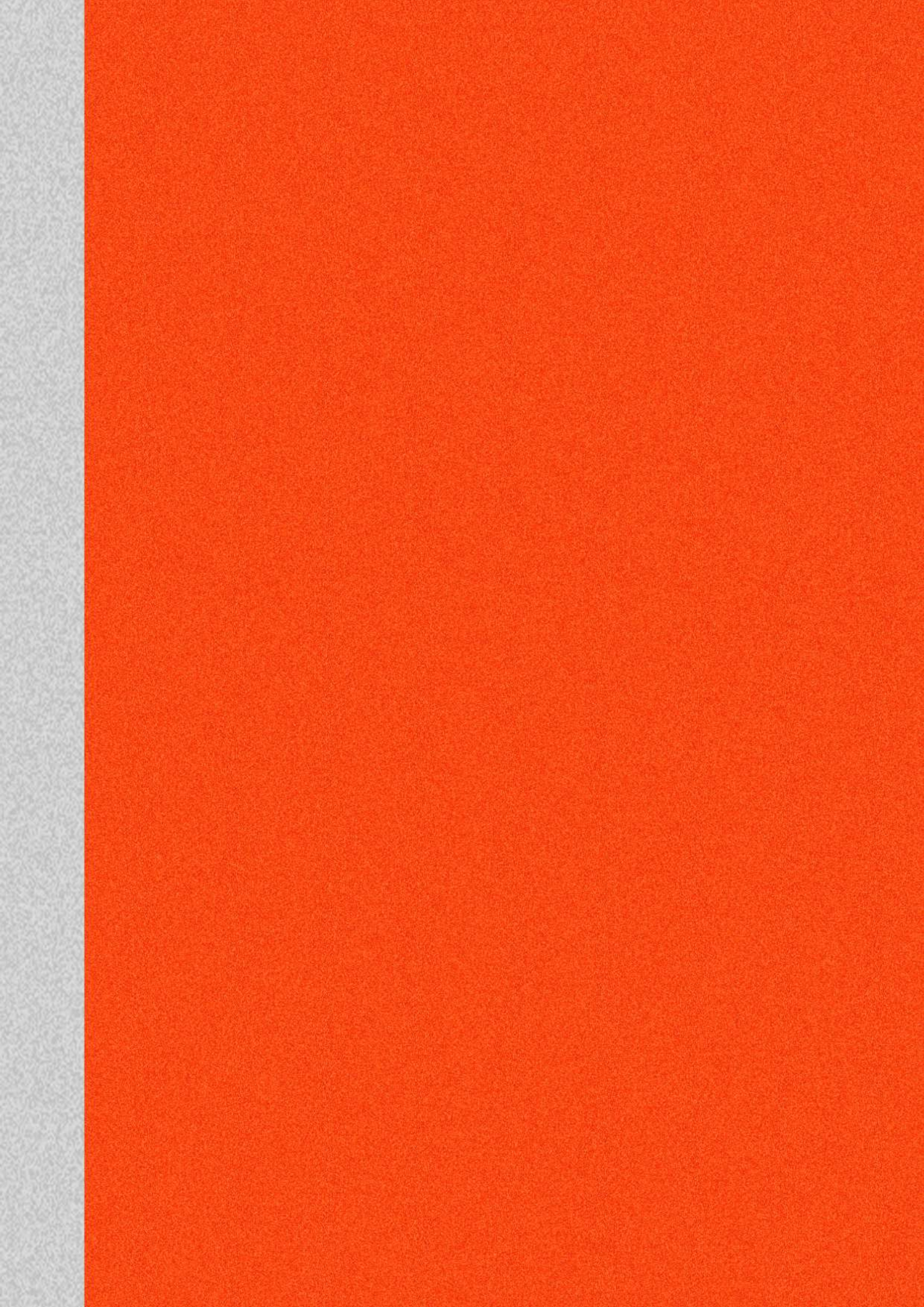


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