



Success Beyond
Graduation

Pg.03



You Are Your
Own Limit

Pg.11



UniKL Wins
Prestigious
Brand Award

Pg.13

Universiti Kuala Lumpur

XGRESS

Computer Modelling and Simulation
The Future of Innovation



UniKL
UNIVERSITI
KUALA LUMPUR

**DREAMS
DON'T WORK
UNLESS
YOU DO !!**

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| DRIVING INNOVATION

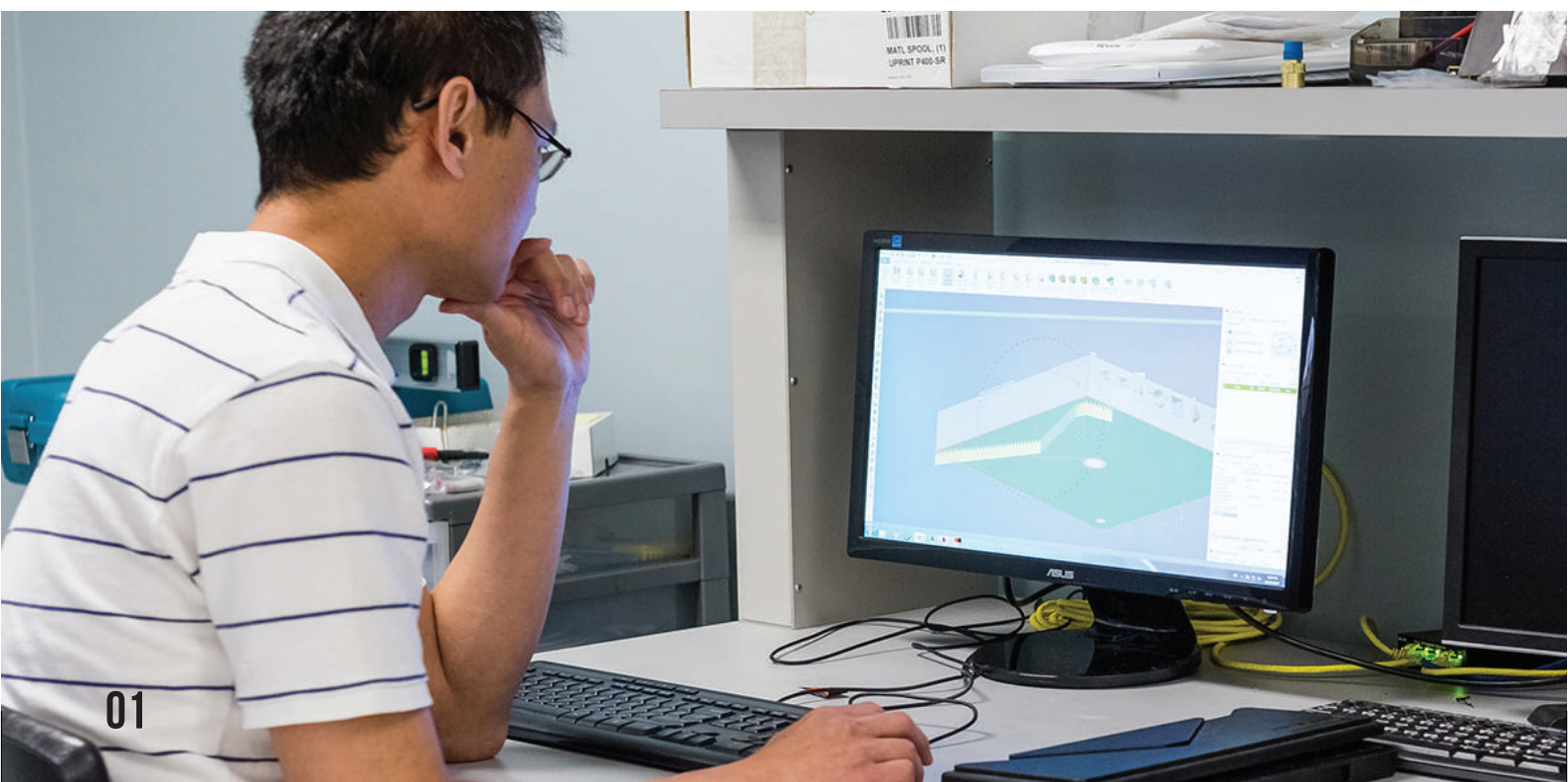
THE FUTURE OF COMPUTER MODELLING AND SIMULATION ENGINEERING

Computer modelling and simulation have taken momentous stride in recent years. Scientists can simulate weather patterns, learning causes leading to a nuclear war, even exploring the evolution of the universe, all with the aid of computer models and simulations. Researchers and scientists across fields have been applying computer models to help verify many theories while simulating real world scenarios, eventually predicting outcomes from precarious events. With the advent of more powerful microprocessors, scientists and engineers are embracing computer simulation as a mean for understanding more complex systems in the real world and even solve mysteries on a literally galactic scale.

With computer modelling and simulation becoming increasingly important in research, a consortium of universities joined forces to initiate the InMotion Project under the ERASMUS+ programme. InMotion, short for Innovative Teaching and Learning Strategies in Open Modelling and Simulation Environment for Student Centred Engineering Education, is a project involving three Malaysian universities (Universiti Kuala Lumpur, University Technology Malaysia and Universiti Teknologi Petronas), three European universities (Universitat Bremen, Germany, Universidad Nacional De Educacion A Distancia, Spain and Univerza V Ljubljani, Slovenia), as well as four Russian institutes (St. Petersburg Polytechnic University, Saint Petersburg State Marine Technical University, Novosibirsk State Technical University and St. Petersburg Institute for Information of the Russian Academy of Science). The partners in the InMotion project are among the leading universities in Computer Modelling and Simulation in Engineering (CMSE) priority field. The universities are active at International conferences and has a firm grasp of the knowledge, background and development of the subject matter.

Until recently, CMSE was only used in various engineering courses as an extra tool in addition to the traditional engineering subjects. CMSE has always been customised to meet the specific application area of an engineering course. However, computer simulation is now seen as an integrated tool that can handle almost any task in the application area.

The InMotion project sees all partner universities develop an enhanced CMSE syllabi which will include fundamentals of mathematical modelling as well as computer modelling for engineering applications at Bachelor and Masters levels. Unified tool requires the unification of teaching. This involves the selection of lecture materials comprising fundamental and universal set of problems with real examples, delivered using virtual labs with modern forms of computer-based training. The aim of the project is to create a unified fundamental learning environment in CMSE across different engineering areas.



The objectives of InMotion are to:

- Enhance the curricula with a new CMSE syllabi as a fundamental educational programme across three levels of studies (Bachelors, Masters and PhD) and development of guidelines for continuous education.
- Develop a common approach for student-centred learning in the use of modern computer simulation tools and packages for solving engineering problems across various application areas.
- Introduce research-based learning and eScience approach (computationally intensive science that is carried out in highly distributed network environment, or science that uses immense data sets that require grid computing).
- Develop eLearning Modules based on innovative teaching strategies and creative learning approach using Blended Learning model.
- Elaborate and implement new generation OMSE platform (Open Modelling and Simulation Environment) and MOOC (Massive Online Open Courses). This is for the qualitative improvement of the engineering education process and academic workflow among universities and stakeholders across the partner consortiums and EU member states.

It is anticipated that at the end of the project, seven sets of virtual labs for demonstrating visual modelling environments, such as of Rand Model Designer (RMD), MATLAB-Simulink, MODELICA, ISMA and Wolfram SystemModeler will be developed by participating universities in the consortium. The project will involve closer collaboration with Russian universities including establishing summer school programmes, mobility programmes and development of textbooks which will be published in both English and Russian languages.

With this development, the partner universities aims to:

- Improve the level of competencies and skills in CMSE by developing new and innovative education approaches and learning modules.
- Provide relevant learning activities in appropriate contexts for different types of learners.
- Ensure a quality higher education system in CMSE and increase its relevance to the industry and society.
- Promote an European dimension in higher education for the modernisation, accessibility and internationalisation of the higher education particularly of CMSE in Malaysia and Russia.

The project was officially launched on 30th of October 2016 and runs for three years. Through InMotion, engineering education and learning will be more flexible and effective following the choice of the student's desired studying area.

UniKL plays the role of a coordinator for the InMotion project in Malaysia. At the university level, the team is led by technical expertise from UniKL Malaysian institute of Marine Engineering Technology (UniKL MIMET) and UniKL Malaysian Institute of Information Technology (UniKL MIIT) assisted by the Centre for Instructional, Technology and Curriculum Development (CITC) and UniKL International Office (UIO). Overall, UniKL MIMET will be developing CMSE modules in Naval Architecture and Shipbuilding programme while UniKL MIIT will support the incorporation of the developed modules onto a SAKAI Virtual Learning Environment, blended learning concept, MOOC and other e-Learning aspects.

UniKL's involvement in the InMotion project provides the opportunity to increase its visibility on the international stage. As the nation's premier university in Higher Technical, Vocational Education and Training (HTVET), UniKL's participation in InMotion supports the university's We4Asia aspiration, which is to become one of Asia's top technical universities by 2020. The development of the InMotion project will eventually lead to increased attractiveness and competitiveness of partner universities through the offering of an education experience which corresponds to the development of current trends and challenges in the modern world.

With emphasis on applied and experiential learning reinforced by innovative research approach, UniKL continues its active pursuit in fostering linkages with institutions and industries worldwide, providing a truly global outlook in education. Through the success of InMotion, UniKL and the consortium of universities will have an adaptive CMSE learning environment both meeting the needs of today and oriented towards the technologies of tomorrow.

IN PURSUIT OF SUCCESS BEYOND GRADUATION

An estimated 200,000 fresh graduates enter the job market every year and competition for employment is uncompromising. There used to be a time when a university scroll was able to shift the social and economic standings of a family. It was a ticket to a better life, but not anymore.

Employers nowadays no longer judge potential employees on their graduation degree alone. In a report published by Bank Negara Malaysia in 2016 stated that, “Employers continue to cite significant skill gaps among new recruits”. A survey conducted by the World Bank and Talent Corporation revealed almost 90% of companies believe university graduates should have more industrial training by the time they graduate, and 81% of companies surveyed rated communication skills as a major deficit among graduates. Concerns on the marketability and adaptability of graduates into the labour market are frequently attributed to the state of the national education and technical and vocational education and training (TVET)” (By Dian Hikmah Mohd Ibrahim and Mohd Zaidi Mahyuddin, Youth Unemployment in Malaysia: Developments and Policy Considerations)

Universiti Kuala Lumpur, realising the need to confront this reality and deal with the expectations of an ever evolving working environment, is continuously introducing dynamic policies and programmes to strengthen its graduates to face the job market.

Prof. Dato’ Dr. Khairanum Subari, Deputy President - Student Development & Campus Lifestyle Division, shares her knowledge and wisdom of the meaning of Graduate Life Success, its motivation, inspiration, and expectation as UniKL continues to chart its path in becoming one of the top technical universities in Asia.

Defining Graduate Life Success

There are two definitions generally associated with the term Graduate Life Success. The first definition is success in postgraduate studies or the successful completion of a Master’s Degree or a PhD. The second definition is success in the student’s next course of action after graduating with a Diploma or a Bachelor’s Degree, either getting a job, becoming an entrepreneur, or even pursuing their studies further. UniKL subscribes to the second definition.

One of the important elements in measuring Graduate Life Success is employability and the starting salary of a graduate. For a Diploma holder, the national benchmark for starting salary is RM 1,500 whilst for a Bachelor’s graduate it is RM 2,500. However this amount is in fact quite low considering the expenses of a fresh employee especially in urban areas where the cost of living is high, on top of the need to pay back their study loan, rent, transportation etc. As such, success is when UniKL graduates not only gain employment, but earn a starting salary which is above the national benchmark. Besides these, there are also other important elements which we focus on to define Graduate Life Success.

Graduate
Life Success
means Dynamic
Progressive
Self-development
of a Graduate
Student



Prof. Dato' Dr. Khairanum Subari
Deputy President - Student Development & Campus Lifestyle

Another important element of GLS is positive career progression. As their career progresses, graduates must have what it takes to assume bigger responsibilities and leadership roles while leaving a positive impact in their organisation. Some might even go on to establish their own businesses, becoming a job provider rather than a job seeker. These and many other positive career progressions are all part of Graduate Life Success. In a nutshell, Graduate Life Success means dynamic progressive self-development of a graduate student.

Preparing Students for The Future of Employment

Industrial research trend revealed that by 2020, about a few billion people will be working from home. This changes the whole understanding of the term employment unlike how we experience employment today. For example, a computer programmer might be working not for one organisation but many different organisations from the comfort of his home. A Chartered Financial Analyst (CFA) for example, might be doing consultation work for company A, B, C and D. As such, they become specialists in their area of profession.

This scenario is already taking place in many parts of the world and the trend is growing worldwide. It might not be so apparent in Malaysia compared to developed countries like US, Japan, European countries etc but we are certainly moving there. At UniKL this is what we are preparing our students for. Our programmes are niche programmes and embedded with professional certification, this means our graduates are able to give professional assessment in their line of work, giving them an upper-hand in terms of employment.

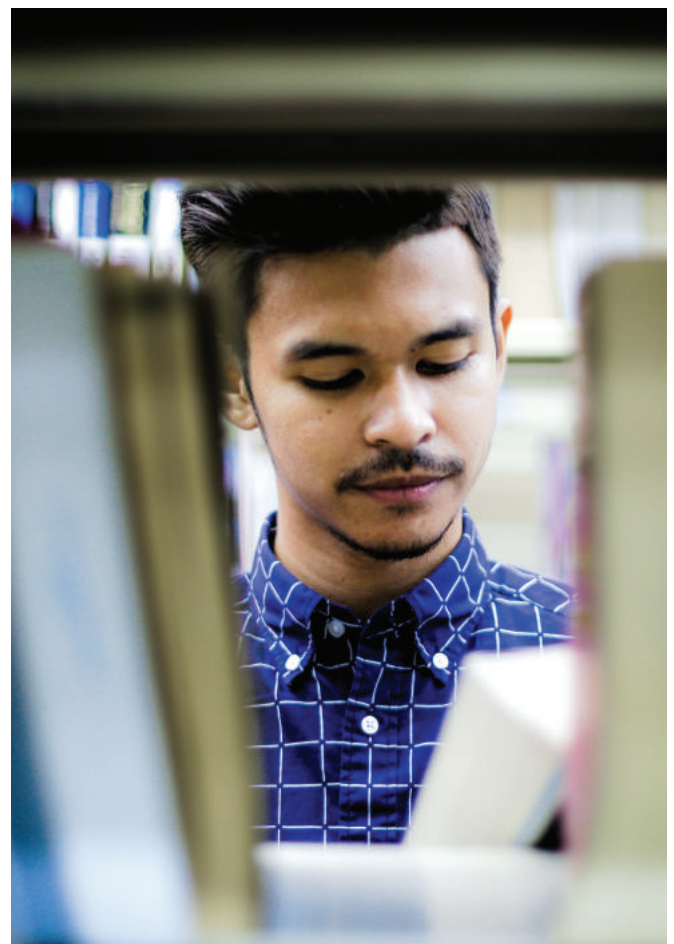
It is important to understand a well-known fact that university qualification alone is not enough to be successful. Our mission is to cultivate good values and develop the right characters in our students as base to achieve Graduate Life Success. We want students to have the best university experience which inspires them to achieve excellence in life. SDCL looks at the overall student experience from the moment they decide to pursue their education in UniKL, all the way through graduation, employment and beyond.

Our study showed that a common question asked to a fresh graduate during job interviews is “Do you have any work experience?” In most cases, a lot of fresh graduates fail in this part. Hence, the university decided to create platforms within the university for students to gain work experience so we introduced the Work-Study Scheme (WSS) and the Industrialmanship programme.

The Work Study Scheme is a programme where students can apply to work in any departments within the university while continuing their studies. These students will be paid according to the amount of hours spent on their job. This scheme helps students in not only gaining work experience; but also earn some extra pocket money.



UniKL ensures that students receive an engaged and holistic education to achieve their full potential.



SDCL delivers guidance, academic support, services, and resources to empower students for their Graduate Life Success



SDCL is committed in ensuring student's well-being and believe it is key for academic, career and life success.

Meanwhile, Industrialmanship is a structured internship programme to introduce students to the industry from as early as semester one up to their final semester. Students are exposed to the working environment early and this enhances their communication skill, problem solving skill, decision making, interpersonal skill, leadership capabilities etc. which are all essential employability skills.

The Journey Book

At the beginning of each new intake, new students will undergo a one week orientation programme known as WOW or Welcoming Orientation Week. WOW because that is the impression we want to leave in students when they join UniKL. During WOW!, each students will be provided a book called the "Journey Book". This book acts as a diary or journal where students will record all their activities and achievements throughout their years in UniKL. This journey book will be monitored and evaluated from time to time. If a student's journey book is empty after a certain period, the SDCL team and counsellors will trigger an intervention action to rekindle the student's documentation effort. The journey book is a physical evident and manifestation of their transformation and achievements in UniKL. Students will come to see that they are actually mapping their own journey and designing their own future.

For a student, the life cycle is such that the first year is about self-managing and self-discovery. The second year is more about exploring, and as one becomes a senior in their third year, they take on leadership roles and guide their juniors. In the final year, they are already preparing for life after graduation. The journey book is not only a piece of documentation but is also a point for reflection on

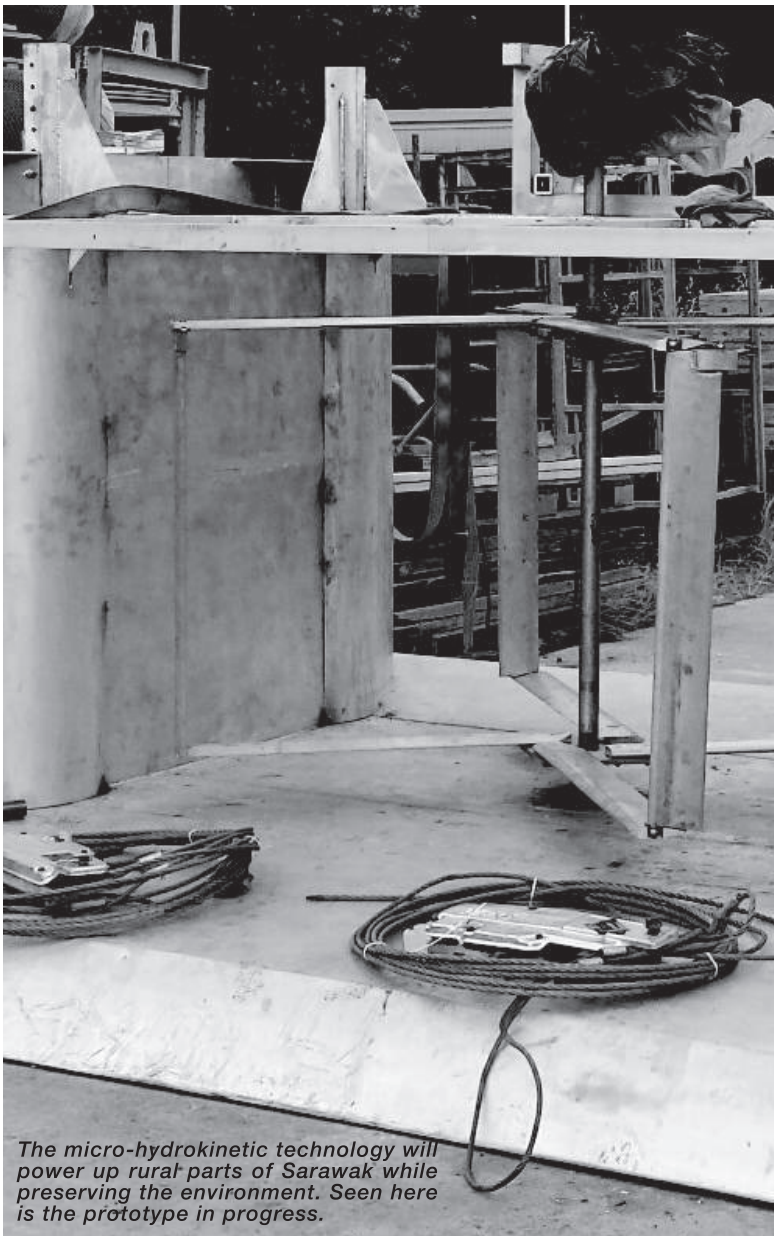
what they have done and achieved throughout their years in UniKL. So my advice to students is don't have regrets. Use your time and energy wisely to achieve great things and create memories which will be cherished for the rest of your lives.

Challenges of SDCL in enhancing Graduate Life Success

We want students' university experience to be as memorable as possible. This can be in the form of customer relations services, fulfilling their academic potential, supporting their talents and encouraging their passion in non-academic areas i.e sports, performing arts etc. For this to happen, everyone in the university from every department and every level must play their part in helping to make the students life at UniKL more meaningful. We cannot work in silos and expect great things to happen.

The programmes and activities under the Graduate Life Life Success initiative is new and unconventional. There are no reference point to fall back on so the level of understanding amongst staff varies throughout the university. We are still at the infant stage of its implementation, so along the way we will improve from trial and error and hopefully get everyone in UniKL to be on board and give their fullest support for this initiative to reach its true potential.

Some might say the grand idea and design of Graduate Life Success seems a bit too far-fetched, but I say "nothing is impossible to a willing mind". At the end of the day, our ultimate aim is to not only produce graduates to fulfil the demands of the job market but we want them to Live a Life of Significants. They must develop to be human beings who are the best amongst them and bring positive impacts to their family, community and country.



The micro-hydrokinetic technology will power up rural parts of Sarawak while preserving the environment. Seen here is the prototype in progress.

RESEARCH AND INNOVATION HIGHLIGHT

Sarawak is one of the two Malaysian states located in the island of Borneo rich with history, culture and heritage. Geographically, Sarawak covers nearly 124,450 square kilometres of land with tropical and equatorial climate which is divided into three ecoregions. The coastal region is mostly low-lying and flat with swamps and large wet areas. Hilly terrain covers much of the populated land where cities and towns are located. The third region is the mountainous region along the Sarawak–Kalimantan border, where a number of rivers flow through. The Rajang River is the longest river in Malaysia, measuring 563 kilometres including its tributary, Balleh River.

Sarawak's vast land mass, geographical factor and scattered population poses a major challenge in supplying power to the whole state especially to rural and interior areas. The remote parts of Sarawak still lack access to electricity including villages, longhouses and schools as they are located far off the grid connection. The state government assessed that to supply electricity throughout Sarawak by grid connections and alternative schemes will cost an estimated RM8 billion.

UNLEASHING THE POTENTIAL OF MICRO-HYDROKINETIC TECHNOLOGY FOR RURAL APPLICATION

According to Sarawak Energy, the state's energy development company, some 400 villages in the remote heartlands of Sarawak are impossible to connect to the main electricity grid. The extremely rugged and challenging terrain means these communities cannot be supplied with electricity by extending distribution poles and power lines.

A field study on rural electrification was recently performed by a team of researchers from Universiti Kuala Lumpur at longhouse communities beyond the lake of Batang Ai hydroelectric dam, to the north along the Engkari river system. Engkari River is one of the two tributaries of Batang Lupar, the largest river in Sarawak. The other main tributary is known as the Batang Ai. Engkari River accommodates a number of Iban settlements or longhouses along the river's bank. The main focus area of the field study were Nanga Sepaya, a 52-door longhouse community and Nanga Ukom, a 38-door longhouse community located approximately two hours boat ride up river from Batang Ai dam's jetty.



The Sarawak rivers are potential power source for green and renewable energy.

For the longhouse communities along the Engkari river, the source of power comes from diesel generators which operates 2 to 3 hours a day. However, the cost of operating a diesel generator is relatively expensive considering the fluctuating diesel price and the high cost of transporting the fuel to interior areas.

Installing other alternative power sources like the solar panel and wind generators at the Engkari river system is not practical due to the low hours of sun exposure and inadequate wind. Conventional hydro-energy potential is also difficult to harness along the Engkari river system due to the lack of elevation difference which is required for generating power through a regular run-of-river system. In addition, the changing water levels according to seasons does not help the cause.

Another challenge is the Engkari river system also carries large amounts of vegetation, debris and flowing objects. Soil sediments and other smaller particles in the water will increase the erosion of the hydropower turbine while the flowing debris can cause damages to the installation. Furthermore, the water also transports objects from flooded areas into the river which might collide with the turbine or attachment device. This created a desire for the team to further develop and improve techniques to utilise the kinetic energy in flowing water where there are very small differences in water level available.

Research team

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Micro-hydrokinetic technology was found to be an attractive alternative scheme as a run-of-river small scale hydropower to be employed at the Engkari river. The micro-hydrokinetic system is similar to wind turbines in the principles of how they operate, as it converts kinetic energy in moving fluid (river) to mechanical shaft energy. Small hydro system power generators mainly depends on the availability of water or stream flow. The turbine can be placed at areas which have deep enough water level as the variation of water level is not an issue.

The micro-hydrokinetic systems' advantages over other systems include its ease of installation, transportability and effortless dismantling and re-assembling of components, among others. As it is supported on a floating structure, the system only requires an anchor or cable to hold the system in position with the electrical cable running either overhead or along the bottom. Since the system extracts energy from the naturally occurring kinetic energy in the moving water, there is very little environmental impact on the river. Small hydro has been identified as a potential alternative to conventional electricity generators to support rural electrification off the grid. By implementing the micro-hydrokinetic system it can minimise the dependence on fossil fuel as well as help reduce environmental pollution.

Conclusion

Small-scale hydropower is one of the most economical and environmentally friendly technology to be considered for rural electrification project. This system is seen as a more viable alternative energy source for Sarawak's rural areas as the state government looks to power-up over 8,700 households in the 300 isolated villages which are still without 24-hour supply. The Beta prototype of the system is currently in development and is expected to be ready for full implementation in Baram Sarawak by December 2017. Hopefully with this technology, we are able to improve the living conditions of rural residents and remote communities of Sarawak and adopt the technology in other similar communities around Malaysia.

AMPHIBIAN ROVER - CRAWLING R.O.V. FOR SEABED DISCOVERY

RESEARCH AND INNOVATION FOR COMMERCIALISATION

The fact that 71% of the earth's surface is covered with water is already well-known, but the reality that science have only managed to explore 5% of it until now is quite perplexing. The reasons are simple, underwater exploration is expensive, time consuming with little return of investment. The ocean's dynamics and extreme conditions often results in ocean exploration being almost impossible for humans, especially with the present tools and machinery. However, this has not stopped researchers and explorers worldwide from inventing new technologies and equipment to withstand the harsh conditions of the ocean's realm and advancing in ocean exploration.

This inspired a group of researchers from UniKL Malaysian Institute of Marine Engineering Technology (UniKL MIMET) led by Mr Ahmad Makarimi, research coordinator and lecturer together with his team of students - Maisarah Hanani Mohd Shah (Diploma of Engineering Technology in Ship Design), Muhammad Farhan Yazid (Diploma of Engineering Technology in Ship Construction and Maintenance) as well as Khairul Arief Abu Jalil, (Bachelors of Engineering Technology in Marine Electrical and Electronic) to invent the Amphibian Underwater Remotely Operated Vehicle - ROV for seabed discovery.

Known as UniKL Amphibious Research Crawler I (UARC I), it is designed to withstand Malaysia's irregular seafloor terrain and is able to operate at a depth of 15 meters underwater. The vehicle is also equipped with a video camera and is controlled using a cable up to the distance of 15 meters. The innovation was developed based on the assessment that underwater operations and exploration costs involving existing technology is very expensive. The lack of local experts also forces local companies to depend on specialists from abroad.

Underwater ROVs have a significant role and are in high-demand in marine and offshore exploration. The UARC 1 is designed with minimum cost using materials which are easily available in hardware stores. As such it is cheaper compared to the commercially available ROV's in the market. Initial test was done 5 metres below sea level and the results were promising. The traction tire and materials used responded well to the underwater conditions and allowed the UARC 1 to travel on the seabed floor efficiently.

The development and improvement of the underwater crawler is currently in progress. The immediate aim is to create a crawler which is able to operate and travel 30 metres below sea level as well as on multiple seabed surfaces. Its commercialisation prospects include for the Oil & Gas Industry, marine research and conservation as well as search & rescue.

The innovation has also won local and international research and innovation awards notably the Gold medal at the 2th International Invention and Exhibition (ITEX 2016) and the silver medal at Malaysia Technology Expo 2016.

“UARC 1 IS CREATED AS A VEHICLE WHICH WILL BE BENEFICIAL TO ALL MARINE RELATED INDUSTRIES.”



UniKL Amphibious Research Crawler I (UARC I)



The amphibian rover which is fitted with a camera can travel on land and in water efficiently

Conclusion

The vast ocean continues to present its own aura of mystery and source of inspiration. It continues to play a very big part in our lives, driving weather, regulating temperature, and supporting all living being.

Throughout history, the ocean has been a vital source of sustenance, transport and commerce. As men and science science continues to explore the uncharted waters, technological advancement in ocean exploring will reach new heights, and hopefully UniKL MIMET will one day be at the forefront of it.



UARC 1 by UniKL MIMET has won numerous innovation awards locally and abroad.

YOU ARE YOUR OWN LIMIT

UniKL STUDENT AMBASSADOR

Muhammad Hafiz bin Jamali
National Para Athlete ParaAsean KL 2017
Cycling (Road Race & Time Trial)

On 19th of September 2017, Hafiz Jamali will don the national colours representing Malaysia at the KL2017 ParaSea Games, competing alongside athletes from around the region. This is the remarkable story of Muhammad Hafiz Jamali, a UniKL MFI student, who lost an arm in an accident, but rose to achieve what some of us can only dream off. This is the story of a boy who refused to let other people decide what is impossible for him.

Hafiz Jamali is the eldest son from 6 siblings born to a pair of teachers from Mentakab, Pahang. Hafiz was 7 years old when his family relocated to Sungai Besar, Selangor. Ever since young, Hafiz has always demonstrated keen interest in sports and led an active lifestyle. He has gone on to represent his school in rugby and played many other sports out of pure passion and love for the outdoors.

After completing high school, the soft spoken young man went on to continue his tertiary education via the TVET route (GIATMARA - ILP - ADTEC - UniKL). He registered himself into Kuala Lumpur Industrial Training Institute (ILP Kuala Lumpur) for a mechanical maintenance programme. Hafiz, was living a normal life, with his own dreams and aspirations - until tragedy struck one fateful day.

“I could still remember that day very well,” he reminisces. “I was already in my final year at ILP. I was on my way to college that morning to hand over my clearance form and other related documents before beginning my industrial training the following day. I was riding my motorcycle with another friend as a pillion rider. I somehow fell asleep while riding on the highway, and it happened within a split second. The next moment, I woke up lying by the roadside with a broken helmet, torn clothes and bruises all over my body.”

“My wrist felt numb, the sensation was as though the tingling feeling one gets after lying on your arm for a certain time. Upon checking, my left hand was not there anymore. It was severed at the wrist due to the impact. I could only shake my head in disbelief. My friend, who suffered a broken arm and dislocated elbow, broke down upon seeing my condition.”

“Strangely there was no pain at the severed part, just that tingling feeling. It might be because of the way my hand detached instantly from the impact. I was rushed to the hospital, but unfortunately it was too late for me. My arm was already infected and turning black. The doctors had to amputate my arm just below my shoulder in order to save my life.” Hafiz was instructed to rest and recover before he could return to college and complete his education.





It took him an extra 7 months to complete his ILP training, after which he continued his Diploma at ADTEC, Melaka. At ADTEC, he rekindled his interest in sports after beginning to play badminton with his normal friends using his able hand.

He later joined UniKL MFI and continued his Bachelors in Engineering Technology majoring in Mechatronics. At MFI, he started to familiarise himself with sports like duathlon and triathlon, having been influenced by friends. From there, he went on to discover his new found love for bicycles and cycling. He started participating in cycling events throughout the country, riding along able bodied cyclists in varsity meets and open events. He also gathered like-minded friends at MFI and formed a cycling group to ride to places like Port Dickson, Bentong and even Melaka during weekends or holidays. One of his proudest accomplishments was completing a 15 day cycling event around Peninsular Malaysia called “Kayuhan Trans 1 Malaysia” organised by the National Heart Institute and Universiti Teknologi Malaysia (UTM) to collect funds.

In most cases, the physical and psychological scar after such an ordeal and the thought of not having an arm for the rest of your life could lead to post traumatic disorder and depression, but not for Hafiz. He took his fate by the chin and braved through his new condition by learning and adapting to his surroundings. “Being a disabled cyclist poses its own challenges. For instance a disabled cyclist needs a different technical and mechanical bicycle configuration compared to a normal rider, and modifying can be very expensive. Balancing a bicycle with one hand is also an issue, especially if you are riding downhill or hit a bump. I have fallen over many times and got injured, but normally I will just get up and dust myself off.” He started making friends and build networks with folks who share similar interest from all around the country.

“In Malaysia, most cycling events, if not all are open events. There are no, or at least that I know off, cycling events specifically for disabled athletes. But this is not an issue as there are quite a sizable number of disabled cyclists joining these types of events and along the way I met and befriended a few national para athletes as well.”

“We shared stories, tips and experiences, and this got me interested in taking my passion to the next level. Under normal circumstances, sporting talents are spotted in open events and national level sports meet. But for para-athletes, there are not many competitions specifically for us to compete and show our talents. So I asked them about the national para-athlete programme and they connected me to the National Sports Council’s (NSC) Liaison Officer for Para-Games.”

“After speaking to the officer, I was told that my name has been on their radar for almost two years! Apparently they have been following my progress through the various cycling events I have competed in. This truly surprised me! The officer asked whether if I would be interested in representing the country, to which I replied YES without any hesitation. A week later I received a letter from NSC asking me to join the centralised training for KL 2017 Para ASEAN Games. The rest as they say, is history. It was all surreal at first. But I thank Allah for this opportunity.”

“When I first began cycling, I received quite a number of cynical looks from people. Some questioned my passion while others were not convinced about my ability and thought that I might slow them down during our cycling outings. Nevertheless, I proved them wrong on many occasions, even outpacing them at some instances. So my advice to those out there, no matter what you do, regardless of your ability or disability, do not doubt yourself. I never doubted my abilities, nor did I let others set the limits for me. You set your own limit, and go as fast and as furthest as you can. You will never know your true ability until you test yourself against your limits.”

Hafiz will represent the country in Road Race & Time Trial events, “I am targeting a medal in this Games, be it Gold, Silver or Bronze, I will give my best for a podium placement. The next tournament I am targeting is the 2018 Asian Games and Olympics 2020. I hope to go far in this field.”

UniKL AWARDED THE BRANDLAUREATE BEST BRAND AWARD

MAJOR AWARDS AND RECOGNITIONS



Datuk Salmah Hayati Ghazali, UniKL Deputy President receiving the award on behalf of UniKL.

KUALA LUMPUR, 22 May – Universiti Kuala Lumpur marked another milestone as it received the The BrandLaureate Best Brands Award 2016-2017 in Corporate Branding, BestBrands in Education – Entrepreneurial Technical Learning.

The award ceremony, themed “Take responsibility of your brand's integrity, quality credibility,” was organised by the Asia Pacific Brands Foundation. It was held at the Majestic Hotel Kuala Lumpur and was graced by former Prime Minister Tun Abdullah Ahmad Badawi who is also the foundation's patron, accompanied by wife Tun Jeanne Abdullah. The ceremony was also attended by key brand and business leaders from various sectors nationwide.

The BrandLaureate Awards is the only regional branding award with global recognition. The award is a recognition and testament to UniKL's growing brand reputation in the national education sphere. Other notable brands which also won awards under their respective categories were brands like Adidas, Petronas ,TNB, and Public Bank.

The BrandLaureate Awards recognises the efforts and commitments of companies in promoting and developing their brand names



Datuk Salmah and Prof. Dato' Dr Khairanum, Deputy Presidents of UniKL posing with the 24k gold plated statue at the Gala Dinner.



ASIA FOOD – THE LEADING HALAL FOOD CENTRE IN ASIA

UniKL EVENTS & HIGHLIGHTS

Kuala Lumpur – It is estimated that Small Medium Enterprises (SMEs) contribute to almost 99.2% of business establishments in Malaysia and the food processing sector accounts for the largest sector among SMEs. With Malaysia emerging as one of the major players in the Halal industry globally, the growth opportunity for food manufacturers in Malaysia is immense. Realising the potential, MARA developed the 'Inkubator Teknologi Makanan MARA' or INTEM, now known as the Asia Food Validation Centre or ASIA FOOD - under the purview of UniKL Malaysian Institute of Chemical & Bioengineering Technology (UniKL MICET).

Located at Taman Perindustrian Kepong, Selangor, ASIA FOOD is a manufacturing, processing and validation centre developed by MARA to provide food entrepreneurs with comprehensive training, support and consultation services in food technology and manufacturing. With state-of-the-art facilities and expert trainers from UniKL who are experienced and certified in their field, ASIA FOOD is able to provide:

1. Halal & technical consultation
2. Food chemical & bioanalysis services
3. Food processing & manufacturing facilities
4. Packaging testing and analysis services
5. Training on technical and food technology
6. Good Manufacturing Practice (GMP) consultation

With ASIA FOOD existing collaboration with Joint Institute for Food Safety and Applied Nutrient, University of Maryland and in the pipeline to expand the collaboration and partnership with relevant parties between ASIA FOOD and Ministry of Health's Department of Food Safety and Quality, Halal Industry Development Corporation (HDC), Department of Chemistry, ASIA FOOD is progressively towards being recognised as an Accredited Certification Body (ACB) by the Department of Standards Malaysia (DSM) and Certification Body (CB) by the Ministry of Health. By strengthening this partnership also, ASIA FOOD are able to provide guidance on business registration and licensing application. This will pave way for ASIA FOOD to become a ONE STOP CENTRE and world-class Halal Validation Centre, as well as a centre to develop competent human capital who are knowledgeable in Halal food technology and manufacturing.



The centre comes with a state-of-the-art chemical and bio analysis lab.

Besides training and consultation, ASIA FOOD also actively produces its own brand of high-quality food products for commercialisation. The products are results of UniKL R&D initiatives where researchers and academicians in the related field actively produce innovative food products which have huge commercial value. These products are then mass produced and commercialised as a source of income for ASIA FOOD and UniKL.

In addition, ASIA FOOD acts as a teaching factory for UniKL lecturers and students where they are exposed to the actual food production methods and industrial practices. This Production Based Education (PBE) leads to UniKL students obtaining a holistic education as they are able to see for themselves and apply the theoretical knowledge taught in classrooms in actual industrial settings. They have also kept abreast with the latest technology and advancement in factory production.

Besides advice and assistance to improve manufacturing process flow and business productivity, ASIA FOOD also makes sure products which are produced abides by the international food safety and quality standards and this increases the product's marketability and competitiveness in the global Halal market.

The Halal food market is estimated to be worth around USD580 Billion per year worldwide and it is steadily growing. However, according to the Halal Market Economy Specialist – for everyone Halal Food Product on the supermarket shelves, in comparison there are 86 Kosher products (food prepared according to the requirements of Jewish law) in the United States. The supply for the Halal Food market worldwide is not able to meet its demand currently. The government through MARA hopes to plug this hole and produce more entrepreneurs in food technology field who can become global players, and ASIA FOOD hopes to be the catalyst towards this.



Students are exposed to real manufacturing and production processes.



Entrepreneurs are able to increase their productivity and quality through technology and innovation.

Through this, ASIA FOOD also supports UniKL's Industrialmanship programme where students are required to attend industrial training beginning as early as semester one, giving them exposure to a real working environment early on. This provides them with the hands-on knowledge and experience and this will eventually increase their employability prospects upon graduation.

Through an A to Z, all-inclusive training and consultation services, ASIA FOOD hopes to ensure the sustainability of start-up businesses in food processing and manufacturing as well as introducing new technology and innovation into existing food enterprises.



ASIA FOOD offers premium and traditional cookies at an affordable price. For more info please contact (603) 6261 5209 or email at farah.dayana@unikl.edu.my / nuraqilah@unikl.edu.my

UniKL FOSTERS PARTNERSHIP WITH HONG KONG'S BIGGEST RAILWAY OPERATOR

Kuala Lumpur, 10 April – Universiti Kuala Lumpur today established a partnership with Hong Kong's biggest railway operator, MTR Hong Kong with the signing of a Memorandum of Understanding (MOU). This collaboration will pave way for joint development and delivery of academic programmes and professional courses in rail technology at UniKL's newly established Asia Rail Institute. The signing ceremony took place at UniKL's City Campus in the presence of Datuk Salmah Hayati, UniKL's Deputy President - University Development & Sustainability and Mr. Morris Cheung, President of MTR Academy (Hong Kong) Company Limited.

In MTR Hong Kong, UniKL boasts a major player in the Asian rail industry as a partner, having been in operation for 35 years. MTR Academy Hong Kong comes with a solid experience and strength and together both parties will jointly develop undergraduate and postgraduate academic programmes and other related courses with the structure and syllabus tailored to the need of the rail industry in Malaysia and Asean.

This collaboration also offers MTR Academy a platform to promote their management and technical rail programmes and courses to other Asean countries via UniKL's network. In return, UniKL will benefit greatly through MTR's network with renown universities worldwide especially in the UK, China and Australia where UniKL can proffer joint venture degree programmes.

In 2016, MARA through UniKL established the Asia Rail Institute to offer industry oriented programmes and courses to develop skilled workforce for the rail industry. Rail transport is becoming a major mode of transportation not only among urban dwellers but also cross-country travelling. Based on the strategic direction of the national rail industry, it is estimated that by 2030 the total amount of investment in rail infrastructure is going to cost more than RM 160 billion. This brings along the demand for competent and knowledgeable human capital in order to lead and manage the rail networks under various critical sectors.

Besides MTR Academy Hong Kong, Asia Rail has established global network with key rail industrial players and institutions including collaboration with International Railway Signalling Engineers, University of Sevilla, ADIF SPAIN, DB Rail Germany, and JR Kyushu, Japan.



Datuk Salmah Hayati, UniKL Deputy President and Mr Morris Cheung, President MTR Academy Hong Kong exchanging the MOU document.

At the national level, UniKL works together with key rail companies and institutional partners such as Rapid Rail, Prasarana, KTMB, CMC, Thales, Siemens Malaysia, Bombardier and Hartasuma, among many others.

UniKL hopes that this strategic collaboration with MTR Academy Hong Kong will benefit the rail industry and society in the region especially in the areas of education, R&D, social and culture.



Delegates from UniKL IPROM and MTR Academy Hong Kong in a commemorative picture.

I CÉRÉMONIE DE CONVOCATION FOR FRANCE BOUND STUDENTS.

BANGI, 3 May – The halls of UniKL Malaysia France Institute witnessed the completion of another group of the Pre-France programme, cohort PF14 of the engineering students and cohort 3 of the Political Science and Business Management Programme (PSBM).

Having completed their Pre-France programme at UniKL MFI, a total of 38 students will be flying to France to further their studies in their chosen fields of engineering, business or political science. 14 students will be pursuing their undergraduate studies at IUT Aix-Marseille in Mechanical Engineering while the rest will be studying at IUT Paul Sabatier Toulouse in Chemical Engineering (10 students) and UT de la Rochelle in Electrical Engineering (12 students). The 3rd Cohort of PSBM students (2) will be continuing at Grenoble Ecole de Management, France.

The French Preparatory programme was initiated to facilitate further studies in France especially in the field of engineering. The close relationship UniKL has with their French counterparts in Malaysia and also in France have ensured the success of this programme. This success has led to bigger possibilities and opportunities as more universities in France are looking to partner and receive UniKL students.

To date, almost 98% of UniKL students sent to France either in Engineering, Political Science or Business management have succeeded in their tertiary education, with some even getting high rankings at their universities.

| UniKL MITEC's WARRIOR PRINCESS

7 May, Batu Pahat, JOHOR – Having a national athlete within your ranks is admirable. But having a world champion takes it to a whole new level. Fatin Farhana Fikri of UniKL MITEC did just that when she clinched the Gold Medal in International Silat Championship 2017 (Deputy Prime Minister's Cup) for Women Solo Creative category.

The third year student in Industrial Logistics was representing the country for the second time in the Silat Competition. Congratulations Fatin and thank you for making Malaysia and UniKL proud.





Prof Dato' Dr Mazliham Mohd Su'ud exchanging the MoU document with the counterpart from Moda Pelle Academy witnessed by Minister of KKLW

UniKL: DRIVING EXCELLENCE IN CREATIVE AND PRODUCT DESIGN

UniKL IPROM REBRANDED TO UniKL MALAYSIA ITALY DESIGN INSTITUTE (MIDI).

Milan, ITALY, 19 May – As the nation’s premier institute in Higher Technical Vocational Education and Training (HTVET), Universiti Kuala Lumpur (UniKL) continuously develops new academic programmes and courses in critical areas as outlined under the NKEA. In the latest development, UniKL formed collaborations with various renowned education and training institutes in Italy to drive human capital development in the creative and design industry. This network of collaboration is part of the plan to strengthen UniKL Institute of Product Design and Manufacturing (IPROM) which will be rebranded to UniKL Malaysia Italy Design Institute (Midi).

Italian products have been benchmarked worldwide for its quality and design and is among the most exported products in fashion and industrial design in Europe. Among its notable brands include Ferrari, Lamborghini, Maserati, Valentino, Versace, Prada, Armani and Dolce & Gabbana, just to name a few.

The establishment of Midi through the cooperation between UniKL and Italian training and higher learning institutions specialised in creative product design provides a strong platform for the transfer of knowledge and technology, training of experts and academicians. This will further enhance UniKL’s offerings of professional programmes and courses related to creative and industrial design.

Among the renowned industry and institutions in Italy which UniKL has formed collaborations with includes Moda Pelle Academy, Instituto Marangoni, European Institute of Design, Politecnico di Milano and Politecnico di Torino. The signings of the collaboration documents were witnessed by Rural and Regional Development Minister Datuk Seri Ismail Sabri Yaakob, who is also UniKL Pro Chancellor, joined by former Director-General of MARA and UniKL Pro Chansellor, Datuk Ibrahim Ahmad.

The collaboration between UniKL and reputable Italian learning institutions will also cover academic development in UniKL, exchange of expertise as well as development of mobility programme for students and academic staff. The establishment of UniKL MIDI will act as a catalyst to further strengthen the national design technology and creative industry. It will also create a path for further collaborations between both countries in wider areas including lifelong learning, R&D, social, culture and entrepreneurship development.

UniKL ENHANCES PARTNERSHIP WITH INTERNATIONAL AIRCRAFT GIANT



YB Dato' Sri Ismail Sabri, Minister of KKLW looks on the Airbus computer model with Prof. Dato' Dr Mazliham Mohd Su'ud, UniKL President and CEO as well as Datuk Ibrahim Ahmad, former Director General of MARA.

Toulouse, FRANCE, May 22 - YB Dato' Sri Ismail Sabri Yaakob, Minister of Rural and Regional Development together with delegates from MARA and UniKL visited the Airbus facility in Toulouse in conjunction with a working visit to Italy and France. The visit further enhanced the existing collaboration between Airbus and UniKL especially for the industrial training opportunity for UniKL students as well as the proposed expansion of the Airbus vendor development in Malaysia.

Through the cooperation with Airbus, MARA is focused in the development of the Aircraft Maintenance, Overhaul and Repair (MRO) sector. This is part of MARA's active effort in becoming a major player in the aircraft and engineering industry of the region.

WORLD'S LARGEST AIRCRAFT COMPONENT MANUFACTURER TO OPEN FACILITIES AT UniKL MIAT



YB Minister looks at the design and engineering marvel by SAFRAN. With him is Jean-Luc Bérard, Safran Vice President, Human Resources.



Nice, FRANCE, May 23 - The existing close ties between UniKL and SAFRAN Aircraft Engines (Safran AE), among the world's largest civil, commercial and military aircraft engine components manufacturer was strengthened today through a Letter of Intention (LOI) signing ceremony witnessed by YB Dato' Sri Ismail Sabri, Minister of Rural and Regional Development.

The LOI will see more UniKL students' perform industrialmanship training at Safran AE's facilities. Safran AE has also expressed their commitment to build new MRO facilities at UniKL MIAT's hangar in Subang, which will become a teaching and learning centre for students. These are preludes to many other ongoing commercial and non-commercial collaboration and development projects between MARA Group and Safran AE.

UniKL BOLSTER TIES WITH FRENCH COUNTERPART IN PROVIDING WORLD CLASS EDUCATION



Prof. Dato' Dr. Mazliham Mohd Su'ud signing the agreement with his counterpart from the Ministry of Higher Education and French Research

Nice, FRANCE, May 24 - UniKL continues to boost its ties with key strategic partners in France as the Ministerial visit witnessed the establishment of three more important MOA's mainly between UniKL and the Ministry of Higher Education and French Research, UniKL and Conservatoire national des arts et Métiers (CNAM). Under the agreement, the French ministry will continue its commitment in sponsoring French specialists to serve and impart their expertise at UniKL MFI.

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CNAM meanwhile is UniKL MFI's strategic partner since 2000 and was involved in the development of the Bachelor of Engineering Technology in Industrial Refrigeration and Air-Conditioning programme. The latest MOA enhances their existing partnership in joint research activities and programmes as well as postgraduate student supervision.

University of Nice is also a long time strategic partner of UniKL MFI and was instrumental in the development of Industrial Automation and Robotics Degree programme.

In signing the latest MOA, both parties will further strengthen their cooperation through joint research and supervision of Masters and PhD programmes.

UniKL highly values its relationship with its French counterparts and has seen the relationship grow from strength to strength throughout the years. These strategic partnerships are testament to UniKL's capability, credibility and ability in offering truly world class programmes, boosting UniKL's position in the global HTVET environment.



The relationship between UniKL and its French counterparts have grown from strength to strength.

UniKL STRENGTHENS TIES WITH THALES, THE WORLDS' LEADING ELECTRONICS SPECIALIST



Prof. Dato' Dr. Mazliham Mohd Su'ud exchanging the signed partnership documents with Thomas Pistre, Thales Malaysia Country Director.



Nice, FRANCE, 24 May – Universiti Kuala Lumpur and Thales Group, one of the world's leading electronics specialist company for the aerospace, military and transport industry has formed a strategic partnership by the way of a Letter of Intent (LOI) to collaborate in enhancing the rail programme at Asia Rail Institute.

Thales Group has expressed their commitment in developing a Center of Excellence in the field of Signalling and Cyber Security at UniKL Asia Rail Institute. They will be involved directly in the Signalling programme by contributing and supplying the required equipment for the success of the teaching and learning process.

This collaboration will enable UniKL to be among the major contributors in the transformation of the country's transportation landscape, a major focus of government going towards a developed nation.

UNIKL TO PLAY A HUGE ROLE IN HUMAN CAPITAL DEVELOPMENT FOR THE NATION'S GROWING RAIL INDUSTRY



Dato' Sri Mohd Najib Tun Razak, Prime Minister of Malaysia launches the ECRL Industrial Skills Training programme during an event at Putrajaya.

Putrajaya, 14 June – Universiti Kuala Lumpur continues to strengthen its position as a centre of excellence in rail management and technology by establishing new partnerships and collaborations with key industry players nationwide. In a recent development, a Memorandum of Understanding (MOU) was signed between UniKL, Malaysia Rail Link Sdn Bhd (MRL) and China Communications Construction Company (CCCC) to formalise the effort in developing the workforce required by the nation's rail industry through UniKL's newly established Asia Rail Institute. The MoU signing took place at the launching ceremony of the East Coast Rail Link (ECRL) Industrial Skills Training Programme held at the Ministry of Finance, Putrajaya. The historic moment was witnessed by the Prime Minister of Malaysia Dato' Sri Najib Tun Razak with key institutional and industrial players in attendance.

The ECRL Project is the most expensive rail infrastructure project ever to be taken in Malaysia. A 620km long rail link will connect the East Coast and the West Coast by cutting through the mountainous central region. The RM55 billion project will commence this year and is expected to be completed by 2022 and will require approximately 3,600 skilled and competent workforce and UniKL will be participating actively in human capital development for the various critical sectors in the rail industry.

The focus of the MoU will be on the development of syllabus for the rail programme, professional training and industrial attachment of staff, provision of teaching manpower, support in terms of facilities and resources as well as research and development at UniKL Asia Rail Institute. Asia Rail Institute currently offers professional programme in Rolling Stock and Signalling technology and is committed in becoming a world class training centre dedicated to professional excellence in rail management and technology.



Dato' Sri Dr. Adham Baba with Mr. Ni Qing Jiu, Managing Director of CCCC

IMARAH RAMADAN

Kuala Lumpur, 14 Jun – The holy month of Ramadan is not only a month for self-reflection, forgiveness and increased worship of Allah. It is also a month for emboldening the spirit of giving, strengthening the relationship and improving camaraderie between the ummah, all in the name of God almighty. With this in mind, UniKL organised the ‘Imarah Ramadan@1UniKL’ programme which took place simultaneously at all of its 12 campuses nationwide.

The ‘Imarah Ramadan’ programme brought together the staff and students of UniKL in preparing ‘bubur lambuk’, a lightly spiced rice porridge synonymous to the holy month to be distributed to staff, students and the communities around the campus. Dato’ Sri Adham Baba, UniKL Chairman and Pro Chancellor together with Prof. Dato’ Dr Mazliham Mohd Su’ud, UniKL President and CEO did not miss the opportunity to join in with the staff of UniKL in preparing ‘bubur lambuk’.

Dato’ Sri Dr Adham in his address to the participants of the programme said, “Besides nurturing the spirit of giving, programmes such as this strengthens the esprit de corps between UniKL folks. It also helps improve our relationship with the surrounding communities, in a way promoting the UniKL brand. I hope that this programme will foster good moral values and develop students and staff who embraces the right qualities in life.”

Besides preparing and distributing bubur lambuk, other activities which was part of Ijarah Ramadan @1UniKL was a live telecast of a talk delivered by Prof. Dr. Muhd Kamil Ibrahim, a renown motivational speaker and UniKL Business School lecturer. The talk, which was held at UniKL MFI, Bangi was broadcasted to all 12 UniKL campuses nationwide via teleconferencing. Other activities include the distribution of alms (zakat) and basic essentials as well as hari raya gifts for those less fortunate.



Staff and students joining hands in packing and distributing ‘bubur lambuk’.



Dato’ Sri Dr Adham Baba, UniKL’s Chairman and Pro Chancellor actively participates in UniKL’s Social Responsibility Programmes.



UniKL folks rolling up their sleeves in preparing the famous Ramadan dish the traditional way.

FROM THE LENS OF UniKL

From the Lens of UniKL presents some of the finest artworks and interesting photographs showcasing life@UniKL. Art is a form of creative expression which requires imagination and skill that takes high dedication, passion and commitment to contrive. At UniKL, despite being a technical university, we cherish and encourage the talents of our community who show keen interest in art and photography.

UniKL Xpress showcases a myriad of art form including landscape photography, architecture photography, lifestyle photography, digital art and others. This section is dedicated to our staff and students who are passionate about art and photography in various topics. We believe that every photograph or artwork is an extension of the artist's thoughts, feelings, hopes and aspirations. If you wish to see your photos or artwork published in UniKL Xpress, you may email your artwork to mzamir@unikl.edu.my or shalieza@unikl.edu.my (digital artwork and photos must be in hi-resolution). Also share with us the description or story behind your art in not more than 50 words.

In this edition of UniKL Xpress, we feature photos courtesy of photography enthusiast, Abdul Wahab Che Ross, a staff of UniKL Malaysian Institute of Aviation Technology (UniKL MIAT).



**HEALTHY IS
NOT A GOAL, IT IS
A WAY OF LIVING**

**LOOK DEEP INTO
NATURE, AND YOU
WILL UNDERSTAND
EVERYTHING
BETTER**



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**BELIEVE YOU CAN,
AND YOU ARE
HALF WAY THERE**



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