

In the Face of
Rapid Change
Pg.04



Exploring
Malaysia's
Small Hydro
Potential
Pg.06



The Door
Buck Installation
System
Pg.10

Universiti Kuala Lumpur

XRESS

“INSPIRATION FROM NATURE”
” sharing knowledge, sharing experience”



UniKL
UNIVERSITI
KUALA LUMPUR



FULFILL YOUR PASSION AND SHAPE YOUR FUTURE

1
UNIVERSITY

12
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139
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27,000
STUDENTS

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Technology (Hons.) in
Mechanical Engineering - UniKL MIAT

• Areas of Specialisations •



Accounting, Entrepreneurship,
Islamic Finance, Marketing and
International Business



Information Technology,
Multimedia Technology and
Business Technology



Chemical and Bioengineering
Technology



Automotive Components and
System Technology



Marine Engineering Technology



Quality Engineering, Facilities Maintenance
and Industrial Logistic



Medical and Allied Health Sciences



Medical Science Technology



Aviation and Aircraft Maintenance Technology



Electrical, Electronics, Medical Electronics
and Telecommunication Technology



Industrial Maintenance Technology, Design
and Manufacturing



Design, Manufacturing and Engineering
Business Management



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TABLE OF CONTENTS

PAGE
04

IN THE FACE OF RAPID CHANGE
President and Chief Executive Officer,
Universiti Kuala Lumpur

PAGE
06

**EXPLORING MALAYSIA'S
SMALL HYDRO POTENTIAL**
www.hydroworld.com

PAGE
10

**DOOR BUCK
INSTALLATION SYSTEM**
UniKL Innovation Highlights

PAGE
12

**RESEARCH AND INNOVATION
CORE TO LIFE AS A STUDENT**
Siti Sarah Shamsul Anuar,
UniKL Student Ambassador

PAGE
14

UNIKL EVENTS
UniKL Events Highlights

PAGE
24

**INSPIRATION FROM NATURE:
A SHOWCASE OF DIGITAL
PHOTOGRAPHY ARTWORK**
UniKL Creative Multimedia Undergrads

PAGE
26

UNIKL IN THE NEWS

CHANGE IS THE ONLY THING CONSTANT IN OUR LIVES

Like it or not, change is inevitable. With the advancement in technology and the speed information travels nowadays, it has accelerated the pace of change happening around us greatly. Just like how Microsoft changed the way we use personal computers 40 years ago, just like how Apple brought new meaning to smartphones and mobile technologies, just like how facebook, twitter, and whatsapp changed the way we communicate, companies and organisations are constantly trying to predict the NEXT BIG CHANGE in the world. To quote Prof Philip Kotler, the world's leading marketing guru, "Today you have to run faster to stay in the same place."



IN THE FACE OF RAPID CHANGE, INSTITUTES OF HIGHER LEARNING NEED TO REVOLUTIONISE TEACHING AND LEARNING

This phenomenal transformation of technology has created a sense of urgency and opportunity for institutes of higher learning. As an institute that takes pride in developing students who are well equipped and has hands-on-knowledge of their industry, the rapid growth in technology might prove to be a hamper as what they are taught in their first year, might be obsolete by the time they graduate and enter the workforce three or four years later.

Foreseeing this problem, UniKL introduced the Industrialmanship programme, where students are attached and exposed to the industry as early as year one. This is part of UniKL's enhancement of the Industry-Academia relationship, where we believe both parties can play an equal role in talent development for the benefit of the nation. With this kind of cooperation, both parties seems to be winning; with the university producing employable graduates, and employers getting talents who are able to adapt quickly to the working environment, thus saving them precious time and resources.

However industries have to be realistic in their expectations of a fresh graduate. For the young graduates, the challenge is to constantly evolve themselves to be relevant in this changing time. This can put a huge burden and stress to these undeveloped raw human capital. Due to the constant change and huge expectation of the industry, graduates nowadays are not given enough time to learn and experience the working process compared to their peers 10 years ago.

As a university, it is our responsibility to equip students with the necessary attitude and mind-set to survive in the working world. Even if they might not hold the current knowledge of the industry, at least with the right attitude, they are able to grasp of what is required of them much quicker. Graduates have to be steadfast, humble, willing to be a lifelong learner and continuously improve for the benefit of themselves and the company they are working for. Thus it is imperative that graduates, when they start working, embrace change with the right attitude to become an essential human capital for the nation. And that is what UniKL constantly tries to achieve, to produce graduates with the right attitude and are able to contribute positively to the nation.

*Prof. Dato' Dr. Mazliham Mohd Su'ud
President and Chief Executive Officer,
Universiti Kuala Lumpur*

EXPLORING MALAYSIA'S SMALL HYDRO POTENTIAL

www.hydroworld.com

Malaysia is focusing on development of its significant small hydropower potential, with a goal of adding 490 MW by 2020 to increase renewable energy generation in the country.

*By
Samizee Abdullah, Engku Ahmad Azrulhisham,
Mohd Juhari Mat Basri and Jamel Othman
UniKL Malaysia France Institute*

The threats of climate change caused by burning fossil fuels and escalating fossil fuel prices make the further rapid development of renewable energy sources a global imperative. Hydropower, as the largest clean and renewable energy source, has played an essential role in the global energy mix. Energy provided by small hydropower is considered a renewable alternative that meets the need to reduce dependence on fossil fuels while substantially reducing greenhouse gas emissions. Furthermore, small hydropower is considered one of the most cost effective and environmental friendly energy generation technologies.

Most small hydropower systems are run-of-river schemes, which do not require large storage reservoirs. Power generation from run-of-river plants is free of CO₂ emissions and this is one of the oldest environmentally friendly technologies. The potential of small hydropower projects in Malaysia is huge, providing a total generating capacity of about 500 MW for the long run, especially in the run-of-river types.

Malaysia's installed electricity generating capacity was 26,063 MW in 2013, consisting of 21,628 MW in Peninsular Malaysia, 1,303 MW in Sabah and 3,132 MW in Sarawak. Gas and coal remained the most-used fuels for power generation at 47.99% and 25.73%, respectively, followed by hydroelectric at 14.73% and biomass at 2.97%. Meanwhile, mini hydro (see below for definition) contributed 0.17%. In terms of electricity growth, maximum demand of 16,562 MW as recorded on May 13, 2013, surpassing the initial target of 16,324 MW by 1.5%.¹

Categorizing Small Hydro

There is no globally accepted definition of small hydropower. The criterion currently used is capacity, and the definition varies by country. In Malaysia, small hydropower refers to run-of-river schemes up to 30 MW in capacity.² Small hydropower usually is broken down into three sizes: full scale, mini and micro.³ A full scale small hydropower scheme has a capacity of more than 10 MW, which is enough electricity for large areas and extensive grid supplies (up to 30 MW). Mini hydro schemes make a smaller contribution to national grid supplies, typically in the range of 500 kW to 10 MW. Micro hydro schemes usually range from 5 kW to 500 kW, do not supply the national grid and produce just enough power to provide domestic lighting to a group of houses through charging a battery.

Small hydropower can offer more opportunity to support rural electrification expansion and also contribute to energy and capacity support of the grid. The potential for small hydro in Malaysia is huge, but the energy available from the rivers already contributes significantly to electricity supply in rural areas. One example of a successful small hydro project in Malaysia is Perting Mini Hydropower plant at Bentong, Pahang (see photo above and at left). It is a run-of-river scheme that began operating in 2009 with a capacity of 4.2 MW and net export capacity of 4 MW to the Tenaga Nasional Berhad power station. This plant is owned by Amcorp Pertin Hydro Sdn. Bhd. and was upgraded to 6 MW in 2015. It attained global recognition by receiving the ASEAN Energy Award in 2012 and the Association of Consulting Engineers Malaysia's Silver Award of Merit 2013 in the field of Renewable Energy.



This photo shows the weir structure for the same small hydro facility

Power From Water

For purposes of our assessment, we used the below “definition” of a small hydro facility: It is a run-of-river scheme that does not stop the river flow but partially diverts it by means of an intake weir. A settling basin in front of the weir removes sand particles from the water and then a channel leads the water into a forebay. Finally, the penstock delivers the water to the powerhouse, where it runs through a turbine and is discharged back into the river downstream. A small hydropower system requires both adequate water flow and a change in altitude.

As is known, power available from a hydropower scheme is related to the vertical height the water falls (head) and the flow rate through the turbine.

But there are several factors that affect the overall efficiency of small hydropower systems. The overall efficiency of power generated depends on the overall losses of the system, which is calculated by considering the losses at the channel, penstock, turbine, generator and transmission.



Issues And Challenges

The population of Malaysia is more than 30 million and the country has a total area of 329,847 km². The climate of the country features high humidity and copious rainfall. Daytime temperature rise above 30 degrees Celsius year-round and night-time temperatures rarely drop below 20 C. The average rainfall is 2,500 mm for Peninsular Malaysia and 5,080 mm for East Malaysia.

With its hills and mountains in the interior, Malaysia is blessed with abundant streams and rivers flowing from the highlands, and 149 sites for small hydropower installation have been identified through reconnaissance studies carried out in 2010, with estimated capacity of 28.9 MW.⁴ Malaysia has utilized its hydro potential mainly in the range of large hydropower, with about 5,456 MW installed.⁵ In 2012, the government expressed a goal that the energy provided by small hydro schemes be increased substantially, from 60 MW in 2011 to 490 MW by 2020.⁶ Small hydropower development is in line with the country's Small Renewable Energy Programme (SREP), which encourages the development of electricity generation from renewable sources. In the SREP, owners of small renewable energy plants can apply to sell the electricity to the national utility through the Distribution Grid System.

The adoption of small hydropower has been making progress in Malaysia, and this has been spurred on by the Renewable Energy (RE) Act 2011, which was approved by the parliament in April 2011. As a result of this law, a feed-in tariff (FIT) scheme was adopted in December 2011. Under the FIT scheme, small power generation plants that use RE can apply to sell electricity to the utility through the distribution grid system owned by the national utility company Tenaga Nasional Berhad (TNB) through the RE Power Purchase Agreement (REPPA).⁷ As of May 2016, installed capacity of small hydro under the country's FIT program reached 18.30 MW, and the plants in progress equal 255.84 MW.⁸



There are several issues and challenges that affect the development of small hydropower in Malaysia. The lack of field expertise and technical skills is the largest barrier impeding this development, and also the financial institutions are unfamiliar with assessing risks for small hydropower projects.⁹ Malaysia also appears to be facing a number of specific challenges in developing small hydropower, including heavy rainfall causing flooding and overflow, inefficient designs to filter out sand and debris before it enters the turbine, complicated regulatory requirements in terms of land acquisition and environmental impact assessment, and risk of water pollution during construction work resulting from logging activities.⁸ In addition, the access to land and water is subject to federal and state regulation.

The hydrological parameters are also an important factor contributing to the success of small hydropower projects. Any run-of-river scheme has the same major constraint: the amount of water available varies from season to season. There are challenges in determining the feasibility of a small hydro scheme due to the risk of water scarcity and unexpected water flows resulting from dry seasons, climate change and river pollution.² Furthermore, the performance of small hydropower is influenced by sedimentation, which reduces the overall efficiency of the power generation system. There is a need to have detailed research on sedimentation, such as how to better solve sediment problems and facilitate sediment handling in small hydro systems. The Sustainable Energy Analysis Laboratory at the Universiti Kuala Lumpur is currently involved in the KeTTHA (Ministry of Energy, Green Technology and Water) funded research project on development of an empirical sediment settling prediction system and optimization tools for small hydropower plants.

Conclusion

Small hydropower is a good alternative to conventional electricity generation, especially to provide considerable electricity in rural areas. With its hilly topography and an abundant number of streams flowing to foothills, Malaysia offers many potential sites for run-of-river small hydropower.

Despite the positive benefits from small hydropower plants, there are issues and challenges that need to be considered for the success of the project. The research and innovation in developing small hydropower is very encouraging, which is providing many benefits in terms of design, cost effectiveness and the installation process.

Source of Article :

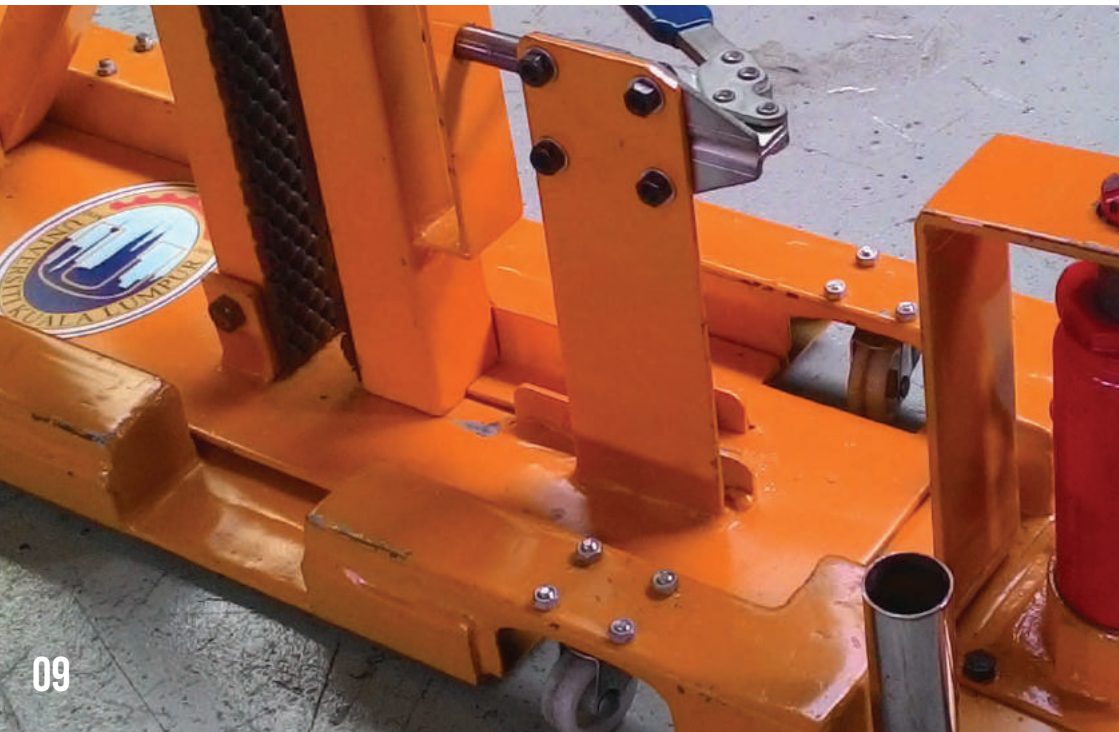
<http://www.hydroworld.com/articles/print/volume-24/issue-4/features/exploring-malaysia-s-small-hydro-potential.html>

DOOR BUCK INSTALLATION SYSTEM

Research And Innovation Highlight

At UniKL, promoting and sustaining a research community is important for the university to foster research enculturation. UniKL's research activity is focused on developing new technologies and products to support the techno-entrepreneurship ventures with our researchers, graduates and industrial partners. At UniKL, we keenly motivate research and innovative activities contributing to the creation of new values that benefit industries and businesses.

In this edition of UniKL Xpress we will be highlighting one of UniKL's innovation which has won numerous awards and recognitions and has huge potential for commercialisation.



The 'DOOR – BUCK INSTALLATION SYSTEM' or D.I.S was developed by researchers from UniKL Malaysia France Institute. A door buck is a simple site made jig that many carpenters use to hold doors securely on edge while planting them or routing the hinges. Basically, the door is placed between two holders of a door-buck where the door will stand upright for easy installation of the door hinges. Then, the door is brought to the door frame to complete the installation process. Current means of transporting a door from one place to another utilizes two workers. With D.I.S, the manpower needed is cut into half for the job.



BENEFITS

This product decreases installation cost by 50% and increases door installation productivity and safety.

OBJECTIVES

- To study the ergonomics and safe method of door installation.
- To design an innovative and effective tool for carpenters.
- To produce an innovation which can reduce labour cost and increase productivity

MARKET POTENTIAL

- Construction of Buildings, Houses and Offices.
- Maintenance of Buildings and Offices.
- Hardware (D.I.Y)

INVENTORS

- Mohamad Helmi Bin Mat Jusoh
- Wan Nazirul Mubin Bin Wan Mohamad
- Mohamad Yazman Bin Yaakub
- Mohamad Juraidi Bin Jamal

ADVANTAGES

- Portable for easy carrying and storing.
- Suitable for one-leaf and two-leaf types door thickness and height.

AWARDS AND RECOGNITIONS

- iCompEx' 15
- iidex 2015
- Made in UniKL 2015
- NRIC 2015

CONCLUSION

The product is designed to solve the following problems;

- D.I.S will help reduce the back – pain on workers during transporting a door.
- D.I.S can save door installation time.
- D.I.S maintains the quality of the door.
- D.I.S minimizes the risk of accidents at work.
- D.I.S can save cost of labor.



**'I USED TO
CONSIDER
MYSELF AS
A GRAIN OF SAND,
INSIGNIFICANT,
EASILY THROWN
AWAY EVERY
TIME THE WIND
BLOWS. BUT A
GRAIN OF SAND
CAN FORM A
MOUNTAIN OR
EVEN AN ISLAND!'**

RESEARCH AND INNOVATION CORE TO LIFE AS A STUDENT

Siti Sarah Shamsul Anuar, UniKL Student Ambassador

Siti Sarah Shamsul Anuar is a UniKL undergrad currently pursuing her Bachelor's Degree in Multimedia Technology in Interactive Multimedia Design at UniKL Malaysian Institute of Information Technology. The young undergrad takes pride in having research and innovation projects core to her undergraduate study experience.



The petite lass from Kuala Lumpur, has been involved in undergraduate research and innovation competitions and was exposed to writing for research publications for international conferences from a very young age. She shows a deep understanding and passion in research and innovation, and to date, has published three research publications for international journals, a remarkable achievement for an undergraduate student.

Sarah has represented UniKL and won numerous research and innovation based competitions, among them winning the Gold medal and 'The Very Best' Award at the Asian Youth Innovation in Malaysia Technology Expo 2017, gold medal at the Apprentice Innovation & Research Exhibition 2016, first place winner at the

MARA Technology Exploration 2016 in the Community category, the Undergraduate Research Competition and Exhibition 2015 (gold medal & first place winner), FYP Competition and Exhibition (Best Final Year Project winner) and Language Olympics 2014 (first place winner).

With her deep love for research and her aspiration to pursue her PhD in software engineering, she hopes to become an educator and a professor in the future.

Siti Sarah Shamsul Anuar is recipient of the President's Award in Diploma Category and the Chancellor's Award Recipient (Best Student Overall), the highest achievement award for a UniKL student during UniKL's 2016 Convocation Ceremony.

UNIKL EVENTS

UniKL Events Highlights



Welcome New Students!

YB Minister of KKLW Greets New UniKL Students

BANGI, 12 February - YB Dato' Sri Ismail Sabri Yaakob, Minister of Rural and Regional Development and Pro Chancellor of UniKL, took some time off from his busy schedule to welcome 370 new students from UniKL MFI, UniKL BMI, UniKL MIAT and UBIS who registered today for the February 2017 intake. YB Dato' Sri welcomed the new students and had some words of encouragement for the highly enthusiastic group of students who were visibly delighted to see the Minister personally meeting them.

He said, " Technical Education is no more seen as a second chance opportunity for students to enter tertiary education.

UniKL has proven that through time, it has grown to become one of the preferred private universities of choice among Malaysians and HTVET is seen as the prime mover for economic development of the nation. I hope you will use your time here wisely and may success follow wherever you go."

The Honorable Minister spent almost one an a half hour with these students having afternoon tea together while having informal conversations, played futsal and a little bit of golf at the new student recreational area.



14



MINISTRY OF HIGHER EDUCATION PITCH FOR PROGRESS 2017

KUALA LUMPUR, 5 MARCH – Pitch for Progress 2017 hosted by Universiti Kuala Lumpur is a competition organised in collaboration between the Ministry of Higher Education (MOHE), the Organisation for National Empowerment (ONE) and Universiti Kuala Lumpur (UniKL). The P4P competition provides university students the opportunity to pitch their ideas on how to improve the perception of higher education in Malaysia, in line with the Ministry's motto 'Soaring Upwards'.

The competition was participated by 40 teams from public and private universities in the country. Participating teams are required to present their ideas on improving the perception of higher education in Malaysia. This idea can be in the form of a social media campaign, short video projects, or anything creative as long as it meets its objective. The competition allows the participants to enhance their leadership and persuasion skills with guidance from experienced and talented coaches and facilitators.

The team representing Universiti Kuala Lumpur (UniKL), Universiti Malaysia Terengganu (UMT) and Management & Science University (MSU) were proclaimed as winners based on their winning ideas and presentation skills.





Dato' Seri Idris Jusoh, Minister of Higher Education is seen here in a commemorative picture with participants and guests at the event.



JELAJAH PENDIDIKAN BUMIPUTERA

KUALA LUMPUR, 6 APRIL – Universiti Kuala Lumpur (UniKL) hosted the Jelajah Pendidikan Bumiputera (JPB) 2017 series for the Wilayah Persekutuan Kuala Lumpur Zone. JPB, a special project initiated by YAB Prime Minister is a nationwide tour with the goal of providing a second chance to Bumiputera students from disadvantaged backgrounds especially in remote and rural areas to continue their tertiary education. The project is co-organised by Gerakan Pendidikan Bumiputera Malaysia (GPBM), Yayasan Destini Anak Bangsa (YDAB) and Koperasi Profesional Putrajaya Berhad (KOPROJAYA).

Among the higher learning institute involved in the tour are Universiti Kuala Lumpur, Universiti Teknologi Mara, Kolej Poly-Tech MARA, Politeknik Malaysia, Giat MARA Malaysia, Kolej Komuniti, Institut Kemahiran Malaysia, Institut Kemahiran Belia Negara, Kolej Universiti Agrosains Malaysia, Kolej Profesional MARA, Perbadanan Tabung Pendidikan Tinggi



Nasional (PTPTN) and 15 public universities from all over Malaysia including Universiti Malaya, Universiti Sains Malaysia, Universiti Kebangsaan Malaysia and many more.

The central zone of the Jelajah was held at Universiti Kuala Lumpur, attended by Minister of Federal Territories, YB Datuk Seri Utama Tengku Adnan Tengku Mansor and Minister of Rural and Regional Development Dato' Sri Ismail Sabri Yaakob, who is also the Mentor Minister for the programme. Also in attendance were Ybng Professor Emeritus Tan Sri. Ir. Dr. Sahol Hamid Abu Bakar, Chairman of YDAB, Vice Chancellors and leaders of public and private universities from all over Malaysia and the general public.





Datuk Seri Najib Tun Razak, the Prime Minister of Malaysia launching the Jelajah Pendidikan Bumiputera 2017 at Bera, Pahang.



INTERNATIONAL RAIL FORUM 2017

CREATING SUSTAINABLE JOB AND ENTREPRENEURSHIP OPPORTUNITIES

KUALA LUMPUR, 14 APRIL – Majlis Amanah Rakyat (MARA) and Universiti Kuala Lumpur Institute of Product Design and Manufacturing (UniKL IPROM) organised the International Rail Forum 2017 which serves as a platform to share the employment prospects and the advancement in the rail industry of the nation which was held at UniKL's City Campus, Jalan Sultan Ismail, Kuala Lumpur.

This forum sees the gathering of leaders and experts from the railway industry including from the academia, universities, government agencies and industry players on a common platform for the sharing of knowledge, experience and views as well as developing and strengthening industry networking between railway industry partners.

The forum also aims to enhance the university-industry co-operation which functions as the catalyst for human capital development in rail technology. This forum also enables talents to explore job and business opportunities resulting from the introduction of an efficient rail network throughout the nation in the future.

This forum was initiated following UniKL's establishment of the professional centre known as Asia Rail Institute on 23 March 2016. The Asia Rail Institute has been recognised as the first national higher institute focusing on rail technology where it offers professional courses, licence programmes and customised courses for the professional development of the rail industry workforce in Malaysia.



YB Datuk Ab Aziz Kaprawi, Deputy Minister Of Transport was the guest of honour



Datuk Ibrahim Ahmad, Director General of MARA presenting the keynote address



UNIKL, UNITEN, MMU AND UTP FORM STRATEGIC ALLIANCE TO ENHANCE HIGHER EDUCATION INDUSTRY

PUTRAJAYA, 21 November – Four Government Linked Universities comprising of Universiti Kuala Lumpur (UniKL), Multimedia University (MMU), Universiti Teknologi Petronas (UTP) and Universiti Tenaga Nasional (UNITEN) today formalised their strategic partnership through the signing of a Memorandum of Understanding in a ceremony which was witnessed by Minister of Higher Education, Yang Berhormat Dato' Seri Idris Jusoh. Also present were Vice Chancellors and Presidents of the four universities, top management and delegates of the GLU Management Forum.

The Council for the Vice Chancellors and Presidents of Government-Linked Universities was established in January 2016 involving Vice Chancellors and Presidents of UNITEN, MMU, UTP and UniKL to charter the course in advancing higher education through voluntary, cooperative and co-ordinated action.

The objectives of this Council are among others; promote the interests of GLUs to the government, the industry and the general public; develop policies and guidelines on higher education matters including teaching, research and training; advancing the internationalisation of GLUs; and promoting collaboration between the GLUs and other universities in Malaysia and abroad.





The MOU signing will enhance the GLUs collaborations in developing an ecosystem to move forward and eventually supporting the national education aspiration as outlined in the Malaysian Education Blueprint for Higher Education, which is to be a world-class knowledge economy – and regional education hub. Together, the GLU's have vast potential to grow and become Malaysia's Leading Education Group and a Global Education Player.



“INSPIRATION FROM NATURE”

A Showcase of Digital Photography Exhibition

” sharing knowledge, sharing experience ”

“INSPIRATION FROM NATURE”, is an exhibition designed for the purpose of evaluation and assessment of digital photography works by final semester students of Creative Multimedia Section, Malaysian Institute of Technology (MIIT), Universiti Kuala Lumpur.

The work represents the students journey and exploration of human being's relation with their environment, drawing inspiration from it since the time of our forefathers as seen in our cultural heritage, our architecture, and our crafts.

The main objective of publishing “Inspiration from Nature” is actually meant as a reference for generation to come. A lot of creative ideas have been created from each student from this type of photography that has been originated from different range and depth of their research. With this catalogue, students are able to discover the vast changes that are going on the world today and to prepare the next generation of artist and designers for a life of sustained creative practice.

The students involved also got the chance to give back to the society through highlighting the plight of the 'orang asli' community and social activities organised.



Syed Izhar (Title : Bateq Family)



Amirul Syafiq (Title : Drawing with Light Journey)



Hakim Rahman (Title : Striving To Survive)

“A good landscape photograph captures the spirit of the subject – wild or pastoral exciting or tranquil, town or country and enables us to enjoy it long after we have left the scene itself...”
Roger Hick



Ahmad Fahmi Hj.Mohamad (Title : "Anak")

UNIKL IN THE NEWS

Berita Harian, 2 March 2017



Tiga wakil Malaysia sahut cabaran Airbus

Tiga wakil Malaysia telah sahut cabaran Airbus untuk membangunkan prototaip pesawat terbang berkapasiti 100 penumpang dalam tempoh 48 jam. Mereka ialah Dr. Mohd Hafidz bin Mohd Yusoff, Dr. Nur Hafidza bin Mohd Yusoff dan Dr. Nur Hafidza bin Mohd Yusoff. Mereka telah menghadiri pertandingan ini di Paris, Perancis. Pertandingan ini bertujuan untuk menguji kecekapan dan kreativiti pelajar dalam membangunkan prototaip pesawat terbang. Mereka telah berjaya membangunkan prototaip pesawat terbang yang mampu terbang dalam tempoh 48 jam. Mereka telah memenangi pertandingan ini dan akan mewakili Malaysia dalam pertandingan antarabangsa.

Automated Tapping Equipment From Unikl
Oriental Daily News, 19 January 2017

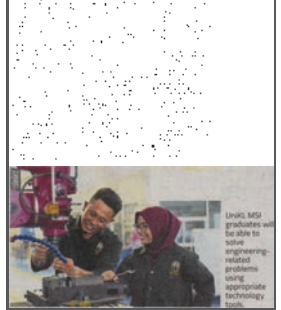
吉隆坡大学研发自动化割胶仪器

吉隆坡大学 (Unikl) 击败 700 多名竞争对手，凭着研发的自动化割胶仪器获得新加坡创意大奖总冠军，捧走 5 万令吉奖金。研发团队由 4 名机械系及制造系学生组成，包括：穆拉兹·马哈茂德、穆拉兹·马哈茂德、穆拉兹·马哈茂德和穆拉兹·马哈茂德。他们研发的自动化割胶仪器可以减轻工人的负担，并提高割胶的效率。该仪器可以自动识别橡胶树的成熟度，并根据需要进行割胶。该仪器的研发得到了政府和企业的支持。研发团队表示，他们将继续努力，开发更多创新的自动化设备。



The Star, 12 January 2017

Sustaining industry demand



Sunday Star, 15 January 2017

Lachlan's Stock rises after scoring hat-trick for Unikl in MHL debut

UNIKL LACHLAN'S debut in the MHL Premier Division was a triumph for the team as they scored a hat-trick in their first match. The team's performance was praised by fans and the media. The players' skills and teamwork were highlighted as key factors in their success. The team's victory was a significant milestone for Unikl in the MHL competition.



是哈基利在联赛中取得帽子戏法，为 Unikl 的首场比赛取得开门红。 学生在研发自动化割胶仪器时，身穿白色实验服。

Utusan Malaysia, 18 March 2017



Unikl dedah graduan pengalaman bekerja

Unikl 最近举办了一场活动，向毕业生展示他们的工作经验。活动吸引了许多毕业生参加，他们分享了自己的工作经历和学到的技能。Unikl 表示，他们将继续努力，为毕业生提供更多的实践机会，帮助他们更好地适应职场。活动得到了社会和企业的广泛支持。

Soaring With Creativity
China Press, 28 March 2017

用创意登上青天

Unikl 的毕业生在多个领域展现了他们的创造力和创新能力。他们的作品和发明受到了社会的广泛关注和认可。Unikl 表示，他们将继续支持学生的创新活动，培养他们的创造力和解决问题的能力。毕业生的成功证明了 Unikl 的教育质量和培养人才的能力。

