

LAMPIRAN 1
HARIAN METRO (BISNES) : MUKA SURAT 58
TARIKH : 18 JUN 2018 (ISNIN)

Kuala Lumpur

TPME raih kontrak sistem integrasi

TPM Engineering Sdn Bhd (TPME), cabang kejuruteraan Technology Park Malaysia Corporation Sdn Bhd (TPM) mendapat kontrak projek peningkatan sistem integrasi daripada pengeluar cakera keras, Kobe Precision Technology Sdn Bhd (KPTec).

Projek itu membabitkan kejuruteraan semula mesin kawalan numerik komputer (CNC) KPTec dengan meningkatkan keupayaan mereka dan menambah ciri pengukuran kualiti. Presiden dan Ketua Pegawai Eksekutif TPM, Datuk Ir Mohd Azman Shahidin berkata, projek itu diperolehi berikutan kejayaan penilaian keupayaan kejuruteraan TPME berdasarkan kawalan kualiti dan penanda aras yang

ditetapkan oleh KPTec.

"Kemahiran TPME dalam menjalankan projek ini menyumbang kepada penjimatan kos yang besar bagi KPTec selain memperluaskan jangka hayat mesin sedia ada berbanding pemerolehan mesin baru yang serupa," katanya.



MOHD Azman

Sementara itu, Pengurus Besar TPME, Dr Mohd Zaihirain Mohd Rasin berkata, adalah penting bagi industri untuk terus berdaya saing dan mengekalkan kemampanan.

"Dalam usaha untuk menyediakan bantuan yang diperlukan kepada pihak berkepentingan yang berkaitan, TPM mempunyai Pusat Robotik dan Sistem Pembuatan Fleksibel yang ditubuhkan untuk menggalakkan dan meningkatkan pembangunan teknologi asli," katanya.

LAMPIRAN 2
NEW STRAITS TIMES (NATION) : MUKA SURAT 12
TARIKH : 18 JUN 2018 (ISNIN)

NUTP: Stop cyberbullying

GEORGE TOWN: Cyberbullying among schoolchildren should be addressed, the National Union of the Teaching Profession (NUTP) said yesterday.

Its Penang branch chairman, Ng Weng Tutt, said students were glued to their gadgets and very active on social media, leaving them susceptible to cyberbullying, both as victims and victimisers.

"We have rules to curb (physical) bullying.

"However, the Education Ministry should consider (rules for) cyberbullying as well.

"With the right measures, this problem can be stopped at the schoolgoing stage," he said.

Bullying has come under the spotlight in recent years following the deaths of several students at the hands of their peers.

CyberSecurity Malaysia said 338 cases of cyberbullying among students were recorded in 2016.

SYNDICATES SCAMMING JOBSEEKERS

Scammers demand 'processing fee' for vacancies in established firms

CHE WAN BADRUL ALIAS
AND MOHD NASARUDDIN PARZI
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NEW syndicates are actively scamming jobseekers for easy gains by promising non-existent work opportunities, including vacancies for professional positions.

Their modus operandi is to demand an upfront processing fee, which amounts to thousands of ringgit per victim, for vacancies in international or multinational corporations.

These syndicates usually create fake websites similar to well-known companies and organisations as a way to lure jobseekers.

CyberSecurity Malaysia chief executive officer Datuk Dr

Amirudin Abdul Wahab said his division received 25 complaints involving fraudulent activity last year. One was from a local company, while the rest were from individuals.

He said through the fake websites, the syndicates would advertise vacancies for positions, such as chief surgeons, paediatricians and project managers, supposedly offered by established organisations.

"In addition to registering bogus mobile phone numbers to contact the victims, the syndicates also use emails as a medium of communication.

"They will send emails to their targets, claiming that they had received confirmation of

job vacancies that matched their target's skill sets and experiences."

Amirudin said victims were attracted to positions in renowned organisations, as well as those that offered attractive packages and lucrative salaries.

"Interested parties would be required to send a copy of their passport and personal information for verification before they accept the job offer.

"After having the victim in



Datuk Dr Amirudin Abdul Wahab

their grip, the syndicates will continue to send emails.

"The victim would then be asked to provide more information, supposedly for the immediate registration of the job.

"They would be informed that they have been offered the job overseas, but were required to make a payment to guarantee the position."

It is often too late when the victims fall into a trap of making payments as requested by the scammers.

To make matters worse, Amirudin said, the victims not

MODUS OPERANDI OF SYNDICATES TARGETING JOBSEEKERS

- 1 Syndicates create fake websites, load ads on list of vacant positions such as head surgeon, paediatrician, and project manager offered at a particular organisation.
- 2 Send an e-mail to the target, supposedly from the Human Resources Department, which has reviewed the target's resume.
- 3 Syndicates tell the target that the latter's experience and skills set match the job requirement at a reputable organisation and offer an attractive package and salary.
- 4 The target is asked to send a copy of his passport and personal information for verification.
- 5 Realising that the target is in their grip, the syndicate will continue to send e-mails to keep the momentum and trust.
- 6 The target will be asked to provide more information, allegedly for immediate employment registration.
- 7 The target will be notified that he has been accepted for the job abroad and is required to make payment for the purpose of processing and as a holdable or guarantee to secure the job.

INFOGRAPHIC NST

only lose their money, but also expose themselves to identity theft by revealing personal information and data, which could be used for criminal purposes.

Hence, he advised jobseekers to get authentication information of job vacancies, as well as contact the company directly for confirmation.

MODUS OPERANDI

50 firms issue warnings of fake job vacancies

KUALA LUMPUR: More than 50 companies globally have uploaded warnings on their websites about fake job vacancy scams.

In their postings, they gave details of how the scams are used for identity theft, as well as to cheat those seeking employment on the pretext of visa and permit charges.

Some of these companies had also put up warnings of scammers and their modus operandi of fooling their victims by promising them a job overseas with a lucrative salary, on popular recruitment sites.

Companies began sending out warnings in light of the growing number of job scams that allegedly required applicants to pay a fee, mainly for visas, insurance and work permits.

The United States' leading conglomerate, General Electric (GE), in its disclosure noted that it had received complaints from victims who had filled fake GE application forms that carried the company's logo in each and every documentation.

The scam extended right up to fake immigration work permits and online visa applications.

Surprisingly, syndicates responsible for the job scams and identity theft are fearless to the extent that they even dared to use the United Nations (UN) and the World Health Organisation's (WHO) names in their illegal activities, to increase their credibility.

They also used mirror sites with fake websites and email domains to gain trust.

The UN has acknowledged that it was aware of the syndicate that had been using its name to deceive the public and collect payment, especially from those seek-

ing job opportunities outside the country.

WHO stated that its logo and name were not only used by syndicates to deceive jobseekers, but also by businesses and organisations, which asked interested parties to pay a sum for participation in international conferences organised by the agency.

Petronas, on its website, said irresponsible parties were using its name to get advance payment from jobseekers and the public.

The government-linked company said the syndicate would re-

quire jobseekers to make advance payments, supposedly for processing immigration documents, visas and work permits.

The company also insisted that it had never imposed charges for hiring or immigration documentation, insurance or other purposes.

It said this rule also applied to agencies related to it.

Shell Malaysia also issued a similar warning about fake job vacancies that were advertised using personal email addresses instead of the company's email.

LAMPIRAN 4
KOSMO (NEGARA) : MUKA SURAT 15
TARIKH : 19 JUN 2018 (SELASA)

Penjualan bateri sekunder tanpa perakuan SIRIM akan dikenakan denda

Wajib ada label keselamatan

Oleh JUNHAIRI ALYASA

PUTRAJAYA - Tindakan tegas terhadap mana-mana penjual, pengedar dan pengilang yang menjual bateri sekunder tanpa pengesahan dan label keselamatan SIRIM akan dikuatkuasakan pertengahan tahun depan.

Bateri sekunder ialah bateri cas semula yang banyak digunakan untuk telefon bimbit, 'power bank', rokok elektrik, gajet permainan elektronik dan dron.

Menurut Pengarah Bahagian Standard Kepeng-

gunaan Kementerian Perdagangan Dalam Negeri, Koperasi dan Kepenggunaan, Che Sukri Che Mat, pengimport, pengedar dan penjual perlu memastikan bateri sekunder yang dibawa masuk ke negara ini mematuhi Malaysian Standard MS IEC 62133:2017.

"Garis panduan yang dikeluarkan sebelum ini tidak mengikat dari segi undang-undang namun kita akan menjadikan ia sebahagian daripada undang-undang di bawah Seksyen 29, Akta Perihal Dagangan 2011.

"Jika sabit kesalahan, pesalah boleh didenda tidak

melebihi RM100,000 dan jika melibatkan syarikat, denda yang dikenakan sebanyak RM200,000," katanya kepada *Kosmo!* baru-baru ini.

Sejak tahun 2014 hingga 2017, terdapat sebanyak 12 laporan yang diterima melibatkan penggunaan bateri sekunder yang tidak selamat antaranya ialah bateri sekunder pada telefon bimbit panas sehingga terbakar.

Che Sukri berkata, pihak kementerian telah bekerjasama dengan Jabatan Kastam Diraja Malaysia bersama SIRIM Berhad bagi memastikan barangan

yang menggunakan bateri sekunder import mestilah mendapat perakuan daripada kedua-dua pihak itu.

"Kebanyakan barangan yang menggunakan bateri ini tanpa label keselamatan diimport dari China, Taiwan, Hong Kong, Jepun dan Thailand."

"Setelah undang-undang ini dikuatkuasakan pada Julai tahun depan, Kementerian Perdagangan Dalam Negeri, Koperasi dan Kepenggunaan tiada lagi menjalankan advokasi sebaliknya akan terus menguatkuasakan peraturan serta hukuman," katanya.



CHE SUKRI menunjukkan 'power bank' yang menggunakan bateri sekunder di pejabatnya di Putrajaya baru-baru ini.



TAN SRI
DR ZAKRI
ABDUL
HAMID

COLLABORATION

R&D LINKS VITAL

The Global Research Council provides an avenue for countries to enhance the quality of research

IN today's interconnected world, global cooperation in research is increasingly the norm rather than an exception.

Seeking to promote quality research worldwide, the Global Research Council (GRC) was launched in May 2012 in Washington DC based on a proposal by the US National Science Foundation.

It is a virtual organisation, comprising the heads of science and engineering funding agencies from around the world, dedicated to promote data sharing and best practices for high-quality collaboration. It has a long-term objective of fostering multilateral research and collaboration across continents to benefit both developing and developed nations.

In just over six years, the GRC leadership has successfully expanded cooperation from 20 to 65 countries. Malaysia is a founding member. The GRC meets annually and the latest meeting was in Moscow on May 15. Malaysia had the honour of hosting its regional Asia-Pacific meeting in 2016 and currently sits on its governing board.

The worldwide surge in R&D investments in recent years presents a great opportunity for countries large and small to work in concert across national borders. Such cooperation can enhance the quality of research, reduce duplication, increase proposal development, create

partnerships, attract research funding, increase institutional competitiveness, and address issues and barriers that can be solved only by working together.

All countries need to either join these efforts and keep up or risk being left behind economically. And research funding agencies have a big responsibility.

The availability of highly qualified researchers is essential to innovation and promoting the scientific and technological development of a country.

Here's a snapshot of the world scientific community and it is helpful to appreciate our place in it:

In 2013, the Unesco Science Report 2030 reported there were 7.8 million full-time (or equivalent) researchers. That works out to 1,083 per 1 million inhabitants, or about 0.1 per cent of the global population.

The Big Five – the European Union (EU), China, United States, Japan, and Russia – account for 72 per cent of researchers worldwide. The US and China alone account for more than one third.

Incidentally, these countries also produce the most research publications – roughly 34 per cent, 20 per cent, 25 per cent, 6.0 per cent and 2.0 per cent, respectively.

With roughly 2,600 researchers per million people (2013), Malaysia is well behind South Korea (8,329), Singapore (7,247) and Japan (7,019), but well ahead of Vietnam (1,170), and



The 47 least developed countries contributed less than 0.4 per cent of the world's total scientific publications in 2016.

Thailand (769).

By looking at the big figures associated with research in different countries, it is not difficult to understand why such countries give considerable significance to research. Russia, for example, funds 16,000 research projects annually, conducted by 50,000 researchers.

South Korea's National Research Foundation receives annually about 80,000 proposals from universities and research institutes.

Estimated global gross expenditure on research and development (GERD) is US\$1.48 trillion (expressed in purchasing power parity).

World shares of GERD for the EU, China, US, Japan, and Russia were about 22 per cent, 19 per cent, 17 per cent, 9.0 per cent and 6.0 per cent, respectively.

High-income economies continue to generate the bulk of global R&D expenditure. In fact, the G20 countries account for 87 per cent of the world's researchers, 92 per cent of global research expenditure and 94 per cent of the world's scientific publications.

In contrast, as recently reported in this column, the 47 Least Developed Countries, with a population of close to one billion, contributed less than 0.4 per cent of the world's total scientific publications in 2016.

Besides GERD, another useful yardstick is the ratio of the level of financial resources devoted to R&D as a share of gross domestic product (GDP).

The 2013-2014 figures show spending on R&D activities by the EU, China, US, Japan and Russian Federation were roughly 2.0 per cent, 2.0 per cent, 3.0 per cent, 4.0 per cent and 1.0 per cent, respectively.

Malaysia's R&D investment of 1.3 per cent of GDP in 2015 is commendable but is still lower than the world average – roughly 1.78 per cent.

There's a lot to be gained by being a member of the GRC. The council plays a crucial role in promoting collaboration between nations by creating, for example, standards and basic principles for "merit review" of research, also referred to as "peer review".

Such efforts are intended to provide agreement on core principles necessary for a rigorous and transparent review system, and are thus a basis for fostering and facilitating international cooperation among funding agencies worldwide.

Recent economic headwinds in Malaysia may have caused a slowdown in R&D funding. However, it is important for Malaysia to achieve an R&D intensity of at least 2.0 per cent of the GDP by 2025, recognising the importance of this investment in pursuit of the country's socio-economic well-being and future sustainability.

The writer represents Asia-Pacific on the Governing Board of the Global Research Council, and is Joint-Chairman of the Malaysian Industry-Government Group for High Technology (MIGHT).

The availability of highly qualified researchers is essential to innovation and promoting the scientific and technological development of a country.

LAMPIRAN 6
HARIAN METRO (NUANSA) : MUKA SURAT N32
TARIKH : 18 JUN 2018 (ISNIN)

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Pameran 'Sustainable, Environment, Exploration and Design Showcase' (SEED SHOWCASE) 2018 anjuran Fakulti Reka Bentuk dan Seni Bina, Universiti Putra Malaysia (UPM) berjaya menonjolkan produk inovasi yang dihasilkan mahasiswa fakulti berkenaan kepada industri.

Penasihat Program, Dr Mohd Shahrizal Dolah berkata, pameran itu bertujuan mempromosikan produk reka bentuk kepada organisasi awam serta swasta, seterusnya memberi pendedahan peranan bidang reka bentuk perindustrian kepada orang ramai.

Katanya, sebanyak 32 rekaan dipamerkan dan ia hasil ciptaan penuntut tahun akhir Reka Bentuk Perindustrian (IND) universiti itu.

"Produk yang dipamerkan berpotensi

SERLAH INOVASI SISWA

SEED SHOWCASE 2018 promosi produk reka bentuk berdaya saing

untuk diketengahkan kepada industri, seterusnya bekerjasama dengan industri untuk menghasilkan produk yang memenuhi permintaan pasaran," katanya pada majlis perasmian SEED SHOWCASE, baru-baru ini.

Majlis itu dirasmikan Timbalan Dekan Fakulti Reka Bentuk dan Seni Bina, Prof Dr Mohd Johari Mohd Yusof. Turut hadir Ketua Jabatan Reka Bentuk Perindustrian, Prof Dr Raja Ahmad Raja Ahmad Effendi.

Sementara itu, Dr Mohd Johari berkata, SEED SHOWCASE 2018 ialah satu lagi langkah yang mencabar profesionalisma pelajar reka



DR Mohd Johari merasmikan SEED SHOWCASE 2018 di Bangunan Canselor Putra.



DR Mohd Johari

"Oleh itu, hari ini universiti mesti bekerjasama dengan penggiat industri untuk menyediakan peluang pekerjaan baharu mengikut kehendak pasaran," katanya.

Katanya, melalui pengajaran itu, ia mendedahkan mahasiswa kepada ekonomi digital dalam mencipta reka bentuk sesuatu produk yang mempunyai aliran selaras Revolusi Industri 4.0, sekali gus mengelakkan pengangguran.

"SEED SHOWCASE 2018 ini dilihat mampu membantu menaikkan kualiti reka bentuk kita dan menggalakkan kefahaman dan prestasi reka bentuk dalam kalangan pereka muda."

"Saya yakin dengan usaha ini, kita akan berjaya mengeluarkan barangan yang mempunyai reka bentuk yang akan diterima semua pasaran di dunia mengikut aliran semasa," katanya.



PEMERAN bergambar kenangan peserta program.

bentuk industri dalam memenuhi piawaian reka bentuk Malaysia mengikut aliran terkini.

Katanya, ia sekali gus melihat sejauh mana keupayaan anak muda Malaysia dalam menghasilkan reka bentuk berkualiti dan berdaya saing.

"Reka bentuk sesuatu produk mempunyai aliran tersendiri. Aliran ini sentiasa berubah mengikut peredaran masa."

"Mungkin juga kita boleh mencipta reka bentuk tersendiri yang berlainan daripada aliran semasa. Tapi hal ini mempunyai risikonya, melainkan kita sudah jadi peneraju pasaran selari trend atau keperluan terkini."

Universiti Kebangsaan Malaysia (UKM) hingga kini berjaya melahirkan 190,171 graduan dan alumni terbilang dalam pelbagai jurusan sejak penubuhannya pada 18 Mei 1970.

Naib Canselornya, Prof Tan Sri Dr Noor Azlan Ghazali berkata, kini sarjana dan alumni universiti itu menerima pelbagai kepercayaan dan pengiktirafan mencakupi sumbangan dalam bidang akademik, penyelidikan serta khidmat masyarakat. Katanya, kecemerlangan berkenaan perlu diteruskan kerana dua tahun lagi universiti itu akan meraikan sambutan Jubli Emas bersempena 50 tahun penubuhannya.

Beliau berkata, peringkat awal penubuhannya, universiti awam (UA) berkenaan bergantung kepada tenaga akademik dari luar negara, namun kini sarjana UKM mencurahkan kepakaran hingga ke

ALUMNI TERBILANG UKM

angka dan antartika.

"Sifat keterbukaan dan penerokaan ilmu serta kepakaran yang tinggi cendekiawan kami memberikan ruang kepada UKM menyumbang kepada penubuhan universiti selain kolej universiti baharu di negara ini."

"Kami sangat berbangga kerana UKM tersenarai antara universiti elit apabila tujuh subjek tersenarai dalam 'Top 100' penarafan 'QS World University Rankings,' katanya ketika berucap sempena sambutan ke-48 UKM di Persada Canselor UKM, Bangi, Selangor, baru-baru ini. Hadir sama, Pengerusi Lembaga Pengarah UKM, Tan Sri Dr Ibrahim Saad.

UKM memulakan operasi pertamanya di Lembah Pantai, Kuala Lumpur pada 18 Mei 1970 dengan



MAJLIS berbuka puasa secara tradisi makan dalam dulang meriah sempena ulang tahun ke-48 UKM.

kumpulan pertama pelajar prasiswazah seramai 192 orang dan dua pascasiswazah membabitkan tiga fakulti iaitu Fakulti Sains, Fakulti Sastera dan Fakulti Pengajian Islam.

Noor Azlan berkata, sepanjang 48 tahun penubuhannya, universiti itu menghadapi cabaran cukup besar dalam

melahirkan modal insan memiliki kemahiran tinggi, profesional dan berakhlak mulia, mewujudkan komuniti pelajar serta siswazah bersatu padu dalam kepelbagaian kaum.

Katanya, untuk mencapai matlamat berkenaan, UKM sentiasa berusaha meningkatkan kualiti pengajaran, pembelajaran, penyelidikan



DR Noor Azlan ketika berucap pada majlis ulang tahun ke-48 UKM.

dan kemahasiswaan dalam semua peringkat bertepatan keperluan semasa.

"Kami memperkenalkan program baharu dikenali Tekad 18 meliputi enam bidang keberhasilan utama bagi memastikan UKM kekal cemerlang melahirkan sumber manusia berkualiti sejajar perannya sebagai Pendaulat Amanah Negara," katanya.

Sementara itu, ketika ditemui media selepas menghadiri Majlis Kesyukuran Sambutan Ulang Tahun Ke-48 UKM di

Masjid UKM, Prof Noor Azlan yakin Menteri Pendidikan yang baharu dilantik, Dr Maszlee Malik mampu memimpin Kementerian berdasarkan pengalaman beliau sebagai ahli akademik dan sarjana.

"Sebagai seorang ilmuwan dan mempunyai asas kesarjanaan, Dr Maszlee mampu melaksanakan dasar kerajaan, selain membela warga kementerian dalam pelbagai peringkat. UKM akan memberikan sokongan terbaik kepada Dr Maszlee," katanya.

LAMPIRAN 7
UTUSAN MALAYSIA (HELLO KAMPUS) : MUKA SURAT 2
TARIKH : 18 JUN 2018 (ISNIN)



DR. AIENI MOKHTAR (dua dari kanan) bertukar dokumen MoU dengan Nik Fazila Mohamed Shihabuddin (tiga dari kiri) di UMT, Terengganu, baru-baru ini.

Kerjasama penyelidikan polimer UMT

UNIVERSITI Malaysia Terengganu (UMT) menandatangani memorandum persefahaman (MoU) dengan CCM Polymers Sdn. Bhd dalam penyelidikan pembangunan produk polimer bagi penjagaan kesihatan dan industri sarung tangan. Naib Canselor UMT, **Prof. Datuk Dr. Nor Aieni Mokhtar** berkata, MoU yang ditandatangani dengan CCM Polymers itu adalah platform terbaik bagi meningkatkan ekosistem dalam bidang kajian dan penyelidikan (R&D), pembangunan dan pengkomersialan teknologi produk sarung tangan dan penjagaan kesihatan. "Kerjasama ini melibatkan penyelidikan polimer untuk pembangunan produk baharu serta pengkomersialan produk



yang boleh digunakan untuk industri penjagaan kesihatan dan sarung tangan mengikut keperluan industri.

"Diharap dengan kerjasama ini juga dapat meningkatkan perkongsian sumber dan kemudahan di UMT dan CCM dalam menjalankan kajian dan penyelidikan secara bersama," katanya.

MoU berkenaan ditandatangani Nor Aieni dan Pengarah Urusan Kumpulan CCM

Polymers Sdn. Bhd, Nik Fazila Mohamed Shihabuddin sambil disaksikan oleh Prof. Madya Ir. Dr. Mohammad Fadhli Ahmad dan Dr. Khew Mei Ching.

Sementara itu, Nor Aieni berkata, hasil kesepakatan ini, UMT dan CCM Polymers mempunyai misi iaitu menghasilkan produk R&D yang bertaraf antarabangsa.

Untuk tujuan itu, UMT kini melakukan pembaharuan iaitu membina konsep R&D secara berkelompok.

"Jika dahulu seorang atau dua penyelidik melakukan kerja bersendirian, kini mereka digalakkan melakukannya secara berkelompok.

"Menerusi konsep itu, penyelidik akan berkongsi peralatan, makmal dan mungkin juga kepakaran. Ini lebih menjimatkan masa, tenaga dan wang," katanya.

'FOCUS ON NEW TECH FOR ELECTRIC CARS'

Proton needs to adopt latest industry trend, says economist

KUALA LUMPUR

AS Proton Holdings Bhd vendors upgrade to 4S centres, they must place their focus on new technologies and manufacturing parts for electrical and green cars, said prominent economist Dr Yeah Kim Leng.

This will be in line with Proton's foreign strategic partner Geely's quest to position itself as the number one electric car manufacturer in China.

"If they (Zhejiang Geely Holding Group) are able to transfer some of the technology, it would augur well for Malaysia more so if they make Malaysia the production hub to penetrate Asean," he said yesterday.

The Proton-Geely tie-up was strategic as the car industry was currently highly competitive, he said. "Besides deep financial capabilities, the company also has important technological capabilities," he said.

Yeah said only global players could survive in what was surely an increasingly competitive market.

In contrast, "niche and small players as well as national car players would find it difficult because they do not have economies of scale".



Economist Dr Yeah Kim Leng says transfer of technology from Geely would augur well for Malaysia.

More importantly, they did not have the research and development capacity, and deep financial means to continuously invest in research and development, or improve their designs, he said.

"Of course, moving towards new technologies, electric vehicles and hybrids from internal combustion engines are very important," said Yeah.

As far as vendors and carmakers are concerned, unless they adopt and improve on technolo-

gies, especially in line with the changing trend towards green vehicles, "the future can be pessimistic", he said, adding that the way forward was to switch to electrical and energy-efficient cars.

Such a trend was clearly evident in Europe and it was a matter of time before it catches up in China, said Yeah, adding that China was already moving towards manufacturing electrical cars in a big way.

For Malaysia and Proton, Yeah said: "The quicker we follow this trend, the greater will be the potential for the country to emerge as a regional manufacturing hub for global companies."

"One of the critical success factors is that vendors must have very strong distribution networks, not just in terms of selling but also in terms of servicing and ensuring all their warranties are fulfilled, so that their customer satisfaction is number one in the industry".

For the resale value to be maintained, such support services and a strong network are crucial.

"Proton is doing right by strengthening that kind of distribution network, elevating it to become the showroom of choice for potential car buyers."

Bernama

LAMPIRAN 9
THE SUN (EDUCATION NEWS) : MUKA SURAT 13
TARIKH : 19 JUN 2018 (SELASA)

Excellent innovations

> First City UC Innovation Day connects students to potential employers

FIRST CITY University College's (First City UC) annual Innovation Day serves as a platform for students to connect with the industry as potential employers and partners with longstanding relationships with the institution are invited to the event. The projects on display often impress attendees, some who have extended employment offers to students there and then.

Organised yearly by the Faculty of Engineering and Computing, the event showcases the students' most inventive projects. This year, approximately 50 projects, including the finest ones from the

final year BEng (Hons) in Electrical and Electronic Engineering and BSc (Hons) Software Engineering students, were showcased. Selected projects from the Diploma in Information Technology students were also featured.

The event was graced by First City UC director Prof Tan Sri Dr Teo Chiang Liang, vice-chancellor Prof Dr Mak Chai, CEO Yeong Yin Cheng, and Faculty of Engineering and Computing dean Assoc Prof Dr Christine Lee.

A special guest, Ir Rocky Wong from the Board of Engineers Malaysia was invited to impart his knowledge and share his experience on "Challenges Faced by the Engineering Profession in an Open Market Economy".

This year's best Engineering

and Computing projects received cash awards to motivate and encourage students to continue producing and creating more innovative works. Winners were selected via professional assessment (70%) and through votes (30%).

First City UC constantly works with collaborative partners in relevant digital industries such as IBM Malaysia and Google Malaysia to enhance its students' learning experience. As the Faculty of Engineering and Computing continues to innovate itself to keep with industry demands, there will be more programmes offered to students who wish to pursue such careers particularly in mechanical, mobile computing, networking and security.



Students exhibit their projects at Innovation Day.

LAMPIRAN 10
BERITA HARIAN (BISNES) : MUKA SURAT 26
TARIKH : 20 JUN 2018 (RABU)

MaGIC kekal beroperasi seperti biasa

➔ Kementerian Kewangan sahkan agensi tidak ditutup

Oleh Sofyan Rizal Ishak
dan Zanariah Abd Mutalib
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Operasi Pusat Inovasi dan Kreativiti Global Malaysia (MaGIC) berjalan seperti biasa meskipun ada laporan yang menyatakan Perdana Menteri, Tun Dr Mahathir Mohamad merancang untuk memansuhkan agensi terbabit.

Ketua Pegawai Eksekutifnya, Ashran Ghazi, berkata pihaknya sudah mendapatkan pengesahan daripada Kementerian Kewangan dan dimaklumkan bahawa tiada sebarang perubahan akan berlaku.

"Selepas 9 Mei lalu, tiada sebarang perubahan dalam perkara ini dan kami turut diminta untuk menjalankan program seperti biasa sebagaimana yang anda lihat pada hari ini," katanya pada pelancaran

Program Pemecut Global (GAP) Kohort 2 di Cyberjaya, semalam.

Pelancaran disempurnakan Menteri Kewangan, Lim Guan Eng.

Mengulas lanjut, Ashran berkata, MaGIC tidak memerlukan bantuan tambahan daripada kerajaan bagi menjalankan programnya meskipun kini memiliki 70 kakitangan dan terbabit dengan 900 syarikat pemula tempatan.

"Secara purata, kami menerima peruntukan RM50 juta pada setiap tahun dan sebanyak RM197 juta sudah dibelanjakan sejak 2014," katanya.

Sementara itu, sebanyak 27 syarikat pemula dipilih daripada 961 permohonan untuk menyertai GAP Kohort 2 yang membantu syarikat terbabit melalui kemahiran diperlukan, pengetahuan dan rangkaian untuk menjadi syarikat sedia dilabur dalam tempoh empat bulan serta berpotensi menerokai



Operasi MaGIC berjalan seperti biasa.

Fakta nombor

RM50 JUTA
peruntukan diterima
MaGIC setiap tahun

RM197 JUTA
sudah dibelanjakan
sejak 2014

pasaran Asia Tenggara selepas itu.

Platform bimbingan mentor
Ashran berkata, pada tahun ini GAP diperluaskan untuk memenuhi keperluan syarikat pemula dalam mencari pertumbuhan dengan memasuki pasaran baharu melalui platform bimbingan dedikasi yang menawarkan akses kepada mentor tempatan dan antarabangsa serta akses eksklusif kepada rangkaian komuniti dan alumni MaGIC.

Katanya, GAP menawarkan jaminan kewujudan nilai terbaik bagi syarikat pemula dan peluang membina rangkaian kukuh dengan pelabur dan korporat.

"Untuk tahun ini, kami benar-benar mahu memberi fokus kepada bagaimana kami boleh membantu syarikat pemula ini dalam membina rangkaian bersama ruang modal teroka dan mengukuhkan

kedudukan mereka dalam menjamin dana selamat dan berpotensi atau komitmen pelabur dalam bentuk lain," katanya.

GAP menyediakan bimbingan selama empat bulan daripada pakar perniagaan dan teknikal, akses terus ke rakan laluan ke pasaran, pas pelawat profesional untuk enam bulan bagi syarikat yang tidak berpangkalan di Malaysia, akses untuk ruang bekerjasama, kemudahan penginapan dalam tempoh program terbabit dan nilai manfaat melebihi AS\$500,000 daripada Amazon Web Services, Canva, iPay88, EasyParcel dan Hubspot.

Ia evolusi daripada Program Pemecut MaGIC (MAP) yang membawa GAP ke pentas global selepas tiga kohort pemula Malaysia dan serantau yang berjaya di mana sehingga kini sebanyak 200 syarikat pemula menamatkan MAP dan GAP.

LAMPIRAN 11
HARIAN METRO (SETEMPAT) : MUKA SURAT 67
TARIKH : 20 JUN 2018 (RABU)

MAGIC

building great entrepreneurs



Operasi seperti biasa

ASHRAN di hadapan pejabat MaGIC di Cyberjaya.

■ MaGIC tegas dapat pengesahan Kementerian Kewangan, nafi laporan agensi bakal dimansuhkan

Sofyan Rizal Ishak
dan **Zanariah Abd Mutalib**
bisnes@nstp.com.my

Cyberjaya

Pusat Inovasi dan Kreativiti Global Malaysia (MaGIC) menegaskan operasi mereka tetap berjalan seperti biasa meskipun ada laporan menyatakan Perdana Menteri Tun Dr Mahathir Mohamad merancang memansuhkan agensi terbabit.

Ketua Pegawai Eksekutifnya Ashran Ghazi berkata, pihaknya mendapat pengesahan daripada Kementerian Kewangan dan dimaklumkan tiada sebarang perubahan berlaku.

"Selepas 9 Mei lalu, tiada sebarang perubahan dalam perkara ini dan kami turut diminta menjalankan program seperti biasa sebagaimana yang anda lihat hari

ini," katanya pada pelancaran Program Pemecut Global (GAP) Kohort 2 di sini, semalam.

Hadir sama Menteri Kewangan Lim Guan Eng yang menyampaikan ucapan perasmian bagi program itu.

Beliau berkata, MaGIC tidak memerlukan bantuan tambahan daripada kerajaan bagi menjalankan program meskipun memiliki 70 kakitangan dan terbabit dengan 900 syarikat pemula tempatan.

"Secara purata, kami menerima peruntukan RM50 juta setiap tahun dan sebanyak RM197 juta sudah dibelanjakan sejak 2014," katanya.

Sementara itu, sebanyak 27 syarikat pemula dipilih

daripada 961 permohonan untuk menyertai GAP Kohort 2 yang membantu syarikat terbabit melalui kemahiran diperlukan, pengetahuan dan rangkaian untuk menjadi syarikat sedia di labur dalam tempoh empat bulan serta berpotensi menerokai pasaran Asia Tenggara selepas itu.

Ashran berkata, tahun ini GAP diperluaskan untuk memenuhi keperluan syarikat pemula dalam mencari pertumbuhan dengan memasuki pasaran baru melalui platform bimbingan dedikasi yang menawarkan akses kepada mentor tempatan dan antarabangsa serta akses eksklusif kepada rangkaian komuniti dan alumni MaGIC.

Menurutnya, GAP menawarkan jaminan kewujudan

nilai terbaik bagi syarikat pemula dan peluang membina rangkaian kukuh dengan pelabur dan korporat.

"Kami mahu memberi fokus kepada bagaimana kami boleh membantu syarikat pemula dalam membina rangkaian bersama ruang modal teroka dan mengukuhkan kedudukan mereka dalam menjamin dana selamat dan berpotensi atau komitmen pelabur dalam bentuk lain," katanya.

GAP sedia bimbingan selama empat bulan daripada pakar perniagaan dan teknikal, akses terus ke rakan laluan ke pasaran, pas pelawat profesional untuk enam bulan bagi syarikat yang tidak berpangkalan di Malaysia, kemudahan penginapan dalam tempoh program terbabit dan nilai manfaat melebihi AS\$500,000 daripada Amazon Web Services, Canva, iPay88, EasyParcel dan Hubsport.

FAKTA

Sebanyak 27 syarikat pemula dipilih daripada 961 permohonan menyertai GAP Kohort 2

LAMPIRAN 12
KOSMO (NIAGA) : MUKA SURAT 52
TARIKH : 20 JUN 2018 (RABU)

MaGIC beroperasi seperti biasa tanpa ada perubahan

CYBERJAYA - Pusat Inovasi dan Kreativiti Global Malaysia (MaGIC) beroperasi seperti biasa meskipun terdapat laporan media yang menyatakan Perdana Menteri, Tun Dr. Mahathir Mohamad bercadang untuk membubarkannya.

Ketua Pegawai Eksekutif MaGIC, Ashran Gazi berkata, agensi itu telah memeriksa dengan Kementerian Kewangan dan dimaklumkan bahawa tiada sebarang perubahan.

"Selepas 9 Mei lalu, ia beroperasi seperti biasa dan tidak ada perubahan berkaitannya.

"Kami diberitahu untuk menjalankan program seperti biasa dan itulah yang dilakukan hari ini," katanya kepada pemberita pada majlis pelancaran Program Pemecut

Global (GAP) MaGIC untuk tahun kedua di sini semalam.

Turut hadir, Menteri Kewangan, Lim Guan Eng di sini semalam.

Ashran berkata, agensi yang memiliki 70 kakitangan itu pada masa ini terlibat dengan 900 syarikat pemula niaga tempatan dan tidak memerlukan geran tambahan daripada kerajaan untuk menjalankan programnya.

"Secara purata peruntukan kami daripada kerajaan adalah sebanyak RM50 juta setahun dan sejak 2014, kira-kira RM197 juta telah dibelanjakan," maklum beliau.

Mengenai GAP, beliau berkata, sebanyak 27 syarikat pemula niaga telah dipilih daripada sejumlah 961 permohonan untuk menyertai program



ASHRAN (empat dari kiri) dan Guan Eng (empat dari kanan) beramah mesra dengan para peserta GAP sempena pelancaran program berkenaan di Cyberjaya semalam.

selama empat bulan itu.

Program berkenaan akan melengkapkan peserta dengan kemahiran, pengetahuan dan rangkaian yang diperlukan untuk memastikan mereka menarik pelaburan itu.

"Selain manfaat secara langsung, GAP juga membantu usahawan yang baharu berkecimpung dalam industri dan yang sedang merancang untuk membawa perniagaan ke aras lebih tinggi untuk ber-

hubung dengan usahawan global, berkongsi pengetahuan dan pandangan berbeza serta menerokai peluang pasaran di Asia Tenggara," ujarnya.

Syarikat pemula niaga dipilih adalah dari 10 nega-

ra dan merangkumi pasaran khusus yang utama seperti penjagaan kesihatan, gaya hidup, pendidikan, teknologi kewangan dan awan, inovasi sosial, rantaian bekalan, bandar pintar serta sektor kreatif.

GAP yang dikendalikan MaGIC, menyediakan bimbingan oleh pakar-pakar teknikal dan perniagaan, akses secara langsung kepada rakan kongsi untuk membantu memasuki pasaran, pas pelawat profesional enam bulan untuk peserta yang tidak menetap di Malaysia, akses kepada ruang kerja bersama.

Ia juga menyediakan manfaat bernilai lebih AS\$500,000 (RM2 juta) daripada Amazon Web Services, Canva, iPay88, EasyParcel dan sebagainya.

LAMPIRAN 13
THE SUN (NEWS WITHOUT BORDERS) : MUKA SURAT 2
TARIKH : 20 JUN 2018 (RABU)



Lim meeting Global Accelerator programme participants at the Malaysian Global Innovation and Creativity Centre yesterday. Also present was the centre's chief executive officer Ashran Ghazi (third from left).

Support for social, technological entrepreneurs

CYBERJAYA: Finance Minister Lim Guan Eng yesterday attended an event hosted by the Malaysian Global Innovation and Creativity Centre (Magic).

At the event, during which the centre's "Global Accelerator Programme" was launched, Lim expressed support for social and technological entrepreneurs.

"There must be determination, resilience and sacrifice to achieve your dreams. In the end, it all comes down to people and values," he said in his speech to about 200 attendees.

"We need to shape a future that works for all of us by empowering the people."

Lim added the RM1 billion pledge in Pakatan Harapan's manifesto for the Young Entrepreneurs Empowerment Fund will have to be delayed until the government stabilises its finances.

"The government remains committed to delivering promises contained in the election pledge. However, with the country's debt at RM1 trillion, we need some time to fulfil this.

"I hope you can give us some time. So far, we have fulfilled our promises on the Goods and Services Tax and BRiM."

On the future of the centre, Lim said: "I have nothing new to say. If there is

something new, I will say it."

Lim's response came after the fate of several government agencies, including Magic, were called into question during the first Cabinet meeting.

However, Magic chief executive officer Ashran Ghazi said the centre was running "as usual" after he met Finance Ministry officials following reports of the centre's possible dissolution was published.

However, Ashran said budget cuts for Magic would be expected. It is learnt Magic had been receiving RM50 million budget from the government annually since its inception in 2014. - by **G. Surach**

LAMPIRAN 14
NEW STRAITS TIMES (NATION) : MUKA SURAT 3
TARIKH : 20 JUN 2018 (RABU)

Business as usual for MaGIC despite talk about dissolution

CYBERJAYA: It is business as usual for Malaysian Global Innovation & Creativity Centre (MaGIC) despite reports stating that Prime Minister Tun Dr Mahathir Mohamad is looking to dissolve it.

Chief executive officer Ashran Ghazi said the agency had been assured by the Finance Ministry (MoF) that no changes were forthcoming.

"After the 14th General Election on May 9, we were not told of

any changes and was, in fact, told that it was "business as usual" as you can see here," he said at the launch of the Global Accelerator Programme (GAP).

Ashran stressed that MaGIC was not looking for additional funding from the new Pakatan Harapan government despite employing only 70 people and working with more than 900 Malaysian start-ups.

"We receive some RM50 million allocation every year and have

utilised RM197 million since 2014," he said.

A total of 27 start-ups had been selected from 961 applications to participate in the second round of GAP, which helps the new firms in various areas, including providing expertise, knowledge and networking.

The start-ups will be ready to invest within four months before expanding their wings across Southeast Asia.

"For this year, we focus more on

access to capital by working closely with venture capitalists and integrating them into GAP," he said.

"This will also expose Malaysian start-ups to more opportunities for real investments and overcome the big hurdle of raising capital."

Run by MaGIC, the programme provides four months of mentoring from technical and business experts, direct access to route-to-market partners, such as



Ashran Ghazi

Google, Malaysia Airlines Bhd, Maybank Group and Media Prima.

The programme was officiated by Finance Minister Lim Guan Eng.

LAMPIRAN 15
MALAY MAIL (TOP NEWS) : MUKA SURAT 7
TARIKH : 20 JUN 2018 (RABU)



Lim and Ashran at the launch of the second batch of the Global Accelerator Programme at MaGIC's campus in Cyberjaya.
 — Picture by Azinuddin Ghazali

Business as usual for govt entrepreneurs' seed fund

CYBERJAYA — It is business as usual at the Malaysian Global Innovation and Creativity Centre (MaGIC) despite reports that it may be abolished following talks during the first Cabinet meeting of the Pakatan Harapan government.

Its chief executive officer Ashran Ghazi said the agency had met the Finance Ministry within a week of the Cabinet meeting and was told nothing had changed.

"We are under the Finance Ministry so we report to them. After our meeting, the ministry told us it was 'business as usual'.

I can't remember the exact date but I remember it was within a week of media reports that MaGIC might be axed," he said.

Ashran was speaking at a press conference held in conjunction with the launch of the second batch of MaGIC's Global Accelerator Programme here.

Ashran also said although the agency is carrying out its operation as normal, he expected MaGIC to face budget cuts.

MaGIC receives an annual budget of RM50 million, and since its inception in 2014, it has received a total of

RM197 million.

Finance Minister Lim Guan Eng, who was present at the launch, declined to comment on the agency's future.

"I have nothing new to say. If there is something new to say, I will say it. That's all," said Lim.

He expressed support for social and technological entrepreneurs during the event's question and answer session.

Lim also said the RM1 billion pledge in the PH manifesto for the Young Entrepreneurs Empowerment Fund will

have to be delayed until the government stabilises its finances.

"The government remains committed to delivering its election pledges. However, with the country's debt at RM1 trillion, we need to bring stability to our finances first. I hope you give us some time," he said.

"We have fulfilled our principle promise on GST and Bantuan Sara Hidup Rakyat (formerly known as BR1M)."

He earlier told attendees about the need for determination, resilience and sacrifice in order to achieve their dreams.

LAMPIRAN 16
HARIAN METRO (MINDA) : MUKA SURAT 22
TARIKH : 20 JUN 2018 (RABU)

Cabaran pekerjaan pada masa depan

Pelbagai cabaran akan dihadapi oleh generasi akan datang dalam tempoh sepuluh tahun lagi terutama dalam bidang pekerjaan. Ia disebabkan pengaruh kuat Internet, teknologi digital dan penguasaannya di dunia yang juga membatikan bidang pekerjaan tertentu.

Pada masa ini penggunaan telefon di pondok telefon atau mengirim surat melalui peti surat sudah berkurangan, malah boleh dikatakan tidak berlaku lagi. Hal ini disebabkan semua orang sudah memiliki telefon pintar yang boleh digunakan pada bila-bila masa dan di mana saja. Begitu juga banyak surat yang sudah dihantar melalui e-mel, pos laju dan sebagainya.

Banyak juga kedai buku, majalah dan akhbar yang sudah tutup kerana ketiadaan pembeli. Manakala banyak kedai buku yang besar kini tidak lagi hanya menjual buku, majalah dan akhbar malah menjual alat tulis dan barangan lain yang diperlukan oleh pembeli.

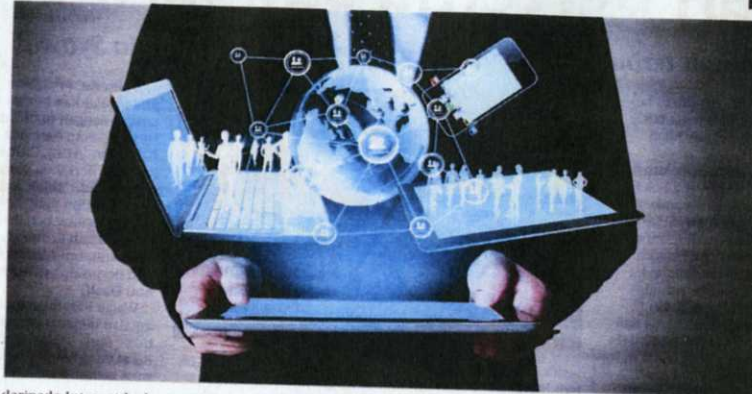
Fenomena ini adalah biasa berikutan perubahan dan kemajuan dunia tanpa sempadan di era globalisasi. Oleh itu, generasi muda pada masa kini mestilah melengkapi ilmu dan kemahiran tinggi berkaitan Internet, teknologi digital dan sebagainya.

Kajian dan tinjauan daripada sumber perniagaan dalam mendapati enam pekerjaan yang mungkin tiada lagi dalam jangka sepuluh tahun akan datang. Antaranya, juruwang runcit, telepemasaran, ejen pelancongan, pemandu teks, penerbitan dan percetakan serta pekerja pos.

Hal ini disebabkan peranan mereka akan diambilalih oleh penguasaan Internet yang lebih pantas, cepat dan berkesan. Banyak pekerjaan yang disebutkan di atas akan diambilalih oleh mesin, komputer dan juga pelbagai perkhidmatan yang menggunakan telefon pintar.

Perubahan ini juga berlaku dalam rumah tangga apabila pelbagai mesin diperkenalkan bagi memudahkan kerja suri rumah dengan pantas dan berkesan. Peralatan seperti robot, mesin dan peralatan memasak ini akan memudahkan suri rumah dan mempercepatkan kerja mereka dan tidak lagi memerlukan pembantu rumah yang boleh dipesan melalui telefon pintar dan dihantar ke rumah dengan cepat.

Teknologi digital menguasai pelbagai bidang pekerjaan pada masa kini. Dunia digital membolehkan telefon pintar merakam video, wang disimpan pada sekeping kad plastik dan carta muzik terkini diperolehi



daripada Internet ke komputer dalam sekelip mata.

Perubahan digital ini sangat pantas dan kelengkapan elektronik saling berfungsi serta berkomunikasi menggunakan bahasa digital yang serupa. Tidak hairanlah lebih separuh daripada telefon di dunia ialah telefon pintar yang kebanyakannya menggunakan teknologi digital bagi melaksanakan pekerjaan dan mengawal pekerja.

Kajian menunjukkan kira-kira 210 negara mempunyai hubungan Internet. Sementara itu, kurang

daripada 20 negara tidak mempunyai Internet. Kajian mendapati setiap hari berbilion e-mel dihantar ke seluruh dunia.

Kita sering tidak menyadari bahawa kita sedang menggunakan teknologi digital. Namun begitu, ia merevolusikan cara kita menjalani kehidupan, bekerja, belajar dan bergembira melalui lagu dan video yang dipaparkan.

Teknologi digital menjadikan urusan kita lebih pantas, selamat, mudah dan terjamin berbanding menjalankan urusan dengan cara lama. Sebagai contoh, pembelian

barangan dengan menggunakan pembayaran e-bank yang pantas, selamat dan berkesan.

Satu kelebihan teknologi digital ialah ia membolehkan kita mencipta alat canggih seperti komputer dan telefon mudah alih yang boleh menghantar dan menerima serta memproses maklumat. Satu lagi kelebihan ialah teknologi digital membolehkan orang ramai memperbaiki hidup mereka.

Justeru, dengan begitu banyak bidang pekerjaan dan maklumat digital yang tersebar luas di serata

dunia, kita memerlukan cara baru untuk mengendalikannya dengan cepat dan berkesan. Lantaran itu, generasi muda yang mempunyai ilmu pengetahuan dan kemahiran tinggi dalam bidang ini seharusnya berusaha meneroka serta menguasainya ke arah kebaikan.

Tidak hairanlah pada masa kini manusia begitu sibuk untuk mengejar masa dan melayari Internet melalui telefon pintar. Kajian menunjukkan tidak ada kuasa teknologi digital yang lebih baik daripada Internet. Rangkaian komunikasi seluruh dunia ini membolehkan manusia berkongsi kata-kata, gambar bunyi dan juga filem dengan menggunakan komputer serta telefon pintar mereka yang kini sudah menjadi perkara biasa.

Lebih raya maklumat bergerak pantas setiap saat. Justeru, muat turun adalah aktiviti untuk menerima maklumat daripada Internet ke telefon pintar atau komputer, manakala muat naik adalah aktiviti menghantar maklumat daripada komputer atau telefon pintar anda kepada Internet. Apa yang paling penting keimanan dan kebijaksanaan akal mesti menjadi pengawal yang menurus kepada perbuatan bagi kebaikan sejagat.

Penulis pemegang ijazah PhD Persuratan Melayu, Universiti Kebangsaan Malaysia (UKM)



Kedudukan daya saing digital Malaysia jatuh

Oleh AKMYR SYAHAR AZWA
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■ KUALA LUMPUR 19 JUN

MALAYSIA jatuh tiga anak tangga kepada kedudukan ke 27 dari 63 buah negara dalam senarai Daya Saing Digital Dunia 2018 oleh Institut Pembangunan Pengurusan (IMD).

Menurut IMD, majoriti atau sebanyak 29 buah negara dalam kajian tersebut mengalami peningkatan dalam tahap daya saing digital mereka.

Jelasnya, kira-kira 40 peratus atau 26 buah negara mencatatkan penurunan, manakala hanya lapan buah negara kekal di kedudukan yang sama.

"Dalam kedudukan keselu-

han, Singapura jatuh dari kedudukan pertama kepada kedua.

"Sementara itu, Amerika Syarikat mengambil alih kedudukan teratas, diikuti dengan Singapura, Sweden, Denmark dan Switzerland," jelas laporan kajian tersebut dalam kenyataan sini hari ini.

Jelas IMD, keputusan itu menunjukkan beberapa negara termasuk Malaysia mengalami 'ketidakseimbangan penyesuaian' atau ketidaksepadanan antara tahap latihan dan pendidikan yang tinggi dengan sikap mengadaptasi digitalisasi.

Senarai kedudukan berkenaan yang mula diperkenalkan pada Mei 2017, mengkaji perubahan dalam transformasi teknologi sesebuah negara.

Ia memberikan cara kepada

pembuat keputusan dalam sektor awam dan swasta untuk mentafsir dan menangani perubahan-perubahan terbabit.

Menurut IMD, objektif kedudukan daya saing digital itu adalah untuk menilai sejauh mana sesebuah negara meneroka teknologi digital yang membawa kepada perubahan dalam kerajaan, perniagaan dan masyarakat.

"Sebagai tambahan, ia juga menyediakan syarikat-syarikat dengan keupayaan untuk mencari peluang yang lebih baik bagi mengukuhkan penciptaan nilai pada masa depan," jelasnya.

Kedudukan tersebut ditentukan menerusi 50 petunjuk terpilih yang dibahagikan kepada tiga faktor iaitu pengetahuan, teknologi dan ketersediaan masa depan.

Malaysian crowned champion at UK science fest

USM lecturer wows judges at international competition with talk on tuberculosis

A BIOLOGICAL science lecturer from Malaysia recently beat 27 other science communicators from across the world to claim the title of 2018 FameLab International Champion in the United Kingdom.

Siti Khayriyyah Mohd Hanafiah, better known as Kye, who works at Universiti Sains Malaysia, spoke on tuberculosis control in front of a live audience at the Cheltenham Science Festival held at the Arena in Cheltenham, UK.

The 33-year-old is the second Malaysian to be crowned champion of the international competition after Prof Dr Abhimanyu Veerakumarasivam, who won the title

in 2016.

"When I took stage and was about to speak, I dropped all anxiety and nerves and just committed to that moment, it was really quite magical.

"Being able to connect with the audience was great. I had the opportunity, thanks to FameLab," Kye said.

She won the judges' hearts with her calm and engaging presence on stage, fine storytelling skills and clarity of content.

The judges were science writer and broadcaster Vivienne Parry; Physics and Astronomy professor, author and science communicator Clifford Johnson; as well as Wellcome Trust acting creative and



Kye (in headscarf) receiving the award after bagging the 2018 FameLab International Champion title in the UK.

partnerships lead Farrah Nazir.

Parry said: "People think that being a good science communicator is about being an extrovert.

"But what Kye showed us was that quiet authority and stunning clarity of content is the thing that really communicates best to a very wide audience."

Cheltenham Festivals education director Ali Mawle said: "FameLab united the world through a passion for science and for sharing it with the public.

"Kye embodied the 3Cs - content, clarity and charisma; she and the other finalists demonstrated how much FameLab has raised the bar for science communication

since it began in 2015."

This year's finals featured contestants from 27 countries.

In Malaysia, FameLab is co-organised by British Council and Malaysian Industry-Government Group for High Technology (MIGHT). The Malaysia National Final was held in May where 10 finalists took stage in front of an audience of 400 people.

Since 2005, FameLab has grown into a leading science communication competition.

A partnership with the British Council since 2007 has seen the competition go global with more than 10,000 young scientists and engineers participating to-date.

LAMPIRAN 19
UTUSAN MALAYSIA (MEGA SAINS) : MUKA SURAT 16
TARIKH : 21 JUN 2018 (KHAMIS)

Oleh LAUPA JUNUS
 laupajunus@hotmail.com

TAHUKAH kita bahawa penggunaan perkapita ikan di Malaysia ketika ini adalah 58 kilogram (kg). Justeru ikan merupakan sumber protein yang penting bagi rakyat negara ini.

Di manakah kita memperoleh sumber perikanan ini secara berterusan?

Sumber ikan untuk makanan kita diperoleh daripada dua punca iaitu perikanan laut dan akuakultur.

Kementerian Pertanian dan Industri Asas Tani sebelum ini menyasarkan pengeluaran perikanan meningkat kepada 3.02 juta tan metrik menjelang 2020 iaitu 1.57 juta tan metrik ikan laut dan 1.44 juta tan metrik daripada akuakultur.

Jabatan Perikanan pula turut memfokus kepada pembangunan akuakultur menerusi projek utama bawah Bidang Keberhasilan Ekonomi Utama Negara (NKEA) sektor pertanian sehingga 2020.

Sasaran pengeluaran akuakultur bawah Dasar Agromakanan Negara (DAN) adalah sebanyak 1.443 juta tan metrik bernilai RM2.07 bilion iaitu 50 peratus daripada jumlah keseluruhan pengeluaran ikan 3.02 juta tan yang bernilai RM13.02 bilion.

Justeru sektor perikanan ini

Biofloc bantu kelestarian akuakultur

mampu menjaga keuntungan dan bernilai tinggi dari segi ekonomi dan pasarannya pula besar.

Sejajar dengan matlamat tersebut, industri akuakultur antara yang kini diberi perhatian besar sebagai antara penyumbang utama dalam bidang pertanian dan makanan negara. Mudahnya, senario perikanan negara menjanjikan sesuatu yang mengujakan dalam konteks ekonomi dan penjaan pendapatan.

Berdasarkan laporan Pertubuhan Makanan dan Pertanian (FAO) Pertubuhan Bangsa-Bangsa Bersatu (PBB), pada 2016, sektor akuakultur membekalkan kira-kira 10.42 kg ikan sebagai sumber makanan kepada manusia.

Namun, industri ini sebenarnya berdepan dengan isu

Inovasi Rapid Biofloc dibangunkan bagi mengurangkan masalah kerosakan alam sekitar dan memaksimumkan pengeluaran udang putih (*Penaeus vannamei*).

alam sekitar seperti penempatan hutan bakau dan pembuangan sisa daripada kolam ternakan.

Bagi menepis tanggapan bahawa sektor berkenaan tidak boleh beroperasi secara lestari,



MEMANTAU pembentukan biofloc dalam bekas.

BIOFLOC dihasilkan dengan harapan melestarikan industri akuakultur.

seorang penyelidik Universiti Malaysia Terengganu (UMT) Dr. Nor Azman Kasan berjaya menghasilkan teknologi yang mampu mengatasi isu alam sekitar terutama berkaitan pencemaran.

Hasil penyelidikan tersebut dikenali sebagai *Rapid Biofloc* iaitu teknologi hijau bagi pengurusan kualiti air serta kesihatan udang ternakan. Penyelidikan tersebut dilaksanakan oleh sekumpulan penyelidik dari Institut Akuakultur Tropika (Akuatrop) UMT, Kuala Terengganu.

Kumpulan tersebut diketuai Dr. Nor Azman Kasan dan dianggotai Prof. Dr. Najiah Musa, Prof. Dr. Mhd. Ikhsanuddin Abdullah, Dr. Sharifah Noor Emilia Syed Jamil Fadaak, Arif Azizi Che Harun, Nor Aini Huda Mohammad, Amyra Suryatie Kamaruzan dan Ahmad Najmi Ishak.

Dr. Nor Azman berkata, *biofloc* merupakan sejenis agregat yang mengandungi mikroorganisma

Rapid Biofloc mengandungi pelbagai jenis mikroorganisma bermanfaat yang dapat dijadikan sebagai sumber makanan tambahan bernutrien tinggi.

Inovasi berkenaan boleh diaplikasikan kepada akuakultur lain.

Mengandungi protein mikrob tambahan yang sesuai untuk pengkulturan organisma.

Rapid Biofloc telah difail untuk dipatenkan pada September 2017.

dan partikel-partikel bahan organik yang membantu untuk mengekalkan kualiti air serta menyediakan protein mikrob tambahan dalam industri ternakan udang.

Rapid Biofloc mampu mengoptimalkan kualiti air ternakan menerusi mekanisme asimilasi bahan organik oleh mikroorganisma di dalam *biofloc*.

Mengandungi mikrob berfaedah seperti probiotik, diatom, alga mikrob, protozoa dan fungi.

Akuakultur lain yang boleh memanfaatkan teknologi ini

- Ternakan ikan hiasan
- Ternakan ketam nipah
- Pelbagai spesies udang (*Penaeus vannamei*, *P. monodon*, *M. rosenbergii*)
- Ternakan berkualiti dan permintaan tinggi seperti udang kara air tawar, kerapu dan siakap.

Inovasi *Rapid Biofloc* merupakan satu kejayaan bagi mengurangkan masalah kerosakan alam sekitar dan memaksimumkan pengeluaran udang putih (*Penaeus vannamei*).



DR. NOOR AZMAN KASAN memasukkan inokulum atau kultur semula bagi mempercepat pembentukan *biofloc* di dalam tangki ternakan.

LAMPIRAN 20
THE STAR (EDUCATION GUIDE) : MUKA SURAT 15
TARIKH : 21 JUN 2018 (KHAMIS)



The University of Southampton Malaysia enables students to spend their first two years in Malaysia combined with the final two years at a research-centred university in the UK.

Workshops on coding and creating apps

AN ENGINEERING student seated in a chair within the computer room, swiped his fingers back and forth across the screen of an Android phone.

The digital movements correspond as commands to a robot, which bulldozes through wooden blocks set up like a castle.

The robot together with a mobile app, is among the many projects of the students of the University of Southampton Malaysia Campus.

These projects will be exhibited during the University's Engineering Info Day in Kuching, Sarawak on June 23.

"The robot teaches students coding skills, principles of engineering design, and the importance of teamwork," said university lab demonstrator and PhD student, Ivan Ling, adding that students could derive other benefits from coding and creating apps.

They can, for instance, learn "persistence and grit" when the app inevitably does something unintended.

Ling, a Sarawakian, thinks that bringing the coding class to Kuching during Southampton's Engineering Info Day is a great opportunity for students to nurture their interest in science, technology, engineering and mathematics (STEM) fields.

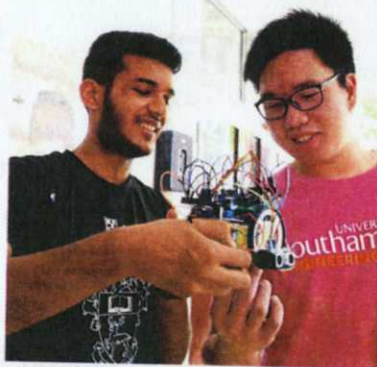
Students joining the Engineering Info Day will need to bring their own Android phones for the free workshop.

The specially designed Android MAD (Mobile App Development) Workshop introduces young coders to the way computers think by creating precise commands into the correct sequence to create a working app.

Aside from the MAD workshop, the Engineering Info Day will feature educational talks and other workshops such as 3D printing and creating brush robots.

Those interested can speak to academics on their preferred engineering courses, or chat to current students about their own experiences on what life is like at the University of Southampton Malaysia campus.

The Southampton Engineering Info Day



Guests to the Info Day can look forward to alumni speakers, free engineering workshops on flight simulation, 3D printing and more.

will be held on June 23 from 10am to 5pm at the Tegas Digital Innovation Hub B325-B329, Level 3, Block B2, ICOM Square Kuching, Sarawak.

The University of Southampton Malaysia Campus, an international branch campus of the University of Southampton, is located in Educity, Iskandar Malaysia, Johor.

Established in 2012, the local campus offers MEng in Mechanical Engineering, MEng Aeronautics and Astronautics, MEng Electrical and Electronic Engineering, and Engineering Foundation Year.

Offering a unique student experience, the university enables students to spend their first two years in Malaysia and the final two years at a research-centred university in the UK.

Seats for the Info Day are limited and visitors should reserve online at <http://bit.ly/KuchingInfoDay/>.

■ For details, contact the University of Southampton Malaysia Campus at 07-560 2560 or WhatsApp 017-261 2729, or learn more at <http://www.southampton.edu.my/>

Alternative route to engineering

MEASURES of educational achievement should be revisited.

This is happening in many parts of the world and the days when parents and students search for degree- or diploma-related qualifications are gone.

Parents, in general, are now more tolerant to the dynamics around them and their children.

People are aware of occupations that are critical, skilled, sought-after and strategic.

Degree or diploma qualifications, which are purely academic-centric with lots of theoretical emphasis, could be losing their bandwidth.

Interestingly, students, with the kind of global exposures they are blessed with now, are getting more passionate towards programmes that offer clinical exposures.

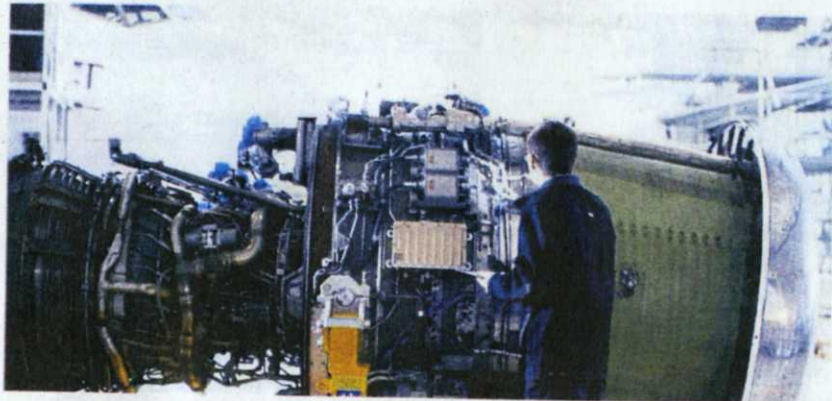
The appetite for practical-based programmes or rather applications-based programmes, such as direct hands-on and hybrids hi-tech simulations, is becoming bigger..

Generally, Malaysians are more aware of qualifications in the form of "professional licences" in order to be employed in highly specialised and rewarding industries.

One such licence is known as the CAAM Part-66 Category A1, the basic licence needed to be qualified as professional personnel to serve and maintain Malaysian aircrafts.

The licence is offered by the Civil Aviation Authority of Malaysia (CAAM) only via accredited or approved training centres.

While many parents and students are still being enticed with



Allied is becoming a clear choice among students and parents as it specialises only in aircraft maintenance and engineering-related quality training.

carrots in the form of degrees or diplomas, actual case scenarios show that students only need licences to be employed in aircraft maintenance and engineering.

With this basic licence and other corresponding type-licences along the way, an aircraft engineer can easily earn a five-figure salary within a span of 10 years.

This is an exciting career path with more students and parents showing interest in excelling in this specialised field of engineering.

Responding to this growing interest and the critical need at the macro level for the right quantity and quality of skilled workforce for aircraft maintenance, repair and overhaul industry in Malaysia, Allied runs a licensing programme that targets SPM leavers.

As an approved training organi-

sation, Allied is strictly monitored by CAAM.

The student population has reached over 100, with five cohorts of male and female students from science and non-science streams.

Allied is becoming a clear choice among students and parents as it is run in a "boutique" fashion – specialising only in aircraft maintenance and engineering-related training.

The programme is 100% compliant to CAAM's stipulations, comes ready with study-loan facilities and is comprehensively packaged with 12 months on-the-job-training with leading players such as Firefly, Malindo, AirAsia and Airod Aerospace.

Allied also offers an embedded certification programme in collaboration with the International

Islamic University of Malaysia, which ensures its graduates are assessed and equipped with "preferred global traits of successful aircraft engineers" that facilitates them to "win" with a guaranteed employment in this highly competitive area of professionalism.

Allied's programme is consolidated with other offerings for those passionate to succeed in specialised modes of learning.

Team Allied can also facilitate parents or students with other forms of non-compliances in the market, to ensure the right choice is made with the right investment.

■ Visit <http://www.aatc.com.my> or call 03-7887 7121 for a focused counselling session and discover the right path towards becoming aircraft engineers.

Scientist launches hunt for Loch Ness 'monster DNA'

INVERNESS (Scotland) — Tales of a giant creature lurking beneath the murky waves of Loch Ness have been around for more than 1,500 years — and one academic hopes the marvels of modern science can finally unravel the mystery.

Neil Gemmell has travelled from the University of Otago in New Zealand to collect water samples in the Scottish lake, in the hope of finding out more about the creatures that inhabit its depths.

"Over 1,000 people claim that they have seen a monster. Maybe there is something extraordinary out there," he said, as he dropped a five-litre probe into the loch.

Gemmell said he would be keeping an eye out for "monster DNA" but the project was more aimed at testing environmental DNA techniques to understand the natural world.

Local resident Adrian Shine said Gemmell's findings could contribute to his own long running research programme — The Loch Ness Project.

The venture was itself inspired by the efforts of earlier international explorers like American Dan Scott Taylor who patrolled the loch in his Beatles-inspired *Yellow Submarine* in the late 1960s.

"I'm sure that some species will be found which have probably not been described. They're more likely than anything else to be bacteria," Shine said.

"If you did find something else — and I do emphasise the if — then you would actually get quite a good handle on what sort of creature, what class of animal, it is."

Theories abound about the true nature of the Loch Ness Monster, from a malevolent, shape-shifting "water horse", to an aquatic survivor of the dinosaur age, right down to logs, fish, wading birds or simply waves which have been blown out of all proportion.

"Anything that you see on the loch that you don't understand can be your Loch Ness



A tourist takes in a view of Loch Ness on the banks of the lake. Gemmell is collecting water samples in the hope of finding out more about the creatures that inhabit its depths. — Picture by AFP

Monster on that day," Shine said.

The earliest chronicles of a creature in Loch Ness are attributed to Saint Columba, who brought Christianity to Scotland in the sixth century.

• The last reported sighting was on March 26 this year by a US couple standing on the ramparts of the majestic ruin of Urquhart Castle.

"They described a large shadow moving

under the water which they estimated to be around 30ft in length," said Dave Bell, skipper of the Nessie Hunter tourist boat.

"Last year we had a record number of sightings: 11 in total."

Bell has never seen anything himself in his many years on the loch, but that does not shake his belief that there is something down there.

"I find it hard to believe that over 1,000

people can be wrong," he said.

The Highlands are experiencing a boom in tourism — and not all of it is related to mythical monsters.

Inverness is the gateway to the North Coast 500, a new 800km trail dubbed "Scotland's Route 66" which attracted 26 per cent more tourists to the area last year, according to the Highlands and Islands Enterprise agency. —AFP

NZ scientist starts 'monster DNA' probe at Loch Ness

INVERNESS: Tales of a giant creature lurking beneath the murky waves of Loch Ness have been around for more than 1,500 years – and one academic hopes the marvels of modern science can finally unravel the mystery.

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"Anything that you see on the loch that you don't understand can be your Loch Ness Monster on that day," Shine said.

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Diskriminasi dalam industri teknologi China

PADA siang hari, Cik Li bekerja di jabatan pemasaran di salah sebuah firma teknologi terbesar China. Pada waktu malam pula, dia melakukan kerja kedua iaitu merakamkan dirinya makan mi atau membuat jenaka secara langsung sebagai cara meraih derma kecil daripada ribuan penonton online.

Li, 28, berkata, dia merupakan salah seorang daripada sekurang-kurangnya lima rakan sekerja wanita di pejabatnya yang bekerja pada waktu malam untuk menambah pendapatan.

Ini kerana dia dan rakan-rakannya menerima bayaran yang sedikit berbanding pekerja-pekerja lelaki selain selalu diabaikan untuk kenaikan pangkat.

Penstriman secara langsung pada lewat malam di platform media sosial YY.com itu berbaloi meskipun dia telah dihukum sebanyak dua kali oleh firmanya kerana bekerja waktu malam.

"Kali pertama saya dihukum, saya bimbang nasib kerjaya saya tetapi kini saya tidak risau lagi," kata Li yang meminta supaya nama pertamanya dan nama majikannya tidak didedahkan.

"Tidak ada apa lagi yang hendak dirisaukan tentang kerja anda apabila anda tahu yang anda akan sentiasa berada di takuk yang sama," ujarnya.

Sejak kebelakangan ini, industri teknologi China telah meningkat dan juara-juara perniagaan teknologi seperti syarikat gergasi e-dagang Alibaba serta Tencent memuncak di pentas global.

Namun, akaun Li yang menunjukkan bayaran gaji berubah-ubah di syarikatnya bagi memberikan kesimpulan bahawa pekerja wanita selalu diketepikan dalam kerancakan industri itu.

Pemberita telah menemui ramai lebih daripada sedozen wanita dan beberapa lelaki di sektor itu yang meliputi pekerja baharu sehingga eksekutif.

Dapatan itu menggambarkan jurutera-jurutera wanita bergelut dengan amalan berat sebelah kepada lelaki dalam industri tersebut.

"Pandangan tradisi ialah



dengan mudah menganggap wanita tidak boleh menjadi pemrogram," kata seorang lelaki, Chen Bin yang merupakan bekas jurutera Microsoft dan pengasas kempen *Teach Girls Coding* yang berpangkalan di Beijing.

Teach Girls Coding ialah kempen untuk menggalakkan lebih ramai wanita menceburi industri teknologi.

"Keadaan sekarang adalah lebih baik berbanding 10 tahun lalu tetapi bilangan wanita yang berkecimpung dalam bidang teknologi sangat sedikit," katanya.

Perdebatan

China bukanlah satu-satunya negara industri teknologi mereka telah menjadi perdebatan kerana kurangnya diversiti di tempat kerja.

Namun, berbanding Amerika Syarikat (AS) yang mengambil tindakan undang-undang berhubung diskriminasi termasuk kepada Uber, Google dan Microsoft Corp, syarikat-syarikat teknologi China secara relatifnya masih samar tentang isu diskriminasi jantina.

Kebanyakan syarikat memberikan data yang sedikit mengenai pengambilan pekerja dan tidak ada pemimpin industri yang berkongsi laporan diversiti sedangkan ia suatu yang menjadi amalan di AS.

Ini mencetuskan syak sama ada wanita di firma-firma China dihalang daripada memikul peranan teknikal dan kepimpinan.

Penny Chen, 29, seorang jurutera perisian yang telah

bekerja dengan sebuah firma e-dagang China JD.com Inc dan sebuah syarikat aplikasi berita popular, Jinri Toutiao.

Baginya, isu perbezaan jantina telah lama berakar umbi dalam budaya masyarakat di negara itu.

Di universiti, guru-guru akan memasangkan pelajar lelaki yang mempunyai gred yang cemerlang dengan pelajar wanita yang cantik untuk aktiviti bilik darjah sebagai ganjaran.

Bagaimanapun, perkara yang sama tidak berlaku kepada gadis yang cemerlang.

Di tempat kerja pula, dia berkata, pekerja-pekerja wanita selalunya ditinggalkan daripada acara-acara sosial yang didominasi lelaki.

Dia menggambarkan satu insiden apabila para pekerja dijadualkan untuk keluar minum bersama.

"Bos kami akan memberitahu pekerja wanita untuk tunggu di luar tetapi ia sebenarnya satu jenaka kerana pekerja lelaki telah meninggalkan mereka terdahulu dengan bas ke restoran," katanya.

Contoh-contoh bersifat seksis (memihak kepada lelaki) di syarikat-syarikat besar China sering dipaparkan di media sosial, adakalanya mencetuskan kemarahan netizen.

Tahun lalu, tular satu video yang menunjukkan acara staf Tencent yang bermain permainan pekerja-pekerja wanita perlu membuka tudung botol dengan kaki dan lutut mereka pada botol yang diletakkan di antara kaki pekerja lelaki. Tencent memohon



WANITA secara umumnya berdepan diskriminasi di China kerana ia telah sebat dalam budaya mereka.

Di sebalik gahnya industri teknologi di China, pekerja-pekerja wanita dikatakan memperoleh gaji lebih rendah berbanding lelaki.

maaf di atas insiden itu.

Firma pengangkutan, Didi Chuxing pula dikritik bulan ini kerana membenarkan pengguna-pengguna aplikasinya untuk memberikan gred kepada fizikal penumpang wanita selepas seorang gadis berusia 21 tahun dibunuh oleh pemandu mereka.

Jurang

Syarikat itu kemudian meminta maaf dan membuat perubahan pada perkhidmatan. Banyak lagi insiden terlepas daripada radar.

Jurang jantina China tidak hanya terhad dalam bidang teknologi. Aspek keseksamaan jantina negara itu jatuh pada tahun 2017 untuk tahun ke sembilan berturut-turut, menjadikan China berada di kedudukan ke-100 berbanding 144 negara yang ditinjau dalam laporan Forum Ekonomi Dunia.

Negara itu berada di kedudukan ke-60 dari segi penglibatan buruh wanita dan ke-70 dalam aspek keseksamaan gaji bagi pekerjaan yang sama.

Lelaki secara puratanya mempunyai pendapatan lebih 7,000 yuan renminbi (RM4,300) berbanding wanita.

Banyak syarikat teknologi terkemuka berkata, mereka sedang mengambil langkah untuk mengubah budaya penguasaan lelaki dengan menukar amalan pemberian gaji untuk menggalakkan diversiti jantina. Begitupun ramai pekerja wanita dalam industri itu mengakui amalan seksis sudah sebat. - Reuters

LAMPIRAN 25
MALAY MAIL (WORLD) : MUKA SURAT 17
TARIKH : 20 JUN 2018 (RABU)

Mission: To dominate space, Moon and Mars

WASHINGTON — President Donald Trump boasted of the US commercial space industry's deep wallet and enterprising spirit, and vowed US dominance in exploration of the Moon and Mars, as well as any future space race.

"America will always be the first in space," Trump said during a speech at the White House on Monday.

"We don't want China and Russia and other countries leading us. We've always led."

"My administration is reclaiming America's heritage as the world's greatest space-faring nation."

The US president called for the Pentagon to create a new America "Space Force" that would become the sixth branch of the American military but requires Congressional approval to take effect.

The idea, which Trump has floated before, has stoked controversy at the Pentagon and among lawmakers.

"We are going to have the Air Force, and we are going to have the Space Force, separate but equal," Trump said.

At the Pentagon, spokeswoman Dana White said "our policy board will begin working on this issue", which has implications for intelligence operations for the Air Force, Army, Marines and Navy.

"Working with Congress, this will be a deliberate process with a great deal of input from multiple stakeholders," White said.

House Armed Services ranking member Adam Smith, a Democrat, said: "If President Trump wants to make such a change within the military services, he should come discuss his proposal with us."

Since his election, Trump has repeatedly vowed to send people back to the Moon for the first time since 1972, in preparation for the first human missions to Mars in the coming decades.

The US commercial space sector is booming, while NASA has shifted from its role as a launcher of rockets during the Apollo era (1961-1972) and the space shuttle era (1981-2011) to mainly a client.

The US space agency has contracted SpaceX and Orbital ATK to ferry supplies to the International Space Station since 2012.

NASA has been unable to send astronauts to space since the shuttle programme ended in 2011, and relies on Russian Soyuz spaceships in the meantime.

SpaceX and Boeing are expected to start regular astronaut missions to low-Earth orbit next year.

NASA is working on its most powerful rocket ever, called the Space Launch System, or SLS, to launch astronauts and their equipment to the Moon and one day, Mars.

The US space agency also wants to build a lunar outpost.

Meanwhile, Trump has signed two directives — one that transfers certain powers from the Pentagon to the Commerce Department, including the regulation of private satellites.

Another directive on space traffic management is aimed at boosting public-private monitoring of objects in orbit so as to avoid collisions and debris strikes.

The Defence Department says there are 20,000 pieces of space debris and 800 operational US satellites circling Earth, a number that grows every year. — AFP

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which has implications for intelligence operations for the Air Force, Army, Marines and Navy.

"Working with Congress, this will be a deliberate process with a great deal of input from multiple stakeholders," White added.

The creation of a new branch of the military cannot happen from one day to the next, as Congress would have to pass a law authoris-

ing it first.

House Armed Services Ranking Member Adam Smith, a Democrat, said that "any change of this kind would have to be legislated by Congress."

"If President Trump wants to make such a change within the military services, he should come discuss his proposal with us," he added. — AFP

Bakal jadi cabang keenam tentera AS

Pentagon tubuh 'tentera angkasa lepas'

■ WASHINGTON 19 JUN

PRESIDEN Amerika Syarikat (AS), Donald Trump mengarahkan Pentagon supaya menubuhkan 'tentera angkasa lepas' baharu yang bakal menjadi cabang keenam tentera negara ini.

Beliau berkata demikian ketika berucap di White House semalam.

"AS akan terus menjadi yang pertama di ruang angkasa lepas. Kita tidak mahu China, Rusia serta negara lain melebihi kami kerana kami sentiasa di hadapan."

"AS bakal mempunyai pasukan tentera angkasa lepas dan fungsinya sama seperti pasukan tentera lain di negara ini," katanya.

Dalam pada itu, jurucakap Pentagon, Dana White memaklumkan bahawa pihaknya akan meneliti isu berkenaan memandangkan perkara tersebut memberi kesan terhadap operasi perisikan pasukan tentera darat, udara, marin dan laut.

Jelasnya, isu berkenaan bakal melibatkan pelbagai input daripada pelbagai pihak berkepentingan.

Selain itu, mewujudkan pasukan tentera baharu tidak boleh berlaku begitu sahaja kerana perlu mendapatkan kelulusan Kongres.

Setakat ini perincian mengenai



AMERIKA SYARIKAT menegaskan usaha mempertahankan negara tidak cukup dengan hanya pembangunan di Stesen Angkasa Lepas Antarabangsa (ISS). - AFP

pasukan tentera angkasa lepas itu masih belum dijelaskan.

Trump mula mengutarakan hasrat untuk terus mendominasi angkasa lepas sejak berkempenn sebagai calon Presiden.

Katanya, usaha mempertahankan negara ini tidak cukup dengan hanya wujud kehadiran rakyat AS di angkasa lepas, sebaliknya perlu terus dominan di ruang tersebut.

Trump juga mengulangi ikrar-

nya menghantar angkasawan ke Bulan untuk kali pertama sejak 1972 selain persediaan manusia ke Marikh.

Sektor komersial angkasa lepas AS semakin berkembang dengan Agensi Pentadbiran Angkasa Lepas dan Aeronautik (NASA) beralih daripada peranannya sebagai pelancar roket ketika era Apollo (1961-1972) kepada pelopor utama penerokaan angkasa. - AFP

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KOSMO (DUNIA) : MUKA SURAT 48
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Marikh akan berada paling dekat dengan Bumi



IMEJ tidak bertarih menunjukkan Planet Marikh.

AGensi

WASHINGTON - Planet Marikh akan kelihatan lebih besar dan terang dalam tempoh beberapa minggu akan datang berbanding 15 tahun lalu, demikian menurut Pentadbiran Aero-nautik dan Angkasa Lepas Kebangsaan (NASA).

Agensi berita *Xinhua* melaporkan bahawa pada 31 Julai depan, Marikh akan berada di orbit paling dekat dengan Bumi, sekitar 57.6 juta kilometer (km) dari planet itu. Ia merupakan jarak Bumi-Marikh paling dekat sejak tahun 2003.

Apabila Marikh dan Bumi berada pada jarak dekat, Marikh kelihatan begitu terang di langit dan lebih mudah dilihat dengan menggunakan mata kasar atau teleskop.

Fenomena itu hanya berlaku sekali

atau dua kali setiap 15 atau 17 tahun. Kali terakhir Marikh berada sebegitu dekat dengan Bumi ialah dalam tahun 2003, sejauh hanya 55.7 juta kilometer sekali gus jarak paling dekat dalam tempoh hampir 60,000 tahun.

"Planet Marikh akan dapat dilihat menggunakan mata kasar pada 31 Julai depan. Ia kelihatan seperti cahaya jingga yang bersinar dan muncul dari arah tenggara selepas matahari terbenam," kata ahli astronomi di Balai Cerap Cincinatti, Dean Regas.

Menurutnya, fenomena itu akan berlanjutan selama beberapa minggu selepas itu. Bagaimanapun, Marikh akan kelihatan pudar menjelang pertengahan Ogos depan apabila ia bergerak jauh dari Bumi dalam orbit mengelilingi Matahari. - Bernama