

I AM UTM

THE MAGAZINE



CONQUERING EVEREST

UTM LAUNCHES

I AM UTM Brand

**UTM ENGINEERING
& TECHNOLOGY
FIELDS IN WORLD TOP 100**

**Nurturing Young
Scientists through UTMShine**

GIVING TO UTM

**UTM-ERICSSON
INNOVATION CENTER FOR 5G**

UTM Portable Water Filter Machine
Helps Purify Drinking Water
in Flooded Areas



I AM UTM
UNIVERSITI TEKNOLOGI MALAYSIA

Your View

We would love to hear from you. If you have any particular news to share, you can make a valuable contribution to the URL below:

<http://corporateaffairs.utm.my/>

M A N A G E M E N T

Vice-Chancellor

Prof. Datuk Ir. Dr. Wahid Omar

Editorial Team

Chief Editor: Prof Dr. Masputeriah Hamzah

Deputy Editor: Dr. Abdullah Mohd. Nawi

Publication Support

Norizan Hj Salleh

Sabri Ahmad

Azlina Siron

Idiana Hamidi

UTM Alumni

Design & Photography

Creative Media Unit, HEK

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What is a university? Is it the people who belong to the university that make it?

With that question in mind, it is with great pleasure that I greet you in this first edition of I AM UTM: The Magazine, with the launching of the I AM UTM brand, hand in hand with the new year. A new year, and a new direction of focus, where challenges should be seen as opportunities.

The year 2016 was one of great triumphs and achievements. Even through trials and tribulations of deep budget constraints, it is the people in UTM who have continued to make dreams and achievements possible. For example, cutting edge membrane research in water technology carried out by Prof. Dr. Fauzi Ismail that enabled the distribution of water purifiers to flood-ravaged areas in Kelantan to better the lives of thousands of flood victims, and the launch of the UTM-Ericsson Innovation Center (IC5G), the first in Malaysia, spearheaded by Prof. Dr. Thareq Abdul Rahman and his team at the UTM's Wireless Communication Centre. This spirit of oneness with UTM, and being part of what UTM is at its core, is not just for professors and researchers, but also staff, postgraduate and undergraduate students, and alumni, each a cog in the machinery that is the University.

It is my hope that 2017 continues to be a year where UTM continues to soar. It is a year where every person in the university realises that the university is not just a place where he or she works or studies. It is the year where they realise that they are not just in the university, but that they ARE the university.

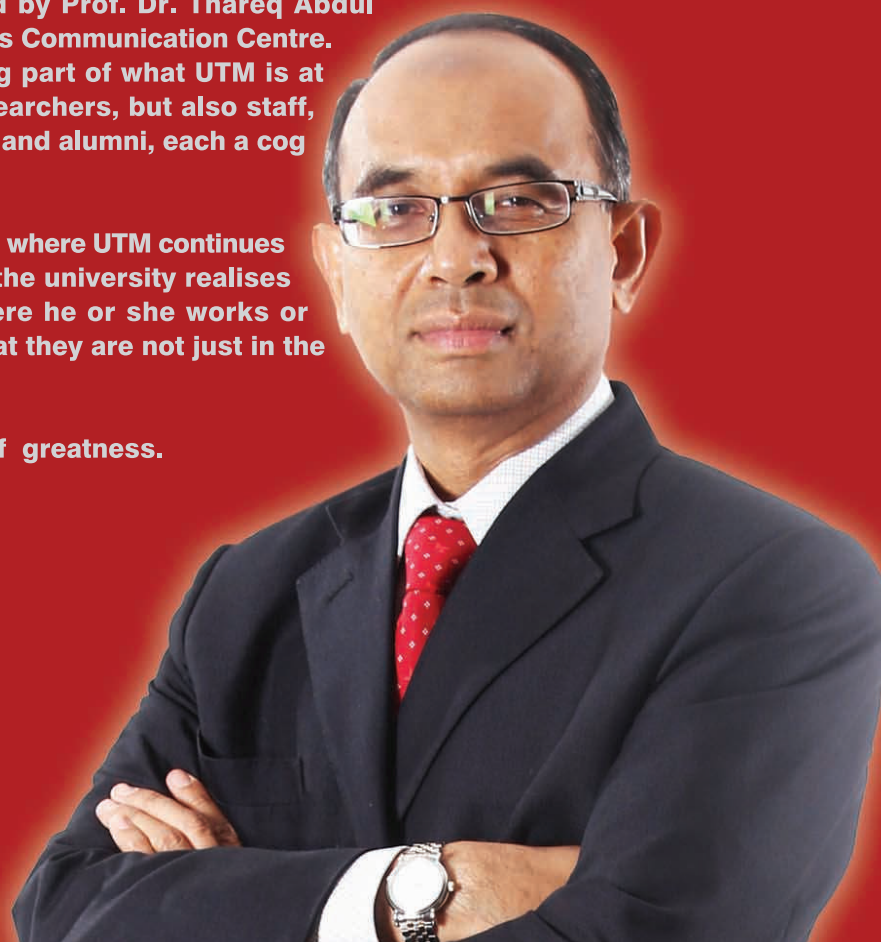
It is a realisation that will plant the seeds of greatness.

I AM UTM.

Are you?



Professor Datuk Ir. Dr. Wahid bin Omar
UTM Vice-Chancellor



UTM Launches I AM UTM Brand

UTM launches its 'I AM UTM' brand during the Vice-Chancellor's Annual Address at the UTM Senate Hall on 16 January 2017. But what exactly is this brand and how does it work for the University? Deputy Director of the Office of Corporate Affairs (Corporate Communication and Branding) Dr Abdullah Mohd Nawi shares his insight into the workings of UTM's latest brand initiative.

The Concept

The I AM UTM brand was launched with great fanfare. The UTM Vice-Chancellor, surrounded by top university management, officiated the ceremony by cutting the ribbon, unveiling the logo for UTM's newest brand initiative. Three words dominate the frame, each unassuming on its own, but combined resonate

Three words dominate the frame, each unassuming on its own, but combined resonate with strength and power.

with strength and power.

The question is what exactly is this brand? To answer this question, we first look at what the brand has been designed to do. The I AM UTM brand is one meant to awaken the sense of ultimate pride in the University.

It focuses on the definition of a university as being not just brick and stone, but the very people in it. Without these people, the university will only remain a collection of buildings.



■ Launch of I AM UTM Brand



■ Michael Herrera, International celebrity fashion designer, UTM resident artist/designer

The brand does not just focus on the researchers & lecturers, but also includes postgraduates, undergraduates, staff, and alumni. This way, everyone in UTM is invited to feel they have an equal stake in the university, and belongs to it. Thus, to answer the question of what the brand is, it is first of all the combination of these three words, to show the embodiment of the university in the personal pronoun. Subsequently, the brand is the logo, showing the words I AM UTM in two separate fonts, with the font for UTM made consistent with the typeface used in the official UTM logo.

The Application

The next question that can be asked is how is this brand used? This answer can be divided into three main applications: Showcase, war-cry, and merchandise.

The I AM UTM logo will be applied on images of people from UTM, past or present, to showcase their achievements and connect it to the pride of belonging to UTM.



■ Nur Fariha Abd. Razak, Best Striker Award for Junior National Championships/UTM student

**UTM is not just brick and stone.
UTM is you. UTM is me. I AM UTM**

The images with the I AM UTM logo branded on them are designed to inspire all that see it, from the university community to the general public. Because of the universality of the featured personas coming from all walks of university life, people within UTM can aspire to be like the them, and to be proud of them and their achievements. People outside UTM will be able to relate to the people in UTM, where young potential students can see UTM students of similar age being showcased, and mature students, and potential staff/researchers see where they could be, and who they could be if they become part of UTM. Next, in a battle, a host's war cry shatters the confidence and morale of its opposition. I AM UTM also becomes this war cry that is shouted in unison at all competitive venues, or in teambuilding exercises. This chant becomes a mantra both as an affirmation of the self as representing the University, as well as an affirmation that the self is indeed an actual part of the University. Additionally, the I AM UTM brand will also be featured on merchandise such as, but not limited to, clothing, stationary, keychains, and lapel pins.

All these applications of the I AM UTM brand reiterate one purpose, and that is for each member of the university community to feel a sense of belonging to the university, and realize that they are indeed what makes the University.

UTM is not just brick and stone.
UTM is you. UTM is me.

I AM UTM.

Note: I AM UTM is a trademark belonging to Universiti Teknologi Malaysia. All use of the phrase and/or the logo requires written approval from the Office of Corporate Affairs, UTM.

UTMShine: The Way Forward

Nurturing Young Scientists through UTMShine (UTM Strategy for Harnessing and Inspiring Top Notch Scientists and Researchers)

Young scientists and researches are the drivers of innovation, acting as agents of change for wealth creation and universal prosperity. The world has now moved from a resource-based economy to a knowledge-based economy. Valuable commodities exist in the form of intangible products like idea generation, trained human capital, research output, and intellectual property, to name a few. In other words, the development agenda can only be achieved with the infusion of innovation, capable of generating added value to products and services rendered.

Innovation has thus become critical for the global economy and can only be sustained by a pool of young talents. Mindful of this, Universiti Teknologi Malaysia (UTM) has taken the initiative to implement structured initiatives under the UTMShine Programme which aims to harness and inspire top notch scientists and researchers among UTM scholars.

The broad purpose of UTMShine is to offer a policy platform bringing together outstanding UTM scholars, fostering excellence not only in their field but also promoting interdisciplinary activities. It puts into place mentoring and support structures, focused training, and transparency and fairness.

As a starting point, 20 aspiring UTM scholars, aged 39 and below, were identified by the Office of the UTM

Deputy Vice-Chancellor (Research and Innovation). These selected young scientists and researchers were then put through a series of structured training programmes involving direct mentoring from experienced researchers.

Apart from the training programme, each participant was also offered a research grant worth RM50,000, with clearly stated outcomes. At the expiration of the grant period, the researchers are required to not only obtain external research grants, but also initiate research collaborations with the industry either at the local or international level.

UTM takes pride in the fact that the UTMShine programme has shown tremendous results. The 20 young scientists and researchers under the UTMShine programme have between them, managed to contribute 8 per cent of the total Quartile 1 (Q1) and Quartile 2 (Q2) university publication in 2014. This percentage has in fact increased nearly twofold with the UTMShine participants increasing their contribution to 13 per cent in Q1 and Q2 publication in 2015.

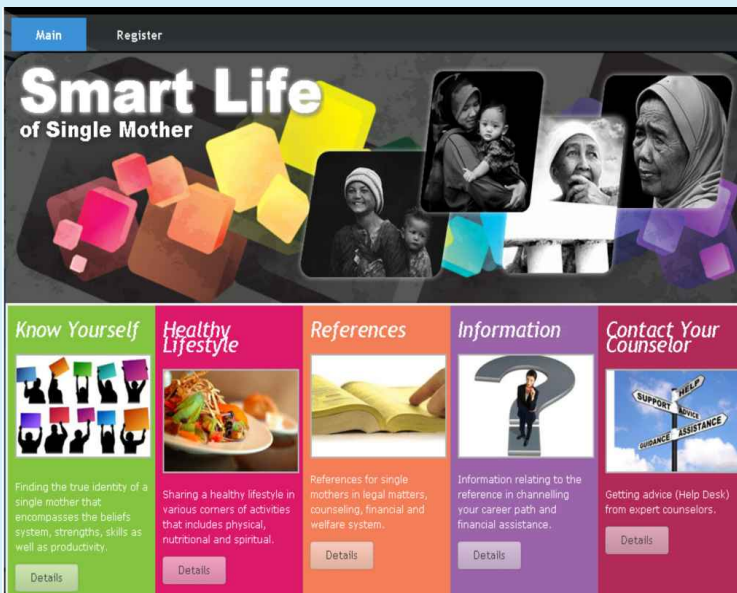
This nurtured group of young researchers has also managed to secure a substantial amount of research grants, contributing towards 5 per cent of the total research grants garnered by the UTM research community. Between the 20 researchers, they have among them attained 4 international research grants, 4 from the private sector, 5 from the Malaysian Ministry of Science, Technology and Innovation, and 13 from the Malaysian Ministry of Higher Education.



Results obtained through the UTMSHine programme suggest that a structured and transparent mechanism can help support young researchers and the innovation system of which they are a part of. Assisting these young researchers in acquiring knowledge, techniques and procedures in research can help them to be globally competitive.

The leadership of these researchers is apparent when each member is a Principle Investigator (PI) on research projects related to the field of their expertise. Among them are also heads of active Research Groups, and also research fellows who

are active in Centres of Excellence. To provide hands-on exposure for UTMSHine members in their roles to the state, they have been appointed as District Liaison Officers to be UTM representatives who connect researchers, District Officers and agencies to the needs of each district in the state of Johor in the project needs of the Johor Institute of Strategic Innovation (Institut Inovasi Strategik Johor or IISJ). They are also responsible for monitoring the performance of projects in each area.



Life of Single Mother: Smart Module System research product by UTM



New paradigm in Braille educational system: research product by UTM

Five UTM Engineering & Technology Fields Ranked Top 100 in the World

Universiti Teknologi Malaysia (UTM) has continued to improve in the 2017 QS World University Rankings by Faculty when five of its engineering and technology fields were listed in the top 100 in the world.

Meanwhile, all UTM's engineering and technology subjects namely Mechanical Engineering, Civil, Electrical, Chemical and Architecture were listed in the top 100 in the world by QS World Rankings by Subject 2017.



The fields are Chemical Engineering, Electrical & Electronic Engineering, Mechanical Engineering, Civil & Structural Engineering, and Computer Science & Information Systems.

The field of Architecture / Built Environment also ranked in top 100 in the world. In the latest rankings released today, UTM's rank in the field of engineering and technology improved from 100 in 2016 to 90 in 2017.

While the field of Social Sciences and Management increased from 211 in 2016 to 204 in 2017 and the Arts and Humanities rose from the position of 372 in 2016 to 296 in 2017.

For the first time, the field of Natural Sciences ranked number 378 among the 400 best in the world. The Mechanical Engineering, Civil Engineering and Computer Science and Information Systems subjects are three new subjects listed in the latest world top

100 for 2017, while Electrical Engineering, Chemical Engineering and Architecture subjects maintained their positions in the top 100 since 2016.

In the latest rankings, four more subjects such as Environmental Sciences and Materials Sciences improved from the 151-200 group in 2016 to 101-150 group in 2017, Education from the 201-250 in 2016 increased to 151-200 in 2017 and Chemistry in the position of 251-300 in 2016 rose to 151-250 in 2017. This means seven subjects have risen to a higher level in 2017 than in 2016.

This year, four new subjects, Biological Sciences, Agriculture and Forestry, Linguistics as well as Modern Languages, have been listed in the QS World Rankings by Subject 2017.

Overall 16 subjects offered by UTM have been listed in the top 400 in the world compared to 12 in 2016. The increase was contributed by the favourable terms of the scores for all indicators, especially academic reputation and citation, to make UTM among the best university in engineering and technology in the country. The latest success was in line with the UTM Global Plan to transform UTM to become one of the world's top 50 universities in the field of engineering and technology in 2020.

The UTM Global Plan 2012-2020 aims to place UTM as a leading university that is known internationally in terms of scientific contribution, human capital development, innovation-based economy, impact on Malaysia and the region, prominence at the international level as well as becoming a brand to be reckoned with.

UTM Wins Best Academia-Industry Collaboration Award 2016



■ YB Dato' Seri Idris Jusoh, Minister of Higher Education, with UTM Vice-Chancellor, Prof. Datuk Dr. Ir. Wahid Omar, Assoc. Prof. Dr Nur Naha Abu Mansor, and Assoc. Prof. Dr Mohd Hafiz Dzafran

Universiti Teknologi Malaysia received the honour of the highest degree when it was chosen as the award winner of the Best Academia-Industry Collaboration Award 2016.

The award was presented through UTM-Petronas Research Sdn. Bhd. Cooperation that involved research in the field of membrane technology between Advanced Membrane Technology Research Centre (AMTEC) and Petronas Research Sdn. Bhd.

Minister of Higher Education, Dato' Seri Idris Jusoh, presented the award to the Vice Chancellor, Professor Datuk Ir Dr Wahid Omar at GradMalaysia Graduate Recruitment Awards 2016, which was held in Kuala Lumpur.

The Director of the Centre of Community Industrial Network (CCIN), UTM, Assoc. Prof Dr Nur Naha Abu Mansor said the award was presented in recognition of the UTM university-industry cooperation, which has successfully developed local talents.

“CCIN, which has coordinated participation for the award, has sent several nominations this year for Best Academia-Industry Collaboration category, GradMalaysia Graduate Recruitment 2016.”
“The award winning success of AMTEC and Petronas Research Sdn. Bhd. is an achievement that is to be proud of and this reflects its appropriate role as High Impact Centre of Excellence for membrane technology,” he said.

AMTEC UTM, which is led by the Director, Prof. Dr Ahmad Fauzi, has established cooperation with Petronas Research Sdn. Bhd. in membrane technology utilisation in carbon dioxide separation system development.

The cooperation has generated the development in human capital through the involvement of four local university lecturers, producing four Phd and two Masters students and four skillful technical staff in the production of membrane technology.

The project has also successfully produced three Malaysian Patents, besides contributing to high impact international journals.

The development of membrane product and separation systems is believed to increase the country's production in oil and gas processing while at the same time reduce energy consumption.

Among the reasons for employing membrane technology are for its efficiency, energy saving and ease of operation.

Carbon dioxide is an acidic gas which has to be extracted from natural gas due to its corrosive and destructive nature to pipes. The presence of this gas too will reduce its quality and heat.

Hence, the elimination of acidic gas from the gas flow is important so as to obtain high quality natural gas. The outcome of this innovation has increased the efficiency of gas separation and membrane strength, and making membrane technology gas separation systems commercially competitive with the present separation system technology.

The cooperation will continue to mobilise experts to generate innovative ideas and products for the community and human capital development, which is an important asset to the country.



UTM Climbers Conquer the World's Highest Peak

After a gruelling climb to the top of the world's highest peak, two national climbers, UTM's very own, successfully climbed Mount Everest from Tibet on May 23, 2016.

Farul Aidib Mahamad Yusoff, a student at the UTM Faculty of Management, and his coach **Azim Afif Ishak**, a UTM alumnus, became the first Malaysians to have conquered the world's highest peak from the north route (Tibet) by braving through the climb of 2,352.19 metres in 17 hours after having left Camp 3 or the Base Camp.

Relating his experience, Farul Aidib, who is the eighth of 10 siblings, said they had faced many obstacles, especially the severe weather during the UTM Everest Tibet 2016 mission.

"This was particularly so when I came down from the Mount Everest peak with my sherpa. The weather was quite bad with strong winds at that time. I would fall on every step I took.

"Due to the narrow and rocky paths, I kept falling in between the gaps. Later, my sherpa came to help and lift me up," he said.

According to Aidib Farul, who managed to reach the Mount Everest peak at 9.46am Nepal time (12.15pm Malaysian time), he was grateful and awed by the picturesque beauty of the scenery as the weather was very good.

Meanwhile, Azim Afif, 28, described the Mount Everest climb from the Tibet (northern) route as very challenging due to the tough route and the strong winds, apart from the difficulty in getting halal food. The Bachelor of Computer Science graduate from Kulim, Kedah, who arrived at the world's highest peak

at 11.22am Nepal time (11.40 Malaysian time), had a problem when the oxygen mask he was using had 'frozen', causing him to suffer from lack of oxygen for two hours.

"Although there were spare masks in the sherpa's bag, we could only change the mask after four hours in a flat area at an altitude of 8,600 metres," he said, adding that he intended to complete climbing 14 mountains in the world with an altitude of 8,000 metres in the near future.

Farul Aidib and Azim Afif started the climb from the northern route of Mount Everest on May 19, which was technically more challenging than the western Nepal route, in addition to the difficulty in entering the autonomous region.

The climb through Tibet was their third attempt after the first and second attempts in 2014 and 2015, via Nepal were unsuccessful due to avalanches and earthquakes.

When asked if he had plans to climb other mountains, the Kuala Terengganu-born Farul Aidib replied that both he and Azim Afif had already started planning to climb the seven tallest mountains in the world. However, the plan would have to wait until he has completed his studies in two years' time.

"The intention and anticipation are there, but there is still no plan yet. I am currently a second year student pursuing the Bachelor of Management (Technology) course and I still need to complete my studies.

"So the focus now is to complete my studies before I conquer the mountains"

- Adapted from BERNAMA

UTM Portable Water Filter Machine Helps Purify Drinking Water in Flooded Areas

A Portable Water Filter Machine that is able to produce clean water in the event of natural disasters such as flooding, is the latest technology created by Universiti Teknologi Malaysia (UTM).

The machine was developed by a group of researchers led by Prof. Dr. Ahmad Fauzi Ismail from the Advanced Membrane Research Center (AMTEC). Named the Ultra filtration Reverse Osmosis Plant, it was launched by the Minister of Science, Technology and Innovation (MOSTI).

“This generator powered machine is able to produce about 5,000 liters of clean water in an hour for 2,000 people a day without the need to be boiled.”

“The water purification process has to go through five stages, namely, pre-treatment filtration, ultra filtration, reverse osmosis, ultraviolet radiation (UV) and softeners. The UV radiation is used to kill bacteria and viruses in the water,” he said.

Reverse osmosis technology and ultra filtrate also allow the machine to treat water from various sources including seawater, and brackish muddy water.

The water produced by UTM’s water treatment machine has been proven clean and safe to drink.

“Water quality analysis was conducted during the distribution of water treatment machines on May 10 and May 11 to three districts in Kelantan, namely Kota Bharu, Kuala Krai and Tanah Merah.

Professor Dr Ahmad Fauzi said, the water treatment machine is capable of filtering E-Coli bacteria found in Sungai Nal that can harm human health if taken continuously over an extended period of time.

Water samples from the water treatment machine were found to be devoid of bacteria up to a hundred percent, also indicating that the machines were able to filter out impurities to produce clear potable water.



■ Director of Advanced Membrane Research Center (AMTEC), UTM, Professor Dr Ahmad Fauzi Ismail said, the test results of water quality were in line with laboratory tests made by the research group from the AMTEC.



■ UTM Portable Water Filtering Machine

UTM Wins BIG at ABU ROBOCON 2016

Universiti Teknologi Malaysia (UTM) did the country proud when, representing Malaysia, they won the ABU Asia-Pacific Robot Contest (ROBOCON) 2016 in Bangkok, Thailand. In the final match held at the Indoor Huamark Stadium, Malaysia defeated five-time champions China to make history winning the competition for the first time since it was introduced in 2002. In the competition, Malaysia beat India in the quarter-finals and Indonesia in the semi-finals to meet China, who had beaten Vietnam and Japan.

UTM has retained a strong presence in the ROBOCON since it began, and true to form, again represented Malaysia in the 2016 contest. The team consisted of 38 students from the Faculty of Electrical Engineering (FKE), Faculty of Mechanical Engineering (FKM), Faculty of Computing (FC) and the Faculty of Education.

Team manager Ir. Dr. Mohd Ridzuan bin Ahmad from FKE said the success of defeating China, represented by Northeastern University, who had an impeccable track record in the competition, was a special gift to all Malaysians to mark the 59th anniversary of Malaysian Independence.

In all matches, the team managed to complete the tasks in the game known as “Caiyo”. With this victory, the team proved that Malaysian students in general, specifically UTM students, were able to compete and be recognised on the world stage. A total of 17 teams from 16 countries competed to be the winners of Asia’s premier robotics competition.



■ Dr. Ridzuan Ahmad (standing third from right) with UTM team after the closing ceremony of ABU ROBOCON 2016 at Bangkok, Thailand

Each team must build two robots, which are the Eco, and the Hybrid. The Eco does not have a motivator to steer and receive energy from the motivator in the Hybrid. The Eco robot has only one steering actuator to control the direction of the road track that contains the upward slope, hill, river and downward slope. In addition to providing a driving force for the Eco robot, the Hybrid needs to take a wind turbine engine from the Eco robot, and climb a wind turbine pole to install the wind turbine engine.

The theme changes every year and this year, the theme was ‘Clean Energy Powering the World’, which was introduced by the host country Thailand.

ABU ROBOCON introduced in 2002 is an annual robotics competition, that aims to become a platform for the development of autonomous robots to help humans (residential and industrial) in their daily lives.

Universiti Teknologi Malaysia and Ericsson Establish Innovation Center for 5G in Malaysia

In collaboration with Universiti Teknologi Malaysia and endorsed by the Malaysian Ministry of Higher Education, Ericsson (NASDAQ: ERIC) launched the UTM-Ericsson Innovation Center for 5G (IC5G) in Kuala Lumpur, Malaysia. Officiated by the Yang Berhormat Dato' Seri Idris Jusoh, Minister of Higher Education, the center will help drive the nation towards becoming the hub for competence and innovation for 5G.

The first of its kind in Malaysia, the center is located in UTM Kuala Lumpur, occupying a building space of 280 sqm. IC5G features 5G innovations, a 5G research lab and a 5G learning space, which is expected to benefit around 2,000 students from institutions and industries in Malaysia over three years.

The opening of the centre follows the Memorandum of Understanding (MoU) signed between Ericsson and UTM through its Wireless Communication Centre (WCC) in October, 2015. Both parties have agreed to undertake activities that will facilitate research linkages, trade and information exchange in order to work on joint research projects, and to realize the impact of 5G on industries and society.

UTM is currently in the second phase of its Global Plan, which among others, aims to engage in strategic collaborative research programs resulting in impactful outcomes. As one of Malaysia's Research Universities, UTM aspires to become an innovative, entrepreneurial and globally renowned education and research brand. Being selected by Ericsson to be one of its University R&D partners is indeed a great honour to UTM. This is an indication that UTM is moving in the right direction.

UTM and Ericsson are old friends. The partnership between UTM and Ericsson can be traced back to approximately 20 years ago. In the mid 1990s, the mobile wireless communication industry was starting to grow in Malaysia. The Wireless Communication Centre (WCC) of UTM, then known as the Wireless Communication Research Laboratory (WCRL), was actively involved in R&D initiatives related to mobile communication.

5G is the foundation for realizing the full potential of the Networked Society. 5G will enable organizations to move into new markets and build new revenue streams with radically new business models and use cases, including Internet of Things (IoT) applications. The new capabilities of 5G span across several dimensions, including very high data rates, very low latency, ultra-high reliability, energy efficiency and extreme device densities.



■ Minister of Higher Education, Dato' Seri Idris Jusoh signing the launch plaque of the UTM-Ericsson Innovation Centre for 5G



■ Minister of Higher Education, Dato' Seri Idris Jusoh during the launching of IC5G

The centre has three main functionalities:

- 5G innovation showcase: Ericsson and UTM will showcase 18 demonstrations ranging from robotics, IoT transformation, Augmented Reality (AR) and 5G for industries.
- 5G research lab: Ericsson and UTM Research and Development (R&D) team will focus their study in four key areas: Propagation studies, antenna studies, wireless communications, networks and securities studies, sustainability and safety studies. The R&D team includes representatives from UTM, Ericsson Malaysia and Ericsson R&D in Sweden.
- 5G learning space: Short-term, medium-term and long-term learning programs on 5G-and-beyond technologies offered by Ericsson and UTM for international and local industry players, as well as higher learning institutions. Programs are delivered by UTM and Ericsson Learning Services team. The programs are expected to benefit 2,000 students over three years.

UTM TEAM Wins Malaysia Microsoft Imagine Cup 2017

The Solvere group of Universiti Teknologi Malaysia (UTM) has been announced as the prestigious Malaysia Microsoft Imagine Cup 2017 National Winner. The Microsoft Imagine Cup is the world's premier student technology showcase, held first at the regional level before proceeding to the final event. Participating teams are asked to integrate the Microsoft Cloud Service platform, Microsoft Azure, in their inventions.

The team also won the "RE:INVENT" awards and represented Malaysia in the Imagine Cup Asia Pacific Regional Finals on 23-27 April 2017 in Manila, Philippines. They were fully sponsored by Microsoft Malaysia competing against 10 teams from all over the Asia Pacific region to win the top four places to be able to compete in Seattle, USA.

Solvere has developed a SmadBot (Smart Advertising Robot), capable of moving around in places of attraction like shopping malls, restaurants, airports and exhibitions based on waypoint navigation. One of the unique features of this robot is that it can know a person's details by scanning their face to predict age, gender and emotion and then show relevant advertisements personalised specifically for the person who is standing in front of it. This method of targeted advertising also publishes the data to the cloud so that advertisers can perform analytics on their data and make decisions from it.

This group of talented students comprises Nik Ahmad Faisal Bin Mohd Kamarolzaman, Muhammad Syukri bin Mohamad Sainal, and Zul Fahmi Khamiti, fourth year Mechatronics Engineering students from the Faculty of Electrical Engineering, UTM. The team is supervised by Dr Yeong Che Fai, who also supervised another student team last year who developed the

Innovaboard that that won the Overall Winner of the competition.

Another UTM team, VRgini won 1st Runner-up by building an app that disrupts the Real Estate market by using virtual reality for property marketing and showcasing. The team comprised Abdul Wahab, a fourth year Petroleum Engineering student, Mohammed Ahmed Saeed Al-Asas, a fourth year Mechanical engineering student, and Young Bang Xiang, a fourth year Electrical and Electronics engineering student.

Meanwhile the third UTM team, TnG Solution won second runner up with their project EDAR, an augmented reality educational app that educates people on using any devices and instruments across medical and other industries. The team comprised team leader Lim Ji Chen, Chin Linn Kern, and Teh Zhi Huei, all third year Electronics Engineering students, supervised by Dr Eileen Su Lee Ming.

UTM is extremely proud of all its students, and prides itself in being able to produce world class innovators, with the potential to make their mark in the world.



■ UTM Team Members Capturing the Moment after Prize Giving Ceremony.

Two Brothers of UTM Alumni Committed to Raise Awareness of Fire Safety Audit

In our daily lives, we are always exposed to the risk of fire. Thus, it is very important for us to take necessary measures to avoid or at the very least reduce continuous exposure to the risk of fire. So, one of most important fire safety processes is through an audit of the fire safety system. Because of that factor, this pair of brothers who are also members of UTM Alumni, Mr. Ahmad Ruzman Shafie, 53 years old, and Mr. Ahmad Azhan Shafie, 39 years old, are committed to help and ensure that more people understand the importance of safety audits of fire prevention systems at public premises and all strategic government assets. For Mr. Ahmad Ruzman, he thought that awareness among people, especially in fire safety system auditing field in this country is still too low as there is a lack of experience, knowledge, expertise, skills, and technology. "This field of fire safety audit is not a new field if compared with some other countries. It is just in our country that exposure related to the importance of the industry is still too little. Therefore, I feel that it is time for the industry to be ventured and explored as good as possible and professionally for importance and safety of the nation. This field's prospect is very big and opportunity is so

wide open to anyone who is interested in joining. So I feel that strategic cooperation with UTM is really capable of giving help, visualization, experience and sharing to students," said the Terengganu-born man. He added that he hoped that he could cooperate with UTM management, especially involving students and lecturers under the Faculty of Electrical Engineering in expanding the field to a higher level.

"I would help and devote myself to UTM, because for me, if alumni members do not contribute, who else would help our own people," said Mr. Ahmad Ruzman who is also Chairman of UTM Alumni Selangor. Correspondingly, Mr. Ahmad Ruzman said he is ready to give explanations and share experience in the said field as he is eligible and accredited, and also has a business partner from South Korea who is skilful in the industry. "There are a lot of aspects we can touch

on in this fire safety system audit, and I am ready to share information, knowledge, and technology that can be used to complete fire safety systems in accordance with international compliance," said Mr. Ahmad Ruzman, who had worked in Japan as National Negotiator for two and a half years with a Diploma of Electrical Engineering (Power) UTM.



■ Memorandum of Understanding between UTM, Safety Hi-Tech, and Ankug E&C Malaysia

In the meantime, Mr. Ahmad Azhan who is also a member of UTM Alumni in Electrical-Telecommunication Engineering Degree said, he and his brother had this same passion in the field of engineering and fire safety since university level.

“Cooperation will bring benefits to both sides, and I am sure that students would gain detailed visualization on how an audit related to fire safety system is executed completely with a report of engineering and suggestions for improvement. An audit report is really important for every organization, premise, and building” he said.

“From there we can examine and check every bit of information clearly so that it functions well and follows specifications and regulatory compliance pertaining to tools such as fire safety system regulators, heat-seeking devices, smoke detectors, sprinkler systems, glass boxes, emergency bells, alarm panel systems and so on,” said Mr. Ahmad Azhan, who conducts his own business as a fire safety system auditor, tools supplier, technical support, system design and fire safety maintenance. According to Mr. Ahmad Azhan, it is his duty to give back to UTM and help the students so they can acquire the ability, courage, skills and deep knowledge related to fire safety audit.

“Imagine if tools that are put in a premise are not audited well, of course, the risk is very high concerning disaster such as fire, short circuit that can take lives,” he said. In the meantime, Mr. Ahmad Azhan said, he holds high confidence that UTM will continue to produce graduates that are capable and on par with the prestigious universities from any other country based on the quality increase in every aspect showcased.

The brothers' passion and expertise paid dividends when a Memorandum of Understanding was signed between their company Safety Hi-Tech, their Alma Mater Universiti Teknologi Malaysia, and Ankug E & C Malaysia, which covers the collaboration in training,



Mr. Ahmad Ruzman Shafie
1981-1984- Diploma in Electrical Engineering (Power) UTM

Mr. Ahmad Azhan Shafie
1996-1999 Degree in Electrical-Telecommunication Engineering UTM

R & D, fire safety audits, establishment of academic programmes and COEs, and collaborations with BOMBA and SIRIM.

Profile:

Ahmad Ruzman Bin Mohamad Shafie
A highly motivated professional with wide experience in project startups, construction and project management, engineering, finance, human resource, business development and administration. Proven skills in leadership and innovation, especially in the area of Business Development and Turnaround Management. Best in situations requiring creativity, resourcefulness and a systematic approach. Expertise in management of multimillion-dollar projects to ensure project quality, on-going progress, and safety compliance. Effectively support high-priority projects to maximize the bottom line result.

Educational Background:

54 years of age, early education in Kuala Terengganu
Diploma in Electrical Engineering (Power) UTM
Bachelor of Engineering in Electrical & Electronics, Thames Polytechnic, London (Now known as Greenwich University)

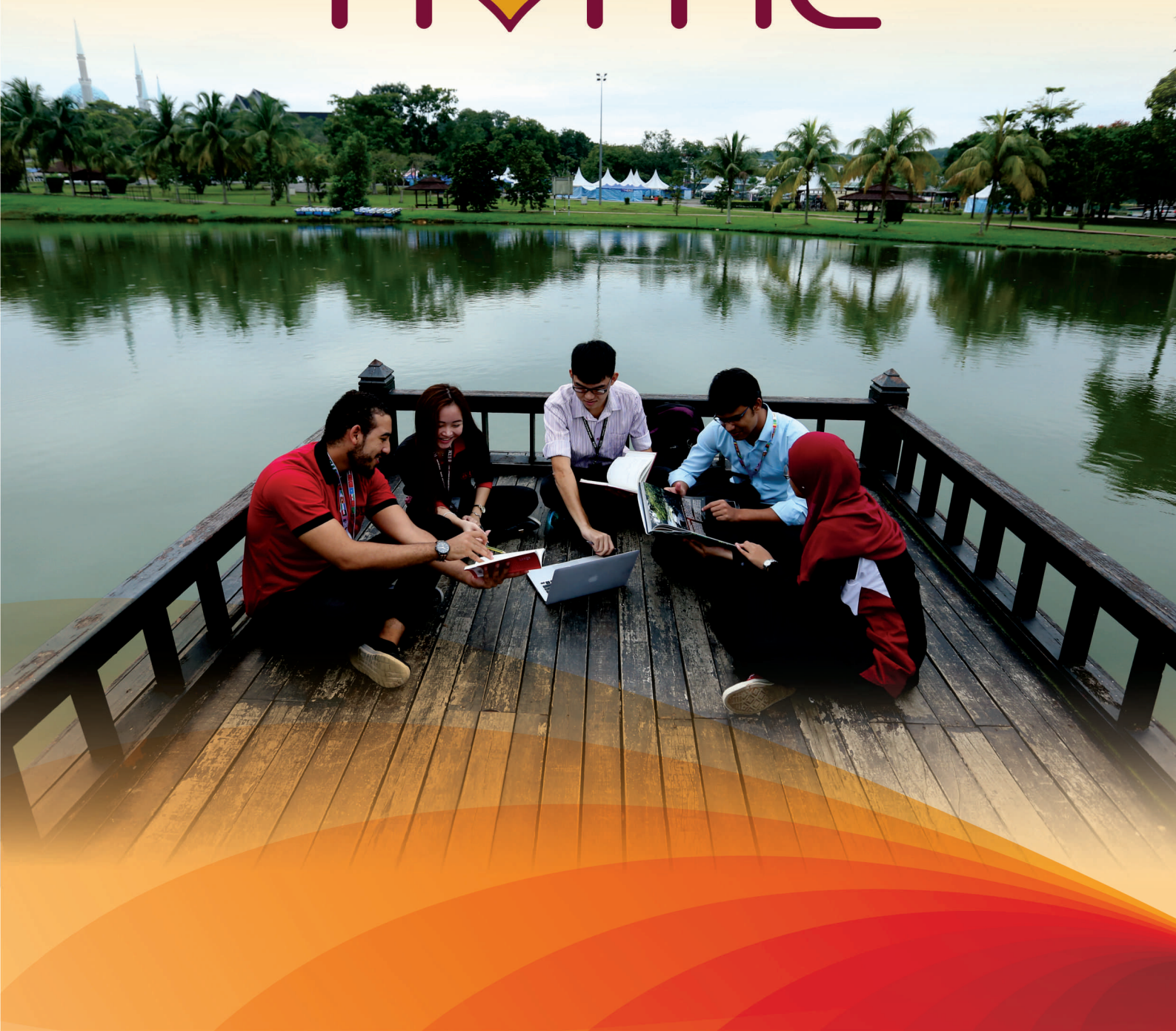
Professional Working Experience:

Nippondenso (M) Sdn Bhd
NSG Japan
Scomi Berhad
Seloga Berhad
AceCorp Sdn Bhd



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Giving to UTM is now a Culture among UTM Students

'Giving to UTM' campaign which was started by the management of UTM, and supported by UTM staff and researchers, has now gained traction among UTM students. This was especially seen recently when UTM students from the committee of the UTM International Conference on Science, Engineering, Management and Social Sciences (ICSEMSS 2016) presented their contribution of RM5,000 to the UTM Endowment Fund.

The UTM International Conference on Science, Engineering, Management and Social Sciences (ICSEMSS 2016) which was held at the UTM Johor Bahru from 6th - 8th October, 2016 was a crowd-pleasing and successful event co-organised by students from the International Student Society, the International Students Centre (ISC), and Institut Sultan Iskandar (ISI).

The contribution was handed over to the Vice Chancellor of UTM, Prof. Datuk Ir. Dr. Wahid Omar

at the monthly assembly held at the Senate Hall, Sultan Ibrahim Chancellery Building.

Organising chair, Muhammad Zayyanu presented a cheque, on behalf of ICSEMSS 2016 to UTM Vice-Chancellor for the UTM Endowment Fund.

Another group of students who organised the 57th Convocation Festival (Fesko '57) also presented a contribution of RM 30,000 to UTM as part of profits collected during the organisation of (Fesko '57) in October 2016. Its director, Nik Mohd Faris Nezam, said that from the contribution of RM10,000 was allocated each to the Development Fund for the halls of Colleges 9 and 10.

Additionally the UTM Islamic Centre and the Tabung Pembangunan Sekolah Agama UTM each received RM5,000.





Because We Care Chancellor's Fund

The Because We Care Chancellor's Fund provides financial assistance to UTM students who are eligible for the duration of their studies at university, and comprises funds for food, sundries, and personal effects. The fund also provides financial assistance for medication.

Merdeka Endowment

The Merdeka Endowment Fund was founded in 2009 with the main objective of providing scholarships to outstanding students and also students from lower socio-economic status backgrounds (B40). Based on the 'wakaf' concept, the funds that have been collected have been used for Endowment Scholarships. To date, more than 600 students have received this scholarship.

Alumni Endowment

The Alumni Endowment Fund was created to provide a means for alumni to give back to the university by donating to foster the expansion and consolidation of knowledge and skills in UTM. Similar to the 'wakaf' concept, this fund is used to provide the Alumni Scholarship to students from lower socio-economic status backgrounds (B40), and for living expenses in UTM. To date, more than 100 students facing financial difficulty have received donations from the Alumni Endowment Fund.

UTM Education Wakaf Fund

The UTM Education Wakaf Fund is a fund-generation programme based on the concept of General Wakaf in the form of cash or assets, where the donor donates to UTM as the trustee, with the intent (niat) for Allah S.W.T, and also for the development of progress and universal knowledge.

Donation Form

- Because We Care Chancellor's Fund RM _____
 Merdeka Endowment RM _____
 Alumni Endowment RM _____
 UTM Eduvation Wakaf Fund RM _____

I _____
bearing the IC number _____
with sound mind and body, and of my
own free will, AGREE to donate to the
selected fund(s)

Contribution above can be deposited through:-

- Cash/Cheque (Cheque No : made to **BENDAHARI UTM**)
 Bank Draft (Reference No : _____)
 Bank Deposit to UTM Account (**CIMB 8006053536**)
 Staff Pay Deduction (**UTM staff only**)
 Debit/Credit Card (**ecommerce.utm.my**)

Grand Total : _____

Name : _____

Address : _____

No tel. : _____

Staff ID : _____

(UTM Staff Only)

Please attach the cheque/deposit slip with this form
and send to the address of email address below:

For further information, please visit:
www.giving.utm.my

Tel:

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BWCCF : 07- 5530513/5530683
Endowment : 07- 5531043

emel : giving-group@utm.my





Benefits to Donors

- Exemption from income tax under Sub-Section 44(6)
- Income Tax Act 1967. Ref. JHDN.
- Naming of Professorial chair according to donor's recommendation
- Naming of building/space/asset according to set rates.

* Depending on total and type of donation given

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Why UTM? Achievement

UTM is a great university, renowned nationally and internationally as a premier university in science and technology. UTM also shapes the minds of its students to become more innovative and competitive in building their careers.

Youngest Malaysian to climb Everest through the Tibet route at 22 years old.

Principle

Nothing great was ever achieved without enthusiasm!

Future Hopes

To pursue a career in the flight industry, and to start Masters programme at Harvard Business School.

Choronology of climb

2013
Two attempts to climb Mount Everest are thwarted due to avalanche. Climbers return empty handed.

2016
Reached the top of Mount Everest using the Tibet route on 23 May 2016 at 11.46am Malaysian time.



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