

Engineering graduate thrives abroad

WITH 50 years of expertise in engineering education, Tunku Abdul Rahman University College (TAR UC) has a rich tradition of producing graduates with the knowledge, skills and attributes that meet the standards of the profession.

Its Faculty of Engineering and Technology (FOET) began as the School of Technology in 1972 with programmes that prepared students to sit for internationally recognised professional examinations.

Many TAR UC graduates have gone on to work both locally and abroad in the field of engineering.

After completing his SPM, Tan Tau Wee left his hometown of Kemaman, Terengganu, to pursue a Bachelor of Mechanical Engineering with Honours at TAR UC.

His decision was based on the fact that his older brother pursued a bachelor's degree in Accounting. His seniors also highly recommended TAR UC as a highly rated institution of higher learning in Malaysia.

"As a Mechanical Engineering student at TAR UC, I learned a lot about engineering management. It honed my technical capabilities with leadership knowledge and skills, which prepared me for



Tan (centre) attending the IET Malaysia Prestige lecture and awards dinner as one of three representatives from IET Singapore.

success in a highly technical organisation later on.

"It has enabled me to lead a team of analysts and industrial engineers. I can help my company identify costs and budget needs for specific projects in their planning stage and delegate tasks and inspect processes and project results for accuracy and quality," Tan said.

"I had the opportunity to learn Finite Element Analysis (FEA), which uses mathematical models to understand and quantify the effects of real-world conditions on a part or assembly.

"These simulations, which are conducted via specialised software, allow engineers to locate potential problems in a design, including areas of tension and weak spots. Using building material information and accurate 3D models of a part or assembly, FEA predicts structural or performance problems before they occur in the real world. These knowledge and skills have been really useful in my line of work."

FOET students are encouraged to display their engineering knowledge, talent and innovation every year at the Project Design

Exhibition (ProDEX) organised by FOET.

Tan also took part in the event. His project was to design and fabricate a Solar-Powered Car Ventilation.

"The lesson I learned from this project was the sequential steps I had to go through to complete it. It starts with the objective, methodology, design, test and commencement. All those steps are commonly practised in my job," he said.

Tan obtained his bachelor's degree in 2017 and he now works in UTOC Engineering Private Limited as a senior project engineer in Singapore.

At the company, his career highlights include the three major projects he has successfully completed.

The first is Evonik ME6, a second world-scale production plant for the amino acid DL-methionine in Jurong Island, Singapore, as a project engineer.

The second is as a project engineer for ExxonMobil-Chemical and Refining Integrated Singapore Plant (Crisp) Project, a world-scale refining complex across two sites – one on the mainland (Jurong) and another on Jurong Island (Pulau Ayer Chawan or PAC). Together

with the Singapore Chemical Plant, they form the largest integrated ExxonMobil manufacturing complex in the world.

The third is as project lead for the CCD (Singapore) Pte Ltd – VAE/VAEP Expansion Project, where Tan's company was the PCM (main contractor) for Equipment, Steel Structure, Architectural, Piping, Insulation and E & I Works.

Tan is also an active member of the Institution of Engineering and Technology (IET) in Singapore, which organises activities such as workshops, lectures, courses and engineering talks.

Engineers are highly in demand not only in Malaysia but globally. With the right knowledge and well-recognised qualifications like Tan, one can be a sought-after engineer anywhere in the world.

■ For more details on the Bachelor of Mechanical Engineering with Honours and other engineering programmes offered by FOET, intakes or general enquiries about TAR UC, visit www.tarc.edu.my.

Attractive scholarships are also available at TAR UC based on academic merit and there is also a sibling discount for qualified students.



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Equal opportunity in education

AMERICAN activist for civil and children's rights Marian Wright Edelman once said, "Education is for improving the lives of others, and for leaving your community and the world better than you found it."

Such a powerful message rings true time after time, for quality education gives individuals the best hope of creating a better future – for themselves and the communities around them.

The Gamuda Scholarship was established in 1996 to contribute to this vision sustainably. Fast forward to now and the scholarship has become a significant financial support for those in need and in developing young individuals through education opportunities.

With Yayasan Gamuda – the foundation arm of Gamuda that oversees the Gamuda Scholarship – the Group has since extended its scholarship aid to nearly 500 inspiring young students who have become recognised professionals in Malaysia and abroad.

Lim Hui Yan is an excellent example of how education can be life-changing. A recipient of the Gamuda Scholarship herself back in 2008, she has gone on to achieve great things and worked on ground-breaking projects such as the Klang Valley Mass Rapid Transit (KVMRT), the MRT Kajang and Putrajaya Lines and Malaysia's first Digital Industrialised Building System.

She also played a significant role in spearheading Gamuda Digital IBS and is now an executive director of Gamuda Engineering and leading the Yayasan Gamuda – a crucial role in overseeing the Group's social efforts.

Lim says, "As a regional infrastructure and engineering company, we are in the right position to bring about positive and measurable change to communities. Yayasan Gamuda has been shouldering all our community efforts with one mission – to make a difference in people's lives."

"We know that we can be a conduit to a more sustainable future by providing greater education opportunities to deserving talents through scholarships. The scholarship offered by Gamuda does not focus only on financial needs but also on building future graduates with strong leadership qualities and a place to grow professionally."

Levelling the playing field

Yayasan Gamuda believes there are many deserving candidates, especially from B40 families, that the foundation can help provide education opportunities to through its scholarship programme.

The high cost of tuition and living expenses can also be a stumbling block for many deserving students. For those from lower-income families, university qualifications remain a dream and they would never be able to reach their full potential.

"The impact of Covid-19 has further exacerbated the situation, and there is a more compelling need to focus on lower-income families' welfare."

"Today, many Gamuda scholars are helping senior management positions within the Group. With this in our minds and to enable more students to realise their dreams, we intend to double our scholarship provision to RM10mil for 2022 and continuously scale up our scholarship allocation to financially needy candidates from various states as the need arises."

"As a start, Yayasan Gamuda has been proactively engaging with various feeder schools to ensure that we are reaching out to the right candidates. Our aim is that no one should be left behind in securing education opportunities," Lim adds.

"In addition, we are targeting more students from rural areas in Sabah, Sarawak, Terengganu and Kelantan to benefit from a new Skill Enrichment Programme lined up for 2023, where they will be given the opportunity to study diploma or certificate courses."

The equal opportunity to get quality education locally and internationally for those in need from poorer families and those outside the Klang Valley would bring forth potential that would otherwise be hidden due to the social-economic gap.

By taking away the financial strains on the family, it is hoped that students will value



The Gamuda Scholarship aims to give individuals the best hope of creating a better future – for themselves and the communities around them.



Gamuda Engineering managing director Chin (left) and Lim, Gamuda Engineering executive director. Today, many Gamuda scholars are helping senior management positions within the Group.

this opportunity for education and be the catalyst that will eventually pull these families out of poverty.

A gem of international exposure

In a world interconnected like today, having a global mindset is an added advantage. Because of this, the Gamuda Scholarship is also set to increase its overseas university placements.

Studying abroad allows students to gain new insights that can add an advantage when they get into the working world.

The success of past scholars only cements this belief and serves as a reminder that students can achieve various feats given the

right opportunity and platform.

Gamuda Engineering managing director Justin Chin Jing Ho recounts his experience: "I started my journey with Gamuda in 2008 when I was awarded the Gamuda Scholarship to further my education in civil and environmental engineering with Imperial College, where I was able to experience new things and meet people from around the world."

"With the industry networks to support all scholars, I had vast exposure to leadership. After graduating, I began my journey as a tunnel engineer at Gamuda."

"It was definitely an exhilarating experience, especially since I was involved in the MRT Kajang Line – the first KVMRT Project

"We intend to double our scholarship provision to RM10mil in 2022."

Lim Hui Yan

in 2012. It was nerve-wracking to say the least, but it was a stepping stone that allowed me to become the tunnel general manager for MMC Gamuda KVMRT (T) Sdn Bhd in 2018.

"Throughout my journey in Gamuda and now as Gamuda Engineering managing director, the group has actively supported me."

"By giving me the space to learn, grow and actively contribute to a sustainable world, I was able to be involved in the birthing of the world's first autonomous tunnel boring machine in 2019, putting Malaysia on the global mark of tunnelling fraternity," says Chin.

Beyond financial aid, Gamuda has groomed many next-generation leaders and spearheaded many firsts in industry excellence.

With the group's focus on sustainable business, Chin was recently awarded the Science and Sustainability Award at the recent British (UK) Alumni Awards 2021/22 for contributing to the Group's Environmental, Social and Governance commitments.

Chin concludes, "Because of my overseas experience made possible with Gamuda, I hope more students will be able to unlock their potential through the Gamuda Scholarship."

Your journey towards success begins here

Youths are the future torchbearers. More than just financial aid, Gamuda Scholarship provides youths with a brighter future. Apply now at <https://rebrand.ly/GS-2022>

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Become a top game developer

IN any video game, the best strategy is to arm yourself with the tools, skills and knowledge necessary to succeed and win, so why should real life be any different?

Market data shows that the global games market is growing steadily and the demand for talents in this field is increasing, making now the best time to enter this lucrative industry.

From game art, design, engineering, development to production, there is no shortage of opportunities here.

However, just like in any good video game, abundant opportunities also mean abundant competition between players, all vying for victory.

If you have your sights set on a successful career in the game development industry, you need to have the education that puts you on the path to get there.

But how do you choose from so many options? You go for the best, of course.

Learn from the best

Here's your chance to learn from DigiPen Institute of Technology USA, the university behind the world's first video game development degree, and level your way up to a lucrative career.

The One Academy has collaborated with DigiPen USA to bring exceptional computer science and game design programmes such as the Diploma in Game Design, Diploma in Computer Science, Bachelor of Arts in Game Design, Bachelor of Science in Computer Science and Game Design and Bachelor of Science in Computer Science in Real-Time Interactive Simulation to Malaysia.

These programmes' world-class syllabus will be taught by none other than DigiPen International's professional teaching team.

For those who are wondering if it is really worth venturing into the game design and



Seize the chance to become a professional game developer by enrolling in The One Academy.



The One Academy is ranked as the World's No.1 Game Art Academy by the Rookies.

development field, cast your doubts away as it is the perfect blend of technical, computer-based learning with artistic, design-focused knowledge.

With the world's focus shifting to technology such as the Metaverse, 6G, big data, artificial intelligence, blockchain and cloud computing, an education in computer science and game design is now worth so much more.

Given the fact that technology advances every day, you can find career opportunities

seemingly anywhere around the globe.

The One Academy is ranked as the World's No.1 Game Art Academy by the Rookies and together with DigiPen USA, widely known for making the Top Five of The Princeton Review's Top Game Design Schools for the last 13 years, this partnership will be one for the books for years to come.

So, what are you waiting for? Don't just play games; make games and grab your share of the market, which is worth billions and growing quickly.

DigiPen The One Academy is a collaborative effort between The One Academy and DigiPen Institute of Technology USA – the first school in the world to offer a bachelor's degree in video game development – to provide comprehensive high-quality diploma and degree education.

■ For more information, log on to www.digipen.toa.edu.my or call 03-7875 5510 or e-mail your enquiries to info.digipen@toa.edu.my.



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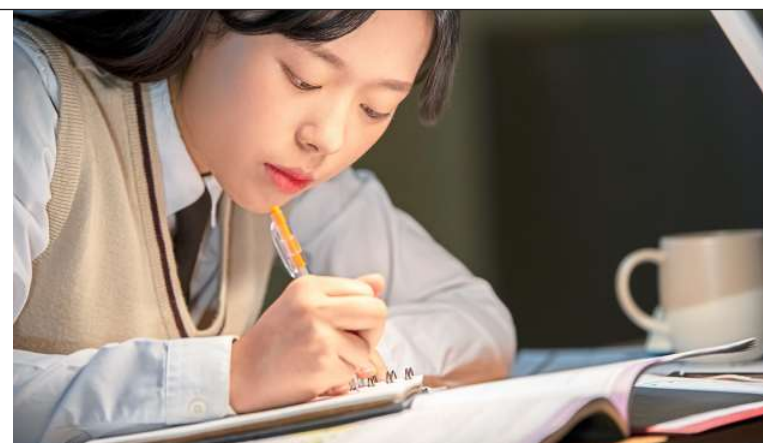

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SCAN FOR MORE INFO





Staying focused and organised is key to acing an exam.

Study countdown guide

NEED to ace a test? Check out this guide.

Don't just skim. Pay attention.

One month before

Go through your books and notes and identify major themes. List these in detail, each on a new sheet of paper. If your textbook has learning objectives, use these to guide you. Read through them to make sure you understand it all.

Three weeks before

Take each of your themes and pretend to explain them to someone. If you understand it well enough to explain it to someone else, you have the bare bones down. If you miss something or have questions, this is the time to visit your teacher or look outside your textbook for answers.

Two weeks before

Reorganise your notes into what you need to know. Whenever possible, use lists and diagrams. Highlight or bold important words. The more visual your notes, the easier they are to remember.

Now read over these twice a day. If you can, read them over three times but more is unnecessary if you read them properly.

One week before

Test yourself on your notes. Invent mnemonics for the bits you don't remember or chant them over and over until they stick. The ultimate test is to write yourself exam questions one night, and to sit for your test the next morning.

As you master topics, set them aside for a daily refresher only. Focus the bulk of your study on the pages you're still struggling with.

Three days before

Get a friend to help you by testing you on your notes. Either pick someone from your class or give someone your "test" questions and correct answers. Focus on the questions you don't ace.

On the day

Don't panic! You've got most things down by now. Keep your cool, read the questions, remember that the points for each section are a guide to the sort of answers expected, and bring an extra pen in case you run out of ink.



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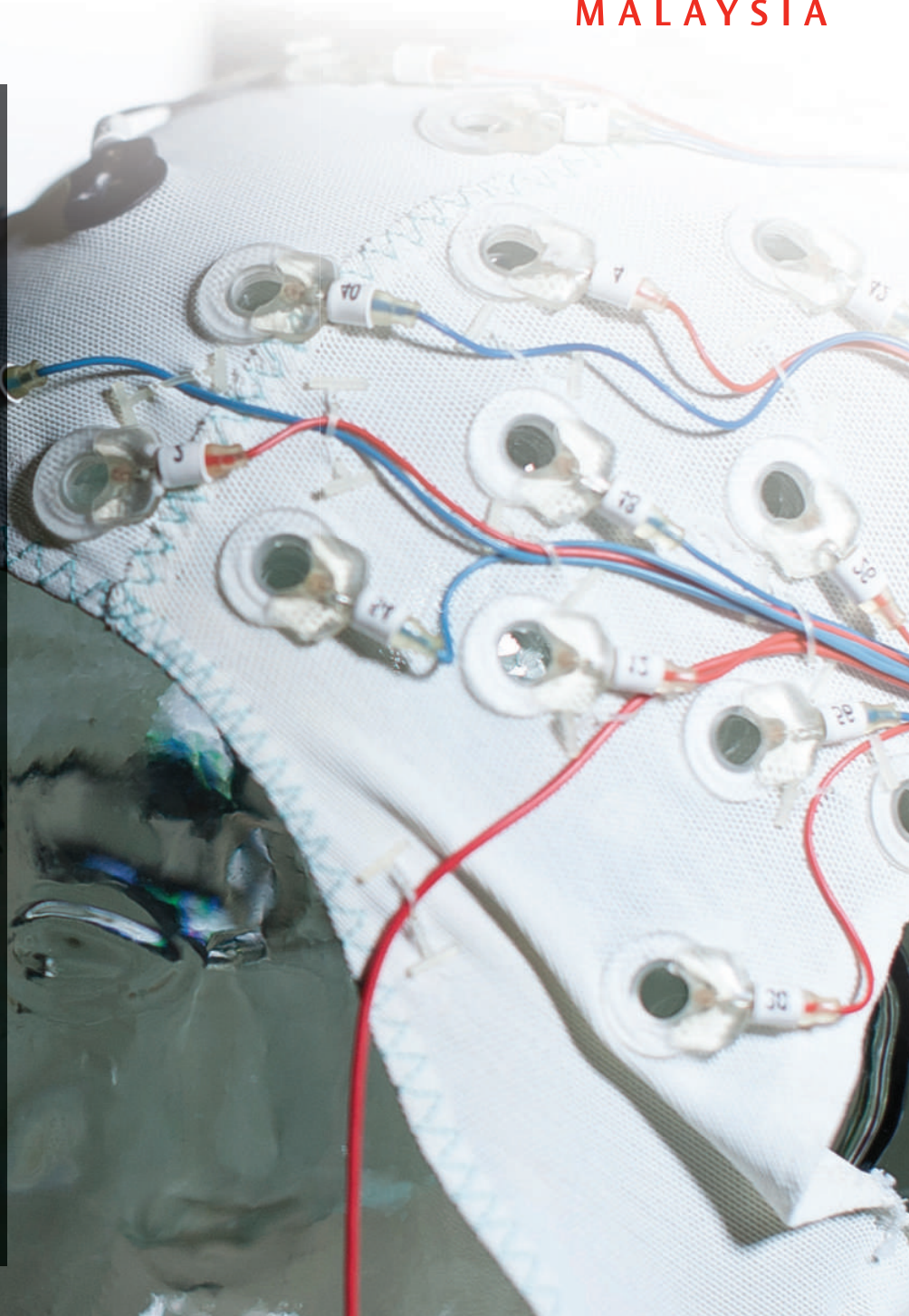
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Growing demand for dentists



Dental students spent most of their time working with patients at MUCM's on-campus dental clinic during their clinical years.

THE Covid-19 pandemic has brought much attention to the field of dentistry as oral health or dental problems are common among the community and when access to government facilities was limited, patients sought out the private sector.

Manipal University College Malaysia (MUCM), which offers a five-year Bachelor of Dentistry (BDS) programme, has observed this firsthand with its three polyclinics providing a capacity of over 150 dental chairs.

Faculty of Dentistry dean Prof Dr Abdul Rashid Ismail noted that when other services were forced to shutter their doors, dental clinics continued to run with strict standard operating procedures.

"We were receiving calls daily despite the lockdown from patients requesting emergency treatment to relieve pain and attend to their needs. Such is the demand for dental services," he said.

lished in 1953, its presence in Malaysia is now in its 25th year.

The BDS programme is anchored around nurturing well-rounded dental surgeons who are clinically strong, being trained by experienced specialists from each field of dental specialty.

The classrooms and clinic floors are always abuzz with case-based learning (CBL) activities.

"In CBL modules, professors and lecturers share their many years of clinical experiences and cases to teach critical and analytical skills in diagnosing and planning for the treatment," said Prof Abdul Rashid.

"MUCM is also sensitive to changing trends in dental technology and plan forward to expose students to the technology advancement in dentistry. We are also exploring collaborations with international partners to inculcate our students as global citizens."

The future of dentistry for today's generation

Dentistry is often thought of as the go-to profession for a career that is of service to the people but with a work-life balance. However, it is also a profession that requires an innovative spirit, a noble heart and an aesthetic eye.

The current generation of future dental surgeons, Gen Z, is growing up in the era of cyber technology and emerging media. This has influenced the healthcare system and dental services.

Youth of this generation are needed to innovate and guide future dental services towards the Internet of Things or the Internet of Robotic Things.

The MUCM BDS

MUCM, one of the oldest providers of private healthcare education in Malaysia, is cognisant of what the future needs and holds for its students. An extension of Manipal Group from India which was estab-

Is dentistry for me?

Healthcare is not about business, but about caring for the health of people. Health is a basic safety need; it is a tenet that leads to love and belonging, esteem and self-actualisation.

Being a professional in healthcare services, particularly in dentistry, the prospect of the community's quality of life is always part of the job for dental surgeons and oral practitioners.

The world continues to revolve. What we see today, we have seen 100 years ago in a different form. What is in store for future healthcare professionals will be different from today.

For that reason, the concept of lifelong learning at MUCM is inculcated among dental surgeons for the survival of the profession and the creation of more varied career paths.

■ For more details on the programme, call 1700 811 662 or visit www.manipal.edu.my



Students are taught from Year One of Dental School on the significance of having good manual dexterity in the dental profession.



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Sharpening skills and enhancing knowledge



The Southern MBA programme offers a micro-credential module-based programme for working adults.

THE Covid-19 pandemic has changed business models worldwide with most people now working from home. It is a critical time for businesses to leverage technology to thrive in the new norm, and this starts with thinking out of the box.

A digital marketing and e-commerce workshop, in collaboration with the Johor Digital Economic Centre (JDEC), allowed students to acquire the necessary knowledge and skills for small and medium enterprises to do digital marketing and e-commerce.

Around 100 students participated in this workshop, where they were trained to connect everything with e-commerce-related technologies.

The Faculty of Business and Management (FBM) of Southern University College (Southern UC) offers quality courses with a focus on integrated theories and practices to enhance multi-intelligence, leadership, creativity and resilience.

The faculty offers seven homegrown undergraduate degree programmes and seven diplomas, one master's and one PhD programme. They are all accredited by the Malaysian Qualifications Agency and the Ministry of Higher Education.

Upon completion of Southern UC's Bachelor in Accounting (Honours), students are given a maximum of nine paper exemptions from the Association of Chartered Certified Accountants and up to seven paper exemptions from the Institute of Chartered Accountants in England and Wales and the Chartered Institute of Management Accountants.

During their final year, students will undergo six months of industrial training in established and reputable firms.

"The Faculty of Business and Management of Southern University College offers quality courses with a focus on integrated theories and practices."

They will also have the chance to take part in international internship programmes with its 61 partner universities worldwide.

To provide additional impetus to reskilling, upskilling and life-long learning for working adults, the Southern MBA programme was launched as a micro-credential module-based programme in January. It provides an alternative to those keen to earn a formal qualification through a flexible educational system.

Successful candidates for the selected micro-credentials modules can apply for HRD Corp to defray their tuition fees on a modular basis.

Skim Bantuan Latihan is the main scheme under HRD Corp and it aims to encourage employers to retrain and upgrade their employees' skills in line with their operational and business requirements.

■ For more details, look out for the advertisement in this *StarSpecial*.

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DigiPen USA is the first school in the world to offer a bachelor's degree programme in video game development. Through this collaboration, The One Academy has stepped up to the challenge to lead the computer science and game development industry in Southeast Asia.

DigiPen The One Academy now offers five top-grade Computer Science & Game Design programmes catering towards the golden career opportunities in Malaysia. Led by a team of professional educators from DigiPen's international campuses and mirroring their syllabus from USA, these programmes train students by utilising game design as a teaching medium to not only make learning fun and interesting, but also facilitate the knowledge of cutting-edge computer science technology. Upon graduating, they can pursue careers in not only computer science and game design but even develop their own games or business in computer tech fields such as the Metaverse, AI, AR, Blockchain, Big Data, Cloud Computing and more.

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The winning MSU researchers with MSU president Prof Tan Sri Datuk Wira Dr Mohd Shukri Ab Yajid (centre).



MSU bagged a total of six awards at MTE 2022.

Innovative research wins big

MANAGEMENT and Science University (MSU) has bagged two gold medals, two silver medals, a bronze medal and the Outstanding Innovation Award from the Malaysia Technology Expo (MTE) 2022.

Leading in the gold medal list are a Wind-Solar Hybrid Power Generation System for Highway Streetlights and the MSU Assessment Chart For Children with Special Needs respectively in the Protection of the Environment, Energy, Water, Wastewater, Sanitation and Green Technology sub-category, and the Social Innovations and Entrepreneur Management sub-category of MTE.

The award-winning innovations are from MSU's research on environmental sustainability and blindness prevention respectively by researchers from the Faculty of Information Sciences and Engineering (FISE) and the Faculty

of Health and Life Sciences (FHLS).

The FISE team, led by Dr Safaa Najah Saud Al-Humairi, comprises Dr Ahmad Sukri Ahmad, Assoc Prof Dr Muhammad Irsyad Abdullah, Junaidi Daud and Bachelor of Science (Honours) in Mechanical Engineering student Sharifah Athirah Sharif Zulkepele.

Their work also won the Outstanding Innovation Award in the Safety and Security sub-category.

The FHLS team, led by Assoc Prof Dr Mohd Zaki Awg Isa, consists of Department of Optometry and Vision Science head Fairuz Mohd Nordin and Master in Science (by Research) Biomedicine student Mohamad Khmal Haqqim.

In the silver medal list are a Smart Infrastructure Covid-19 Monitoring, Communication and Technology Operational System in MTE's Safety and Security Technology sub-category and a Smart

Poultry Farm Monitoring System for Temperature, Humidity and Ammonia Gas in the ICT category – both the work of FISE researchers.

MSU researchers in the Innovative Engineering Solutions group, led by FISE's Dr Safaa, comprises Fazlina Mohd Lazim, Dr Omar Ismael Ibrahim and Bachelor of Engineering Technology (Electrical and Electronic) (Hons) student Kesavan Selvaraju. Industry researchers from Soon Seng Construction and SPCL Systems Sdn Bhd complete the group.

Researchers in the Big Data group, led by MSU senior vice-president for Research, Innovation, Technology and System Prof Datuk Dr Md Gapar Md Johar, consists of FISE's Ts Dr Asif Iqbal Hajamydeen, Assoc Prof Dr Mohammed Hazim Alkawaz and Master in Computer Science students Naila Zakia Malika and Fatria Adha Jumara.

MTE's Healthcare, Personal Care Technology, Biotechnology and Life Sciences sub-category presented a bronze medal to MSU's FHLS researchers in the Applied Health Science group for their "Potential Effects of Beri Hut Supplement towards BPA-Induced Testicular Dysfunction in Rats".

Led by FHLS's Muhammad Danial Che Ramli, the group consists of Dr Mahathir Mohd Uzid, Assoc Prof Dr Norshafarina Shari@Kamarudin, Anita Zara Weinheimer and Bachelor of Biomedical Science (Hons) student Shamim Nur Raudhah.

The group is joined by MSU's Bachelor of Biomedical Science (Hons) alumna Dr Syntyche Seow Ling Sing with a fellow researcher from Ganofarm R&D Sdn Bhd, and another industry researcher from the Institute of Medical Research Malaysia.

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