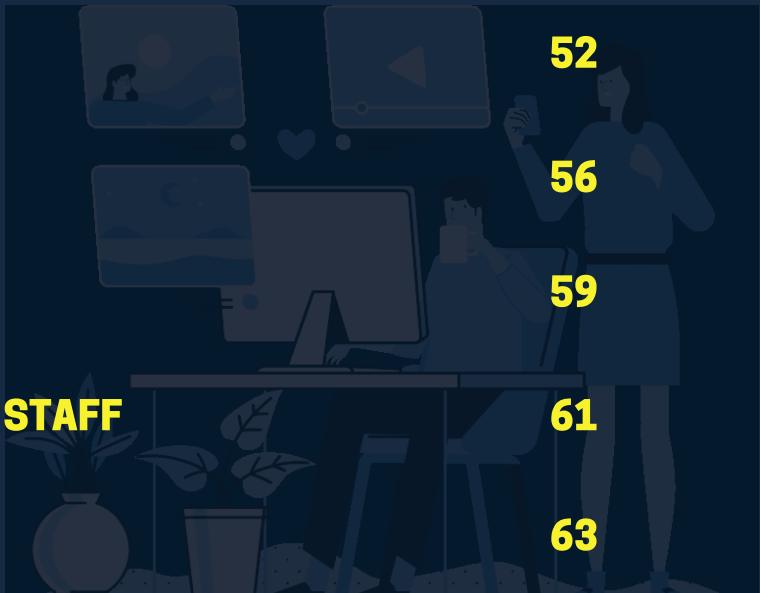


FSG TRAILBLAZING IN 2020



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FOREWORD BY THE DEAN



PROF DR HAJAH FARIDA ZURAINA MOHD YUSOF **DEAN**

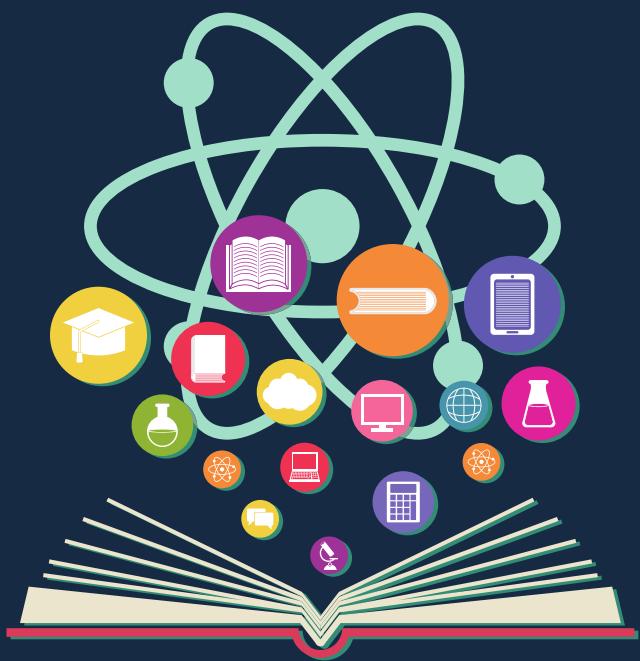
Assalamualaikum wrt wbt and good day to all.

This latest FSG e-newsletter issue is a testimony of great achievements by FSG in 2020. Last year has been the most surreal and challenging start to an academic year that any of us have ever experienced. The Covid-19 pandemic has created some extraordinary trials for FSG. While the pandemic caused us to move to remote learning and working, FSG continued with its effort to create a meaningful strategic plan for the next decade. Our strategic plan will guide us in our decision-making and hold ourselves accountable towards a thriving and sustainable learning and research development faculty. Through our research and curriculum, we will ensure that our students are prepared to lead in a rapidly evolving global marketplace. We will use this direction to elevate our commitment to excellence, access, and opportunities, as well as our passion for engaging and enriching the communities that we serve.

Our faculty have been extraordinary, quickly transitioning our courses to online formats. Almost overnight, our staff adapted, providing knowledge and education support remotely, and surrounding our students with all of the guidance and counsel that they need. FSG made a shift to online teaching and learning, putting the health and safety of our students, staff, and faculty first. Through it all, we persisted, centered now more than ever on using applied sciences for a better world.

I invite you to read through this e-newsletter and see for yourself what we have achieved so far as a celebration of excellence. To succeed, we need to strive towards excellence and be trailblazers to reach that goal. FSG is growing not only in numbers but we are also developing in stature and distinction. It shows how FSG has worked together with the industry in addressing some of the greatest challenges we face in the research and development sectors. We have the capacity to create and share knowledge, to serve as allies and advocates for causes that will make the greatest impact in the applied sciences world. And it also shows that when we come together and work as a team, we are most effective and affluent.

I hope you feel inspired and I am confident that we will emerge from this time in our history as a stronger faculty, and as better people and leaders. Stay safe and thank you for your continuous support.



ACADEMIC ACHIEVEMENTS AND INITIATIVES



ACADEMIC ACHIEVEMENTS

2018-2020 QS WORLD UNIVERSITY RANKING BY SUBJECT (UiTM)

In 2019, 9 subjects at UiTM were listed in the top 500 group in the world by QS WUR by subject 2019 in which 2 of the 9 subjects were Chemistry and Materials Science. Materials Science was first listed and managed to rank 350th best in the world. Both subjects were ranked 6th best in Malaysia after Research University (RU).

SUBJECT	2018	2019	2020
CHEMISTRY	425	487	539
MATERIALS SCIENCE	-	350	386





OPEN AND DISTANCE LEARNING (ODL) ACTIVITIES

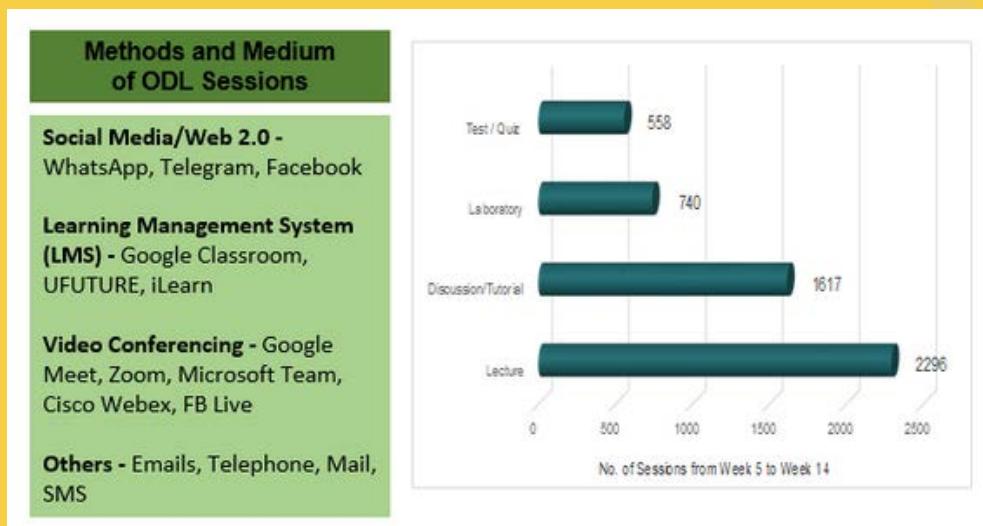
ONLINE & DISTANCE LEARNING EXPERIENCE FOR SEMESTER MAC - JUL 2020

The Open & Distance Learning (ODL) sessions for FSG faced some difficulties with the major issue of limited internet coverage faced by many of the students. However, with strong perseverance, determination as well as encouragement by FSG lecturers, most of the issues have been resolved and minimised with some changes in the way the sessions were conducted.

It was a new learning experiences for both students and lecturers. In these unprecedented events, unprecedeted measures, solutions, and actions are needed as life must go on. With ODL, lecture sessions are no longer confined to closed spaces in the class or lecture theatres but can be conducted anywhere where internet access is available.

It can be said that the COVID19 pandemic is a blessing in disguise for us lecturers as we are forced to jump into the art of flexible delivery of Teaching & Learning practices much faster than we anticipated and wake us from our comfort zone.

Indeed, we have learnt many new things, systems, applications, and practices in the way we teach, conduct tutorials and laboratories.



TRAINING SERIES AND WEBINARS ON OPEN & DISTANCE LEARNING FACULTY OF APPLIED SCIENCES 2020

The year 2020 is the year where all staff and students need to adapt to the dynamic Teaching & Learning strategies and skills of Open & Distance Learning or ODL. The faculty had taken several initial initiatives just before the first phase of the Movement Control Order (MCO) began at the end of March 2020 with a series of trainings for academic staff. This was done to provide initial preparation and exposure to all staff especially academic staff.

During the MCO, additional series of trainings and webinars were organised on the sharing of experiences and best practices. As a result from these initiatives, an academic staff, Shamsul Bahrin Gulam Ali, received the ODL UiTM 2020 Award during the University Academic Awards 2019.



OPEN AND DISTANCE LEARNING (ODL) ACTIVITIES

TRAINING SERIES AND WEBINARS ON OPEN & DISTANCE LEARNING
FACULTY OF APPLIED SCIENCES 2020

NO.	TOPIC	INVITED SPEAKER	DATE/TIME
1	RECORDING YOUR LECTURE WITH LOOM	DR SHAHRUL NIZAM AHMAD, LECTURER, FSG	14 APRIL 2020 (TUESDAY) 3.00PM
2	RECORDING YOUR LECTURE WITH SCREENCAST - EASY AND SIMPLE APP	ASSOC PROF TS DR MOHAMAD FAIZUL YAHYA, LECTURER, FSG	13 APRIL 2020 (MONDAY) 3.00PM
3	LECTURING MADE EASY WITH 'SCREEN SHARE' VIA FACEBOOK LIVE	DR MOHD LOKMAN IBRAHIM, LECTURER, FSG	10 APRIL 2020 (FRIDAY) 3.00PM
4	CARA MUDAH RAKAMAN KULIAH MENGGUNAKAN POWERPOINT	ASSOC PROF DR ZAINIHARYATI MOHD ZAIN, LECTURER, FSG	14 APRIL 2020 (TUESDAY) 3.00PM
5	USING SCREENCASTOMATIC AND PANAPTO FOR RECORDING YOUR LECTURE	ASSOC PROF TS DR MOHAMAD FAIZUL YAHYA, LECTURER, FSG	14 APRIL 2020 (TUESDAY) 3.00PM
6	LECTURING MADE EASY WITH 'SCREEN SHARE' VIA FACEBOOK LIVE	DR MOHD LOKMAN IBRAHIM, LECTURER, FSG	16 MAC 2020 (MONDAY) 10.00AM
7	USING GOOGLE MEET FOR YOUR LECTURES	DR YONG SOON KONG, LECTURER, FSG	16 MAC 2020 (MONDAY) 4.00PM
8	DEVELOPING ANIMATED DIGITAL CONTENT USING IPAD FOR ONLINE LEARNING MATERIALS SESSION 1: DESIGNING CONTENT`	ASSOC PROF DR AZMA PUTRA, APPLE PROFESSIONAL LEARNING CONSULTANT, FAKULTI KEJURUTERAAN MEKANIKAL, UNIVERSITI TEKNIKAL MALAYSIA MELAKA (UTEM),	14 SEPT. 2020 (MONDAY) 9.30AM - 11.00AM
9	DEVELOPING ANIMATED DIGITAL CONTENT USING IPAD FOR ONLINE LEARNING MATERIALS, SESSION 2: CONTENT - CREATING ANIMATED CONTENTS	PN ASMAWATI AHMAD, APPLE PROFESSIONAL LEARNING CONSULTANT, SANDS CONSULTING SDN BHD	14 SEPT. 2020 (MONDAY) 3.00PM - 4.30PM
10	DEVELOPING ANIMATED DIGITAL CONTENT USING IPAD FOR ONLINE LEARNING MATERIALS, SESSION 3: DEVELOPING BACKGROUND MUSIC, SOUNDS & AUDIO RECORDING	DR. HARWATI HASHIM, APPLE PROFESSIONAL LEARNING CONSULTANT, PUSAT KAJIAN INOVASI PEMBELAJARAN & PENGAJARAN, FAKULTI PENDIDIKAN, UKM	15 SEPT. 2020 (TUESDAY) 9.30AM - 11.00AM
11	DEVELOPING ANIMATED DIGITAL CONTENT USING IPAD FOR ONLINE LEARNING MATERIALS, SESSION 4: COMPILING, EDITING & PUBLISHING THE LEARNING CONTENT	PN NORHAYATI MASKAT, APPLE PROFESSIONAL LEARNING CONSULTANT, SCHOOL OF EDUCATION, TAYLOR'S UNIVERSITY	15 SEPT. 2020 (TUESDAY) 9.30AM - 11.00AM
12	ONLINE TEACHING: THE EXPERIENCES AND PERSPECTIVES FROM A PRIVATE UNIVERSITY	PN NADIAH SUKI, SENIOR LECTURER, APU DIGITAL CHAMPION, ASIA PACIFIC UNIVERSITY OF TECHNOLOGY & INNOVATION, MALAYSIA	22 SEPTEMBER 2020 (TUESDAY) 10.00AM - 11.30AM
13	FSG FORUM - GETTING THE BEST FROM TECHNOLOGY AND YOUR STUDENTS	EN SHAMSUL Bahrin Gulam Ali (FSG SHAH ALAM), RECIPIENT OF ANUGERAH ODL UITM 2020, ANUGERAH AKADEMIK UNIVERSITI 2019 TS. DR TUAN SHEIKH AHMAD IZADDIN SHEIKH MOHD GHAZALI (FSG KUALA PILAH), RECIPIENT OF ANUGERAH ODL UITM 2020, ANUGERAH AKADEMIK UNIVERSITI 2019 TS. DR EDDIE TAN TI TJIH (FSG KUALA PILAH), RECIPIENT OF ANUGERAH PENGAJARAN UITM 2020 (KELOMPOK SAINS), ANUGERAH AKADEMIK UNIVERSITI 2019	23 SEPTEMBER 2020 (WEDNESDAY) 2.30PM - 4.30PM
14	ALTERNATIVE ASSESSMENTS: THE CHOICE IS YOURS	PN NADIAH SUKI, SENIOR LECTURER, APU DIGITAL CHAMPION, ASIA PACIFIC UNIVERSITY OF TECHNOLOGY & INNOVATION, MALAYSIA	25 SEPTEMBER 2020 (FRIDAY) 10.00AM - 11.30AM
15	MICROSOFT TEAMS: GETTING STARTED WITH TEAMS FOR ODL	TS. DR RATNA ZUARNI RAMLI, SENIOR LECTURER, FSKM, KUALA PILAH	1 OCTOBER 2020 (THURSDAY) 10.00AM-12.00 NOON

RECOGNITION AND ACCREDITATION OF FSG PROGRAMMES FROM MALAYSIA BOARD OF TECHNOLOGISTS (MBOT)

Several Diploma and Bachelor programmes have received temporary transitional recognition and accreditation by MBOT in the fourth quarter of 2020. This recognition means that the curriculum of the programme has been identified and recognised as appropriate, and follows the standard criteria as outlined by MBOT.

Among the MBOT criteria such as having a minimum amount of credit for the technology component as well as the percentage of theory and practical components required. For the Diploma programme, the technology component must be at least 60 credits as well as at least 60% of practical component. For the Bachelor's programme, the technology component must be at least 80 credits and 40% of practical component.

The following are the FSG programmes that have been temporarily accredited by MBOT in 2020:

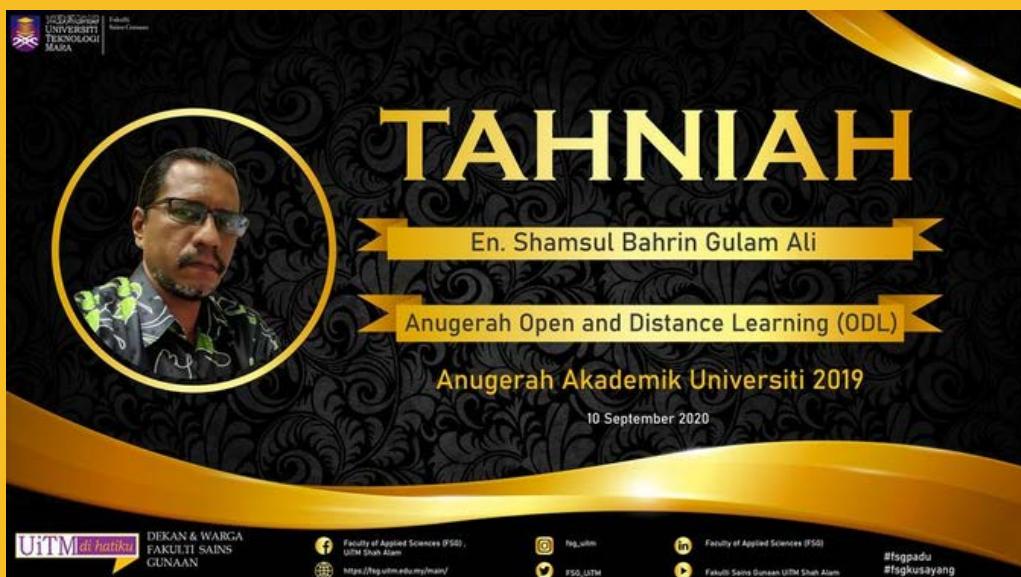
NO.	CODE	PROGRAMME NAME	LOCATION (CAMPUS)
1	AS113	DIPLOMA TEKNOLOGI POLIMER	ARAU
2	AS115	DIPLOMA KIMIA PERINDUSTRIAN	ARAU & SAMARAHAN
3	AS116	DIPLOMA TEKNOLOGI MAKANAN	KUALA PILAH & SAMARAHAN
4	AS117	DIPLOMA TEKNOLOGI PERKAYUAN	JENGKA
5	AS118	DIPLOMA TEKNOLOGI TEKSTIL	KUALA PILAH
6	AS229	SARJANA MUDA SAINS (KEPUJIAN) TEKNOLOGI PERSEKITARAN	SHAH ALAM
7	AS240	SARJANA MUDA SAINS (KEPUJIAN) SAINS BAHAN DAN TEKNOLOGI	SHAH ALAM
8	AS243	SARJANA MUDA SAINS (KEPUJIAN) TEKNOLOGI POLIMER	SHAH ALAM & ARAU
9	AS245	SARJANA MUDA SAINS (KEPUJIAN) KIMIA GUNAAN	SHAH ALAM & ARAU
10	AS246	SARJANA MUDA SAINS (KEPUJIAN) SAINS & TEKNOLOGI MAKANAN	SHAH ALAM & KUALA PILAH
11	AS247	SARJANA MUDA (KEPUJIAN) TEKNOLOGI PERABOT	JENGKA
12	AS250	SARJANA MUDA SAINS (KEPUJIAN) SAINS TEKSTIL & TEKNOLOGI FESYEN	SHAH ALAM
13	AS253	SARJANA MUDA SAINS (KEPUJIAN) KIMIA (ANALISIS FORENSIK)	SHAH ALAM
14	AS254	SARJANA MUDA (KEPUJIAN) TEKNOLOGI MARIN	ARAU



VISITING PROFESSOR



AWARDS





AWARDS

Congratulations!

SILVER



Ts. Dr. Judith Gisip
Azreni Abdul Karim
Dr. Imelda Albert Gisip

Technology Entrepreneurship Teaching Toolkit



17-20 Nov 2020

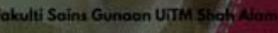
UiTM di hatiku <https://fsg.uitm.edu.my>           

Congratulations!

The Virtual National e-Content Development Competition 2020

Award	Participants	Title
Gold Award	Mrs Ernie Eileen Rizlan Ross	MOOC - Microbiology
Gold Award	PM Dr Aishah Bujang, Dr Suzalira Bakar	MOOC - Food Packaging Technology
Silver Award	Ts Dr Norazura Binti Ibrahim, Mrs Hairani Tahir, Mrs Mona Rita Othman, PM Dr Siti Zaleha Saad, Dr Ahmad Faizah Mohd, Ts Dr Raja Roslan Raja Mohamed	MOOC - Elastomeric Materials
Silver Award	Dr Kavitha Rajagopal	MOOC - Forensic Biology
Silver Award	Dr Zitty Sarah Ismail, Dr Mohd Nazarudin Zakaria, Mrs Mazatulikhma Mat Zain, Mrs Yuswanie Md Yusof, Mrs Noradila Mohamed, Mrs Fazni Sustila Abdul Ghani, Ts Dr Nor Suhaila Mohamad Hanapi	MOOC - Are You Protected?
Silver Award	Dr Halim Amani Binti Abdul Hamid, PM Dr Noraini Hamzah, Dr Mohd Azizi Nawawi, Dr Mohd Sufri Mastulli, Dr Sharif Fadli Mohamad Zamri	Physical Chemistry Is Fun
Bronze Award	Mrs Fazni Sustila Abdul Ghani, Mrs Ernie Eileen Rizlan Ross, Dr Zitty Sarah Ismail, Mrs Norashah Abdullah Norashah Abdullah, Dr Syahrul Imran Abu Bakar, Dr Hamizah Md Rasid, Dr Najmah P.S. Hassan, Ir Normadyazah Ahmad, Dr Nabilah Alemal Muhd Zailani, Ts Dr Nor Suhaila Mohamad Hanapi	MOOC - Introduction To Organic Chemistry CHM412 And CHM413
Bronze Award	Ts Dr Wan Nazihah Wan Ibrahim, Dr Nursyamsyila Mat Hediah Mrs Fazni Sustila Abdul Ghani, Dr Zitty Sarah Ismail	MOOC - CHM51: Achieving Quality & Excellent
Bronze Award	PM Dr Sabrina Hanim Saleh, PM Dr Zuraida Khusaimi, Mrs Rohani Ibrahim, Mrs Sabrina Md. Yunus	MOOC - Introduction To Analytical Chemistry

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APPOINTMENTS





PROFESSOR ON DEMAND

Professor on Demand is a programme initiated by the Office of Academic Affairs, FSG where FSG professors and associate professors are given slots to teach foundation students at UiTM Dengkil. The program is designed to expose Asasi students with professional experience through listening to lectures by top faculty members.



PROF. DR. HADIANI ISMAIL



PROF. DR. HJ. MOHAMAD KAMAL HAJI HARUN



PROF. DR. NORIZAN AHMAT



PROF. DR. HJH. FARIDA ZURAINA MOHD YUSOF



PROF. DR. HJ. MOHAMAD FAIZ FOONG ABDULLAH



ASSOC. PROF. DR. NORRIZAH JAAFAR SIDIK



ASSOC. PROF. DR. NOORAIN HASHIM



ASSOC. PROF. DR. NOOR HANA HUSSAIN

MENTOR-MENTEE PROGRAMME

The mentor-mentee programme between FSG Professors and Lecturers has been implemented since 2019. For 2021, there will be some changes in terms of the number of Professors in the FSG (due to the retirement of Professors and the addition of new Professors), as well as the addition and reduction of the number of lecturers serving under 20 years.

Mentor means a trusted friend, counselor or teacher. In the context of a faculty, a mentor is usually addressed to a person who is knowledgeable and has experience in a specialized field, namely a Professor.

Currently, FSG Shah Alam has a total of 18 Professors of which 16 of them are serving at the Shah Alam Campus while 2 more Professors are serving at a branch campus and Foundation Center. As such, only 16 Professors were involved as Mentors this year. In addition, a total of three senior lecturers with the rank of Associate Professor were also appointed as Mentors.

Mentee, on the other hand, means the individual who is guided and who is led. In this context, lecturers under less than 20 years of service are considered Mentees. The number of lecturers in this category in 2021 is 145 people.

The main focus of this programme is in the professional development of a Mentee especially in the aspects of teaching, research, and involvement with the industry and society.

The focus of the system can also be given to the psycho-social aspects of the Mentee such as latest knowledge and skills, new abilities, positive attitudes and current needs so that they are able to improve their competitiveness, manage opportunities and problems prudently, and respond to various challenges.



STUDENTS' ACHIEVEMENTS AND ACTIVITIES



STUDENTS' ACHIEVEMENTS AND ACTIVITIES

FSG STUDENTS ACTIVELY PARTICIPATED IN ACTIVITIES DURING COVID-19 PANDEMIC

Our country has been affected by the COVID-19 pandemic which has also impacted the whole world. The communities including university students were forced to embrace the new norms in their daily lives. Teaching and learning (T&L) methods at higher education institutions (HEI) underwent a drastic change. The new norms had forced the higher education community to immediately move to teaching and learning online.

The change from face-to-face to virtual learning had caused problems among students mentally and physically. Thus, the Student Affairs Division of Faculty of Applied Sciences, FSG, took the initiative to curb these problems by encouraging students' societies to continue with academic and non-academic activities. This could help reduce anxiety and stress amongst students. The efforts received full support from the top management of the faculty in ensuring that the students remain calm and able to focus on their studies.

Throughout 2020, a total of 65 student activities were approved and conducted online. Despite the COVID-19 pandemic, strong cooperation from the Sekretariat Mahasiswa Fakulti (SMF) and 14 students' societies led by Majlis Perwakilan Pelajar (MPP) had successfully organized activities at faculty, university, national and international levels. Prior to the first Movement Control Order (MCO) was announced, the faculty's MPP and SMF had already taken the initiative to produce sanitizer for students and staff use.

Several best achievements by FSG students in 2020:

- Naib Johan Debat Nuklear Antara Varsiti 2020
- Gold Special Award in the 4th World Invention Academic Conference 2020
- First Runner-Up for E-Malaysian Speaking Minds Competition 2020
- Top 10 Best Posters International e-Conference on Chemicals & Materials for Emergent Technologies



Hand sanitizer DIY bantu tangani Covid-19





STUDENTS' ACHIEVEMENTS AND ACTIVITIES

FSG STUDENTS ACTIVELY PARTICIPATED IN ACTIVITIES DURING COVID-19 PANDEMIC

FSG students remained committed in organizing activities throughout 2020 despite being fully occupied with online teaching and learning amid the COVID-19 pandemic. Various activities took place such as webinars, usrah, career and counseling sessions, competitions, e-sport, and so on. Alumni and industry players also participated in support of the students' efforts.

And for the first time ever, FSG students conducted a virtual pre-graduation event to celebrate final semester students. An online orientation called FSG "Get-To-Know" Day was also held which aimed to introduce the faculty to incoming students. It was a great effort in ensuring that all new students would still be able to get acquainted with the faculty even without being physically present.

The year 2020 had been a great memorable experience for FSG students as they won the coveted UiTM Overall Champion in the first edition of the Sukan Antara Fakulti Virtual Edition (SAFVE 2020). This was a grand success as FSG students were able to prove themselves that they are not only great in academics but also excel in sports. All these great achievements were obtained during the COVID-19 pandemic which made it all the more memorable.

The following figures illustrate several activities which were carried out throughout 2020.





STUDENTS' ACHIEVEMENTS AND ACTIVITIES

FSG STUDENTS ACTIVELY PARTICIPATED IN ACTIVITIES DURING COVID-19 PANDEMIC

As the year 2020 came to an end, the spirit of “FSGku Sayang” and “FSG padu” remained high in the heart of FSG students. It was evident in the huge percentage of students who voted during the campus election, Pilihan Raya Kampus (PRK) of UiTM on 12 and 13 January 2021. The 89.86% of FSG students who voted exceeded the university’s target of 85%.

This shows that the students took the voting responsibility seriously and fulfilled what is required of them as university students. FSG students continue to expand their horizons and seek on several opportunities to organise and collaborate in activities that add values as well as improve skills.

Congratulations to Mr. Muhammad Syaabani Mohd Rafie dan Miss Nur Nabilah Syafiqah Hafizuddin who were voted to represent FSG as MPP for 2020/2021 term.





UKM-NIPPON FOUNDATION ENDOWMENT FUND

The Institute of Malaysian and International Studies (IKMAS)-Nippon Foundation Young Scholar Fellowship Programme

Miss Izzah Nur Zulaikha Muhamarram Rachman Masjhur, a postgraduate student from FSG was one of the five selected participants in the IKMAS-Nippon Foundation Young Fellowship programme for 2020 session.

The programme was first introduced in October 2017 with the objective to provide young scholars from CLMV/ASEAN Countries with an opportunity to interact with Fellows from the Institute of Malaysian and International Studies (IKMAS) and academic staffs of National University of Malaysia (UKM) on research areas of their interest. The chosen topics must be related to ASEAN Integration.

For the 2020 term, which ran from 7 to 18 September 2020, the participants were introduced to the IKMAS community and took part in online classes during the first week. The classes covered topics on ASEAN ranging from political security, economic community, economic diplomacy and socio cultural. During the second week, the participants performed research work and went to a field trip to Terengganu to explore the culture and history of the beautiful state.

At the end of the programme, the students submitted their articles on their research work for publication. Izzah who was supervised by Prof. Dr. Sufian Jusoh had successfully produced an article on “The Needs of an Accredited Non-destructive Testing Training Centre for ASEAN Countries”.





ACHIEVEMENTS IN RESEARCH AND INNOVATIONS



GRANTS RECIPIENTS

ERASMUS+ PROGRAM GRANT WORTH RM656,500.00

Researchers from the Textile Research Group had successfully obtained an ERASMUS+ grant from European Union in January 2020. Their project is entitled "Smart Textiles-Modernization of the Curriculum of Textile Engineering and Textile Technology in Indonesia, Malaysia, and Pakistan". The duration of this project is for 3 years starting from 15 January 2020 until 14 January 2023 with a total grant of RM 627,940.00 (EUR 135,670.00).

The UiTM team is led by Associate Prof. Ts. Dr. Mohd Rozi Ahmad. Other team members are Associate Prof. Dr. Mohamad Faizul Yahya, Ts. Dr. Nor Dalila Nor Affandi, Dr. Atiyyah Musa and Ts. Dr. Wan Syazehan Ruznan.

The project includes collaborative initiatives between European and Asian universities as follows:

1. University of West Attica, Athens, Greece (Project leader)
2. University of Ghent, Belgium
3. Universitat Politecnica de Valencia, Spain
4. University of Engineering and Technology, Karachi, Pakistan
5. Bahauddin Zakariya University, Punjab, Pakistan
6. Bandung Institute of Technology, Indonesia
7. Polytechnic of Textile Technology, Indonesia;
8. Universiti Tun Hussein Onn, Johor, Malaysia

A consulting company based in Piraeus, Greece; IDEC S.A. is also involved in the project that provides high-tech training to universities. Collaborative efforts include the development of a new curriculum on smart textiles and staff exchanges between Asian and European universities, as well as mobility programmes for staff and students in the European textile industry. The program is expected to generate about 20 MoUs between UiTM and textile-related industries in Asian and European countries.





GRANTS RECIPIENTS

NEWTON FUND GRANT WORTH RM357,182.00

Another recent international grant recipient is Dr. Zakiah Mohamed who received the prestigious Newton Fund worth RM357,182.00 from the Department of Higher Education, Malaysia and the Science and Technology Facilities Council, UK for a research on evolution of crystal and magnetic structures in materials.

Through such funding, her research team will gain access to international facilities at ISIS Neutron and Muon Source in the UK for studying materials at the atomic level. Neutron data can give a very accurate value of the position of the atoms in the crystal structure.





GRANTS RECIPIENTS

Universiti Teknologi MARA
Fakulti Sains Gunaan

Congratulations

Dr Nurul Nadiah Mohd Firdaus Hum

for securing international collaboration research grant
fully-funded by Universitas Airlangga (UNAIR), Indonesia

Amount: 100,000,000 rupiah (~USD 7000/ RM 30,000)
Duration: 1 year

Project Title:
Enhancing Aquaponic Performances Using Microbial System for Sustainable and Eco-friendly Aquaculture

UiTM di hatiku **Dekan & Warga Fakulti Sains Gunaan** **Faculty of Applied Sciences, UiTM Shah Alam** **fsg_utm** **Faculty of Applied Sciences (FSG)** **#sgpadu**
https://fsg.utm.edu.my/main/ **FSG_UITM** **Fakulti Sains Gunaan UiTM Shah Alam** **#sgkusayang**

Universiti Teknologi MARA
Fakulti Sains Gunaan

Congratulations

Ts Dr Tay Chia Chay
Dr Wan Nurhayati Wan Hanafi

for securing international collaboration research grant
fully-funded by Universitas Airlangga (UNAIR), Indonesia

Amount: Rp 100,000,000 (RM 30,000)

Project Title:
The analysis of microbial community and isolation of Ciprofloxacin-degrading bacteria from hospital wastewater treatment plants in Indonesia and Malaysia.

UiTM di hatiku **Dekan & Warga Fakulti Sains Gunaan** **Faculty of Applied Sciences, UiTM Shah Alam** **fsg_utm** **Faculty of Applied Sciences (FSG)** **#sgpadu**
https://fsg.utm.edu.my/main/ **FSG_UITM** **Fakulti Sains Gunaan UiTM Shah Alam** **#sgkusayang**

Universiti Teknologi MARA
Fakulti Sains Gunaan

Sekalung Tahniah

kepada penerima

DEMAND-DRIVEN INNOVATION PROJECT UNDER THE PUBLIC-PRIVATE RESEARCH NETWORK (PPRN)

Dr Ahmad Faiza Mohd
(RM150,000)
"Modernization of the Injection Dyes Technology on the Traditional Natural Fibres Batik Printing Quality"

Prof. Madya Dr Khalilah Abdul Khalil
(RM 44,000)
"Optimization of Effective Microbes (EM) Formula For Fresh Water Lobster (LAT) Growth Improvement"

Puan Rohana Mat Nor
(RM32,000)
"Optimization of Biotech-Azolla Based PRLRLRTS for the Grow-out Phase of Freshwater Tilapia, Oreochromis sp."

UiTM di hatiku **Dan pada** **Dekan dan Warga Fakulti Sains Gunaan** **https://www.facebook.com/utm.fsg** **https://fsg.utm.edu.my** **#sgpadu**



GRANTS RECIPIENTS

Congratulations
Dr Mohd Shafiq Aazmi

for being appointed as Project Leader for a research grant funded by Universiti Putra Malaysia (UPM)

Amount: RM 13,800
Duration: 1 year

Project Title:
Influenza Disease Burden and Cost Estimates in Malaysia (FLU 97)

UiTM di hatiku Dekan & Warga Fakulti Sains Gunaan Faculty of Applied Sciences, UiTM Shah Alam <https://fsg.uitm.edu.my/main/> fsg_uitm FSG_UITM Faculty of Applied Sciences (FSG) Fakulti Sains Gunaan UiTM Shah Alam #sgpadu #sgkusayang

Congratulations
Dr Faezah Pardi

for being appointed as Project Leader for a research grant funded by Geran Kursi Perubahan Iktim Universiti Kebangsaan Malaysia (UKM) - Yayasan Sime Darby

Amount: RM 25,000
Duration: 1 June 2020 - 31 Mei 2022

Project Title:
Understanding the Ecological Consequences of Climate Change to Forest Growth Pattern in Peninsular Malaysia

UiTM di hatiku Dekan & Warga Fakulti Sains Gunaan Faculty of Applied Sciences, UiTM Shah Alam <https://fsg.uitm.edu.my/main/> fsg_uitm FSG_UITM Faculty of Applied Sciences (FSG) Fakulti Sains Gunaan UiTM Shah Alam #sgpadu #sgkusayang

Congratulations
Dr Nursyamsyila Mat Hadzir

for securing Lestari Covid Grant

Amount: RM 20,000

Project Title:
Development of N Protein Targeted Aptamer Based Electrochemical Biosensor Potentially as SARS CoV 2 Testing Test

UiTM di hatiku <https://fsg.uitm.edu.my> fsg_uitm FSG_UITM Faculty of Applied Sciences, UiTM Shah Alam Faculty of Applied Sciences (FSG) Fakulti Sains Gunaan UiTM Shah Alam #sgpadu #sgkusayang



GRANTS RECIPIENTS



Pejabat
Timbalan Naib Canselor
(Penyelidikan dan Inovasi)





INNOVATIONS & AWARDS

Congratulations
to the Remarkable Inventors of UiTM:
Patents and Utility Innovations Granted for 2020

6 Utility Innovations **10** Patents

Lead Inventor: Mohd Zulhan Mohd Zainal
Faculty of Information Management, UiTM Shah Alam
A Wireless Charging System for Power
Supply of an Air Purifier
PI 20130202001 / Utility Innovation / MJI-176872-A

Lead Inventor: Dr. No. Ishak Aminar
Faculty of Information Management, UiTM Shah Alam
A Wireless Charging System for Power
Supply of an Air Purifier
PI 20130202001 / Utility Innovation / MJI-174465-A

Lead Inventor: Farizah Jaz
Faculty of Office Management and Technology, UiTM Seremban
An Apparatus for Fastening Sheets of Materials
PI 2010010102 / Patent / MJI-174368-A

Lead Inventor: Dr. Kui Huien Ku Hornal
Faculty of Chemical Engineering, UiTM Shah Alam
A Method of Regenerating spent Bleaching Earth
PI 2013000064 / Patent / MJI-173964-A

Lead Inventor: Dr. Lim Ying Pei
Faculty of Chemical Engineering, UiTM Seremban
A Method for Treating Wastewater and A Composition to be Used Thereof
PI 20091165 / Patent / MJI-173649-A

Lead Inventor: Assoc. Prof. Dr. Jasmin Housain
Faculty of Medicine, UiTM Seremban
A Method of Reducing Barocyclo SPP
PI 2014172500 / Utility Innovation / MJI-179250-A

Lead Inventor: Assoc. Prof. Dr. Mohd Tarmizi Ali
Faculty of Electrical Engineering, UiTM Seremban
A Method of Producing A Thermal Composite
PI 20130200204 / Patent / MJI-177052-A

Lead Inventor: Assoc. Prof. Dr. Muhammad Huzaini Ismail
Faculty of Mechanical Engineering, UiTM Shah Alam
A Method of Producing A Dental Implants Article
With Nickel Titanium Alloy
PI 2013019202 / Utility Innovation / MJI-172341-A

Lead Inventor: Prof. Dr. Lee Yood Kuan
Faculty of Electrical Engineering, UiTM Shah Alam
A Web Based Intelligent Content Server Viewing
Tool for Online Textbook
PI 20070066 / Patent / MJI-177209-A

Lead Inventor: Prof. Dr. Norizah Abd. Rahman
Faculty of Chemical Engineering, UiTM Shah Alam
A Method of Treating Automotive Waste
PI 2010070108 / Utility Innovation / MJI-177031-A

Lead Inventor: Assoc. Prof. Dr. Mohd Fadil Aziz
Faculty of Civil Engineering, UiTM Shah Alam
A Quick Way to fingerprint your Products!
Exhibition (20) - welding for Grant No:
Dear Subsidiary Examination (DS) - waiting for Grant No

Lead Inventor: Dr. Rizal Hesani
Faculty of Manufacturing Engineering, UiTM Seremban
An Invention System for Used Paper
Dear Subsidiary Examination (DS) - waiting for Grant No

Lead Inventor: Assoc. Prof. Dr. Hasmah Mohd
Faculty of Plantation and Agromechanics, UiTM Seremban
An Apparatus for Separating Rice from Gelling
PI 2013000002 / Patent / MJI-176124-A

Unleashing Potentials Shaping the Future

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Congratulations!
SILVER

Assoc. Prof. Dr. Zainiharyati Mohd Zain
& Team

Rapid Detection of COVID-19 Virus (SARS-CoV-2) in Human Nasopharyngeal Swab Specimens Using Aptamers based Impedimetric DNA Biosensor

MTE 2020 Special Edition
Malaysia Technology Expo 2020
COVID-19 International Innovation Awards

2 Nov 2020

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Congratulations
FSG Researchers
for winning medals

MALAYSIA TECHNOLOGY EXPO (MTE), 2020
20-22 February 2020
Putra World Trade Centre


Prof Chan Chin Han
Gold Award
Best Award Category
A Quick Way to fingerprint your Products!


Dr Zakiah Mohamed
2 Silver Awards

1) Magnetic Nanosensor Synthesized by Azadirachta Indica
2) New Solid State Magnetic Sensors based Electron-Spin Perovskites Maganites

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Congratulations
PROF Ts DR HAJI MOHAMAD KAMAL HAJI HARUN
PROF ChM Ts DR CHAN CHIN HAN
on the development of IMM Standards
on fingerprinting of paints, raw materials and
dried coatings based on
FTIR technology for oil and gas industry








Dekan & Warga Fakulti Sains Gunan | [Faculty of Applied Sciences, UiTM Shah Alam](#) | [fsg.utm](#) | [Faculty of Applied Sciences \(FSG\)](#) | [FSG_UMT](#) | [Fakulti Sains Gunan UiTM Shah Alam](#) | [#fsgadu](#) | [#fsgzayang](#)

Congratulations
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Prof Chan Chin Han
Gold Award
Best Award Category
A Quick Way to fingerprint your Products!


Dr Zakiah Mohamed
2 Silver Awards

1) Magnetic Nanosensor Synthesized by Azadirachta Indica
2) New Solid State Magnetic Sensors based Electron-Spin Perovskites Maganites

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INNOVATIONS & AWARDS





INNOVATIONS & AWARDS

TAHNIAH PEMENANG PINGAT KATEGORI TERBUKA

iindex2020

EMAS
Prof Madya Ts Dr Noor Najmi Bonnia
Polypropylene Fabric Filled Graphene Oxide from Recycle Carbon as Virus Filter Sheet

PERAK
Prof Madya ChM Dr Sabila Hanim Saleh
Hemicellulose Biobased Film

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[FSG.UTM](#) [Faculty of Applied Sciences \(FSG\)](#)

TAHNIAH PEMENANG PINGAT YOUNG INVENTOR POSTGRADUATE

iindex2020

EMAS
NORSYAZLIN BINTI ABD RASHID
FINGERPRINTING FOR QUALITY WITH MY FINGERPRINT BUDDY!

EMAS
AHMAD FIRDAUS BIN CHE OMAR
FLEXIBLE ENERGY HAVERSTER. BATIO3/GRAFENE NANOGENERATOR

UiTM di hantika <https://fsg.utm.edu.my> [fsg.utm](#) [Fakulti Sains Gunan](#) [UTM Shah Alam](#)
[FSG.UTM](#) [Faculty of Applied Sciences \(FSG\)](#)

TAHNIAH PEMENANG PINGAT YOUNG INVENTOR POSTGRADUATE

iindex2020

PERAK
FATHINUL HAJIR BIN AHMAD SA'AD
REGIONAL CHLOROPHYLL A OVER TELUK LIPAT UTILIZING LANDSAT DATASET

PERAK
IZZAIQAH BINTI RIMAN
PREPARATION AND CHARACTERIZATION OF POLY(ACRYLIC ACID) BIOCERAMIC CATALYST FOR EFFICIENT OXIDATIVE-EXTRACTIVE DESULFURIZATION PROCESS

PERAK
NUR MIZA ATIKAH BINTI ZULKAPLI
FABRICATION OF FLEXIBLE LEAD-FREE Bi1-xCdxSnO3/pdms NANOCOMPOSITES FOR ENERGY BASED APPLICATIONS

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[FSG.UTM](#) [Faculty of Applied Sciences \(FSG\)](#)

TAHNIAH PEMENANG PINGAT YOUNG INVENTOR UNDERGRADUATE

iindex2020

EMAS
MUHAMMAD SYADDAD BIN NORIZAL
A FAST, SIMPLE, COST EFFECTIVE AND ECO-FRIENDLY TECHNIQUE FOR QUALITY CONTROL OF DICLOFENAC IN TABLETS

PERAK
SITI NURFARHANA BINTI MURSAHZANI
THE SMART HEIGHT MEASUREMENT SYSTEM WITH INTERNET OF THING (IoT)

UiTM di hantika <https://fsg.utm.edu.my> [fsg.utm](#) [Fakulti Sains Gunan](#) [UTM Shah Alam](#)
[FSG.UTM](#) [Faculty of Applied Sciences \(FSG\)](#)

TAHNIAH KONTINJEN FSG

iindex2020

1 EMAS, 8 PERAK DAN 1 GANGSA

PERAK Ts Dr Nor Dalila PERAK	PERAK Dr Rosdiyana PERAK	EMAS Ts Dr Aida Firdaus PERAK	PERAK Ts Dr Nurul Izrina PERAK	PERAK Dr Kavitha GANGSA
PERAK Dr Farizan PERAK	PERAK ChM Dr Hairul Amani PERAK	PERAK Dr Khairul Adza PERAK	PERAK Dr Nur Alimi Jaha PERAK	PERAK PM Dr Rahmati GANGSA

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[FSG.UTM](#) [Faculty of Applied Sciences \(FSG\)](#)

CONSULTANCY

Congratulations

FSG STAFF
for securing a consultation project

TITLE:
ADVISORY AND CONSULTANCY FOR MODIFICATION OF COAL BOTTOM ASH (CBA) AS REINFORCEMENT MATERIAL IN THE DEVELOPMENT OF GREEN POLYMER-MATRIX COMPOSITES (PMC)

Client: TNBR
Amount: RM 183757.69
Duration: 10 months

**PROF MADYA DR FAMIZA ABD LATIF
DR SHARIL FADLI MOHAMAD ZAMRI
PJJAN ASIAH MOHD NOR
En. MUHAMMAD ZULHAIRY RADZI
DR NABILAH AKEMAL MUHD ZAILANI (UTM Kuala Pilah)**

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APPOINTMENTS

The banner features a black background with a gold decorative border. In the center, the word "TAHNIAH" is written in large, bold, gold letters. Below it, a yellow ribbon banner contains the text "Profesor Madya Ts. Dr. Noor Najmi Bonnia" and "Ketua Penyunting (Chief Editor)". At the bottom, the text "Scientific Research Journal (SRJ)" and "1 September 2020 - 1 September 2022" is displayed. The left side of the banner shows a portrait of Profesor Madya Ts. Dr. Noor Najmi Bonnia, a woman wearing a pink hijab and a black suit. The UTM logo is in the top left corner, and the Faculty of Applied Sciences logo is in the bottom left corner. The bottom right corner features the journal's logo with the text "FACULTY OF APPLIED SCIENCES UTM" and "FAS UTM".

Tahniah

YBHG. PROF. DR.
HADARIAH BAHRON

atas pelantikan sebagai

PENOLONG NAIB CANSELOR
(Pengantarabangsaan)

berkuasa
1 Januari 2021

daripada
Naib Canselor,
Pengurusan Eksekutif dan Warga UTM

Menyerlahkan Potensi
Membentuk Masa Hadapan



MOU/MOA IN 2020

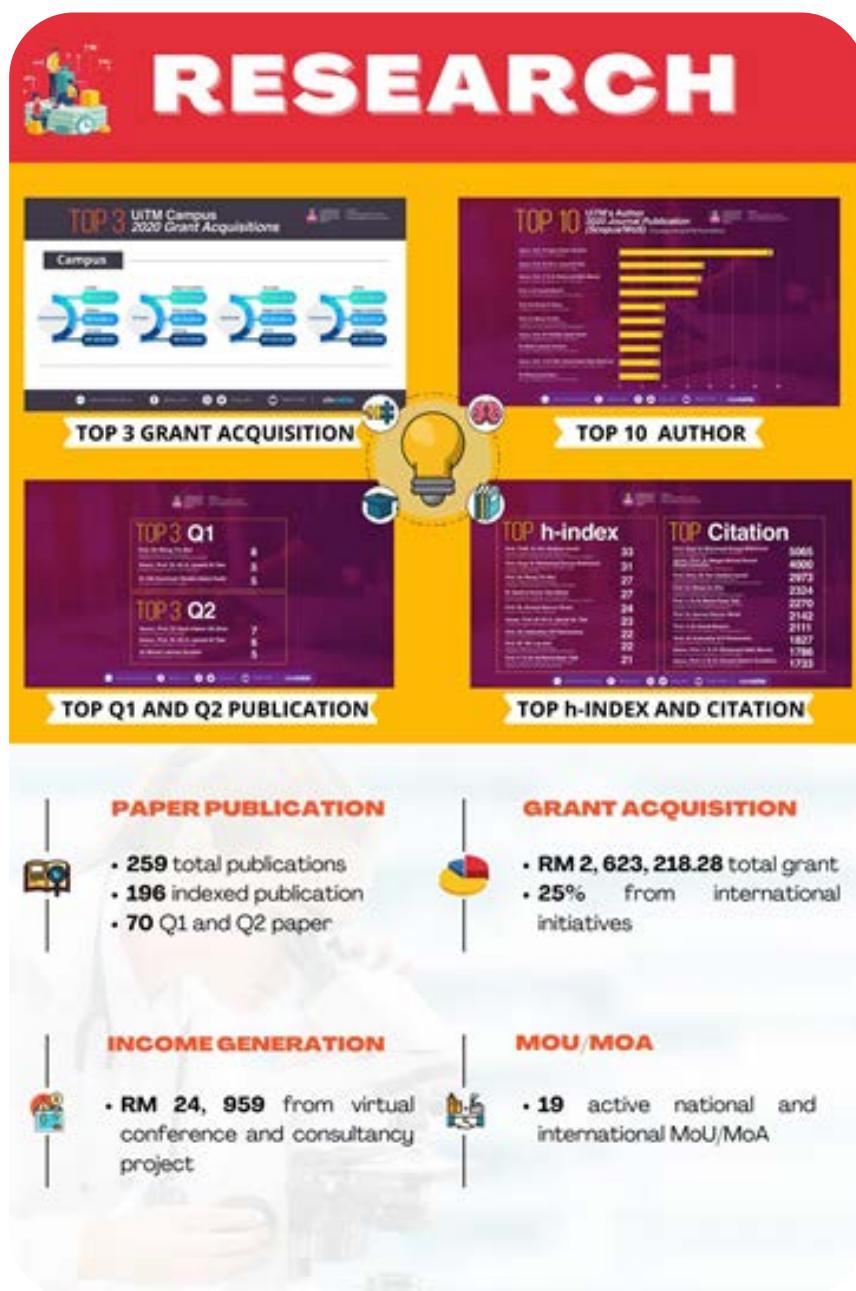
	ORGANISATION	COUNTRY
UNIVERSITY AND INTERNATIONAL INSTITUTION	TOKYO UNIVERSITY OF AGRICULTURE AND TECHNOLOGY	JAPAN
	CALIFORNIA STATE UNIVERSITY, SAN MARCOS	USA
	ABDULLAH GULL TURKEY	TURKEY
	CHIANG MAI RAJABHAT UNIVERSITY	THAILAND
	CENTRAL PHILIPPINE UNIVERSITY	PHILIPPINES
	HO CHI MINH UNIVERSITY	Vietnam
	NARESUAN UNIVERSITY	THAILAND
	NATIONAL UNIVERSITY OF LAOS	LAOS
	ROYAL UNIVERSITY OF PHNOM PENH (RUPP)	CAMBODIA
	TECHNOLOGICAL UNIVERSITY HMAWB	MYANMAR
	UNIVERSITAS INDONESIA	INDONESIA
	KHON KAEN UNIVERSITY	THAILAND
	RAJAMANGALA UNIVERSITY OF TECHNOLOGY PHRA NAKHON	THAILAND
	INSTITUT PERTANIAN BOGOR	INDONESIA
	UNIVERSITAT HAMBURG	GERMANY
	INDONESIAN COFFEE AND COCOA RESEARCH INSTITUTE	INDONESIA
	NATIONAL CHIAO TUNG UNIVERSITY	TAIWAN
	UNIVERSITY OF QUEENSLAND	AUSTRALIA
	ORGANISATION	COUNTRY
LOCAL INDUSTRY	CONTINENTAL TYRE SDN BHD MALAYSIA	MALAYSIA
	INSTITUTE OF MATERIALS MALAYSIA (IMM)	MALAYSIA
	INSTITUT KIMIA MALAYSIA (IKM)	MALAYSIA
	LIVECUBE SDN BHD MALAYSIA	MALAYSIA
	NIOSH BERHAD	MALAYSIA
	BALUNG TAPIOCA SDN BHD	MALAYSIA
	FITECH ASIA PLT	MALAYSIA
	MAJLIS DAERAH KUALA LANGAT	MALAYSIA
	BERKSHIRE GLOBAL SOLUTIONS	MALAYSIA
	ORGANISATION	COUNTRY
INTERNATIONAL INDUSTRY	ASEAN SMART GRID CONGRESS THAILAND	ASEAN



OVERALL ACHIEVEMENTS IN 2020

FSG had successfully won research grants amounting to RM 2,623,218.28 of which 25% were from international initiatives. There was also a total of RM24,959 of income generated from asset leases, short courses and training programmes. A total of 259 publications in all categories were produced with 70 of them in the Q1/ Q2 category.

FSG is in the top position for 2020 in grant procurement and Q2 paper publications, and also leading for 10 h-index and citations at UiTM. There are 19 active MOUs and MOAs in 2020 which have increased the cooperation with local and international partners.





FACILITIES, SPACE AND INFRASTRUCTURES DEVELOPMENT



FACILITIES, SPACE AND INFRASTRUCTURES DEVELOPMENT

The FSG and IPSIS UiTM Research Laboratory Development Project was successfully completed on 2 October 2020. The RM21.4 million project was an effort by the faculty to replace a previous laboratory building which was destroyed in a fire in 2013. The new laboratories are located in Bangunan Sarjana and will be divided for use between FSG and IPSIS or Institute of Graduate Studies. The FSG research laboratories will be able to fulfill the students and staff research needs.

The laboratory can accommodate up to 15 people per laboratory and is equipped with WIFI, air-conditioning and a centralized sound system. In addition, it is also equipped with emergency aid equipment such as emergency shower, fire extinguisher, and fire alarm as well as a fume hood system that uses the latest technology. There is also a store on each level equipped with a chemical storage cabinet and exhaust fan system. Rooms are also available for discussions, seminars and meetings. Student discussion rooms are located on levels 1, 2 and 3 with a capacity of up to 12 people per room.





RECOGNITION AT NATIONAL AND INTERNATIONAL LEVELS



KEYNOTE AND INVITED SPEAKERS

FSG's academic staff continue to be recognised nationally and internationally for their contributions and expertise. As the border is still closed, most conferences and discussions at the international level are conducted online. FSG academic staff were involved as keynote and invited speakers at the following conferences held in 2020:

- Dr. Raseetha Vani Siva Manikam, keynote speaker, Food Supply Chain during Covid-19 Pandemic in Indonesia, Malaysia and Thailand, 18 May 2020
- Prof. Dr. Sulaiman Shaari, invited speaker, Global Solar Council Webinar, 23 April 2020
- Ts. Dr. Aida Azmi, invited speaker, Global Re-set in a Quarantine Economy, 13 May 2020

The participation by FSG staff serves as a recognition of their outstanding background which can enhance the visibility specifically for FSG and UiTM in general.



BEST ORAL PRESENTER IN NANOTECHNOLOGY IN FORESTRY & NATURAL RESOURCES SEMINAR 2019 IN CONJUNCTION WITH NANO KEBANGSAAN 2019

Nanotechnology in Forestry & Natural Resources Seminar 2019 was organized by Forest Research Institute (FRIM) in conjunction with Nano Kebangsaan 2019 on 10 October 2019 in Cyberjaya, Malaysia. The conference was officiated by FRIM Director General, Dato' Dr. Abd Latif Mohmod. The theme of the conference was Green Technology: Sustainable Solutions for Global Challenge. About 60 presenters (oral and poster) presented their research findings during the seminar. FSG lecturer, Assoc. Prof. Dr. Siti Norasmah Hj. Surip was awarded as best oral presenter with her speech entitled Biodegradable Property of Poly Lactic Acid (PLA) / Kenaf Fibers Nano Composite.





SHARING OF EXPERIENCE AS A VISITING SCHOLAR AT UNIVERSITAS INDONESIA

It was like a dream when I received an invitation from Universitas Indonesia (UI), the No. 1 ranked university in Indonesia as a visiting scholar. My responsibilities included delivering a series of lectures at the Department of Metallurgical and Materials Engineering and also as an invited speaker at the International Meeting on Advances in Materials (i-MAM) Seminar which was held from October 28 until November 1, 2019.

The fully-funded program was organized by DTMM Faculty of Engineering main campus in Depok, Jakarta. The International Meeting on Advanced Materials started with postgraduates colloquium which I and two other scholars from Australia and Singapore were appointed as panels. A total of 30 Ph.D. students from the department presented their work. The programme continued with a journal writing workshop for postgraduates. We also discussed future research collaborations between UiTM-UI to strengthen the relationship and expand the network as agreed in the signed MoU. As the main agenda of the i-MAM seminar, I delivered a talk on Enhancing National Economics Growth with Eco-Products followed by Q&A session with staff and students.

I was also given an opportunity to give lectures to undergraduate students for polymer composites and nano materials subjects. It was an honour for me to be able to share my knowledge and expertise, and at the same time promote FSG and UiTM at international level. - *Assoc. Prof. Dr. Siti Norasmah Hj. Surip*





ASEAN SCIENCE LEADERSHIP PROGRAM GETS EXTENSIVE MEDIA COVERAGE IN VIETNAM

On 2-5 December 2019, selected scientists from ASEAN countries were invited to attend the ASEAN Science Leadership Program held in Hanoi, Vietnam. The programme was organized by the ASEAN Young Scientist Network which was attended by scientists from Malaysia, Indonesia, Myanmar, Thailand, Laos, the Philippines, Singapore and Vietnam.

Malaysian scientists were represented by Assoc. Prof. Dr. Siti Norasmah Hj. Surip (UiTM), Chm. Dr. Shahrul Nizam Ahmad (UiTM), Dr. Siti Hamimah Sheikh Abdul Kadir (UiTM), Assoc. Prof. Dr. Siti Sarah Othman (UPM), Dr. Mas Jaffri Masarudin (UPM), Dr. Thaigarajan Parumasivam (USM) and Assoc. Prof. Dr. Wan Iryani Wan Ismail (UMT).

The 4-day programme was filled with various activities to enhance research creativity in their respective fields, enhance collaboration networks between ASEAN scientists and attend the ASEAN Conference for Young Scientists at a newly opened university, Phenikaa University. The inaugural programme had received extensive coverage in the Vietnamese mass media and electronic media.

THÀNH NIÊN

ASEAN đề xuất sáng kiến giải quyết các thách thức

13.01 - 02/12/2019 - 0 | THANH NIÊN ONLINE

Vũ Thơ | Liên hệ | Đánh giá tác giả | ★★★★★

Ngày 2.12, tại Hà Nội, T.Ư Đoàn phối hợp Bộ Khoa học và Công nghệ tổ chức Hội nghị các nhà khoa học trẻ ASEAN 2019 với chủ đề "Khoa học, công nghệ và đổi mới cho Cộng đồng ASEAN bền vững".



Tiếnphong

GIỚI TRẺ

Nhịp sống Cộng đồng mạng Tài năng trẻ

02/12/2019 11:21

Cơ hội nhà khoa học trẻ đề xuất giải pháp giải quyết thách thức

TPO - Ngày 2/12, tại Hà Nội, Bộ Khoa học và Công nghệ phối hợp với T.Ư Đoàn phối hợp tổ chức Hội nghị các nhà khoa học trẻ ASEAN 2019 với chủ đề "Khoa học, Công nghệ và Đổi mới cho Cộng đồng ASEAN bền vững". Hội nghị có sự tham dự của 140 Tiến sĩ, nhà khoa học trẻ Việt Nam và các nước ASEAN.





SHORT-TERM OUTBOUND MOBILITY PROGRAMME TO RAJAMANGALA UNIVERSITY OF TECHNOLOGY, PHRA NAKHON (RMUTP) BANGKOK, THAILAND

On the 15-17th December 2019, 15 students of Textile Science and Fashion Technology Program (TSFT), UiTM Shah Alam had participated in the Short-term Outbound Mobility Programme at the Rajamangala University of Technology, Phra Nakhon (RMUTP) Bangkok, Thailand. The program was jointly organised by the TSFT Program of FSG, UiTM and RMUTP, Phra Nakhon, Thailand.

The UiTM delegates, led by Ts. Dr. Nur Ain Yusof, and accompanying lecturer, Miss Najua Tulos, were warmly welcomed by the President of RMUTP Phra Nakhon, Assoc. Prof. Supatra Kosaiyakanont, and the Dean of Faculty of Industrial Textiles and Fashion Design, Assoc. Prof. Dr. Rattanaphol Mongkholrattanasit. The main objective of the program is to furnish the students with intercultural competence and distinctive skills and knowledge acquired by immersing in another international society.

The programme consisted of a mixture of discussion session, a 5-days training programme on Textile Products Design and Development, and cultural and academic visits to various place of interests around Bangkok. During the training, the students were exposed to the production of natural dyes from plants, and experienced hands-on dyeing and printing of different techniques, from raw material to end products (bags and scarfs). Prior to the training, the students had the opportunity to participate in a discussion with RMUTP researchers on research that are currently conducted in UiTM and RMUTP. The fruitful session also discussed the possible collaborations between the two universities on research related to the field of study.

The cultural and academic visits to The Grand Palace, Rattanakosin Exhibition Hall, Sala Chalermkrung Royal Theatre, and few other places provided unique Thai culture which focusing on traditional costumes and local fabrics. The program was concluded with a certificate giving ceremony to all participating students which was presented by Assoc. Prof. Dr. Rattanaphol Mongkholrattanasit.





TS. DR. AIDA FIRDAUS MUHAMMAD NURUL AZMI AS A RECIPIENT FOR LEADERSHIP IN INNOVATION FELLOWSHIPS (LIF) 2020, LONDON, UK

Ts. Dr. Aida Firdaus Muhammad Nurul Azmi was among 14 recipients from Malaysia who were selected for the Leadership in Innovation Fellowships (LIF) 2020. The LIF programme is organized by the Royal Academy of Engineering and funded by the Newton Fund/UK Government's Department of Business, Energy and Industrial Strategy. It brings 17 recipients from Newton Fund partner countries to undergo an intensive training course on innovation in London, UK.

Dr. Aida was nominated for the programme based on her functional food products specifically on Biodegradable Energy Chewing Gum, which is currently in the prototype stage. The chewing gum is biodegradable, sugar-free, caffeine-free and also liquid-free. This incorporates natural active ingredients that substitute caffeine, which is normally used as the source of energy. She attended the course in London, UK from 16th to 28th February 2020.

The LIF programme is supported by the Malaysian Industry-Government Group for High Technology (MIGHT), a partner in Malaysia for UK Newton Fund. Through the partnership, emerging leaders in the global innovation community, with an interest in entrepreneurship and have an engineering-based innovation with potential to contribute to the social and economic development of their country. By participating in the programme, Dr. Aida had the opportunity to learn from professional entrepreneurial trainers and mentored by experienced business leaders.





VISITING RESEARCH FELLOW AT ABU DHABI UNIVERSITY, UNITED ARAB EMIRATES

Dr. Abdel-Baset M. A. Ibrahim had successfully secured a position as a Visiting Research Fellow at the Department of Applied Sciences and Mathematics, College of Arts and Sciences, Abu Dhabi University (ADU). The program is initiated by ADU to enable their researchers to jointly work with international researchers to contribute to nationally and regionally relevant areas of research. The programme allows established researchers to join ADU as Visiting Fellows or Senior Visiting Fellows based on the needs of individual projects. Candidates are expected to be accomplished researchers publishing at the highest level in their fields. They should also have experience in supporting the development of less experienced researchers and working in teams. Joint publications and collaborative research programmes with ADU researchers are the key outcomes of this initiative. The collaboration aims to build productive teams comprising of international research experts and ADU researchers as well as cultivate fruitful transfer and sharing of knowledge to benefit both parties. Based on performance, the Fellowships may be extended.



Under this programme, Dr. Abdel-Baset M. A. Ibrahim has been working with Prof. Hichem Eleuch, head of the quantum optics group in a project entitled "Quantum properties of light propagating in a Kerr nonlinear coupler". The first appointment started in September 2018 until August 2019 and the second appointment started in December 2019 until December 2020. Prof. Eleuch is also a member of Prof. M. O. Scully's research group at the Institute of Quantum Science and Engineering, Texas A&M University. Some fruitful results of this collaboration have been published in profound international journals such as the Journal of Modern Optics, Chinese Physics B, Journal of Electromagnetic Wave and Applications, Optical Review, and International Journal for Light and Electron Optics (OPTIK).



MEDIA APPEARANCES



MEDIA APPEARANCES OF FSG STAFF DURING COVID-19 PANDEMIC

FSG through its Corporate Communications Unit has provided a platform aimed at popularizing science, thus, bridging the gap between academia and the community through the involvement of academic, and administrative staff in the mass media particularly through electronic media.

Many opportunities have been provided as a result of collaboration with the local media. This can be seen through the publication of scholarly articles that address current issues in the local newspapers such as New Straits Times and Berita Harian. FSG staff had also shared their expertise through broadcast media such as Bernama and TV1 to help educate the community in embracing the new norms during the COVID-19 pandemic. As a result, a total of 24 articles were published in the mass media and a total of 27 staff were invited as panels to discuss issues related to the pandemic.

KEMUNCULAN STAF FSG DI MEDIA CETAK 2020



KEMUNCULAN STAF FSG DI MEDIA ELEKTRONIK 2020



PANDEMIK COVID-19 UJI KEPIMPINAN ORGANISASI



BERSAMA

ARMYN FAHMI MOHD FAHMI
TIMBALAN PENDAFTAR KANAN,
BAHAGIAN HAL EHWAL PELAJAR,
UTM SHAH ALAM

UMAIRA OTHMAN KOYA
TIMBALAN PENDAFTAR,
FAKULTI SAINS GUNAAN,
UTM SHAH ALAM

SABTU, 19 DISEMBER 2020
8:00 - 10:30 PAGI



tv1 **BERITA** **BERITA**
SALURAN 123 SALURAN 123

myFreeview
SALURAN 123

myklik
myklik.rtm.gov.my

#LIVE selamatpagimalaysia **#LIVE** #adiseripagi #rtmmobile

PROJEK HAND SANITIZER UiTM



SKYPE BERSAMA

DR. MOHD MUZAMIR MAHAT
KETUA UNIT KOMUNIKASI PENYELIDIKAN & VISIBILITI
PEJABAT TIMBALAN NAIB CANSelor (P&I),
UTM SHAH ALAM

ISININ, 13 APRIL 2020
8:00 PAGI - 12:00 TENGAH HARI

tv1 **BERITA** **BERITA**
SALURAN 123 SALURAN 123

myFreeview
SALURAN 123

myklik
myklik.rtm.gov.my

#LIVE selamatpagimalaysia **#LIVE** #adiseripagi #rtmmobile



CSR PROJECTS



CSR PROJECTS

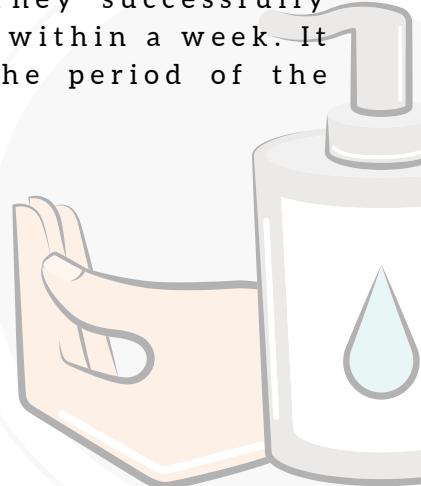
THE FSG HAND SANITIZER PROJECT

The FSG Hand Sanitizer Project was successfully carried out by 12 laboratory staff, led by the Head of FSG Laboratory. The production of these hand sanitizers complies with the formulation as prescribed by the World Health Organization (WHO). A total of 220 bottles of 500ml hand sanitizers were distributed to other PTJs in UiTM Shah Alam and within the faculty for internal use. The hand sanitizers were also given to the visitors of the faculty as a souvenir, as well as a gift for participants registered for a webinar program.



A COLLABORATION PROJECT WITH SERBA DINAMIK SDN BHD FOR THE PRODUCTION OF HAND SANITIZER

This hand sanitizer project was led by Prof. Dr. Chan Chin Han in collaboration with Serba Dinamik Sdn. Bhd. The project which was fully sponsored by the company was carried out at Biology Laboratory A 402 with the involvement of three FSG laboratory staff. They successfully produced a total of 1,200 bottles of 50ml hand sanitizers within a week. It was then distributed to the front liners throughout the period of the Movement Control Order.





CSR PROJECTS

PPE GOWN & HEAD COVER PROJECT

A total of 633 sets of personal protective clothing for hospital front liners around Klang Valley were successfully completed as a result of a joint venture between the Faculty of Applied Sciences and the Faculty of Art & Design, UiTM. The preparation of the personal protective equipment (PPE) took almost two months and it was conducted in two phases. The first phase was for the production of 513 units of head cover and in the second phase, a total of 120 units of PPE gowns were produced. A total of seven FSG laboratory staff were involved in this project using three units of industrial sewing machines which are located at the OM238 Textile Laboratory.



RECYCLING PROGRAMME ORGANIZED BY FSG 5S COMMITTEE WITH ALAM FLORA MALAYSIA

On 2 October 2020, the FSG 5S committee held a recycling event which was participated by 178 staff. 2683 kg of goods were collected namely paper, books, magazines, electrical appliances, cooking oil, and glasses, amounting to RM 687.60.





OTHER ACHIEVEMENTS



OTHER ACHIEVEMENTS

FSG'S ICOURSE4U WON AWARDS AT "PERTANDINGAN IDEA UNGGUL @ UITM 2020"

"Pertandingan Idea Unggul @ UiTM 2020" was held on 5th of November 2020, with the theme "Kebiasaan Baharu, Jaminan Kelestarian UiTM". It was the first time it was held in conjunction with the Covid-19 pandemic, replacing the KIK Innovative and Creative Group Competition. Faculty of Applied Sciences, UiTM Shah Alam was represented by EPSILON group with a project entitled "iCOURSE4U".

EPSILON made it into the finals with 30 other groups. EPSILON won the Most Creative Idea Award and a Silver Medal Award. The idea was also presented at the International Conference University Administrators and won Best Poster and Gold Medal awards. iCOURSE4U was introduced to benefit and improve the skills and knowledge of laboratory staff in instrument handling. It is a project that features modular and continuous online course training. It is a long term project and has the potential to improve governance as well as the quality of teaching and learning at the Faculty of Applied Sciences in particular and UiTM in general.

The management of the Faculty of Applied Sciences gives full support to the development of iCOURSE4U. The cooperation from all parties, especially the staff involved has contributed to the project's success and it will be able to be used widely throughout the UiTM system. The invention of iCOURSE4U is timely in facing the challenges posed by the COVID-19 pandemic. It is hoped that it can continuously improve the skills and knowledge of laboratory staff to produce high quality service to the faculty and students.





OTHER ACHIEVEMENTS

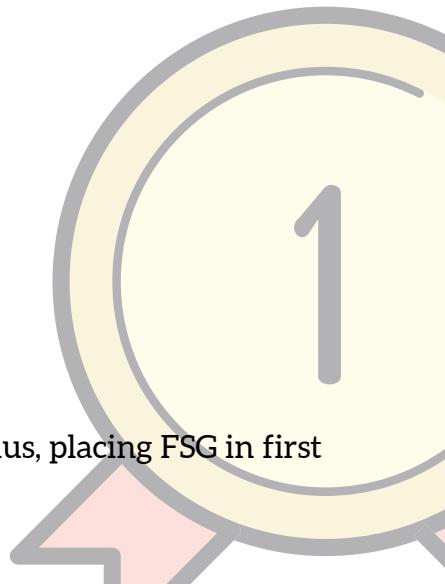
FSG IQMS EXTERNAL ASSESSMENT CYCLE 5/2021 (11-13 JANUARY 2021)

A remarkable achievement for FSG in which for the first time, the faculty has successfully obtained a net audit during the FSG iQMS External Assessment Cycle 5/2021 (11-13 January 2021). This success is a result of a strong and cohesive cooperation as well as the excellent quality of work from all FSG staff.



FSG ACHIEVED 94% i-SCORE UiTM BRAVO FSG!

For the year 2020, FSG achieved 94% in i-SCORE, with 6-star recognition, thus, placing FSG in first place in UiTM.



This tremendous achievement is the result of the faculty's leadership management and the competence of the faculty members in ensuring all activities and programmes carried out are in line with the aspiration and visions of UiTM.





OTHER ACHIEVEMENTS

GOLD AWARD AND BEST E-POSTER AT INTERNATIONAL CONFERENCE UNIVERSITY ADMINISTRATOR (ICUA2020)



STAFF EXCELLENCE AWARD 2019





EVENTS AND ACTIVITIES



SHORT COURSE ON TECHNICAL EVALUATION OF SCHOOL UNIFORM FABRICS - TERAJU EKONOMI ASNAF SDN BHD



Over the years, the Textile Science and Fashion Technology Program (TSFT) UiTM has been actively conducting periodic training in the form of short courses/workshops to the government and private sectors. On the 9th-10th September 2020, a short course on Technical Evaluation of School Uniform Fabrics for participants from Teraju Ekonomi Asnaf Sdn. Bhd. (TERAS) was successfully organised by TSFT UiTM. The course is primarily aimed at providing theoretical knowledge and hands-on experience on the technical skills of handling fabric assessment needed for staff working in the related department. Participants were mostly executives from various departments of TERAS which include the Quality and Audit Unit, Asnaf Training Sector, and Procurement Sector.



During the training, participants were provided with the necessary skills and knowledge to conduct a technical evaluation on fabrics that are used to make school uniforms, as well as to gain the required knowledge to measure fabric quality and performance. The topics covered during the course were Textile Physical and Mechanical Test, and Garment Quality and Performance, while hands-on laboratory works were conducted on fabric physical test, colorfastness to washing, color coordination, drapability, fabric abrasion, and pilling properties. Discussion between instructors and participants during the 2-day course enabled the exchange of experiences and best practices among the participants, thus, a fruitful collaborating environment.

The program is hoped to increase the knowledge among participants on the aspect of quality and performance of textile material which may help to continuously improve their quality of work. More future collaborations are planned between TSFT UiTM and TERAS with the objective to strengthen the current and existing partnership between university and industry in the area of academia-industry, to develop and instill entrepreneurship among community and graduates, as well as generating income to the university.



COMPUTER-AIDED MANUFACTURING TRAINING USING TUKATECH SOFTWARE

A Computer-Aided Manufacturing training using Tukatech Software was held at Apparel Lab in FSG. The training was organized by the Department of Textile Science & Fashion Technology on September 3rd until 9th 2020. The objectives of the training were to give exposure to the important features of Tukatech software and to demonstrate how to use its application in garment manufacturing.

CAM Implementation in the Apparel Industry Computer-Aided Manufacturing is an automation system that designs, regulates, and determines control of production operations. In the Apparel industry, CAM is associated with several machines and devices that help in the effectiveness of garment production. Several processes that can be integrated with computers and automation processes production in CAM include:

PLOTTING The new plotter system has replaced the traditional paper-heavy and difficult method controlled. The plotter system used now is connected to a computer and the internet, that is enabling better control and maintenance systems that minimise downtime.

SPREADING The current spreading system allows fabric arrangement with nesting automation to speed up processing times because it uses a smart and effective system, and is also connected to the machine automatic cutters thereby optimizing production effectiveness, saving time and costs.

CUTTING The cutting system is also connected to an integrated computer making it easier to cut with a high degree of accuracy.

SEWING The sewing machine that is integrated with the computer system also speeds up the sewing process, as well as several automation functions that vary according to their types and needs.

With increasingly dynamic demands in the apparel industry, advanced technology is also needed. CAM implementation is necessary to help optimize the process production with a smart and integrated computer system, then it can help reduce fabric waste during the production process because with CAM integration, accuracy and automation during pattern making, grading, plotting and cutting can be maintained. The integration of CAM also helps in minimizing errors that occur when processing production is done manually. Ultimately, production effectiveness can be achieved in terms of time, cost, and production results that can meet global standards.





QUALITY AWARENESS CAMPAIGN BY FSG ISO COMMITTEE

The FSG ISO committee started a quality awareness campaign on 30 September 2020 by hosting a webcast@FSG Admin Siri 4.0: Kualiti Dekat di Hati. The webinar introduced each task force in the quality unit, as well as their mission which is to cultivate a quality culture at FSG. The campaign was extended until 29 December 2020 by disseminating quality information to FSG staff via 9 online posters.

WEBCAST@FSG
ADMIN SERIES 4.0

SESI PERKONGSIAN:
KUALITI DEKAT DIHATI

30 SEPTEMBER 2020
RABU

10.30 pagi - 12.00 tengahari
Cisco Webex Link: <http://tinyurl.com/adminfour>

JAM LATIHAN

- Jam latihan disediakan
- 5 hadiah menarik akan diberikan kepada pemenang kuiz

HOS
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**CHM. TS. DR. NOR SAWILIA
Mohamed Nasirulain
Pengerusi AKNC**

**CHM. DR. WATI
Nurul Huda Wan Ibrahim
Pengerusi ISO
MODERATOR**

**DEKAN & STAF
FAKULTAS SAINS
GUNAAN**

Kempen Kesedaran Kualiti FSG
84/3/2020


SUKAN MARA
UNIVERSITI
TEKNOLOGI
MARA

DOKUMEN & REKOD YANG TERKAWAL ADALAH KUNCI KECEMERLANGAN AUDIT DAN ANALISIS DATA



Kempen Kesedaran Kualiti FSG
Bil 6/2020



MEREALISASIKAN VISI FSG

"Menjadikan FSG sebagai fakulti unggul yang berteraskan kesanjanjana dan kecermerlangan akademik bagi menerajui dinamisme kepimpinan Bumiputera dalam bidang sains dan teknologi berbarfi dunia bagi melahirkan graduan yang berdaya saing di peringkat global dan beretika."

Kempen Kesedaran Kualiti FSG
BT/4/2020

**Kawalan Produk Yang
Tidak Memenuhi Spesifikasi!**

Memastikan semua produk yang tidak memenuhi spesifikasi diajukan dan dilanjutkan ke reponisitori pengeluaran, pemantauan serta penambahbaikan Sistem Pengurusan Kualiti FSG.

Tindakan Pemuliharaan

Memastikan tindakan pemuliharaan terhadap sebarang ketidakpuasan atau kecacatan yang dikenalpasti di dalam sistem pengurusan kualiti FSG tidak berulang dan puncak ketidakpuasan dihindarkan sepenuhnya dengan berkesan.

Surat Edaran
Kempen Kesedaran Kualiti FSG
Universiti Teknologi MARA
Kuala Lumpur, 2020

<https://fsg.uitm.edu.my/index.php/about-fsg/office/unit-quality-management>



WEBINARS



PROMOTION

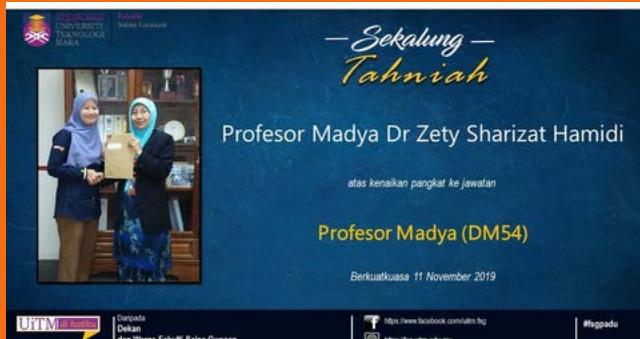


CONGRATULATIONS



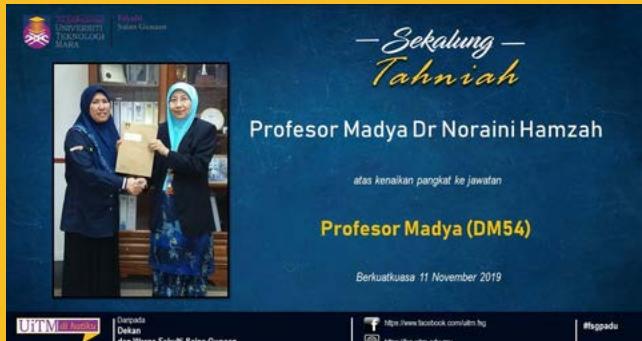
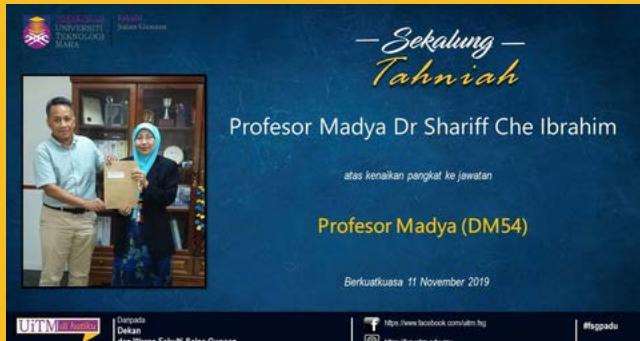


CONGRATULATIONS





CONGRATULATIONS





NEW DOCTORS

DOCTORS IN THE HOUSE



DOCTORS IN THE HOUSE





NEW STAFF



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AHMAD**



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DR. NOR ZAINI IKROM ZAKARIA



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RELOCATED TO UITM MACHANG



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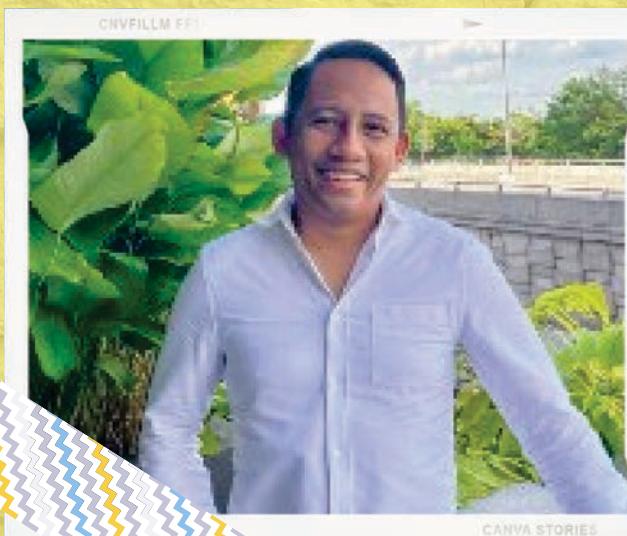


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