AN INTERNATIONAL AWARD-WINNING INSTITUTION FOR SUSTAINABILITY



KICT

NEWSLETTER

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KICT 20TH YEAR

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Message from the Dean Prof. Ts. Dr. Abd Rahman Ahlan Dean KICT, IIUM

Research continues to be the focus of the Kulliyyah. Despite the pandemic, research activities have never ceased. In fact, the pandemic allows us to make new discoveries and uncover different perspectives. We began to reflect and rethink about the value and the real impact of our research to our community and not just the impact factor.

Sustaining research activities would be challenging without the quality and the quantity of our postgraduate students. New ways to attract postgraduate students are of paramount importance. Postgraduate students are like the "engine" for research. Principle researchers need to drive the research and work together with the postgraduate students and bring us where we need to be. They are the agents of advancements of both the field and the Kulliyyah.

There is a need to create accommodating pathways for students who just graduated to take the path of research and pursue research degrees. Innovative ways such as taking elective courses that pave the way for specialisation can help students generate ideas for their project and further identify a researchable problem statement. Micro credentials and remote supervision mode can also be leveraged to create an innovative and flexible pathway or study plan for postgraduate research studies.

Existing students can be encouraged to affiliate and associate themselves to the research units (RU) of the Kulliyyah. They will be exposed to the latest development of certain focus areas. This opens opportunities for them to become research assistants and this will definitely contribute to building a good profile for themselves that would later be useful for them to apply for scholarships.

Researchers need to expose and showcase research activities and findings to the younger generation including undergraduate students. This can be done by incorporating and embedding research findings into the courses. Research has become a nexus to Teaching and Learning and references are no longer limited to only textbooks.





Message from the Former Dean Prof. Dr. Abdul Wahab Abdul Rahman (Dean of KICT, 2013 - July 2021)

The fast changing in Technology especially in ICT should drive the member of Kulliyyah of ICT especially we the lecturer to play the key role in the university's futures. The Covid-19 is even more so that tells us our important role in driving the university's direction. Unless otherwise we play a more active role the university will miss the opportunity to lead and play a vital role in Malaysia and global education arena. It is not too late for us to embark a practical and fruitful research to benefit the ummah at large.

الحَمْدُ للهِ رَبِّ العَالَمِيْن

we have been doing well;

Firstly, in the area of Cyber security and governance both Dr Normaziah's and Dr. Nuha's group has contributed to local arena and its about time IIUM/KICT should go global along the SDG's path.

Secondly, in the big data analytics Dr Mira, Dr Lili and team contributed to the Bank Negara and our MSD in analysing big data and now they are using it to improve their systems.

Thirdly, Dr Norzaliza's group with the Penawar Hospital are pursuing in profiling and helping the community with learning disorder to help children to lead a more normal life.

Fourthly, Br ARAD and team on the M-kitchen shows how our masjid can benefit using ICT to help the needy's and also donors to optimise their donations.

Last but not least, many other contributions done by our lecturers individually and in group to benefit the community at large.

I am sure many more can be done with ICT, but what is important is to make sure we promote our contribution so that more people can benefit from our effort. this is not to boast our effort but to enable more to benefit from it. The Sustainable Social Bank (SSB) is one such effort which i think it's important the Kulliyyah picks it up as KICT projects and provide more support to make sure that it is a success and leading the way to be Malaysian first Time bank successful project. Our other flagship projects should be fully supported by the kulliyyah to ensure we can lead the way and I am sure we can do it.

The University is relying on us to lead the way in ICT and technology and the rest of the University are waiting for our lead. Do not fail the University, I am sure each of us can contribute one way of other. I hope this will motivate us to help the University lead the way.





Message from the Former Head of Research and Innovations Prof. Dr. Imad Fakhri Taha AlYaseen (2013 - July 2021)

I will be writing today about KICT research and innovations achievements within my capacity as Head of Research and Innovations for KICT from 2013 till July 2021.

The kulliyyah strategy during this period was to encourage, motivate, and support our academic staff to push hard towards improving our research and innovations culture and achievements. For that, the kulliyyah lead by the Dean (Prof. Abdulwahab bin Abdulrahman), who was very supportive to our office to achieve that, took many initiatives to reach these goals. Among these initiatives:

- 1. The establishment of 10 research groups (in addition to the 3 university research groups) which covers all topics of interest in ICT.
- 2. The establishment of 2 research journals to encourage our academic staff to publish their research results. (Both journals are now indexed by MyCite).
- 3. The establishment of Kulliyyah Research Committee to put the research strategies for the kulliyyah.
- 4. Offering publication incentives from the kulliyyah trust fund (RM 2k per staff per year) to increase the article publications.
- 5. Initiate KICT research initiative grant scheme 2020 to give the opportunity for the academic staff with no grant to be principal investigators and to increase the publications, and to be able to support our PG students by hiring them as GRA's.
- 6. Organising monthly intellectual talk in which one of the research groups present their latest research achievements.
- 7. Organise training workshops for our academic staff on writing good research proposals for national and international grants.
- 8. Organise a research day every year to discuss the previous year achievements and to give opportunity for collaboration between the research groups in addition to reward the best researchers in terms of research and publications.

Applying the above strategies the kulliyyah achieved a lot in many aspects like:

- 1. Maintaining the achievement of being among the top 6 Kulliyyah in the university in terms of MyRA scores.
- 2. The kulliyyah won as the best kulliyyah contributing to IREP in terms of number of publications uploaded to IREP. We managed to have an average of 4 to 5 articles per academic staff per year.
- 3. Increased the number of principal investigators by securing more research grants, which lead to increasing the amount of RM secured by the kulliyyah.
- 4. Increased the number of intellectual properties secured by the kulliyyah like copyrights.
- 5. Publishing many research books by converting PhD thesis to research books.
- 6. Having many research projects by going out of the university to help the society in different aspects of the life like cybersecurity, health, and knowledge sharing.

This are a quick look at the KICT research and innovation achievements and I'm very sure that the future will be brighter and we will have more and more achievements so that we can achieve our main goal to be "*Rahmatan lilalamin*" (Mercy to all mankind).





Prof. Dr. Asadullah Shah Department of Information Systems KICT, IIUM

After spending over 10 years at Kulliyyah of Information and Communication Technology (KICT), International Islamic University Malaysia (IIUM), I feel very privileged to be writing this message as a Professor in the Department of Information Systems of KICT. This is a special time for KICT in history as we are celebrating our 20th anniversary, soon by the end of this year 2021. The journey of KICT began in 2001 and have spent the past 2 decade continuing to build reputation as world class teaching and research faculty in the domain of ICT. KICT is one of the highly vibrant and dynamic faculty of IIUM that has left its footprint at almost in 100 plus countries of the world, and to all 6 continents in the world in which our graduates are contributing knowledge and expertise.

The approach for graduate development is very much rooted on holistic students' development. In this social, ethical, religious and knowledge, professionalism with wisdom is groomed right from the beginning they join KICT until they graduate. For a faculty (KICT) just of 20 years age, has left impact globally and it is a true achievement for KICT and IIUM. Teaching and research expertise at KICT covers all major fields of computing including cloud computing, software engineering, artificial intelligence, multimedia, big data analytics, machine learning, neural networks, crypto currency, network security, library and information science, E-commerce, and subjects like E-learning to name a few, and so on. Highly qualified fresh and experienced faculty working at KICT are mixed local experts and international from many countries of the world.

We have postgraduate and undergraduate programs in IT, CS and Library and Information Science fields.Postgraduates studying at KICT are international and local with equal ratio and in total around 300 of them are currently registered at PG (MS/PhD) degree programs alone in all three departments of KICT. We try our best to train graduates with high class knowledge and skills so that they are consumed in the world markets within no time after graduations. We welcome all such aspirants who like to seek latest knowledge and skills to come and join KICT and be the part of global community soon after the graduations. We assure you that your time efforts and money spent will be worth to spent once you are graduated from KICT-IIUM.

Finally, I would say to all our alumni and current PG to extend knowledge and expertise for the benefit of mankind and for the Ummah. You are our true ambassador around the world your existence is our existence. Keep it up and be true contributors to this world and the global community irrespective of cast, creed, race, and religion.

Finally, I would say to KICT graduates, be the part of today's knowledge economy, inspire people with your work, skills, and knowledge, and be the leaders more than followers.

Stay blessed.





Prof. Dr. Roslina Othman Department of Library and Information Science KICT, IIUM

Kecil Tapak Tangan Nyiru Ditadahkan

This November 2021 marks the 20th Anniversary of the Kulliyyah of Information and Communication Technology, International Islamic University Malaysia. Probably, among the first-year students for the Kulliyyah's undergraduate programs were born in the birth year of the Kulliyyah. Not to miss, the academic staff members who were alumni of the Kulliyyah. Not to disregard, the staff members who came to experience efforts on an Islamization of ICT and to work under an Islamic administration of a technology based Kulliyyah. The sense of belonging has grown stronger and would grow much stronger in greeting the coming 25th anniversary in year 2026.

Going down the memory lane, it was nine years after her establishment in 1992, the Department of Library and Information Science (DLIS) joined to establish the Kulliyyah in 2001.DLIS has since then progressed into strengthening her applications of IT in the field of library and information science. Under the new Kulliyyah, DLIS took the opportunity to significantly contribute her rich experiences in the offering of postgraduate programs, applications-based courses, and service industry-based academic syllabus. The strong support from the Kulliyyah during the ups and downs never failed the Department.

Information Retrieval was brought in as a course for the Kulliyyah. Fifteen years passed by under the Kulliyyah, Information Retrieval successfully set the foundation for the establishment of the Semantic Body of Knowledge and Technology Research Unit (Semantic RU) as one of the Research Units for the University. Before its formal establishment, the Semantic RU was the backbone for the Kulliyyah's 26 edited book chapters published under the University project. The Semantic RU comprises fifteen high profile researchers and eight influential experts in areas related to semantic and knowledge technology integrated with an Islamic perspective. Members have experiences serving regional and international institutions, providing expertise to national agencies, and collaborating with industries. Senior members enthusiastically guided young researchers. With gratitude, the Semantic RU has recorded their thirty students graduated.

Alhamdulillah, the Semantic RU has secured research grants and consultancies amounting to a total of RM1 million from the University, Ministries, and Industry. To enhance the Kulliyyah's achievement, the Semantic RU has brought back bronze, silver, and gold medals from exhibitions, competitions, and conferences held at the Kulliyyah, University, National, and International levels. To build stronger citation chains for the Kulliyyah, the Semantic RU has contributed conference papers, publications, and books to the Kulliyyah and the University. To broaden the recognition of expertise at the Kulliyyah, the Semantic RU has offered internships, training workshops, research seminars, and professional services. The seven most significant research projects were: WiSeManTiQ[®] Search Engine, Malik Bennabi's Novelty Ruler, Maqam-based search system (SUFIS), 26-Languages Parallel Corpus, Misinformation, Ibnu Khaldun's Ontology, and Imbalanced Clusters for Quranic Texts. These efforts have built the path for members at the Kulliyyah to be professionally stay connected to one another and together serve the Ummah under Rahmatan lil 'Alamin.

Kecil Tapak Tangan Nyiru Ditadahkan Professor Dr. Roslina OTHMAN Head, Semantic Body of Knowledge and Technology Research Unit Kulliyyah of ICT/IIUM



In this article, I will discuss some research and publications tasks from Islamic perspective, since this topic (research and publications) is part of our academic life, we always need to do different research activities, apply for research grants and supervise research works (including of supervising postgraduate research), the research works include many process such as searching for information, collecting of data, survey and review works, conducting a questionnaire and interview sessions, data analysis and statistical studies... etc.

Before we do any research, we should remember to have a good intention, the good intention is part of sincerity, the researchers should always ask themselves; why do we want to do this research? What is the benefit of this research? How can this research help the Ummah?

The Prophet, peace be upon him, says: "The deeds are considered based on the intentions, and a person will get the reward according to his intention" (Al-Bukhari).

A Muslim researchers should intend to do their research to fill a loophole in the society (Research Gap) or provide something that the society needs. The Prophet, peace be upon him, says: "You are protecting a loophole of Islam, so do not allow anyone to come from loophole that you are safeguarding".

(أنتَ على ثَغْرَةٍ من ثُغَرِ الإسلامِ، فَلا يُؤْتَيَنَّ مِن قِبَلِكَ. (الألباني: السلسلة الضعيفة

In addition, researchers must intend to learn and acquire experiences that qualify them to obtain a professional career. Allah Almighty says to his Messenger: "And say: 'O my Lord! advance me in knowledge"' (Taha: 114). (وَقُل رَّبِّ زِدْنِي عِلْمًا (طە: 114

Another important task of researchers is to cooperate with the research team; cooperation increases productivity and shared knowledge among the team members. Allah Almighty says: "Help you one another in righteousness and piety, but help you not one another in sin and rancor. Fear Allah for Allah is strict in punishment" (Al-Ma'idah: 2). (وَتَعَاوَنُواْ عَلَى الْبِرِّ وَالتَّقْوَى وَلاَ تَعَاوَنُواْ عَلَى الإِثْمِ وَالْعُدْوَان وَاتَّقُواْ اللَّهَ إِنَّ اللَّهَ شَدِيدُ الْعِقَابِ (المائدة: 2

Congratulations!

for securing Sponsored Research Grant from International Institute of Islamic Thought

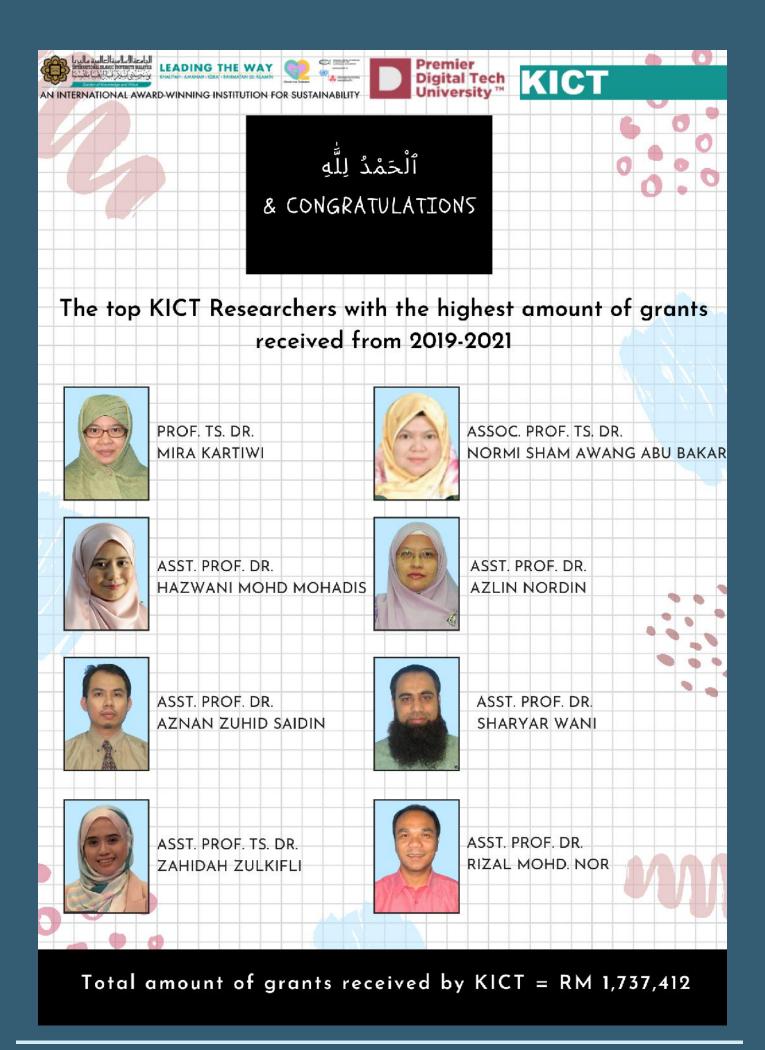


Congratulations!



November 2021





October Kulliyyah Seminar/Talk



Organized by : Grant initiatives unit

KICT Postgraduate

Kulliyyah Briefing Semester 1, 2021/2022



Title : Interview Protocol for Hybrid Agile and Security Measures taken by Software Engineering Process Team Author : Norzariyah Binti Yahya

Title : In-vehicle network traffic sample dataset Author : Hafizah binti Mansor

PUBLICATION in October 2021

- 1. Hashim, Roosfa (2021) *Perjalanan politik Abang Johari.* In: Abang Johari Sarawak 2030. Penerbit Wafira, Kuching, Kuching, Sarawak, pp. 1-20. ISBN 978-967-25789-0-1.
- 2. Conde, Naby Nouhou and Abubakar, Adamu and Idris, Norbik Bashah and Mohd Mohadis, Hazwani (2021) Cryptocurrency adoption in e-payment: barrier of its implementation. Journal of Theoretical and Applied Information Technology, 99 (9). pp. 4461-4481. ISSN 1992-8645 E-ISSN 1817-3195.
- 3. Conde, Naby Nouhou and Ibrahim, Adamu Abubakar and Idris, Norbik Bashah and Mohd Mohadis, Hazwani (2021) Bitcoin Adoption in Banking and Finance: The Critical Factors of its Implementation. In: International Conference on Innovative Research in Engineering and Technology (ICIRET-2021), Virtual.
- 4. Ahmad Dahlan, Abdul Rahman and Ibrahim, Jamaludin and Ahmad H.Osman, Rahmah and Mhd. Sarif, Suhaimi and Jaapar, Ghazali and Man, Saupi and Abdul Razak, Dzuljastri and Mohd Ali, Noor Azian and Mohamadali, Noor Azizah and Mahri, Nurhafizah and Abdul Aziz, Normaziah and Ismail, Amelia Ritahani and Abdul Kadir, Andi Fitriah and Mansor, Hafizah and Mohd Nor, Rizal (2021) Freemium multi-sided platform business model: mosque kitchen as a source of free food, employment and empowerment of B40s food-preneurs. Journal of Information Systems and Digital Technologies, 3 (2). pp. 1-10. E-ISSN 2682-8790

KICT Postgraduate Appreciation Day 2021

Congratulations to KICT postgraduate students who have successfully completed their study Semester 1 and 2 20/21. The virtual appreciation event was organised on a beautiful Friday afternoon, 29th October 2021 by the Office of Deputy Dean, Postgraduate and Responsible Research. Dean of KICT, Prof. Dr. Abdul Rahman Ahlan has delivered an inspiring speech to the graduates and audiences.

Pandemic Covid-19 has made IIUM convocation not possible. This event is not the replacement, but it is an appreciative gesture to recognise our graduates who have spent from one to five years or more at KICT and particularly working closely with Office of Deputy Dean Postgraduate and Responsible Research. The graduates have completed their degrees in:

- •Master in Business Intelligence and Analytics (MBIA)
- ·Master of Protective Security Management (MPSM)
- ·Master of Information Technology (MIT)
- ·Master of Computer Science (MCS)
- ·Master of Library and Information Science (MLIS)
- ·Doctor of Philosophy (Computer Science) (P_CS)
- ·Doctor of Philosophy (Information Technology) (P_ICT)
- ·Doctor of Philosophy (Library and Information Science) (P_LIB)

In the appreciation event, each graduate name was proudly called and mentioned, while the photo was showed on the screen; our postgraduate students deserve a celebration as they have been working tirelessly with lecturers and supervisors to achieve and complete their journey for acquiring the degrees. That could be hard sometimes. With up and down, high, and low, it is hoped the overall experiences turns to be some sweet memories.

This celebration is a mark for connection and engagement with new alumni before going to explore their own direction and endeavours. Additionally, this is an opportunity for the graduates and KICT to be in touch and communicate for sharing experience, giving feedback and ideas on how the Office and Kulliyyah could improve and make our services better in future.

In the memorable event, about fifty (50) guests have gathered including graduates, students, supervisors, Deputy Deans, Head of Departments, Coordinators, academic and administrative members. Office of DDPGR would like to record a sincere appreciation and grateful for the hard work, commitment and support from the Dean, Sr. Syamimi, Sr. Nurul, Dr. Hafizah, Sr. Laili and Br Hafizee.

All the best to graduates of KICT postgraduates programmes. Let us be connected, engaged, and inspired to better serve the community.

Assoc. Prof. Dr. Murni Mahmud Deputy Dean, Postgraduate and Responsible Research

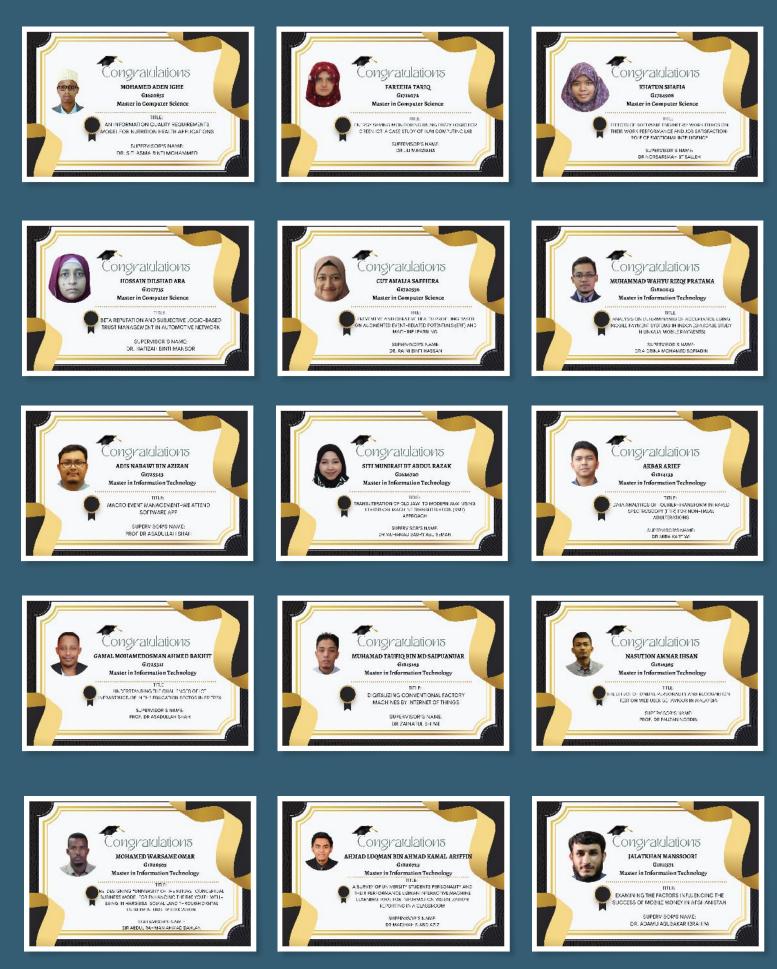
KICT Postgraduate Appreciation Day 2021





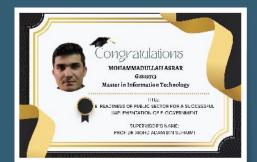


MASTER





























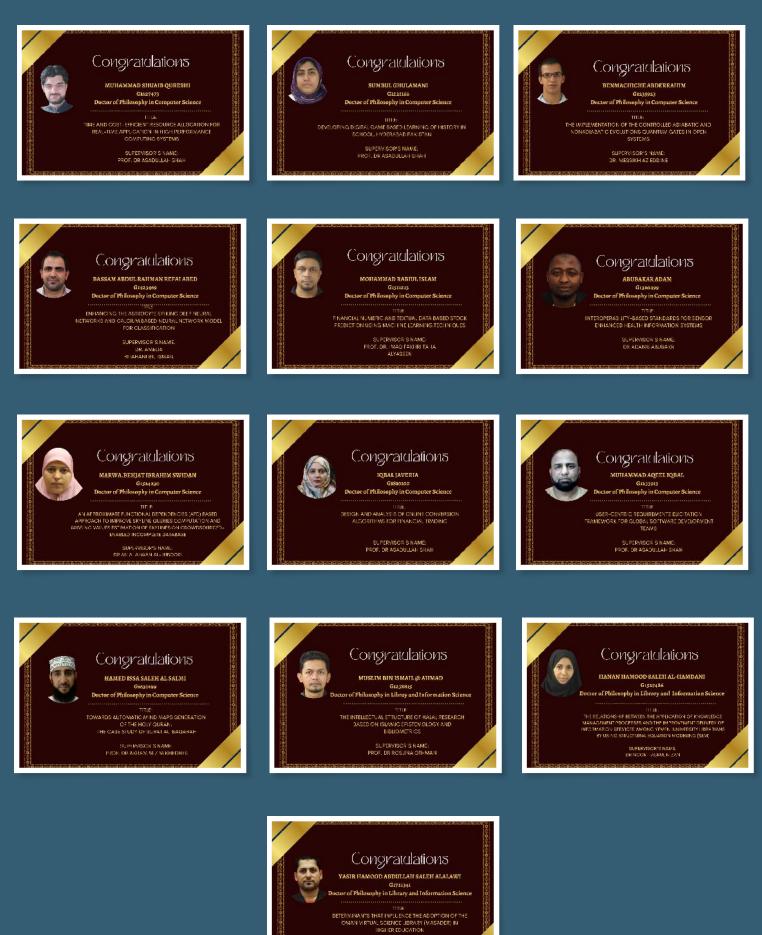






November 2021

DOCTOR OF PHILOSOPHY



SUPERVISOR 'S NAME: DR NOOR HASRUL NIZAN

