NAME	YUSLINA ZAKARIA
ACADEMIC POSITION	SENIOR LECTURER
STATUS OF APPOINTMENT	PERMANENT
CITIZENSHIP	MALAYSIAN
EDUCATION	PhD (Bioinformatics), UNSW, Sydney Australia MSc Comp Sc. (Bioinformatics), UTM Malaysia BSc (Hons) Computer (Software Engineering), UTM Malaysia
WORKING EXPERIENCE	• Research Fellow, Accounting Research Institute (ARI) HiCOE, Universiti Teknologi MARA, Shah Alam. 15 Mac 2022 – present • Senior Lecturer (DM52) Faculty of Pharmacy, Universiti Teknologi MARA, Puncak Alam, 1 Nov 2006 - present • Lecturer, School of Health Sciences, KUTPM (currently MSU), 2006
RESEARCH INTERESTS/ PROJECTS	• Bioinformatics & Network Pharmacology • Big Data Analytics, Text Mining & Machine Learning • FinTech
CURRENT ACADEMIC RESPONSIBILITIES	• PHC410 – Pharmaceutical Biostatistics • PHC610 – Research Methodology • PHC650 – Drugs in Sports • PHC661 – Traditional Medicine
CURRENT ADMINISTRATIVE RESPONSIBILITIES	• Internal Auditor (Faculty of Pharmacy) • iQMS Auditor/ External Reviewer (UiTM) • Associate Editor for the Journal of Management and Accounting Review (MAR) • Programme Development Committee for MSc of Molecular Informatics • Academic Planning Committee. Franchise Programme with Qaiwan International University (QIU) Iraq.

APPOINTMENT OF EXPERT / CONSULTANT / REVIEWER	• International Consultant In E-RAT (Electronic Resilience Assessment Tool) of Provincial and Municipal Governments In Indonesia • Big Data Consultant for National TB Research – Tuberculosis Infection: From Exposure To Disease (UiTM-IKU-KKM) • Expert Reviewer: A Conceptual Framework For Gamifying Mobile Health Application (GMHealth Framework)
CONSULTATION / COLLABORATIVE PROJECTS	***INTERNATIONAL*** • E-RAT – Resilience Assessment Tool of Provincial and Municipal Governments in Indonesia Year: 2022 - present Role: Lead Developer & International Consultant Collaborators: Accounting Research Institute (ARI) & the Government of Indonesia • Mitigating Fraud Risks in Medical Crowdfunding: An Integrated Sentiment Analysis and Machine Learning Approach (MoA) Year: 2023 – present Role: Lead Researcher Collaborators: Accounting Research Institute (ARI) & Daffodil International University, Bangladesh ***NATIONAL*** • National TB Research – Tuberculosis Infection: From Exposure To Disease (2013-2018) Year: 2019 - present Role: Big Data Consultant Collaborators: Big Data Taskforce UiTM, Institut Kesihatan Umum (IKU), and TB Sector Kementerian Kesihatan Malaysia (KKM) • Advancing Pharmacy Management through Inventory Management and Control Model Using Prescriptive Analytics Year: 2022 – present Role: Consultant Collaborators: Bahagian Amalan dan Perkembangan Farmasi, KKM with Accounting Research Institute (ARI) & Faculty of Pharmacy

ACADEMIC/ RESEARCH SUPERVISION (POSTGRADUATE)	*STATUS: IN PROGRESS* *Field: Bioinformatics, Machine Learning (AI)* 1. Ahmad Tamim Ghafari Program: PH990 – PhD in Pharmacy Title: Modeling of Deep Learning Algorithm for the Prediction of Polypharmacy-Induced Adverse Drug Reactions in Tuberculosis Patients 2. Faiza binti Namat Program: PH970 - PhD in Clinical Pharmacy Title: Development and Validation Of Cancer Associated Thrombosis Predictive Model Among Newly Diagnosed Hospitalized Patients with Carcinoma 3. Abdul Samadhu Mohamedhu Fahim Program: PH780 – Master of Science (Pharmacy) Title: Associating Genetic Factors with Adverse Drug Reactions Related to Antituberculosis And Antidiabetic Drugs 4. Muhammad Amal bin Zulkipli Program: PH766 – Master of Science (Pharmacology) Title: Morindolide And Its Effects On Redox Signalling Pathways, Inflammatory Signalling Pathways And Its Targeted Extracellular Receptors: Insights From Molecular Docking Studies *Field: Big Data Analytics, Public Health* 5. Dr Siti Aishah binti Abas Program: MD931 – Doctor in Public Health (DrPH) Title: Gamified-Reality-Video-Observed-Therapy Mobile Apps Development and Intervention Study for Improved Tuberculosis Treatment Adherence Among Working Age Population 6. Dr Ahmad Yusri Bin Abd Rani Program: MD931 – Doctor in Public Health (DrPH) Title: Characteristics and Prognostic Factors of TB Treatment Default in Malaysia – A 5-year Retrospective Cohort from 2014 to 2019

	STATUS: GRADUATED 1. Siti Fatimah Mohd Taha Program: PH751 – MSc in Pharmacoinformatics Status: *Graduated (2018)* Title: Modelling the Classification of Twilight Zone Proteins Using Structure-based Phylogenetic Inference 2. Ernie Zuraida Ali Program: PH951 – PhD in Pharmacoinformatics Status: *Graduated (2019)* Title: Structural Characterization and Functional Studies of Human Ornithine Transcarbamylase Enzyme (OTCase) Using Bioinformatics and Molecular Dynamics Simulation 3. Dr S Maria Awaluddin Program: MD780 – MSc in Medicine Status: *Graduated (2020)* Title: Determinants of Treatment Success Among Children with Tuberculosis (TB) Using MyTB Version 2.1 and Their Parents' Perspectives on Successful Outcome 4. Ahmad Tamim Ghafari Program: PH766 – MSc in Pharmacology Status: *Graduated (2021)* Title: Evaluation of the Synergistic Anti-Inflammatory Effects of Aqueous Extract of Vitex Trifolia Leaves with Same Common Non-Steroidal Anti-Inflammatory Drugs, In-Vitro and In-Silico 5. Mohammad Nasir Abdullah Program: CS953 – PhD in Statistics Status: Graduated (2022) Title: Bridging the Gap Between Transcriptomics, Proteomics and Metabolomics in Identifying Differentially Regulated Genes in Alzheimer's Disease. 6. Norhisham Haron Program: PH957 – PhD in Biochemistry Status: Graduated (2022) Title: Nutrient Sensing of Stevioside in the Insulin Resistance Cell Culture Model
PUBLICATIONS	Abdullah, M. N., Wah, Y. B., Majeed, A. B. A., **Zakaria, Y.,** Shaadan, N., Ariff, M. I. M., Wahab, J. A., Ahmad, S., Baharuddin, M. S., & Aziz, W. N. H. W. A. (2023). Comparative Evaluation of Machine Learning Algorithms for Alzheimer's Disease Classification using Synthetic

Transcriptomics Dataset. Trends in Sciences, 20(11), 6881. https://doi.org/10.48048/tis.2023.6881

Annuar, N. A., Shia, J. K. S., Yob, N. J., **Zakaria, Y.,** & Hussin, S. N. (2023). Caffeine Intake and Its Association with Mental Health Status among Pharmacy Students at UiTM Puncak Alam. Malaysian Journal of Medicine & Health Sciences, 19(3).

Abas S, Ismail N, **Zakaria Y**, Ismail I, Mat Zain N, Yasin S, Ibrahim K, Razali A, Mohd Yusoff M, Ahmad N, Chinnayah T. A. (2023) Gamified Real-time Video Observed Therapies (GRVOTS) Mobile App via the Modified Nominal Group Technique: Development and Validation Study. JMIR Serious Games;11:e43047. DOI: 10.2196/43047

Ghafari, A. T., Jahidin, A. H., **Zakaria, Y.,** & Hazizul Hasan, M. (2022). Anti-Inflammatory Effects Of Vitex Trifolia Leaves Hydroalcoholic Extract Against Hydrogen Peroxide (H_2O_2)- And Lipopolysaccharide (Lps)-Induced Raw 264.7 Cells. *Malaysian Applied Biology*, *51*(4), 185–200. https://doi.org/10.55230/mabjournal.v51i4.28.

Hasan, M. H., Jahidin, A. H., & **Zakaria, Y**. Student Perspective on Distance Online Learning Experience During the COVID-19 Pandemic in Undergraduate Pharmacy Program in UiTM: Pharmacology of CNS Drugs. *Journal On E-Learning And Higher Education*, 25.

Abdullah, M. N., Wah, Y. B., Abdul Majeed, A. B., **Zakaria, Y.,** & Shaadan, N. (2022). Identification of blood-based transcriptomics biomarkers for Alzheimer's disease using statistical and machine learning classifier. Informatics in Medicine Unlocked, 33(July), 101083. https://doi.org/10.1016/j.imu.2022.101083

Sharani, Z.Z., Ismail, N., Yasin, S.M., **Zakaria, Y.** et al. Characteristics and determinants of loss to follow-up among tuberculosis (TB) patients who smoke in an industrial state of Malaysia: a registry-based study of the years 2013-2017. BMC Public Health 22, 638 (2022). https://doi.org/10.1186/s12889-022-13020-3

Abdullah, M. N., Wah, Y. B., Majeed, A. B. A., **Zakaria, Y.,** & Shaadan, N. (2022) Identification of Blood-Based Multi-Omics Biomarkers for Alzheimer's Disease Using Firth's Logistic Regression. Pertanika Journal of Science & Technology, 30(2), https://doi.org/10.47836/pjst.30.2.19

Sediqi, N., Jahidin, A. H., Hasan, M. H., & **Zakaria, Y.** (2021). Two-Pore Channels in Cancer Hallmarks: An Update Review. Biomedical and Pharmacology Journal, 14(3), 1481+.

Ghafari, A. T., Jahidin, A. H., **Zakaria, Y.,** & Hasan, M. H. (2021). Phytochemical Screening and High-performance Thin-layer Chromatography Quantification of Vitex trifolia Leaves Hydro-alcoholic Extract: Potential Anti-inflammatory Properties. *Journal of Pharmaceutical Research International*, *33*(28A), 111-121. https://doi.org/10.9734/jpri/2021/v33i28A31515

Awaluddin, S. M., Ismail, N., Yasin, S. M., **Zakaria, Y.,** Mohamed Zainudin, N., Kusnin, F., Mohd Yusoff, M., & Razali, A. (2020). Parents' Experiences and Perspectives Toward Tuberculosis Treatment Success Among Children in Malaysia: A Qualitative Study. Frontiers in Public Health, 8, 577407. https://doi.org/10.3389/fpubh.2020.577407

Awaluddin, S.M., Ismail, N., **Zakaria, Y.** et al. Characteristics of paediatric patients with tuberculosis and associated determinants of treatment success in Malaysia using the MyTB version 2.1 database over five years. BMC Public Health 20, 1903 (2020). https://doi.org/10.1186/s12889-020-10005-y

S. M. Awaluddin, N. Ismail, S. M. Yasin, **Y. Zakaria** et al., "Exploring Challenges Faced by Parents of Children with Tuberculosis in Klang and Petaling Districts of Selangor State, Malaysia: A Qualitative Study," J. Clin. Heal. Sci., vol. 5, no. 2, pp. 46–56, 2020. https://doi.org/10.24191/jchs.v5i2.10114

Mohammad Nasir Abdullah, Yap Bee Wah, **Yuslina Zakaria**, Abu Bakar Abdul Majeed, Ong Seng Huat (2019). Discovering potential blood-based cytokine biomarkers for Alzheimer's disease using Firth Logistic Regression. Italian Journal of Public Health, Vol 16 (4). https://doi.org/10.2427/13173.

Ernie Zuraida Ali, **Yuslina Zakaria**, Mohd Amran Mohd Radzi, Lock Hock Ngu, and Siti Azma Jusoh. Mutation Study of Malaysian Patients with Ornithine Transcarbamylase Deficiency: Clinical, Molecular, and Bioinformatics Analyses of Two Novel Missense Mutations of the OTC Gene. BioMed Research International, vol. 2018, Article ID 4320831, 15 pages, 2018. https://doi.org/10.1155/2018/4320831.

Siti Fatimah Mohd Taha & **Yuslina Zakaria**. Classification of twilight zone proteins using a structure-based phylogenetic approach. Paper presented at the ISCAIE 2018 - 2018 IEEE Symposium on Computer Applications and Industrial Electronics, 13-18. doi:10.1109/ISCAIE.2018.8405437

Siti Nooraishah Binti Hussin, **Yuslina Binti Zakaria**, Noor Jannah Binti Yob, Mohamed Razeef Bin Abdul Razak, Lili Eliana Binti Mohd Radzuan, Azahar Bin Harun. Pharmacy education: Pictograms apps as a public tool for understanding medicine leaflet information. 1st

International Conference on Pharmacy Practice 2018. 26 – 27 June 2018. Concorde Hotel, Shah Alam, Malaysia.

Nurul Asyikin Muhammed, Ernie Zuraida Ali, Mizaton Hazizul Hasan, **Yuslina Zakaria**. In Silico Molecular Docking Studies of Beta-sitosterol against Cyclooxygnase Enzymes. 5th International Conference on Pharmaceuticals, Nutraceuticals and Cosmetic Science (IPNaCS2017). 3 – 4 Ogos 2017. The Tawana Hotel, Bangkok, Thailand

Ahmad, M. K. Nordin, M. F. Saaid, J. Johari, R. A. Kassim and **Y. Zakaria**, "Remote control temperature chamber for virtual laboratory," 2017 IEEE 9th International Conference on Engineering Education (ICEED), Kanazawa, 2017, pp.206-211.

Mohammad Nasir Bin Abdullah, Yap Bee Wah, **Yuslina Binti Zakaria**, Abu Bakar Bin Abdul Majeed (2016). Metabolites selection and classification of metabolomics data on Alzheimer's disease using random forest. Soft Computing in Data Science (SCDS 2016). 21 – 22 September 2016, Hotel Pullman, Bangsar, Kuala Lumpur.

Ernie Zuraida Ali, **Yuslina Zakaria**, Mohd Amran Mohd Radzi and Siti Azma Jusoh (2015). Predicting Effect of Missense Mutations at Active Site in Ornithine Transcarbamylase (OTC) Gene: In-Silico Webservers and Molecular Docking Analysis, Asian Congress on Biotechnology 2015 (ACB2015). 15 – 19 November 2015. Kuala Lumpur, Malaysia.

Mohammad Nasir Abdullah, Yap Bee Wah, Abu Bakar Abdul Majeed, **Yuslina Zakaria** (2015). Gene Selection and Classification of Metabolomics Data on Alzheimer's Disease Using Random Forest, i-Sihat Post Conference Symposium. 13 August 2015. Kuala Lumpur, Malaysia.

Yuslina Zakaria, Merridee Wouters, W. Bret Church, Bruno A. Gaeta (2011). Inference of Phylogenetic Trees from Protein Structural Information, InCoB/ICSB-Asia Joint Conference. 30 Nov-2 Dec 2011. Kuala Lumpur, Malaysia.

Yuslina Zakaria, Merridee Wouters, W. Bret Church, Bruno A. Gaeta (2011). Inference of Phylogenetic Trees from Protein Structural Information, LES HDR Conference. Nov 11. Lorne, Melbourne, Australia.

RESEARCH GRANTS	Assessing the Characteristics of Fraudulent Crowdfunding to Mitigate Risks In Clinical Trials. ARI HiCOE (National). 1 April 2023 – 31 December 2024. Ongoing.
	Examining the Role of Technology in Investment Scams: An Analysis of Digital Platforms Used in Cyber Crimes. ARI HiCOE (National). 1 April 2023 – 31 December 2024. Ongoing.
	Assessing the Roles of Islamic Finance and Financial Technology Revolution In Fostering Income Equality (SDG 10) With Different Institutional Quality In The Emerging Economies. ARI HiCOE (National). 1 April 2023 – 31 December 2024. Ongoing.
	Modelling of Adverse Drug Reactions Related to Polypharmacy in Tuberculosis Using Predictive Deep Learning Algorithm. FRGS. 7 September 2021 – 6 August 2024. Ongoing.
	Deciphering Modulation of Anti-Inflammatory and Antioxidative Morindolide on The Crosstalk Between MEK1/JNK/NF-KB/INOS and NRF2/HO-1 Pathways. FRGS. 7 September 2021 – 6 August 2024. Ongoing.
	Elucidation of the Neuroimmune and Neuroendocrine Regulation Of Fisetin Against Alzheimer's Disease Through Hypothalamic-Pituitary-Adrenal Axis and NRF2 Linked Bidirectional Pathways. FRGS. 7 September 2021 – 6 August 2024. Ongoing.
	Digital Transformation Strategic Roadmap For The State Religious Councils. Private. 1 May 2022 – 31 October 2023. Ongoing.
	Predictive Modeling of Oral Squamous Cell Carcinoma Histopathological Prognosis Using Deep Convolutional Neural Network. KEPU 2023. 1 Jan 2023 – 31 Dec 2024. Ongoing.
	Unravelling The Synergism Between Casticin With Non-Steroidal Anti-Inflammatory Drugs (NSAIDS) On Nf-Kb Signaling Pathway. DUCS. 1 July 2022 – 30 June 2024. Ongoing.
	Kajian Analisa Prestasi Kewangan Dan Tadbir Urus Syarikat Induk Dan Anak Syarikat UiTM. Bestari. 1 May 2022 – 30 September 2022. Ongoing.
	Implementation And Economic Evaluation Of Gamified Mobile Apps Tool For Improved Treatment Adherence Among Working-Aged Tuberculosis Patients In Malaysia. International Grant (WHO GRANT). 1 June 2019 – 31 December 2020. Ongoing.

	Machine Learning Algorithms For High Dimensional Biomarker Data Classification. Bestari. 1 July 2018 – 30 June 2020. Completed. High Cell Density Cultivation Of Lactobacillus Plantarum In A Fed-Batch System. Lestari. 1 July 2016 – 30 June 2018. Completed. Modelling The Evolutionary Mechanism Of Alzheimer's Disease Proteins Through Integrating Sequence And Structure-Based Phylogenetic Methods. FRGS. 1 Nov 2015 – 31 October 2017. Completed. Elucidation of Anticancer Mechanisms of Clinacanthus nutans in Breast Cancer. RAGS. 1 Dec 2014 – 30 November 2016. Completed. Genome-wide Genetic Marker Discovery and Genotyping of Malaysian Mahseer (Tor spp). Malaysian Flagship-Empurau Grant (KPT) using Next Generation Sequencing. 2012-2015. Completed.
AWARDS	• Anugerah Perkhidmatan Cemerlang (2015). UiTM • Anugerah Perkhidmatan Cemerlang (2019), Faculty of Pharmacy. • Certified Data Science Specialist from iTrain Asia. 20 – 24 November 2017.
INTELLECTUAL PROPERTIES/ COPYRIGHT/ PATENT	1. Title: e-RAT: Electronic Resilience Assessment Tool MyIPO Registration No: CRLY2022W06554 Year: 2022 2. Title: Gamified Reality Video Observed Therapy (GRVOTS) mobile application MyIPO Registration No: CRLY2022W06542 Year: 2022 3. Title: CEDM Detector (CEDMD) MyIPO Registration No: CRLY2022W06104 Year: 2022 4. Title: Vinsaid: A Step Closer Towards Safer Anti-Inflammatories MyIPO Registration No: CRLY2021W05745 Year: 2021 5. Title: Vitex Pain Away Chewable Table MyIPO Registration No: CRLY00026581 Year: 2020

INNOVATION	*Innovation Awards* MyrmeCare™: Natural and Powerful Anti-Inflammatory Booster • Diamond Award for PharmIIDEX 2023. Inventor Category. • Gold Medal for PharmIIDEX 2023. Inventor Category. Gamified Reality Video Observed Theraphy (GRVOTS) Mobile Apps. • Silver Award for ITEX 2023. • Gold Medal for IIDEX 2022. Invention: Inventor Category. • Diamond Award for IIDEX 2022. Invention: Inventor Category. E-RAT: Electronic Resilience Asssessment Tool. • Silver Medal for IIDEX 2022. Invention: Inventor Category. • Best Invention Award for I-RIE 2022. Cluster Social Science. • Gold Award for I-RIE 2022. Cluster Social Science. CEDMD: Carbon Emission Disclosure Management Detector. • Bronze Medal for IIDEX 2022. Invention: Inventor Category. ViNSAID: A Step Closer Towards Safer Anti-inflammatories. • Gold Medal for IIDEX 2021. Invention: Inventor Category. Vitex Pain Away Chewable Tablet. • Gold Medal for IIDEX 2020. Invention: Inventor Category. VNest: Be Slim, Be Gorgeous. • Gold Medal for IIDEX 2019. Invention: Inventor Category. BridgeIt: Future Collaborations Made Easy (IIDEX2018). • Bronze medal for IIDEX 2018. Invention: Inventor Category. StigmaC©: Chewable table for pain. • Gold Medal for IIDEX 2017. Invention: Inventor Category.
INVOLVEMENT IN PROFESSIONAL ORGANISATIONS	• The Institute of Electrical & Electronics Engineers (IEEE) • International Society for Computational Biology (ICSB)

PARTICIPATION IN CONTINUING EDUCATION	**Invited Speaker and Facilitator:** • Facilitator. Bengkel CG ODL Publication Series. 22 – 23 July 2021. • Invited Speaker. Program Kawalan Tibi dan Kusta. 26 Ogos 2020 • Invited Speaker. Program Pembangunan Bakat Analitik Data Raya. 8 – 9 Ogos 2019. • Invited Speaker. Program Pembangunan Bakat Analitik Data Raya. 15 – 16 Julai 2019. • Invited Speaker. Data Analysis for National TB Contact. Institut Kesihatan Umum (IKU), Kompleks NIH, Setia Alam. 15 Mei 2019. • Invited Speaker. Program Pembangunan Bakat Analitik Data Raya (Data Analysis Using R for UiTM Staff). 24 Mei – 19 Julai 2018 • Invited Speaker. Program Pembangunan Bakat Analitik Data Raya (Data Analysis Using R for UiTM Students). 30 Julai – 14 Ogos 2018 • Facilitator. Stats4U Series 1: Making Sense of Your Data. 12 Mei – 19 Mei 2017. • Invited Speaker. Hands On LaTeX 2. 13 March 2015, Bilik Seminar Al-Haytham, Aras 8, FKE UiTM. • Invited Speaker. Molecular Informatics Tools in Ageing Research. I-Sihat Post Conference Symposium (Ageing in Malaysia: From Molecules to Community).13 August 2015. Institut Latihan Dewan Bandaraya, Kuala Lumpur. • Trainer. Bengkel Skrin JSU Blueprint. 7 October 2015. Faculty of Pharmacy, UiTM Puncak Alam. **Thesis Examiner:** • PhD (Pharmacoinformatics) – Understanding The Progression of Metastatic Breast Cancer (MBC) Through The Data Mining of Clinical, Phenotype and Genotype Data Field: Bioinformatics, Data Mining & Machine Learning • MSc (Pharmacogenomics) – Whole Genome Sequencing of Che Wong and Semai and Phylogeny of Orang Asli in Peninsular Malaysia Field: Bioinformatics & Genomics **Article Reviewer/Technical Program Committee:** • Expert Reviewer: A Conceptual Framework For Gamifying Mobile Health Application (GMHealth Framework) • Discussant. International Conference on Technology, Humanities and Management 2023 (ICTHM 2023) • E-SRR (E-Self Review Report) Evaluation Committee. • Article Reviewer. International Conference on Technology, Humanities and Management 2023 (ICTHM 2023)

- Article Reviewer. 2023 IEEE Symposium on Industrial Electronics & Applications (ISIEA 2023)
- Technical Reviewer. The 2023 International Conference on Artificial Intelligence, Robotics, Signal and Image Processing (AiROSIP)
- Article Reviewer of Asian Journal of Accounting Research 2023
- Article Reviewer of Journal of Nusantara studies (Special Issue-ARI) 2022
- IEEE Symposium on Industrial Electronics & Applications (ISCAIE 2018 - 2023)
- 2021 1st International Conference on Electronic and Electrical Engineering and Intelligent System (ICE3IS 2021)
- 2021 6th IEEE International Conference on Recent Advances and Innovations in Engineering (ICRAIE 2021).
- International Conference on Control System, Computing and Engineering (ICCSCE 2018)
- 7th International Conference On Computational-System Biology and Bioinformatics 2016 (CSBIO 2016)

Other Appointments:

- Programme Chairman. Intellectual Discourse in conjunction with the 12 th International Conference on Financial Criminology (ICFC2022). 4 – 5th July 2022.
- Jury Virtual International e-Content Development (e-ConDev) 2022. 1 Apr – 8 August 2022.
- Jury Virtual International e-Content Development (e-ConDev) 2021. 20 – 27 August 2021.
- Ketua Pembangun dan dan Pembangun Bahan Kursus Massive Open Online Courses (MOOC) – 2017 – present.
- Reviewer – Curriculum Review for Bachelor's in Biomolecule Science (AS244). Faculy of Applied Science, UiTM Shah Alam. 2016.
- Judge – Young Innovate Selangor 2016 (State Level) at UiTM Puncak Alam.