KOHILAH MIUNDY

DS51-SENIOR LECTURER (MIX-REALITY)

CONTACT INFORMATION

NO 28 KEMUNING DAMAI 149F KEMUNING UTAMA 40460 SHAH ALAM

6012-6099230

kohilah.miundy@gmail.com

03 December 1981

Married

Malaysian

ACADEMIC QUALIFICATIONS

Doctor of Philosophy
Major: Visual Informatics
Institute of Visual Informatics
University Kebangsaan Malaysia (2016-2019)
Graduation Date: 02 December 2019
Award: Graduate on Time (GOT)

Master Degree
Major: Technical and Vocational Education
Faculty of Technical Education
University Tun Hussein Onn Malaysia (2006-2008)
Graduation Date: 23 August 2008

Degree
Major: Interactive Media
Faculty of Information Technology & Communications
University Teknikal Kebangsaan Malaysia (2002-2006)
Graduation Date: 06 August 2006

Certificate
Department of Electrical Engineering
Major: Information Technology
Johore Bahru Polytechnic (1999-2001)
Graduation Date: 23 May 2001

WORKING EXPERIENCES

September 2019 – Present
Politeknik Metro Kuala Lumpur
Position: Lecturer
Department of Information Technology and Communication
(Digital Technology) in Game Technology

May 2022 – August 2022
UCSI University
Position: Part Time Lecturer (Human Computer Interaction)
Institute of Computer Science and Digital Innovation

September 2012 – September 2016
Politeknik Sultan Salahuddin Abdul Aziz Shah
Position: Lecturer
Department of Mathematics, Science and Computer

Jun 2008 – August 2012
Politeknik Sultan Idris Shah
Position: Lecturer
Department of Information Technology and Communication (Digital Technology)

RESEARCH INTEREST AND FIELD OF EXPERTISE

Game Development
Augmented Reality
Human Computer Interaction
Instruction Design
Delphi Method
Usability
User Evaluation
3D Modelling and Animation
Mathematics Education
Assessment in Special Education
Smart Sensors and Smart Devices
Mobile Computing/ Development
IR 4.0 Revolution in Education and Special Education

LIST OF SUBJECTS TAUGHT

2D Game Development
Game Project
Principles of Animation
Human Computer Interaction
System Analysis and Design
Programming Fundamentals
Discrete Mathematics
Mathematics Computing
Computer Application
Media Authoring

PROFESSIONAL AFFILIATIONS(MEMBER)

Professional Technology in Information & Computing Technology
Graduate Technologist – Certificate No: GT20060299
Professional Technologist – Certificate No: PT20100326
Registration Expiry – 11 October 2023

Professional Member of Institute of Scholar (InSc)
Certificate No. 20203193

Lifelong Member of Persatuan Pembangunan Masyarakat UYERVOM Malaysia
Membership No: LMP017

AWARDS AND RECOGNITIONS

Anugerah Perkhidmatan Cemerlang (APC) Tahun 2022
Jabatan Pendidikan Politeknik dan Kolej Komuniti
Kementerian Pendidikan Tinggi

Innovation Award 2022
Academy Day 2022, Polytechnic METrO Kuala Lumpur

Young Achiever Award 2020
Institute of Scholar (InSc)

Graduate on Time (GOT)
Universiti Kebangsaan Malaysia

Anugerah Perkhidmatan Cemerlang 2009
Ministry of Higher Education, Malaysia

Reviewer
Journal of Institute of Scholars (InSc)

SKILL CERTIFICATE

Unity Certified Associate Artist
Verification Number: d23088b098704594bfbe08db8562f83e

Unity Certified Associate Game Developer
Verification Number: PW7HDQECC2BQQ79H

Unity Certified User: Artist
Verification Number: 68S4-uTm5

Train The Trainers - Unity Developers 3D
(Learn to Code Making Games)

Train The Trainers - Android App Developer Course
(Program Talent Development in Digital Technology/ Diploma Modular)

Train The Trainers - Arduino Drone Makers
(Bengkel Pembangunan Program Talent Development in Digital Technology)

Train The Trainer - 3D MAX
(Kursus Talent Development in Digital Technology)

IT Essentials
(Cisco Networking Academy)

COURSES ATTENDED

4IR Extended Reality Development for Artist 2023

4IR Extended Reality Production 2023

4IR Extended Reality for Artist 2023

AR and VR Application Development Course 2022

Pembangunan Permainan Digital Fasa 1 (Planning and Analysis) 2021

Game Programming Using UNITY 2021

Game Programming Using UNREAL 2021

UV Texture and Mapping in Autodesk Maya 2021

Talent Development in Digital Technology Workshop: Game Concept Development 2020

3D Animation 2020

Adobe Photoshop Workshop 2014

Photoshop and Illustrator Design Software Courses 2011

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VISUAL-BASED AUGMENTED REALITY (AR) LEARNING APPLICATION IN MATHEMATICS FOR DYSCALCULIA LEARNERS (V-ARA-Dculia)
APPLICATION NO. FM2023W01317

DYSCALCULIA SCREENING INTRUSTMENT (DYScrin) - PHASE I
APPLICATION NO. LY2022W03626

DYSCALCULIA SCREENING INSTRUMENT (DYScrin) - PHASE II
APPLICATION NO. LY2022W03627

TIMMY THE RESCUE
APPLICATION NO. LY2023W01432

INNOVATION

GOLD AWARD: Kohilah Miundy. Visual-Based Augmented Reality (AR) Learning Application in Mathematics for Dyscalculia Learners (V-ARA-Dculia). Innovative International Competition (IIC '22).

3rd PLACE & GOLD AWARD: Ts. Dr. Kohilah Miundy, Afiq Fitri Bin Aziz, Nur Syafiqah Binti Razuan and Nurnabila Binti Mohamed. (2022). Fruit Bowling. Innovative International Competition (IIC '22).

SILVER AWARD: Ts. Dr. Kohilah Miundy, Afiq Fitri Bin Aziz, Nur Syafiqah Binti Razuan and Nurnabila Binti Mohamed. (2021). Fruit Bowling. Pertandingan Produk Inovasi PMKL Kategori Teknologi Permainan Digital (PRO-I 2021).

SILVER AWARD: Ts. Dr. Kohilah Miundy, Ian Hizairie Hakim Bin Soied, Muhammad Hazimie Bin Ibrahim and Shahrul Nazeeman Bin Saifulbahri (2021). Adventure In Kampung Serbaneka. Borneo Innovation Festival 2021 (BIF 2021).

BRONZE AWARD: Ts. Dr. Kohilah Miundy, Ian Hizairie Hakim Bin Soied, Muhammad Hazimie Bin Ibrahim and Shahrul Nazeeman Bin Saifulbahri (2021). Adventure In Kampung Serbaneka. Pertandingan Produk Inovasi PMKL Kategori Teknologi Permainan Digital (PRO-I 2021).

BRONZE AWARD: Kohilah Miundy and Halimah Badioze Zaman (2020). Screening Test For Identification of Learner with Dyscalculia. International, Invention, Innovation and Design Competition 2020 (3iDC).

ACADEMIC PUBLICATIONS

H-index (SCOPUS) - 3
H-Index (Google Scholar) - 3

Chapter in A Book of Project Guideline for Diploma in Information Technology (Digital Technology) for Games Technology Track Politeknik Malaysia 2022 Edition.

Kohilah Miundy, Sathya Manoharan and Nithiyaa Muniandy. (2020). Preliminary Identification of Learners with Dyscalculia in Malaysian Mainstream Primary School as Initial Analysis for Early Intervention. International Journal of Advanced Science and Technology. Volume 29 No.7 pages 1831-1870 (Scopus).

Kohilah Miundy, Halimah Badioze Zaman, Aliimran Nordin and Kher Hui Ng. (2019). Screening Test on Dyscalculia Learners to Develop a Suitable Augmented Reality (AR) Assistive Learning Application. Malaysian Journal of Computer Science. pages 92-107. (Web of Science).

Kohilah Miundy, Halimah Badioze Zaman, Aliimran Nordin and Kher Hui Ng. (2019). Early Intervention through Identification of Learners with Dyscalculia in a National Elementary School as Initial Analysis to to System Requirement Specifications (SRS) for Digital Inclusion in Society 5.0. Advances in Visual Informatics. SpringerLink. Book Chapter in Computer Science, Volume 11870 LNCS, 2019, pages 110-122. (Scopus).

Kohilah Miundy, Halimah Badioze Zaman, Aliimran Nordin and Kher Hui Ng. (2019). Evaluation of Visual Based Augmented Reality (AR) Learning Application (V-ARA-Dculia) for Dyscalculia Learners. International Journal on Informatics Visualization. (Scopus).

Kohilah Miundy, Halimah Badioze Zaman, Aliimran Nordin and Kher Hui Ng. (2017). Review on Data Driven Preliminary Study Pertaining to Assistive Digital Learning Technologies to Support Dyscalculia Learners. Advances in Visual Informatics SpringerLink. Book Chapter in Computer Science, Volume 10645 LNCS, 2017, pages 233-246 (Scopus).

ACADEMIC PUBLICATIONS

Nithiyaa Muniandy, Sathya Manoharan and **Kohilah Miundy**. (2020). A Review on Development of 3D Adventurous Serious Game : The Seasonal Run. International Journal of Advanced Science and Technology. Volume 29. No 7. Pages 1821–1830. (Scopus).

Sathya Manoharan, Nithyaa Muniandy and **Kohilah Miundy** (2020). Serious Game Design Based on Tourist Experience to Promote Heritage Tourism. International Jornal of Advance Science and Technology. Volume 29 No 7. Pages 1814–1820 (Scopus).

GRANTS

Researcher member collaborate with industry Matching Grant
Project Title: Development of Parrot Pos Application As a tool to Connect Donor and Donee
Code : M023
Duration : 01 November 2020 – 30 April 2022
Amount : RM 80 000

Researcher member collaborate with MTUN Grant
Project Title: Development of Parrot Pos Mobile Application As a Tool to Connect Donor and Donee
Code : K340
Duration : 01 November 2020 – 30 April 2022
Amount : RM 80 000

FINAL YEAR PROJECT SUPERVISIONS

YEAR 2022 (Game Technology)
Title: Timmy to the Rescue

YEAR 2021 (Game Technology)
Title: Flag's Pool
Title: Fruit Bowling
Title: The Adventure in Kampung Serbaneka

YEAR 2020 (Game Technology)
Title: Dino Puzzle
Title: Aizat Tragedy Gaming

YEAR 2011 (Media Technology)
Title: CD Song for baby (4-5 years)
Title: CD Interaktif Matematik
Title: CD Interaktif Evolution of Computer
Title: Safety Driving Commercial

YEAR 2010 (Media Technology)
Title: Iklan Animasi 3D Bahaya Merokok
Title: Video Iklan CNB Starway Enterprise
Title: E-learning on Desktop Publishing

REVIEWER/ SPEAKER/ PANEL/ EXPERT

Reviewer for 1st ASEDAS International Conference on Science, Technology, Engineering, Art and Mathematics 2023.

Reviewer for International TVET Academic and Research Symposium (ITARS2.0) 2023.

Parallel Session Coordinator for International TVET Academic and Research Symposium (ITARS2.0) 2023.

Jury Panel for National Innovation and Creativity Competition @PMJB 2023 (PNiCC'23).

Jury Panel for International Virtual Expo of Innovation Product and System Design 2023 (INVIDE 2023).

Reviewer for National Research and Innovation Conference (NRICon 2022). Title: Mengenalpasti Nilai Ambang bagi Pengesanan Botnet HTTP.

Reviewer for National Research and Innovation Conference (NRICon 2022). Title: Perception Towards Electronic Exam Question Bank Record Keeping System.

Reviewer for National Technology Research in Engineering, Design and Social Science Conference 2022 (NTRENDS 2022). Title: Keberkesanan Modul 'Engineering Mathematics 2 Workbook for Polytechnic Students' dalam pembelajaran kursus Engineering Mathematics 2 (DBM20023) Terhadap Pelajar di Politeknik Sultan Mizan Zainal Abidin, PSMZA.

Reviewer for National Technology Research in Engineering, Design and Social Science Conference 2022 (NTRENDS 2022). Title: A Study of Cyberbullying Among College Students in Malaysia.

REVIEWER/ SPEAKER/ PANEL/ EXPERT

Reviewer for National Technology Research in Engineering, Design and Social Science Conference 2022 (NTRENDS 2022). Title: Tahap Keberkesanan Bengkel Kemahiran Menggunakan Rumus Bagi Menjawab Peperiksaan Akhir DBM10013 Di PSMZA.

Reviewer for 3rd International Recent Trends in Technology, Engineering and Computing Conference 2022 (IRTTEC 2022). Title: Econometric Forecasts of The Impact of High and Medium-Tech Industries on Economic Growth in Uzbekistan.

Reviewer for International Conference on Research and Innovation in Sustainable Cities (ICRISC 2022). Title: Intelligent Railway Safety Detection Device at Railway Platform.

Reviewer for International Conference on Research and Innovation in Sustainable Cities (ICRISC 2022). Title: Routine Practices of Maintenance Building a Technical Workshop as Preserving Building Facilities.

Reviewer for International Conference on Research and Innovation in Sustainable Cities (ICRISC 2022). Title: Public Health and Safety on Close Contact Proximity Detection and Alert via IoT.

Reviewer for 4th International Conference on Applied Science, Engineering, Information and Technology (ICo-ASCNITech). Title: Readiness, Suitability and Acceptance of TBEm4U Aplication for Basic Takaful Basic Examination (TBE) At Polytechnic Malaysia.

Reviewer for 4th International Conference on Applied Science, Engineering, Information and Technology (ICo-ASCNITech). Title: An e-Govqual Model to Analyze the e-Government Web Portal Service.

Reviewer for 4th International Conference on Applied Science, Engineering, Information and Technology (ICo-ASCNITech). Title: An Experimental Study on Teaching And Learning Universal Design Through Virtual Reality 360-Degree Video.

REVIEWER/ SPEAKER/ PANEL/ EXPERT

Reviewer for National Seminar Pembelajaran Sepanjang Hayat (SPSH 2022). Title: Pembudayaan dan Pelaksanaan Revolusi Perindustrian Keempat (4IR) dalam Pembelajaran Sepanjang Hayat di Politeknik.

Reviewer for National Seminar Pembelajaran Sepanjang Hayat (SPSH 2022). Title: Analisis Pasaran Program Pengajian Sijil Teknologi Elektrik di Kolej Komuniti Bukit Beruang, Melaka.

Reviewer for International TVET Academic And Research Symposium (ITARS2022). Title: Setting Out Computation App Development.

Reviewer for 6th Technology and Innovation International Conference (TECHON) 2021. Title: Requirement Model to Optimize Features Selection for Web e-Learning in LMS Based.

Reviewer for 6th Technology and Innovation International Conference (TECHON) 2021. Title: Virtual Reality for Teaching and Learning Industrialised Building System (IBS) among TVET student.

Reviewer for 6th Technology and Innovation International Conference (TECHON) 2021. Title: Birkhoffs Aesthetic Measure and Common Aesthetic Values in Digital Design.

Reviewer for The 5th International Conference on Computing, Mathematics and Statistics 2021 (ICMS2021). Title: Assessing the Relationship of Students' Learning Styles and Critical Thinking in Mathematics in a 'Cluster School'.

Reviewer for The 1st International Conference on Business Innovation, Entrepreneurship and Technology & The 1st International Conference on Computing, Engineering and Applied. Title: Data Authentication Mechanism using Blockchain's Proof-of-Trust Mechanism in Named Data Networking.

Reviewer for Penilaian Kertas Penyelidikan eJurnal Politeknik dan Kolej Komuniti Pusat Penyelidikan dan Inovasi (PPI, Jabatan Pendidikan Politeknik dan Kolej Komuniti (2021).

REVIEWER/ SPEAKER/ PANEL/ EXPERT

Reviewer for Politeknik and Kolej Komuniti Journal of Life Long Learning

Panel for Borneo National Conference 2021 (BorNCe'21).

Panel for Program DBFIEST 2021.Fakulti Teknologi Maklumat dan Komunikasi, UTeM

Appointed as an **Expert** in Reviewing The Validity of The Content of The Questionnaire Instrument/ Module (ME-CoT).

Appointed as **Expert** Focused Group in Design and Development of Dyscalculia Instrument for Dyscalculia pupils

Speaker for Research Workshop 2020
Research and Innovation Unit, Politeknik METrO Kuala Lumpur

OTHER EXPERIENCES

2023

1. Document Officer, Politeknik Metro Kuala Lumpur.
2. Committee Member of Research and Innovation Unit, Politeknik Metro Kuala Lumpur.
3. Committee Member of Corporate, Industrial Services & Employability Centre (CISEC), Politeknik Metro Kuala Lumpur.
4. Committee Member of the Invitation, Registration and Graduate Committee of Politeknik Metro Kuala Lumpur Convocation.
5. Committee Member of Invitation and Welcoming for Industrial Advisory Council Meeting, Politeknik Metro Kuala Lumpur.
6. Committee Member of Safety & Welfare Game Geek 2023, Polite knik METrO Kuala Lumpur .
7. Lecturer Facilitator of Game Geek 2023, Politeknik METrO Kuala Lumpur.
8. Committee Member of Invitation and Protocol, Innovation Product Competition (PRO-I) Session II: 2022/2023, Politeknik Metro Kuala Lumpur.

2022

1. Committee Member of Technical Paper (Review Papers and Presentations) & Judging, Seminar Pembelajaran Sepanjang Hayat (SPSH) 2022
2. Final Year Student Project Coordinator, Politeknik Metro Kuala Lumpur.
3. Document Officer, Politeknik Metro Kuala Lumpur.
4.
5. Committee Member of Corporate, Industrial Services & Employability Centre (CISEC), Politeknik Metro Kuala Lumpur.
6. Final Year Student Project Coordinator, Politeknik Metro Kuala Lumpur.
7. Head of the Invitation, Registration and Graduate Committee of Politeknik Metro Kuala Lumpur Convocation.
8. Head of Promotion, Publicity and Photography Committee of POLYCC Game Jam 2022.
9. Coach Coordinator (Alumni) of POLYCC Game Jam 2022.

OTHER EXPERIENCES

2021

1. Final Year Student Project Coordinator, Politeknik Metro Kuala Lumpur.
2. Workshop to produce Game Project guideline, Diploma In Information Technology (Digital Technology) Politeknik Malaysia for Game Technology.
3. Game Programming Using UNREAL Workshop 1
4. Game Programming Using UNITY Workshop 2
5. Outcome Based Education (OBE) and Curriculum Workshop
6. UV Texture and Mapping in Autodesk Maya
7. Lecturer Knowledge Awareness Workshop Related to The Construction of Quality Assessment Items Under The Lecturer Reference Program of Assessment Item Construction.
8. Webinar Flagship i-Entertainment 1.0: Real World Applications of Extended Reality in Entertainment and Related Industries.
9. Head of the Technical Committee of The Premier Online Motivational Talk Program for India Polytechnic and College Community Students.
10. Committee Member of Invitation and Protocol, Innovation Product Competition (PRO-I) Politeknik Metro Kuala Lumpur.
11. Director of the Innovation Product Competition Program, Politeknik Metro Kuala Lumpur.
12. Digital Game Development - Phase 1 (Planning and Analysis) Workshop.

2020

- Committee Member for Game-Geek (48 hours), Politeknik Metro Kuala Lumpur
- Final Year Student Project Coordinator, Politeknik Metro Kuala Lumpur.
- Talent Development in Digital Technologies: Game Concept Development Masterclass Workshop.

2019

- Presenter for Bicara Tuntas Pasca Siswazah UKM 2019
- Chairperson for 6th International Visual Informatics Conference 2019
- Design and Development Research Study Courses: An Empirical Approach
- 3D Games Development (UNITY) Workshop

OTHER EXPERIENCES

2018

- Southeast Asian Scholars for Higher Education Leadership – Series 1 (AKEPT, Ministry of Education Malaysia and Mae Fah Luang University, Chiang Rai).

2017

1. Secretariat for 5th International Visual Informatics Conference 2017

2016

1. Formulation of polytechnic final examination questions for DBM1042 course
2. Formulation of polytechnic final examination questions for DBM 2013 – Engineering Mathematics Course
3. Committee Member for Curriculum Carnival Programme PSA

2015

1. Committee Member of Polyskills Competition, Politeknik Sultan Salahuddin Abdul Aziz Shah
2. Committee Member of Strategies and Techniques for Effective Teaching Mathematics Programme.
3. Committee Member of Staff Training, Politeknik Sultan Salahuddin Abdul Aziz Shah
4. Formulation of polytechnic final examination questions for DBM 2013 – Engineering Mathematics course

OTHER EXPERIENCES

2015

1. Formulation of polytechnic final examination questions for DBM1042 course
2. Formulation course work questions for BC 101 (Computer Application)
3. Formulation of DBM 1013 Module
4. Coordinate officer of complaint, Politeknik Sultan Salahuddin Abdul Aziz Shah
5. Part-time lecturer for Working Students of BC 101 (Computer Application) course
6. Formulation final examination questions and marking scheme for DBM 2013 (Engineering Mathematics Course)
7. Refinement of DBM 1013 - Mathematics Engineering Module
8. Member of Innovative and Creative (KIK)
9. Committee Member for Strategies and Techniques of Effective Teaching of Mathematical Program.

2014

1. Committee Member of Polyskills Competition, Politeknik Sultan Salahuddin Abdul Aziz Shah
2. Panel of Committee Member for drafting examination items, Politeknik Kementerian Pendidikan Malaysia
3. Internal Auditor, Politeknik Sultan Salahuddin Abdul Aziz Shah

2013

1. Quality Officer, Politeknik Sultan Salahuddin Abdul Aziz Shah
2. Committee Panel Formulation Questions for BA 101 - Computer Application
3. Presenter at National Research and Education Colloquium
4. Presenter at Politeknik Sultan Salahuddin Abdul Aziz Shah Colloquium
5. Formulation of BC 101 - Computer Application Module Questions

2012

1. Committee Member for Convocation Ceremony, Politeknik Sultan Idris Shah
2. Committee Member for Orphan Nursery Home Programme.
3. Research and Innovation Officer, Politeknik Sultan Salahuddin Abdul Aziz Shah

OTHER EXPERIENCES

2011
1. Committee Member for Polytechnic Graduate Employability Programmee
2. Souvenirs and Gift Unit Advisor of ICT Club
3. Deputy Director of ICT Club
4. Evaluation Panel of IT Final Project (Multimedia), Department of Information Technology and Communication, Politeknik Sultan Idris Shah

2010
1. Participate workshop on Item Specification Table Construction
2. Evaluation Panel of IT Final Project (Multimedia), Department of Information Technology and Communication, Politeknik Sultan Idris Shah.

2009
1. Presenter at National Research and Innovation Colloquium
2. Supervisor for IT Final Project
3. Evaluation Panel for IT Final Year Project (Multimedia), Department of Information Technology and Communication, Politeknik Sultan Idris Shah
4. Procurement Officer, Department of Information Technology and Communication, Politeknik Sultan Idris Shah

2008
1. Participate English Enhancement Programme
2. Interview Reviewer for Industrial Training Session, Politeknik Sultan Idris Shah
3. Secretary of Teaching Assistant Competition, Politeknik Sultan Idris Shah
4. Committee Member of Career Festival Exhibition, Politeknik Sultan Idris Shah

REFEREES

Professor Emeritus Dato' Dr. Halimah Badioze Zaman
Holder: Tan Sri Leo Moggie Distinguished Chair in Energy Informatics
Institute Visual Informatics And Computing In Energy,
Universiti Tenaga Nasional
Tel : 013-3357766
Email : hbzukm@yahoo.com

Dr Marina Ng Kher Hui
Associate Professor
School of Computer Science
University Nottingham Malaysia Campus
Tel : 012-4055359
Email : marina.ng@nottingham.edu.my

Ts. Dr. Sasitharan a/l Nagapan
Associate Professor
Faculty of Civil Engineering and Built Environment
Tun Hussein Onn University of Malaysia
Tel: 013-4033300
Email : sasitharan@uthm.edu.my