

**FINAL REPORT
POST-DOCTORAL SCHEME**

**PUSAT PENGURUSAN PENYELIDIKAN & INOVASI
UNIVERSITI TEKNIKAL MALAYSIA MELAKA**

This report must be completed by the post-doctoral researcher and supervisor. Please submit to CRIM within 2 months before the end of services.

PART A : DETAILS OF POST-DOCTORAL RESEACHER

Name	:	DR. CHE KU NURAINI BINTI CHE KU MOHD
IC No./Passport No.	:	860607- 46 - 5008
Staff No.	:	PD 006
Name of Supervisor	:	PROF. TS. DR. FAAIZAH BINTI SHAHBODIN
Date of Appointment	:	2 / 7 / 2018
Date of Completion of Contract	:	3 / 7 / 2021

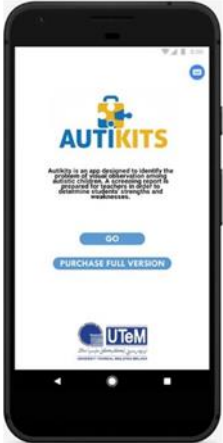
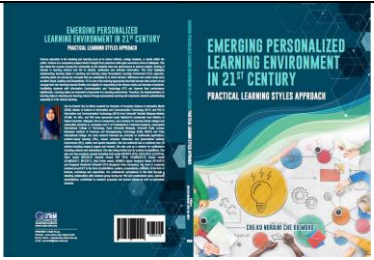

PART B : RESEARCH REPORT

SUMMARY OF RESEARCH FINDINGS:

Journal Publications	Total: 19 [Main Author: 11, CoAuthor:8] Q1:1, Q2: 2, Q3: 2, Q4: 4, ISI: 1, Scopus: 9
Proceedings	11
Book	2 [Book Chapter:1, Monograph:1]
Awards	11 [Gold:4, Silver:3, Others: 4]
Grants	<ol style="list-style-type: none"> Ongoing Matching Industry: 1 MRSM, 115K [Member] Ongoing FRGS: FRGS/1/2020/SS0/UTEM/02/1 [Member] Ongoing FRGS: FRGS/1/2020/TK0/UTEM/02/60 [Member] Ongoing International: 1 [Universiti Pendidikan Indonesia, Member] Ongoing International : 1 [Universiti Sebelas Maret, Member] PJP: RM7K, Completed - Leader PJP RM 6K, Completed - Member
Commerlization	AutiKits
MoA	UTeM and SEAMEO SEN
Networking	SEAMEO SEN, MRSM, Integrasi Pintar Sdn. Bhd.
Fund	1 (UPSI)- RM 25K, Member
Supervision	Ongoing - 1 PhD Student (Co SV)
Intellectual Property (IP)	Copyright: Autikits LY2020004895, Date: 15.10.2020 Trademark: Autikits TM2020011859, Date: 9.7.2020
Workshop Attended	100+

PART C : SPECIFIC OUTPUTS							
C1	List of publications in citation-indexed journal (ISI Web of Science/Scopus). (Kindly enclose the front page of publication)						
	Publications (Title, Author, Journal & Year)	Please Tick (√)					Impact Factor
		Scopus	ISI WoS	Q2	Q3	Q4	
1	Che Ku Nuraini C.K.M , Faaizah S., Nur Alya Sahira M.K, Munir and Riza L.S. (2020). Implementing Augmented Reality in Learning Bakery for Autism Learner. International Journal on Emerging Technologies 11(5): 631-634(2020) (Scopus, Q4)- PUBLISHED					√	
2	Anthony Anggrawan, Che Ku Nuraini , Mayadi Yadi, Christofer Satria (2021). Interplay Between Cognitive Styles And Gender Of Two Hybrid Learning To Learning Achievements. Journal Of Theoretical And Applied Information Technology. 99(10), pp. 2404-2413. E-ISSN 1817-3195 / ISSN 1992-8645. (Scopus, Q3- PUBLISHED				√		
3	Che Ku Nuraini Che Ku Mohd and Muliati Sedek and Fauziah Abdullah (2021). Factors Influencing Ubiquitous Technology Utilisation among Malaysian Technical Universities. Journal Of Theoretical And Applied Information Technology. X(X),pp. XX-XX. E-ISSN 1817-3195 / ISSN 1992-8645. (Scopus, Q3).- ACCEPTED				√		
4	Che Ku Nuraini Che Ku Mohd & Faaizah Shahbodin (2021). Issues And Challenges From Teachers' Perceptions In Creating Online Learning In The Midst Of Covid-19 Pandemic. Journal Of Theoretical And Applied Information Technology. X(X),pp. XX-XX. E-ISSN 1817-3195 / ISSN 1992-8645. (Scopus, Q3).- ACCEPTED				√		
5							
C2	List of publications submitted / under review. (Kindly enclosed letter of acceptance for publication in press).						
No.	Publications (Title, Author, Journal & Year)	ISI WoS / Scopus		Others			
1	Shamsuri Md Saad, Azmawaty Mohamad Nor, Faaizah Shahbodin, Che Ku Nuraini Che Ku Mohd , Siti Nurul Mahfuzah Mohamad & Zurina Saaya (2021). Assessment of Students' Perception of Personalised Learning during Pandemic. Global Journal of Engineering Education. XX(X), pp XX-XX. ISSN: 1328-3154	Q1					
2	Azmawaty Mohamad Nor, Shamsuri Md Saad, Faaizah Shahbodin, Che Ku Nuraini Che Ku Mohd , Siti Nurul Mahfuzah Mohamad & Zurina Saaya (2021). The Influence of Emotional Intelligence on Students' Online Learning Readiness. World Transactions on Engineering and Technology Education. XX(X), pp XX-XX. ISSN: 1446-2257	Q1					
C3	Other publications (e.g. books, chapter in books, proceedings, etc.)						
No.	Publications (Title, Author, Journal & Year)	Year					
1	Aspalilla Main, Abdullah Atiq Arifin & Che Ku Nuraini Che Ku Mohd (2020). Covid-19 Pandemic: Are There Any Challenges Faced By Students In Pursuing Online Distance Learning?. The 3rd International Conference on Social Sciences & Humanities 2020 ICOSH3 2020.	2021					

	Indonesia 3(1),ISSBN 978-967-2224-60-0.	
C4	List of grants	
No.	Projects Title	Duration & Amounts
1.	ASSOCIATE RESEARCHER Title: Model Development of Digital Assessment for Autism in Elementary Schools Universitas Sebelas Maret, Surakarta Role: Co Researcher	ON GOING 3/5/2021-2/5/2022 24 months/ RM 10,000
2.	INTERNATIONAL GRANT Title: Software Untuk Mendeteksi Level sebagai Media Pembelajaran Siswa Autis: Studi Banding SLB Malaysia dan SLB Indonesia Universiti Pendidikan Indonesia Role: Co Researcher	ON GOING 8/11/2020-8/11/2022 24 months/ RM 58,000
3.	FRGS Title: A New Model of Digital Entrepreneurship Towards Businesses Sustainability for Youth with Disabilities FRGS/1/2020/SS0/UTEM/02/1 Role: Co Researcher	ON GOING 2/11/2020-2/11/2022 24 months/ RM 57,540
4.	FRGS Title: Integrative model Development of the Eco-Innovation Capabilities towards Malaysian SMEs Halal Food Manufacturers Sustainability FRGS/1/2020/TK0/UTEM/02/60 Role: Co Researcher	ON GOING 2/11/2020-2/11/2022 24 months/RM 67,899
5.	INDUSTRY GRANT Title: Education 4.0: A Framework to Transform Maktab Rendah Sains Mara to Digital Classroom (MTUN)/IPSB/2020/FTMK-CACT/I00044 Role: Co Researcher	ON GOING 11/2/2020 - 11/6/2021 18 months / RM 110, 000
6.	PJP Title: Preparing Engineers for Industry 4.0 via a Digital English and Communication Competencies Framework PJP/2019/CRIM(3D)/S01690 Role: Co Researcher	COMPLETED 12 months / RM 6087
7.	PJP Title: Enhancement Of Autism Kits For Spectrum Disorders Using Visual Screening Tools PJP/2019/CRIM(3D)/S01686 Role: Principle Researcher	COMPLETED 12 months / RM 7000
C5	Other outputs (e.g. Networking/ Linkages, Students Supervision/ Product/patent, etc)	
No.	Outputs	Year
1.	SUPERVISION PhD Student Name: Suriawati Binti Suparjoh (P03170014) Title: An Augmented Reality Game Model for Screening Special Interests Of Autism Children Semester/Sesi: 2 2018/2019 Role: Co Supervisor	9 April 2019 - Ongoing
2.	TRADEMARK Autikits TM2020011859 Date: 9.7.2020	9.7.2020

3.	COPYRIGHT Autikits LY2020004895 Date: 15.10.2020	15.10.2020
4.	COMMERCIALIZATION Mobile Application: AutiKits Platform: Android (Google Play) Updated on: 2.11.2020 Price: MYR 20.99	 2.11.2020
5.	AWARDS 2020 Gold Medal and 1st Prize, AIC 2020 UTM 2019 Silver Medal, SIIF 2019 2019 Gold Medal, PECEPTA 2019 2019 Gold Medal, IUCEL 2019 2019 Gold Medal, Karnival Inovasi P&P 2019 (eLCC) 2019 Silver Medal, Malaysia Technology Expo (MTE) 2018 Anugerah Akademik Universiti 2018 (AAU) 2018 SEAMEO-Jasper Research Award 2018/2019 2018 Best Poster Award (InTRed`18) 2018 Best Poster Award (IRID`18)	
6.	BOOK Monograph. Che Ku Nuraini Che Ku Mohd (2020). Emerging Personalized Learning Environment (PLE) in 21st Century: Practical Learning Styles Approach. Publisher: UTeM Press.	 Book Chapter. Che Ku Nuraini Che Ku Mohd & Faaizah Shahbodin (2020). Problem Based Learning Implementation for Human Computer Interaction (HCI) Subject. First published 2020. ISBN: 978-967-2454-05-2. Publisher: UTeM Press.
I certify that the statements above are true, complete and correct.		
Date : <u>25.6.2021</u>	<div style="text-align: right;">  Post Doctoral Signature : DR. CHE KU NURAINI BINTI CHE KU MOHD PENYELIDIK PASCA DOKTORAL Pusat Pengurusan Penyelidikan dan Inovasi (CRIM) Universiti Teknikal Malaysia Melaka </div>	


PART D : COMMENT BY SUPERVISOR

Meet the expected KPIs.



Signature :

Date : 26/06/2021



PROFESOR Ts. DR. FAAZAH BINTI SHAHBODIN
Profesor
Jabatan Media Interaktif
Fakulti Teknologi Maklumat dan Komunikasi
Universiti Teknikal Malaysia Melaka (UTeM)

Official Stamp of Name and Position :

E. COMMENTS, IF ANY/ENDORSEMENT BY CRIM

.....

.....

.....

.....

Signature of Director CRIM :

Official Stamp of Name and Position :

Date :



Implementing Augmented Reality in Learning Bakery for Autism Learner

Che Ku Nuraini Che Ku Mohd¹, Faaizah Shahbodin² Nur Alya Sahira Muhamad Khidir³,
Munir⁴ and Lala Septem Riza⁵

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Universiti Teknikal Malaysia Melaka, 76100 Durian Tunggal Melaka, Malaysia.

^{4,5}Department of Computer Science, Universitas Pendidikan Indonesia.

(Corresponding author: Faaizah Shahbodin)

(Received 07 October 2020, Revised 25 November 2020, Accepted 15 December 2020)

(Published by Research Trend, Website: www.researchtrend.net)

ABSTRACT: The use of spoken language is difficult for children with Autism Spectrum Disorder (ASD) to understand. Some children might only be able to use single words, while others might be able to produce sounds. Others could not even speak at all. There are several different ways or approaches in which we can teach an ASD child. Communication is an important life skill that contributes to better relationships and improved quality of life for children with communication impairments. This study aims to focus on the use of AR for autism in bakery learning. This study will provide a summary of the use of AR technologies and help understand the best practices to be implemented when using AR for autism treatment. The findings would provide useful evidence for more ideas and strategies to improve the well-being of ASD patients. Questionnaires have been distributed to specific target users, who are teachers in special teaching methods, for user acceptance testing. The challenges facing during this study including such as observation and screening tools for caregivers and teachers, as well as parent questionnaires for portraying the children's function in the family, cultural community, and educational setting. Besides that, language skills span the entire continuum from no speech or functional speech, to mastery levels of comprehension, production, and literacy, while autism severity ranges from very severe to very mild. The teachers gives a brief description of the application to autism students, all respondents can do the research individually.

Keywords: Autism, Augmented Reality, Autism Students, Bakery Course, Technology.

Abbreviations: ASD, Autism Spectrum Disorder; AR, Augmented Reality; SDG, Sustainable Development Goals; VR, Virtual Reality.

I. INTRODUCTION

One of the leading and widely debated human beings today is the word autism. It has attracted the attention of society in the USA and recognized globally because of its increased prevalence [20]. There are also controversies that can be viewed as strengths about the conceptualization of autism as a disorder or as a whole of special qualifications [21]. The steady increase in the number of this condition is due in part to increased awareness among parents and professionals of health and education services, as well as changes in the diagnostic process that have contributed to early identification and diagnosis [3]. The increased public understanding has contributed to a rising interest in ASD [19]. Autism means it affects an individual differently, as a spectrum disorder. Young children cannot communicate with others in profound circumstances or treat people like objects. In milder situations, knowing and communicating with others is challenging and the feeling and experience of other people difficult to understand. Some children can speak with a simplified definition, while others can have little or no [1]. Many of these behaviors are not characteristic of all autistic children and young adults. A popular saying is that if you saw "one autistic child, you saw one autistic child" since there are many ways in which autism shows itself [20]. People with autism may be greatly impaired by a specific physiological or physical trait relative to people without autism, but in others, normal or even

superior [1]. Spectrum suggests that there is a mixture of talents and impairments for people with autism. Some autistic children and young people have average or higher intelligence; they need little support to work. While there may be major developmental disabilities, weak or no verbal communication, other children and young people are autonomous and have very limited adaptive behaviour.

In the early 1960s, as a result of advances in computers with faster and more powerful processors, real-time rendering and position tracking and artificial vision, augmented reality (AR) became part of the fields of information technology and science [6, 18]. More study into the potential causes and possible therapies of Autism has shown and strengthened patient wellbeing and clinical performance, and the use of VR and augmented reality on autistic patients [1]. AR technology has appeared in numerous fields in the field of health as a method of elective treatment: diagnosis, promotion of well-being, and treatment of mental health [13]. Over the past few decades, approaches based on the use of technology have increased exponentially as a real opportunity for treatment to improve the health and quality of life of people with ASD and their caregivers [8; 10]. The combination of these resulted in the creation of applications superimposed on real time by video cameras on images, 3D models, texts or any other digital element. AR mentions an expansive range of technologies that integrate computer-generated



INTERPLAY BETWEEN COGNITIVE STYLES AND GENDER OF TWO HYBRID LEARNING TO LEARNING ACHIEVEMENTS

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⁴CHRISTOFER SATRIA

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ABSTRACT

Hybrid learning is an education model that blends F2F (face-to-face) and online lessons. Each learning model can determine individual students to succeed or fail. The mixing combination in mixed learning affects the pedagogical results. The problem is how the pedagogical results are due to students' cognitive styles, gender, and the mixed level of hybrid learning. So that the questions are: how effective is the hybrid learning with a mixture of 60% F2F and 40% online; how the interplay results between cognitive styles and genders affect learning achievements; and what are the distinctions in learning achievement of this hybrid learning with a mixture of 60% F2F lesson and 40% online lesson compared to prior hybrid learning with a blend of 40% F2F lesson and 60% online lesson. This research objective compares the interplay results between the cognitive styles and the gender of the two-hybrid learning. The research method is experimental. The research discloses that: hybrid learning with a mixture of 60% F2F and 40% online is a good study result; there are differences in learning achievement between student cognitive styles and student gender; male students with visual cognitive style are more successful in learning achievement. Hybrid learning combined with online teaching materials 20% greater than F2F teaching materials shows more successful learning outcomes. This research novelty is that students' cognitive style and gender interact and have different effects on hybrid learning achievement. The contribution of this research is that in learning, it is necessary to pay attention to the learning model used and the media to support students' cognitive styles in achieving better effectiveness of learning outcomes.

Keywords: *Interplay, Cognitive style, Gender, Hybrid learning, Learning achievement*

1. INTRODUCTION

The three main learning models are F2F, online, and hybrid learning. The hybrid learning model is a composite lesson of F2F and online, where the delivery of teaching material taught is partly F2F and partly online. In F2F learning, the direct interaction between students and instructors (lecturers) occurs in the lesson process. Whereas in online education, instructors or subject matter and students are in different locations, and the interaction of the learning process takes place via the internet or known as distance learning (Anggrawan and Satria, 2020). Each learning model has advantages behind its

shortcomings in achieving cognitive area learning results for students. So, it is essential to pay attention to students' cognitive styles [1]. It is also necessary to consider the learning model to achieve better learning results [1]. The F2F lesson model is superior to students' affective aspects which students can engage F2F directly with each other in learning and relationships. Meanwhile, the demand for online education is increasing rapidly, which impacts the pressure on the use of online resources [2]. The success of online learning depends on its use and its influence on the learner [3]; the online learning model is superior in the cognitive aspect of independent learning, which can repeat any learning material anywhere, any time, and

Che Ku Nuraini Che Ku Mohd and Muliati Sedek and Fauziah Abdullah (2021). Factors Influencing Ubiquitous Technology Utilisation among Malaysian Technical Universities. Journal Of Theoretical And Applied Information Technology. X(X),pp. XX-XX. E-ISSN 1817-3195 / ISSN 1992-8645. (Scopus, Q3).- ACCEPTED

[JATIT] Letter of Acceptance for Submitted Research Paper ID 43459-JATIT

editor.jatit <mailjatit@gmail.com>

Fri 07/05/2021 02:16

To: DR. CHE KU NURAINI BINTI CHE KU MOHD <cknuraini@utem.edu.my>; DR. MULIATI BINTI SEDEK <muliati@utem.edu.my>; FAUZIAH BINTI ABDULLAH <fauziahabdullah@utem.edu.my>

5 attachments (365 KB)

Author Guidelines and Formatting Template.doc; JATIT Reply to Reviewer Comments.docx; 43459-JATIT Final Evaluation Report.pdf; JATIT Copyright.doc; Preliminary Evaluation Form.pdf;

Dear Corresponding Author **Che-Ku-Nuraini-Che-Ku-Mohd**

We are pleased to inform you that your submission ID: **43459-JATIT** titled "**FACTORS INFLUENCING UBIQUITOUS TECHNOLOGY UTILISATION AMONG MALAYSIAN TECHNICAL UNIVERSITIES**" having author(s): **CHE KU NURAINI CHE KU MOHD, MULIATI SEDEK, FAUZIAH ABDULLAH** has been **accepted for publication** in **JOURNAL OF THEORETICAL AND APPLIED INFORMATION TECHNOLOGY** (E-ISSN 1817-3195 / ISSN 1992-8645). The acceptance decision was based on the reviewers' evaluation after double-blind peer review and the chief editor's approval.**[Attached with this acceptance intimation]**

Che Ku Nuraini Che Ku Mohd & Faaizah Shahbodin (2021). Issues And Challenges From Teachers' Perceptions In Creating Online Learning In The Midst Of Covid-19 Pandemic. Journal Of Theoretical And Applied Information Technology. X(X),pp. XX-XX. E-ISSN 1817-3195 / ISSN 1992-8645. (Scopus, Q3).- **ACCEPTED**

[JATIT] Letter of Acceptance for Submitted Research Paper ID 43509-JATIT

editor.jatit <mailjatit@gmail.com>

Thu 13/05/2021 22:39

To: DR. CHE KU NURAINI BINTI CHE KU MOHD <cknuraini@utem.edu.my>; PROFESOR TS. DR. FAAIZAH BINTI SHAHBODIN <faaizah@utem.edu.my>

5 attachments (340 KB)

Author Guidelines and Formatting Template.doc; JATIT Reply to Reviewer Comments.docx; 43509-JATIT Final Evaluation Report.pdf; JATIT Copyright.doc; Preliminary Evaluation Form.pdf;

Dear Corresponding Author **Che-Ku-Nuraini-Che-Ku-Mohd**

We are pleased to inform you that your submission ID: **43509-JATIT** titled "**ISSUES AND CHALLENGES FROM TEACHERS' PERCEPTIONS IN CREATING ONLINE LEARNING IN THE MIDST OF COVID-19 PANDEMIC**" having author(s): **CHE KU NURAINI CHE KU MOHD, FAAIZAH SHAHBODIN** has been **accepted for publication** in **JOURNAL OF THEORETICAL AND APPLIED INFORMATION TECHNOLOGY** (E-ISSN 1817-3195 / ISSN 1992-8645). The acceptance decision was based on the reviewers' evaluation after double-blind peer review and the chief editor's approval.**[Attached with this acceptance intimation]**

ISSUES AND CHALLENGES FROM TEACHERS' PERCEPTIONS IN CREATING ONLINE LEARNING IN THE MIDST OF COVID-19 PANDEMIC

CHE KU NURAINI CHE KU MOHD¹, FAAIZAH SHAHBODIN^{2*}

¹Centre for Research and Innovation Management, ~~Universiti Teknikal~~ Malaysia Melaka, 76100 Durian Tunggal Melaka, Malaysia

²Faculty of Information and Communication Technology, ~~Universiti Teknikal~~ Malaysia Melaka, ~~Hang Tuah~~ Jaya, 76100 Durian Tunggal, Melaka, Malaysia

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ABSTRACT

The outbreak of the Corona virus during the month of December 2019 spread to various parts of the planet in a few months brought our lives to a halt. Along with the extreme health crisis faced by COVID-19, the education sector was severely impacted. This study explores the perceptions of secondary school teachers of online learning in a program developed in Malaysia during the COVID-19 Pandemic. A quantitative survey was conducted to evaluate teachers' perceptions of teaching and learning engagement. Data have been obtained by a questionnaire. Learning materials used in university student education are also accessible online. The nature of the new technology interweaves formal and informal learning such that students can participate actively in the use of ICT to learn. Otherwise, the teachers will come to a halt a handful of students behind their students, partially because their particular learning style has not been triggered without understanding these various learning methods. Consequently, this survey explored the teachers' understanding of teaching and their relationship with their engagement to learning. Broadly, the success of online learning in Malaysia during the COVID-19 Pandemic was determined by the readiness of technology in line with the national humanist curriculum, support and collaboration from all stakeholders, including government, schools, teachers, parents and the community. The findings indicate that students have a good sense of teaching and there have been strong correlations between the teacher's perceptions and students' engagement to learning. Teachers are recommended to consider the nature of the student and to apply appropriate types of learning tools during their classes.

Keywords: COVID-19, Education, ICT, Online Learning, University

1. INTRODUCTION

The pandemic has an impact not only on human life but also on education. On its impact on education, the least was expected. COVID-19, like many other aspects of daily life, has undoubtedly had a major influence on students, teachers, and educational organizations all over the world (Mailizar et al., 2020). According to Sunitha et al. (2020), the ongoing COVID -19 pandemic started in December 2019 in Wuhan, China, and was declared a pandemic by WHO on March 11, 2020. The educational sector was caught by surprise when the tragic event shook the sector towards its core (Anna, 2020). According to a UNESCO estimate, by June 2nd, 2020, nearly 1.2 billion children and youth will face unprecedented instability in education around the world, and more than 200

million students in higher education institutions will be excluded from their institutions UNESCO (2020). Some of the World Health Organization's (2019) recommended principles, such as social and physical distancing, have made implementation difficult for each country. As the COVID-19 pandemic spreads, there has been an increasing shift toward online education due to the indefinite shutdown of schools, colleges, and universities as the only alternative left (Martinez,2020). Schools are being forced to introduce distance education or online learning, e-learning, distance education, correspondence education, external studies, flexible learning, and wide-open online courses as a result of changes in learning systems MOOCs (Santitadils et al., 2020). According to the Centers for Disease Control and Prevention, e-learning plans, including digital and distance learning



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DEPARTEMEN PENDIDIKAN ILMU KOMPUTER

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8 November 2020

Number : 247/UN40.4.6/DL/2020

LETTER OF APPOINTMENT

In line with the Letter of Intent to Collaborate between Universiti Teknikal Malaysia Melaka and Universitas Pendidikan Indonesia on August 10th, 2019, Prof. Dr. Munir, M.IT., as the team leader of the research entitled "Software untuk Mendeteksi Level dan sebagai Media Pembelajaran Siswa Autis: Studi Banding SLB Malaysia dan SLB Indonesia" has appointed the following team members:

1. Name: Prof. Dr. Faaizah Shahbodin
Affiliation: Centre for Academic Excellent and Scholarship, UTeM, kampus Industry, 76100 Melaka, Malaysia
Email: faaizah@utem.edu.my
Hp: 019 6586704
2. Name: Dr. Che Ku Nuraini Binti Che Ku Mohd
Affiliation: Centre for Research and Innovation Management (CRIM)
Universiti Teknikal Malaysia Melaka (UTeM), Hang Tuah Jaya, 76100, Durian Tunggal, Melaka, Malaysia.
Email: cknuraini@utem.edu.my
Hp: 0129082650
3. Name: Ts. Dr. Siti Nurul Mahfuzah Mohamad
Affiliation: Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka (UTeM), Hang Tuah Jaya, 76100 Durian Tunggal, Melaka, Malaysia.
Email: mahfuzah@utem.edu.my, mahfuzah.weebly.com
Hp: 60133808211
4. Name: Dr zanariah Jano
Affiliation: Department of human development, Centre for Languages and Human Development, Universiti Teknikal Malaysia Melaka (UTeM), Hang Tuah Jaya, 76100 Durian Tunggal Melaka
Email: zanariahjano@utem.edu.my
Hp: 0174141039



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FAKULTAS PENDIDIKAN MATEMATIKA DAN ILMU PENGETAHUAN ALAM
DEPARTEMEN PENDIDIKAN ILMU KOMPUTER

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5. Name: Dr. Farah Shahnaz Feroz
Affiliation: Faculty of Electronics and Computer Engineering, Universiti Teknikal
Malaysia Melaka, Hang Tuah Jaya, 76100, Durian Tunggal, Melaka,
Malaysia.
Hp: 801231-07-5684

This appointment shall provide logistical and management details appropriate to the
successful operation of the programs to fulfill the spirit and purpose of the research.

Head of Department of Computer Science
Education

Dr. Lala Septem Riza, M.T.
NIP. 197809262008121001

Team Leader of Research

Prof. Dr. Munir, M.IT
NIP. 196603252001121001



Dean of FPMIPA,
Universitas Pendidikan Indonesia

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KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN

UNIVERSITAS SEBELAS MARET SURAKARTA

FAKULTAS KEGURUAN DAN ILMU PENDIDIKAN

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Email : fkip@fkip.uns.ac.id, Website : http://fkip.uns.ac.id

**APPOINTMENT AS ASSOCIATE RESEARCHER
FACULTY OF TEACHER TRAINING AND EDUCATION
UNIVERSITAS SEBELAS MARET, (Indonesia)**

In line with development of friendly international cooperation in accordance with our mutual interest in developing programs of academic and scholarly exchanges and for the purpose of establishing a long-term mutually beneficial association, FACULTY OF TEACHER TRAINING AND EDUCATION, Universitas Sebelas Maret, with a principal place of business at Jl. Ir. Sutami 36 Kentingan, Jebres, Surakarta, Jawa Tengah, Indonesia, represented by its dean Dr. Mardiyana, M.Si agrees to promote academic cooperation by conducting a collaborative project with Research Group Pervasive Computing & Educational Technology (PET), under Centre For Advanced Computing Technology (C-ACT) Universiti Teknikal Malaysia, Melaka (UTeM). The Faculty agrees to exercise its best efforts to develop the following form of cooperation:

1. Establish a collaborative project with the Research Group Pervasive Computing & Educational Technology (PET), under the Centre For Advanced Computing Technology (C-ACT).
2. Provide RM 10,000 to pursue a research project entitled: "Model Development of Digital Assessment For Autism in Elementary Schools"
3. Set up research team from Department Of Special Education (Faculty Of Teacher Training and Education) by appointing Dr. Joko Yuwono M.Pd (head of research team), Prof. Gunarhadi, Ph.D (member), Prof. Munawir Yusuf M.Si (member), and Mahardika Supratiwi S.Psi, M.A (member)
4. Appointment of Professor Dr Fauziah Shahbodin (head of research team) and Dr Che Ku Nuraini Che Ku Mohd (member) and Dr Farah Nadia Azman (member) from Research Group Pervasive Computing & Educational Technology (PET), under Centre For Advanced Computing Technology (C-ACT) Universiti Teknikal Malaysia, Melaka (UTeM) as Associate Researcher for this research project.

The Faculty of Teacher Training and Education agrees to work together with Research Group Pervasive Computing & Educational Technology (PET), under Centre For Advanced Computing Technology (C-ACT) Universiti Teknikal Malaysia, Melaka (UTeM) to develop specific agreements on the points above. This agreement shall provide logistical and management details appropriate to successful operation of the programs to fulfill the spirit and purpose of this letter of intent.

Surakarta, May 03rd 2021

Dean Of Faculty Of Teacher
Training And Education
Universitas Sebelas Maret SURAKARTA



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