



**UPNM**  
National Defence University of Malaysia  
Kewajipan • Maruah • Integrasi

**PEJABAT PENDAFTAR**

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**I. PERSONAL PARTICULARS**

<b>Name:</b>	<b>Associate Prof. Ts. Dr. Norshahriah Abdul Wahab</b>
<b>Current Position Faculty/ Department:</b>	<b>Director of Centre for Teaching and Learning (CTL) Level 1, Chancellory Building, Office of Deputy Vice Chancellor (Academic and International), National Defence University of Malaysia.</b>  <b>Associate Professor Level 2, Lestary Building, Department of Computer Science, Faculty of Defence, Science and Technology (FSTP).</b>

## II. ACADEMIC AND PROFESSIONAL QUALIFICATIONS

Year	Degree	Discipline	University
2000 – 2002	Degree (Hons.)	Information Science (Multimedia in Education)	Universiti Kebangsaan Malaysia
2002 – 2005	Master (Full Research)	Information Science	Universiti Kebangsaan Malaysia
2010-2015	Doctor of Philosophy (PhD.)	Visual Informatics (Visualization)	Universiti Kebangsaan Malaysia

## III. TITLES OF POSTGRADUATE THESES WRITTEN (At MSc/PhD Level)

NO.	TITLES OF POSTGRADUATE THESES
1.	Virtual Terrain Map (VIRT-TM) Application Based on Visualization Techniques for Military Cadet Rehearsal – Master (Graduated)
2.	The Implementation of Human Computer Interaction (HCI) in Mobile Devices for Search And Rescue (SAR) Operation – Master (Graduated)
3.	Comparative Analysis of Social Media for Effectiveness in User's Experience using News Broadcasting – Master (On-Going)
4.	Modeling Critical Successful Factors of Mobile Game Applications for Military Trainings : From the Perseptive of User Interfaces – Master (On-Going)
5.	The Effectiveness of Immersive in Mixed Reality for Combat Shooting Training – Master (On-Going)
6.	Gamification in Medical Education using Augmented Reality (AR) – Master (On-Going)
7.	Predictive Analysis on Colour Changes of Map using Geographical Information System (GIS) – PhD. (On-Going)

8.	Usability Framework of Approaching Mixed Reality and Massive Open Online Courses (MOOC) in Learning the Military Decision Making Environment – PhD. (On-Going)
9.	Significant Factors in Carbon Dioxide (CO <sub>2</sub> ) Emission for Eco-Friendly Technology Framework using Artificial Neural Network – PhD. (On-Going)
10.	User Experience (UX) and Interaction Design (IeD) Framework in Gamification for Online Teaching and Learning – PhD. (On-Going)
11.	EEG Signals Analysis to Classify Emotions And Level of Performance within Sports Athletes – PhD. (On-Going)

**IV. WORK EXPERIENCES**

<b>YEAR</b>	<b>POSITION</b>	<b>FIELD OF WORK</b>	<b>PLACE OF WORK</b>
2002 - 2005	Research Assistant (RA)	Multimedia in Education	Faculty of Information, Science and Technology (UKM)
2005 - 2008	Lecturer and Head Coordinator	ICT and Health Informatics	Masterskill University, Cheras
2008- Present	Lecturer	Computer Science	Universiti Pertahanan Nasional Malaysia

## TEACHING AND SUPERVISION

### Undergraduate Courses

NO.	COURSES TITLE
1.	Code Course : SZK 2243 Batch : 4SZK, 2TSK2 Subject : System Software
2.	Code Course : FCS 0112 Batch : PP1,PP2, Engineering Subject : Computer Literacy
3.	Subject : Computer Graphics & Multimedia Code Course : TSK 2213 Batch : 2TSK1, 2TSK2
4.	Subject : Software Engineering (SE)
5.	Subject : Computer Organization and Architecture (COA)
6.	Operating System (OS)
7.	Mentor/Mentee ( <i>Penasihat Akademik</i> )
9.	Training Supervisor ( <i>Latihan Industri</i> )
10.	Computer Simulation and Modeling Design (TSV3333)
11.	Human Computer Interaction (TSI 3723) Batch : 2TSC, 2TSI

## First Degree Supervision

No	Name of Student	Project Title	Year	Status <ul style="list-style-type: none"> <li>• Completed</li> <li>• Submitted</li> <li>• In Progress</li> </ul>
1.	Muhammad Hazwan Bin Mohammad Zain	Sistem Pengurusan Penasihat Akademik dengan Mengaplikasikan Kod Respon Segera (QR Code)	2015	Status : Completed
2.	Mohd Amirul Bin Shamsudin	Sistem Pengurusan Rekod Kesihatan Pegawai Kadet di RSAT Menggunakan Kad Pintar	2015	Status : Completed
3.	Muhammad Aminuddin Bin Azizan	Sistem Rekod Penyelenggaraan Aset Makmal Komputer FSTP dengan Mengaplikasikan Kod Respon Segera (QR Code)	2015	Status : Completed
4.	NurFaziedah Binti Mohamed Fazli	Jangkaan Analisis daripada Media Sosial (Twitter.Com)	2015	Status : Completed
5.	Siti Nurain Binti Rahim	Sistem Tempahan Baju Servis Nombor Tiga Menggunakan Notifikasi SMS	2015	Status : Completed
6.	Mohd Adha Bin Asrar	Sistem Cuti Pegawai Kadet UPNM dengan Aplikasi Kod Respon Segera (QR Code) Atas Talian	2015	Status : Completed
7.	Mohd Azrul Nizam, Mohd Naim dan Norsharikin Nadirah	Community Service Online System in Smart Village	2015	Status : Completed
8.	Nur Atiqah, Mohd Zulfakhri dan Ahmad Asfer	Cataloging System for Reading Materials based on Color-Coded	2015	Status : Completed

9.	See Horng, Ahmad Shauqi, Ismail dan Mohd Daniel	E-Tuition System for RMC Student	2015	Status : Completed
10.	Nurul Nazirah, Mohd Syahmi, Siti Naasuraq dan Mohd Ashraf	System of Social Circle	2015	Status : Completed
11.	Mohamad Zameer Fakreen Bin Mohd Sidek	Battlefield System Using Hologram Technology	2016	Status : Completed
12.	Nur Atiqah Binti Zulkifli	Sistem Pengurusan Peralatan Pejabat Doktor 712 PPAT Kem Perdana Sungai Besi	2017	Status : Completed
13.	Muhammad Adzwan Bin Mohamad Ghani	Sistem Data Analitik Dalam Pembelajaran Atas Talian	2018	Status : Completed
14.	Kamarul Hafizi Bin Kamaruzaman	Sistem Data Analitik Dalam Mengenalpasti Potensi Pelajar FSTP	2018	Status : Completed
15.	Mastura Hanim Binti Abdul Aziz	Aplikasi Pembelajaran Secara Nyata Luasan Melalui Telefon Pintar	2019	Status : Completed
16.	Nur Nafisa Binti Mohd Rizal	Sistem Maklumat Tembakan Senjata M16 Bagi Pegawai Kadet	2019	Status : Completed
17.	Muhammad Irfan Bin Abismiza	Sistem Pengiktirafan Sijil ALK Menggunakan Aplikasi Android	2019	Status : Completed
18.	Muhammad Hanif Safwan Bin Che Mat	Augmented Reality (AR) in Gamification for Computer Simulation and Modelling Design	2022	Status : Completed
19.	Mirzan Hidayat Bin Jamalullail	Augmented Reality (AR) in Medical Education for CPR Procedures	2022	Status : Completed
20.	Muhammad Amar Bin Zamani	The development of Augmented Reality (AR) in Body Building simulated Gymnasium	2022	Status : Completed

## PhD Supervision

No.	Name of Student	Project Title	Date of Registration	Role (Main / Co-Supervision)	Status • Completed • Submitted • In Progress	University
1.	Nur Hazimah bin Nordin	Model on Enhancement of Postal Code for Addresses to Support Malaysia's Readiness Towards 4.0IR	2019	Main Supervision	Status : In Progress	UPNM
2.	Mohd Afiq Zamanhuri	Usability Framework of Approaching Mixed Reality and MOOCs in Learning the Military Decision Making Environment	2019	Main Supervision	Status : In Progress	UPNM
3.	Rozita Binti Hussain	Usability Framework of Significant Factors in Contributing to Green Logistics	2019	Main Supervision	Status : In Progress	UPNM
4.	A'tifah Hanim Rosli	User Experience (UX) and Interaction Design (IeD) in Gamification for Online Teaching and Learning	2020	Main Supervision	Status : In Progress	UPNM

5.	Nurul Natasha Awinda Mohammad	EEG Signals Analysis to Classify Emotions and Level of Performance within Sports Athletes	2020	Co-Supervision	Status : In Progress	UPNM
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### PhD External/Internal Examination

No.	Name of Student	Project Title	External / Internal	Date of Viva	University
1.	Lee Fong Yee	Responsiveness Web Design (RWD) for Mobile Device Optimization	Internal	14 Mac 2019	UPNM

### MSc (by Research)

No.	Name of Student	Project Title	Date of Registration	Role (Main / Co-Supervision)	Status <ul style="list-style-type: none"> <li>• Completed</li> <li>• Submitted</li> <li>• In Progress</li> </ul>	University
1.	Nur Syafikin Shaheera binti Mat Zaini	Implementation of Human Computer Interaction (HCI) in Mobile Devices for Search And Rescue (SAR) Operation	2016	Co-Supervision	Status : <b>Completed</b>	UPNM
2.	Nurul Aini binti Kasran	Virtual Terrain Map (VIRT-TM) Application Based on Visualization Techniques for Military Cadet Rehearsal	2017	Main Supervision	Status : <b>Completed</b>	UPNM
3.	Nursyuhada Narjun	Mixed Reality for 3 Dimensional (3D) Geospatial Terrain	2018	Main Supervision	Status : In Progress	UPNM



		in enhancing Situational Awareness amongst military decision makers'				
4.	Leenaambighai a/p Jayabalan	Comparative Study on Mixed Reality in Future Visualization and Personalization in Military Decision Making Process	2019	Main Supervision	Status : In Progress	UPNM
5.	Ahmad Daniel bin Kamarul Anuar	Comparative Analysis of Social Media For Effectiveness in User's Experiences using News Broadcasting	2019	Main Supervision	Status : In Progress	UPNM
6.	Mohd Afif Bin Anuar	Modeling Critical successful Factors of Mobile Game Applications for Military Trainings : from the perspective of User Interfaces	2019	Co-Supervision	Status : In Progress	UPNM
7.	Muhammad Asyraf Bin Zawawi	Gamification in Medical Education using Augmented Reality (AR)	2022	Main Supervision	Status : In Progress	UPNM

## RESEARCH, PUBLICATION AND PRESENTATION

### Research Projects

No	Title	List of Researchers • Project Leader • Members	Grant Year	Source Amount	Status • Completed • In Progress
1.	Verification Of A Battlefield Visualization Framework In Military Decision Making Using Holograms Technology	<b>Project Leader</b> RAGS/1/2015/ICT02/UPNM/03/1	2015	MOHE (RM35,000)	Status Completed
2.	Development of New Method For Line Detection By Improve Hough Transform In Real Time Application	Member RAGS/2012/ UPNM/TK06/13	2015	MOHE	Status : Completed
3.	An Integration of Thermal And Optical Flow Techniques for Human Aggressive Movement Detection	Member RACE/F3/SG5/ UPNM/3	2015	MOHE (RM47,000)	Status : Completed
4.	Surveillance System For Automatic Abnormally Movement Detection	Member UPNM/2016/ GPJP/4/ICT/1	2016	SKIM GERAN JANGKA PENDEK (GPJP)	Status : Completed
5.	A New Model on Visualization Technology for Map Terrain in Military Decision Making Aid	<b>Project Leader</b> UPNM/2017/ GPJP/NRGS/ICT/2	2017	UPNM (RM40,000)	Status : Completed
6.	Kansei Engineering As Users Emotional Assessment in Information Security	Member FRGS/1/2017/ICT04/UPNM/03/1	2017	UPNM (RM55,120)	Status : Completed
7.	Pendedahan dan Latihan Praktikal Mengenai Keselamatan siber dan Potensi sebagai Pilihan Kerjaya kepada Kumpulan Sasaran Sekolah Menengah di Maktab Rendah Sains MARA (MRSM)	Member K0001-0000- TP(LL(R2)- CS/1(UPNM-17)	2017	UPNM (RM68,680.50)	Status : Completed

No	Title	List of Researchers • Project Leader • Members	Grant Year	Source Amount	Status • Completed • In Progress
8.	Illuminance Relative Density for Bad Weather Image Destoration	Member UPNM/2019/GPJP/ TK/18	2019	SKIM GERAN JANGKA PENDEK (GPJP) (RM 20,000)	Status : In Progress
9.	Classification of Remote Sensor Data for Flood Disaster Forecasting using Data Mining Hybrid Techniques	Member RACER/1/2019/ICT 04/UPNM/1	2019	MOHE (RM46,443)	Status : In Progress
10.	Big Data Analytics to Predict the Severity of the Nerve Agent Threats using data from Internet of Things Technologies	<b>Project Leader</b> UPNM/2020/GPJP/ ICT/7	2020	SKIM GERAN JANGKA PENDEK (GPJP) (RM 20,000)	Status : In Progress
11.	Usability Framework of Mixed Reality and MOOCs in Learning Military (MiXMOOC-MDM)	<b>Project Leader</b> SF0102- UPNM/2020/SF/IC T/2	2020	SELF FUNDED GRANT	Status : In Progress
12.	Modeling Critical Success Factors (CSFs) of Mobile Game Applications for Military Trainings from the Perspective of User Interfaces	Member UPNM/2020/GPJP/ ICT/1	2020	SKIM GERAN JANGKA PENDEK (GPJP) (RM 20,000)	Status : In Progress
13.	Visual Analytics for Debris Detection using Drone Observation (VAL-Dr1) for Go Green Concept	<b>Project Leader</b> SF0071- UPNM/2019/SF/IC T/4	2020	SELF FUNDED GRANT	Status : In Progress
14.	Sistem Smart Pigeon Hole menggunakan Khidmat Pesanan Ringkas	Member SF0100- UPNM/2019/SF/IC T/1	2020	SELF FUNDED GRANT	Status : In Progress

## Publications (Academic Journal)

No.	Authors, year, title, publisher/journal, volume and number of pages (Please bold your name)	Type of Journal • ISI • SCOPUS • Peer-Reviewed
1.	<b>Norshahriah Abdul Wahab</b> , Amalina Farhi Ahmad Fazdlah, Nurhafizah Moziyana Mohd Yusop, Mohd Lazim Talib Suresh A/L Thanakodi , Nurul Aini Kasran, Nurul Syuhada Narjun. 2022. The Synergy Of Mixed Reality (Mr) In Revolutionizing The Future Combat Visualization With Geovisionary (Geo-Vis). Zulfaqar Journal. Def. Sci. Eng. Tech. Vol. 5 Issue 1 (2022) 1-7	International (SCOPUS)
2.	Muhamad Lazim Talib, Suresh Thanakodi, Norsheeda Mat Noor, <b>Norshahriah Abdul Wahab</b> , Amalina Farhi Ahmad Fadzliah, Nur Hazimah Nordin. 2021. Monitoring and Controlling Marine Activity using IoT System. Malaysian Journal of Computer Science. Pages 30-37.	International (SCOPUS)
3.	Mohd Faizal Mustafa, Mohd Rizal Mohd Isa, Ummul Fahri Abdul Rauf, Mohd Nazri Ismail, Mohd Afizi Mohd Shukran, Mohammad Adib Khairuddin, <b>Norshahriah Wahab</b> , Noor Zuraidin Mohd Safar. 2021. Student Perception Study on Smart Campus : A case study on Higher Education Institution. Malaysian Journal of Computer Science. Pages : 1-20	International (SCOPUS)
4.	Atifah Hanim Rosli, <b>Norshahriah Abdul Wahab</b> , Syed Nasir Alsagoff, Mohd Rizal Mohd Isa, Afizi Mohd Shukran. Student Preferences of Learning Materials During Precedented Online Learning Due to Covid-19. 2021. Malaysian Journal of Computer Science. Pages : 38-44.	International (SCOPUS)
5.	Mohd Afizi Mohd Shukran, Mohd Sidek Fadhil Mohd Yunus, Mohd Rizal Mohd Isa, Fatimah Ahmad, Muhammad Naim Abdullah, Syed Muzzameer Syed Zulkiplee, Mohammad Adib Khairuddin, Mohd Nazri Ismail, Mohd Fahmi Mohamad Amran, <b>Norshahriah Wahab</b> , Nur Adnin Ahmad Zaidi. Pixel Value Graphical Password Scheme : K-Means as Graphical Password Fault Tolerance. 2021. International journal of electrical and computer engineering systems. Pages : 23-29.	International (SCOPUS)
6.	Suresh Thanakodi, Muhamad Lazim Talib, Syarifah Aishah Syed Ali, <b>Norshahriah Abdul Wahab</b> , Amalina Farhi Ahmad, Norshaheeda Mohd Noor, Muhammad Izham Bin Ahmad Zahari, Mohd Arif Ahmad. 2021. A Study into the	International (SCOPUS)

	Development of a Light Weight Smart Life Buoy Prototype (LWSLB).Transactions on Maritime Science Journal. Pages 383-389.	
7.	Muslihah Wook, Noor Afiza Mat Razali, Suzaimah Ramli, <b>Norshahriah Abdul Wahab</b> , Nor Asiakin Hasbullah, Norulzahrah Mohd Zainudin et.al. 2020. Opinion Mining Techniques for Developing Student Feedback Analysis System Using Lexicon-Based Approach (OMFeedback). Journal of Education and Information Technologies (2020) 25:2549-2560.	ISI, Q1
8.	<b>Norshahriah Wahab</b> , NorAsiakin Hasbullah, Norulzahrah Zainudin, Yuhanim Hani Yahya. 2019. An Approach to Mixed Reality and Massive Open Online Courses (MOOC) in Learning the Military Decision Making Environment. International Journal of Recent Technology and Engineering. Volume 7, Issue 5S4.	International (SCOPUS)
9.	Yuhanim Hani Yahya, Nurhafizah Moziyana Mohd Yusof, Mohd Fahmi Mohamad Amran, <b>Norshahriah Wahab</b> , Muslihah Wook. 2018. International Journal of Engineering and Technology. Volume 7, No. 4.33, Special Issue 33.	International (SCOPUS)
10.	<b>Norshahriah Wahab</b> et.al. 2018. A New Model on Mixed Reality for 3 Dimensional (3D) Geospatial Terrain in Enhancing the Situational Awareness amongst Military Decision Makers'. International Journal of Engineering and Technology. Vol.7, No:4.29 (2018) Special Issue 29.	International (SCOPUS)

#### Book/Chapter in Book:

No.	Authors, year, title, publisher, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> <li>• International</li> <li>• National</li> <li>• University</li> </ul>
1.	<b>Norshahriah Wahab</b> dan Kapt Syed Nasir Al-sagoff. 2022. Machine Learning Model to Predict the Severity of Nerve Agents (NAs) Threats Using Internet of Things (IoT). E-ISBN : 978-967-26495-0-2.	International
2.	<b>Norshahriah Wahab</b> , et.al. Playbook Pengajaran dan Pembelajaran Dalam Talian. Diterbitkan oleh : Bahagian Kecemerlangan Akademik, Kementerian Pengajian Tinggi. 2022.	International
3.	<b>Norshahriah Wahab</b> , et.al. 2018. Buku Amalan Kualiti MOOC Malaysia. Bahagian Pengurusan Pembangunan Akademik, Jabatan Pendidikan Tinggi, KPT. ISBN : 978-983-3225-13-2.	National
4.	<b>Norshahriah Wahab</b> , et.al. 2018. Buku Malaysia MOOC (Massive Open Online Courses) in Malaysian Public Higher Education Institutions : The Journey.	International

	Jabatan Pendidikan Tinggi, Kementerian Pendidikan Malaysia. ISBN : 978-983-3225-14-9.	
5.	<b>Norshahriah Wahab</b> , et.al. 2017. Buku Garis Panduan Pembangunan dan Penyampaian MOOC Malaysia. Jabatan Pendidikan Tinggi, Kementerian Pendidikan Malaysia. ISBN : 978-983-3225-10-1.	International
6.	<b>Norshahriah Wahab</b> , et.al. 2019. Kertas Polisi untuk Pembelajaran Teradun Gantian. Jabatan Pendidikan Tinggi, Kementerian Pendidikan Malaysia. MEIPTA. ISBN : 123-456-78901-2-3.	International

#### Proceeding Articles :

No.	Authors, year, title, publisher/conference, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> <li>• International</li> <li>• National</li> <li>• University</li> </ul>
1.	Rozita Hussain and <b>Norshahriah Abdul Wahab</b> . The 3 <sup>rd</sup> International Conference of Information & Communication Technology (ICICTM). 2021. The Chicken and Egg Dilemma for Malaysian Sustainable Development Plan Against Economic Development in Meeting SDG 13 Goals.	International
2.	Noorshaheeda Mohd Nor , <b>Norshahriah Abdul Wahab</b> . et.al. The 3 <sup>rd</sup> International Conference of Information & Communication Technology (ICICTM). 2021. A Study on Development of Light Weight Smart Life Buoy Prototype.	International
3.	A'tifah Hanim Rosli, <b>Norshahriah Abdul Wahab</b> , Kapt Syed Nasir Alsagoff and Mohd Rizal Mohd Isa. The 3 <sup>rd</sup> International Conference of Information & Communication Technology (ICICTM). 2021. Student's Preferences of Learning Materials During Unprecedented Online Learning due to Covid-19.	International
4.	LeenaAmbighai A/P Jayabalan, <b>Norshahriah Abdul Wahab</b> and Mohd Rizal Mohd Isa. The 3 <sup>rd</sup> International Conference of Information & Communication Technology (ICICTM). 2021. Comparative Study on Mixed Reality in Future Combat Visualization.	International
5.	Mohd 'Afizi Mohd Syukran, <b>Norshahriah Abdul Wahab</b> , et.al. The 3 <sup>rd</sup> International Conference of Information & Communication Technology (ICICTM). 2021. Pixel Value Graphical Password Scheme : K-Means as Graphical Password Fault Tolerance.	International

6.	Mohd Rizal Mohd Isa, <b>Norshahriah Abdul Wahab</b> , et.al. The 3 <sup>rd</sup> International Conference of Information & Communication Technology (ICICTM). 2021. Student Perception Study on Smart Campus : A Case Study on Higher Education Institutions.	International
7.	Rozita Hussain and <b>Norshahriah Abdul Wahab</b> . The 3 <sup>rd</sup> International Conference of Information & Communication Technology (ICICTM). 2021. What Artificial Intelligence (AI) Technology Can do to the Green Malaysian Automotive Environment? A Literature Analysis.	International
8.	<b>Norshahriah Abdul Wahab</b> , Amalina Farhi Ahmad Fadzlah, Mohd Lazim Talib, Suresh A/L Thanakodi.et.al. The 3 <sup>rd</sup> International Conference of Information & Communication Technology (ICICTM). 2021. Visual Analytics for Debris Detection using Drone Observations (VAL-Dr1) for Go Green Concept.	International
9.	Suresh A/L Thanakodi, Noorshaheeda Mohd Nor, <b>Norshahriah Abdul Wahab</b> , et.al. The 3 <sup>rd</sup> International Conference of Information & Communication Technology (ICICTM). 2021. Monitoring and Control Marine Activity using Intelligence System.	International
10.	Mohd Lazim Mohd Talib, <b>Norshahriah Abdul Wahab</b> , et.al. The 3 <sup>rd</sup> International Conference of Information & Communication Technology (ICICTM). 2021. Heterogeneous Bad Whether Image Enhancement Using Color Correction.	International
11.	<b>Norshahriah Abdul Wahab</b> , Ahmad Daniel Anuar, Amalina Farhi Ahmad Fadzlah, et.al. 4 <sup>th</sup> Inspirational Scholar Symposium (ISS). 2019. Hat Yai. Comparative Analysis of Social Media for Effectiveness in User Experience. eISBN : 978-967-16241-3-5.	International
12.	<b>Norshahriah Abdul Wahab</b> , Mohd Afif Asri, Amalina Farhi Ahmad Fadzlah, Mohd Rizal Mohd Isa, Mohd 'Afizi Mohd Shukran, et.al. 4 <sup>th</sup> Inspirational Scholar Symposium (ISS). 2019. Hat Yai. Model of Critical Success Factors in Military Training using Game Application Interface. eISBN : 978-967-16241-3-5.	International
13.	<b>Norshahriah Abdul Wahab</b> . 2018. Virtual Reality and Visualisation in Immersive Learning Environment (VR&V). Proceedings of International University Carnival on ELearning (IUCEL). eISBN : 978-967-2298-08-3.	International
14.	<b>Norshahriah Wahab</b> , et.al. 2018. Human Computer Interaction Principle – Designing With The Mind In Mind. International Conference on E-Learning (IUCEL). Proceedings. eISBN : 978-967-2298-08-3.	International

15.	Muhamad Lazim Talib, Mohamad Faizul Nasiruddin, Siti Nurul Huda Sheikh Abdullah, <b>Norshahriah Abdul Wahab</b> . 2018. Scattered Particles Removal in Single Image Based on Illumination Information using Technology of Hologram. International Conference on Visual Informatics (IVIC). Springer Verlag. Vol.7, No:4.29(2018).	International
16.	Nur Syafikin Shaheera Mat Zaini, <b>Norshahriah Wahab</b> , Syed Nasir Alsagoff. 2017. Methods of Evaluating the Usability of Human- Computer Interaction (HCI) Design in Mobile Devices for Search and Rescue (SAR) Operation. International Conference on Visual Informatics (IVIC). Springer Verlag. Publisher: <a href="http://www.springer.com">Springer International Publishing</a> Print ISBN: 978-3-319-70009-0 Electronic ISBN: 978-3-319-70010-6	International
17.	<b>Norshahriah Wahab</b> , Norul Zahrah Zainuddin, Suzaimah Ramli, NorAsiakin Hasbullah. 2016. Verification Of A Battlefield Visualization Framework In Military Decision Making Using Holograms Technology. International Conference on Information And Communication Technology (ICICTM). UniKL, Kuala Lumpur.  Year: 2016 Pages: 23 - 26, DOI: <a href="https://doi.org/10.1109/ICICTM.2016.7890770">10.1109/ICICTM.2016.7890770</a> <b>IEEE Conference Publications</b>	International
18.	Norul Zahrah Zainuddin, <b>Norshahriah Wahab</b> , NorAsiakin Hasbullah, Suzaimah Ramli. 2016. A Review on Cyber Bullying in Malaysia from Digital Forensic Perspective. International Conference on Information And Communication Technology (ICICTM). UniKL, Kuala Lumpur.  Year: 2016 Pages: 246 - 250, DOI: <a href="https://doi.org/10.1109/ICICTM.2016.7890808">10.1109/ICICTM.2016.7890808</a> <b>IEEE Conference Publications</b>	International
19.	<b>Norshahriah Wahab</b> , Halimah Badioze Zaman, Norul Zahrah Zainuddin, Suzaimah Ramli, NorAsiakin Hasbullah, Nur Syafikin Shaheera Bte Mat Zaini, Syed Nasir Alsagoff. 2016. The Multi-touch Technology to Support Critical Success Factors in Military Decision Making. International Conference on Defence and Security Technology. DSTC.	International
20.	NorAsiakin Hasbullah, <b>Norshahriah Wahab</b> , Norul Zahrah Zainuddin, Suzaimah Ramli. 2016. Lecturer Promotion Assessment System Based on Fuzzy Logic. International Conference on Information And Communication Technology (ICICTM). UniKL, Kuala Lumpur. pp. 19-22, DOI: 10.1109/ICICTM.2016.7890769.	International



21.	<b>Norshahriah Wahab</b> , Halimah Badioze Zaman, Nor Asiakin Hasbullah and Amalina Farhi Fadzlah. 2015. The Insight Of Touching Surface To Optimized Military Environment Through Visual Analytics Approach. KLTECH International Conference. Kuala Lumpur.	International
22.	Amalina Farhi Ahmad Fadzlah, <b>Norshahriah Wahab</b> , Mohamad Shamir Mohamad Darus, Muhammad Syukri Mohd Shuhaimi, Muhammad Amsyarul Amin Mustafar. 2015. Cadet Training Evaluation System Based on Android Mobile Platform. KLTECH International Conference. Kuala Lumpur.	International
23.	<b>Norshahriah Wahab</b> and Halimah Badioze Zaman. 2013. International Conference of Human Computer Interaction (HCI 2013) The Implementation of Multi-touch Table to support the Military Decision Making through Critical Success Factors (CSFs). Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). 2013;8007 LNCS(PART 4):523-529. 21-26 July 2013. Las Vegas, USA	International
24.	Muslihah, <b>Norshahriah</b> , Norfatimah et.al. 2009. Predicting NDUM Student's Academic Performance Using Data Mining Techniques. Proceedings 2nd International Conference on Computer and Electrical Engineering (ICCEE 2009). Dubai, UAE	International

**Presentation:**

No.	Event	Title of Paper Presented	Role (Keynote Speaker / Invited Speaker / Presenter)	Date	Organizer
1.	INTI International University Symposium	VR in Education of 4.0IR Society	Invited Speaker	24 Jun 2021	INTI International Symposium
2.	Centre for Teaching And Learning (CTL), UPNM	Hybrid Learning at UPNM	Invited Speaker	8 Oktober 2021	UPNM
3.	Online Training	<i>Demonstration on Filmora9 Video Editing &amp; Assignment</i>	Presenter	15 April 2020	Centre of Academic

		<i>Through Microsoft Teams</i>			Development, UPNM
4.	Online Training	<i>E-One technology Sharing</i>	Moderator	1 Jun 2020	Centre of Academic Development, UPNM
5.	Online Training	<i>Guideline for teaching and Learning using Online Platform during Covid-19 &amp; Easy and Free Screen-casting</i>	Presenter	14 Mei 2020	Centre of Academic Development, UPNM
6.	International University Carnival on E-Learning 2019	<i>Innovations of Virtual and Augmented Reality in the Education Landscape of IR4.0 Society</i>	Invited Speaker	21-22 Ogos 2019	UNIMAS, Sarawak

## ACADEMIC RECOGNITION AND LEADERSHIP, CONSULTANCY, SERVICE TO THE UNIVERSITY AND SERVICE TO THE COMMUNITY

### Academic Recognition and Leadership

No.	Academic Recognition	Year	Level	Awarding Body / Name of Institution
1.	Anugerah Kualiti Naib Canselor (Pengurusan dan Professional)	2021	University	Universiti Pertahanan Nasional Malaysia (UPNM)
2.	Anugerah Pekerja Cemerlang (APC)	2020	University	Universiti Pertahanan Nasional Malaysia (UPNM)
3.	Ahli Professional Technologist MBOT	2019	International	Lembaga Teknologis Malaysia

4.	Hak Cipta Aplikasi Visualisasi Berasaskan 'Geographical Information System' (Gis) Untuk Mengesan Tempat Jenayah	2019	University	Akta Hak Cipta 1987
5.	Gold Medal E-Learning Carnival (ELC)	2018	International	Universiti Teknikal Melaka (UTEM)
6.	Anugerah Pekerja Cemerlang (APC)	2016	University	Universiti Pertahanan Nasional Malaysia (UPNM)
7.	Hak Cipta Produk Geovisualization of Battlefield (GEBAT)	2016	University	Akta Hak Cipta 1987
8.	Geovisualization in Military Decision Making and Battlefield Tactics Using High Density Interaction (GEO-MBAT)	2016	International	International Exhibition "Ideas-Inventions-Novelties (EINA, Nuremberg, Germany)
9.	Gold Medal Geovisualization in Military Decision Making and Battlefield Tactics Using High Density Interaction (GEO-MBAT)	2016	International	International Engineering Invention And Innovation (i-ENVEX 2016), UniMAP
10.	Best Award in ICT Category Geovisualization in Military Decision Making and Battlefield Tactics Using High Density Interaction (GEO-MBAT)	2016	International	International Engineering Invention And Innovation (i-ENVEX 2016), UniMAP
11.	Bronze Medal Geovisualization of Battlefield Tactics Using Touching Surface (GeBAT) version 2.0	2016	International	Malaysia Technology Expo (MTE) 2016

12.	Attachment Program to Newcastle University, United Kingdom (UK)	3 months (2013)	International	MOHE
13.	Bronze Medal (Geovisualization of Battlefield Tactics using Touching Surface-GeBAT) <b>(Project Leader)</b>	2015	International	International Technology Exhibition (ITEX)
14.	Bronze Medal Dual Function of CCTV for Motion Detection and Energy Saving (Member)	2015	International	International Technology Exhibition (ITEX)
15.	Silver Medal (Geovisualization of Battlefield Tactics using Touching Surface-GeBAT) <b>(Project Leader)</b>	2015	National	DSS (Defense Security & Sustainability) Colloqium, UPNM
16.	Bronze Medal Digital Profiling Tool Based on Email Account for Digital Forensic Investigation (Member)	2015	National	DSS (Defense Security & Sustainability) Colloqium, UPNM
17.	Bronze Medal Detection System based on Motion (Member)	2015	National	DSS (Defense Security & Sustainability) Colloqium, UPNM
18.	Silver Medal Cadet Training Evaluation System Based on Android Mobile Platform (Member)	2015	National	UTEMEX (UTEM Exhibition)

### Consultancy work that benefited to the University

No.	Title	Year	Sponsor	Value	Duration
1.	Lantikan Ahli Jawatankuasa Majlis Ketua-ketua Penyelaras e-Pembelajaran IPTA Malaysia (MEIPTA)	2015-2021	Jabatan Pendidikan Tinggi	Wakil UPNM	2015-present
2.	Ahli Jawatankuasa Penasihat Sijil Teknologi Maklumat (STM) Kolej Komuniti Segamat 2 (KKS2)	2020	Jabatan Pendidikan Politeknik dan Kolej Komuniti, Kementerian Pengajian Tinggi	Wakil UPNM	2020-2022
3.	Panel Juru Audit Sistem Penilaian Kualiti Dan Kesetaraan Kolej Swasta Sesi 2016/2017 Tahun 2017	2017	KPT	Juru Audit MyQuest	April 2017
4.	Penilai Geran untuk Permohonan Geran Penyelidikan Khas Hiliran	2016	UPNM	Grant Application	-
5.	Technical Committee Program in International Conference on Advanced Electronic Science and Technology (AEST2016)	2016	AEST 2016	Committee of International Conference	-
6.	Paper Reviewer for Journal of Computer Assisted Learning (JCAL) JCAL-15-331	2016	JCAL	Paper Reviewer of International Journal	-

### Service to the University

No.	Position/Membership	Duration
1.	Director of Centre for Teaching and Learning (CTL)	2021-present

2.	Head of Virtual Reality (VR) Computer Lab	2020-present
3.	Head of Creative Media Computer Lab (CREAM LAB)	2020-present
4.	University E-Learning Coordinator	2015-2021
5.	Chief of Cluster for Design and Innovation Competition (NASDET) and Steering Committee	29 Mac 2017
6.	Programme Director of Majlis Perasmian Logo MOOC UPNM and Signing OpenLearning Ceremony	5 Disember 2016
7.	Deputy Director of Programme, Kuala Lumpur Science Engineering Fair (KLSEF)	4-6 November 2016
8.	Ahli Jawatankuasa Cluster Information Communication Technology (ICT)	2015-2016
9.	Ahli Jawatankuasa Etika Penyelidikan UPNM	2016
10.	Secretariat of International Conference on Information Communication and Technology (ICICTM)	2015
11.	Main and Technical Committee of International Conference on Visual Informatics (IVIC)	2009-Present
12.	Program Coordinator of Massive Online Open Course (MOOC) Program	2015

### Service to the community

No.	Organization	Role	Start Date	End Date	Level
1.	Reviewer of Group Project for System Analysis and Design	Reviewer	4 September 2020	-	Faculty

2.	STEM (Science, Technology, Engineering and Mathematics) Project With Politeknik Tun Syed Nasir Ismail at Pagoh, Johor	Steering Committee	Early 2020	-	University
3.	Jawatankuasa Kurikulum Diploma Digital Information Technology	Steering Committee	2016	-	University
4.	Jury for National Innovative Smartphone Controller Contest	Panel of Jury	2016	-	University
5.	Jury for Competition of Invention, Innovation & Design on E-Learning, International University Carnival on E-Learning (IUCEL)	Panel of Jury	2016	-	University
6.	Paper Reviewer <i>International Conference on Visual Informatics (IVIC)</i>	Reviewer	2009,2011,2013 and 2015, 2017, 2019, 2021	-	University