



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

**JABATAN PENDAFTAR**  
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**CURRICULUM VITAE**



<b>I. PERSONAL PARTICULARS</b>	
<b>Name</b>	AHMAD FARID BIN MOHD AZMI (Ph.D)
<b>Current Position Faculty / Department</b>	DEPUTY DIRECTOR (RESEARCH AND POSTGRADUATES) CENTRE FOR DEFENSE FOUNDATION STUDIES  SENIOR LECTURER (DS52) / CHEMISTRY AND BIOLOGY DEPARTMENT, CENTRE FOR DEFENSE FOUNDATION STUDIES, NATIONAL DEFENSE UNIVERSITY OF MALAYSIA, MALAYSIA (NDUM)

**II. ACADEMIC AND PROFESSIONAL QUALIFICATIONS**

(Please list all academic qualifications, from your first degree, in chronological order)

Year	Degree	Discipline	University
2019	Doctor of Philosophy (Ph.D)	Food Biochemistry	University of Leeds, UK
2009	Master of Science (M.Sc)	Food Biotechnology	University of Leeds, UK
2007	Bachelor of Science (Honors) (B.Sc)	Biology	University of Leeds, UK

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

Degree	TITLES OF POSTGRADUATE THESES
Ph.D	Cyanogenic glycosides in cassava
M.Sc	Setting up an immunoassay for an egg protein (ovalbumin); application to detection at surfaces (cleaning).

**IV. WORK EXPERIENCE (Please list your relevant experience in chronological order)**

Year	Position	Organisation	Start and End Date
2020-ongoing	Senior Lecturer (DS52)	Chemistry and Biology Department, NDUM, Malaysia	15/9/2020 – ongoing
2018 – 2020	Lecturer (DS45)	Chemistry and Biology Department, NDUM, Malaysia	6/7/2018 – 14/09/2020
2015 - 2018	Lecturer (DS45 - Study Leave)	School of Food Science and Nutrition, University of Leeds, United Kingdom	1/1/2015 – 27/06/2018
2010 - 2014	Lecturer (DS45)	Chemistry and Biology Department, NDUM, Malaysia	15/6/2010 – 31/12/2014
2009 - 2010	Tutor (DA41)	Chemistry and Biology Department, NDUM, Malaysia	15/10/2009 – 14/6/2010

## 1.0 TEACHING AND SUPERVISION

### 1.1 Postgraduate Courses

(Please list in chronological order and state: course title, semester and year)

No.	Course Title	Semester	Year
1.	Research Methodology: Literature Review	1	2021

### 1.2 First Degree Courses

(Please list in chronological order and state: course title, semester and year)

No.	Course Title	Semester	Year

### 1.3 Diploma Courses

(Please list in chronological order and state: course title, semester and year)

No.	Course Title	Semester	Year

## 1.4 Pre-Degree Courses

(Please list in chronological order and state: course title, semester and year)

No.	Course Title	Semester	Year
1.	FKA 0241 Chemistry Lab II	II	2009/2010
2.	FQA 0423 Biology II	I	2010/2011
3.	FKA 0223 Chemistry II	I	2010/2011
4.	FQA 0423 Biology IV	II	2010/2011
5.	FQA 0432 Biology Lab I	III	2010/2011
6.	FQA 0413 Biology I	I	2011/2012
7.	FQA 0423 Biology II	II	2011/2012
8.	FQA0453 Biology IV	III	2011/2012
9.	FBY 0416 Biology I	I	2012/2013
10.	FBY 0426 Biology II	II	2012/2013
11.	FBY 0416 Biology I	I	2013/2014
12.	FBY 0426 Biology II	II	2013/2014
13.	FBY 0416 Biology I	I	2014/2015
14.	FBY 0416 Biology I	I	2018/2019
15.	FBY 0426 Biology Lab II	II	2018/2019
16.	FBY 0416 Biology I	I	2019/2020
17.	FBY 0426 Biology II	II	2019/2020
18.	FBY 0416 Biology I	I	2020/2021
19.	FBY 0426 Biology II	II	2020/2021
20.	FBY 0416 Biology I	I	2021/2022
21.	FBY 0426 Biology II	II	2021/2022
22.	FBY 0416 Biology I	I	2022/2023

### 1.5 PhD Supervision

(Please list in chronological order)

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.	Mohd Haziq bin Kahar	Psychological and Biochemical Profiles and Its Relationship with Performance Among Military Personnel	5 December 2016	Co-Supervision	In-progress	NDUM

### 1.6 PhD External/Internal Examination

(Please list in chronological order)

No.	Name of Student	Project Title	External / Internal	Date of Viva	University

### 1.7 MSc (by Research)

(Please list in chronological order)

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.	Vayithiswary A/P Kannan	Development of Electrochemical Sensor Based on Reduced Graphene Oxide Modified Electrode for Detection of Cortisol	9 July 2019	Main	Completed	UPNM
2.	Kapt. Mohd Nurhisyam bin Iliyas	Kinetics and Mechanism of Cationic Dye	2012 -2014	Co-supervision	Completed	UPNM

		Removal by Modified Palm Kernel				
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### 1.8 MSc External/Internal Examination

(Please list in chronological order)

No.	Name of Student	Project Title	External / Internal	Date of Viva	University

### 1.9 Supervision (Postgraduate Research Project or Final Year Research Project)

(Please list in chronological order)

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>
1.	Muhammad Afiq bin Mohd Ridhwan	Entrepreneurial Ecosystem within Organisation: A Perspective in How Employer Encourage Innovation Between Academic and Private Sector	2014 -2015	Co-supervision	Completed
2.	Nur Ahmad Zaim bin Zahari	Menjalankan Kajian Bagaimana Imbuhan Dapat Mempengaruhi Prestasi Setiap Pekerja	2014 - 2015	Co-supervision	Completed

## 2.1 RESEARCH, PUBLICATION AND PRESENTATION

### 2.1 Research Projects

(Please list in chronological order and state: title, list of researchers, grant/year, source/amount and status)

No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
1.	Design of Hybrid Carbon Nanotube/Polythiophene Based Chemiresistive Sensor for VX-Type Nerve Agent Simulant	Assoc. Prof Dr. Norhana binti Abdul Halim (Principal)  Prof Emeritus Dato' Dr. Wan Md. Zin bin Wan Yunus Lt. Kol. Prof. D. Victor Feizal bin Abd Shattar Knight (B) Kol. Prof. Ir. Dr. Norazman bin Mohammad Nor Mej. Prof. Dr. Zu Azhan bin Yahya Lt. Kol. Prof. Madya Ariffin bin Ismail Dr. Siti Zulaikha binti Ngah Demon Dr. Norli binti Abdullah <b>Dr. Ahmad Farid bin Mohd Azmi</b>	1 April 2018 – 31 Mac 2020	<b>UPNM/2018/CHEMDEF/ST/3</b>  <b>RM 200,000</b>	Completed
2.	Investigation of Electrochemical Behaviour of Pyocyanin based Graphene Nanocomposite-Modified Electrode for Potential Application in Diagnostic of Pseudomonas Aeruginosa Infections	Dr. Jahwarhar Izuan bin Abdul Rashid  Prof. Dr. Nor Azah binti Yusof Prof. Dr. Ong Keat Khim Prof. Madya Dr. Azizi Miskon Prof. Madya Dr. Aye Aye Mon Dr. Siti Aminah binti Mohd Noor Dr. Safura binti Taufik <b>Dr. Ahmad Farid bin Mohd Azmi</b>	15 Ogos 2017 – 14 Februari 2020	<b>R0080 – FRGS/1/2017/STG03/UPNM/03/1</b>  <b>RM78,200</b>	Completed

No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
3.	Psychological Fitness and Morale Among Infantry Personnel and Development of Nanotechnology-Based Biosensor and Morale Framework	<b>Dr. Ahmad Farid bin Mohd Azmi (Principal)</b>  Prof. Dr. Ainsah bt Omar Prof Dato' Dr. Wan Md Zin bin Wan Yunus	16 Disember 2013 – 16 Mac 2019	<b>NRGS/2013/UPNM /PK/P4</b>  <b>RM 1,633,120</b>	Completed
4.	Mechanisms of Obesity: Examining The Obesity Profiles, Psychological and Biochemical Factors and Their Interactions Among Military Personnel	Prof. Ainsah bt Omar (Principal)  Prof Dr. Osman bin Che Bakar <b>Dr. Ahmad Farid bin Mohd Azmi</b>	16 Disember 2013 – 16 Disember 2016	<b>FRGS/2/2013/SKK09/UPNM/01/1/1</b>  <b>RM 147,000</b>	Completed
5.	The Links Between Level of Stress, Stress Markers, Brain Derived Neurotrophic Factor (BDNF) Towards Academic Achievement Among Students in a University	<b>Dr. Ahmad Farid bin Mohd Azmi (Principal)</b>  Prof. Dr. Ainsah bt Omar Assoc. Prof. Dr Justin Gnanou Assoc. Prof. Dr. Brinnel Caszo Dr. Igor Khalin	1 September 2013 – 31 August 2015	<b>RAGS/2013/UPNM /SKK/01/1</b>  <b>RM 72,500</b>	Completed
6.	The Simultaneous Adsorption and Photocatalytic Degradation of Crude Oil Using Electrospun P(3HB)-TiO <sub>2</sub> Nanocomposite Fibers	Dr. Nanthini Sridewi A/P Appan (Principal)  Prof. Dr. K. Sudesh Kumar (USM) Assoc. Prof. Dr. Noor Azilah Mohd Kasim <b>Dr. Ahmad Farid bin Mohd Azmi</b>	1 May 2013 – 30 April 2015	<b>FRGS/1/2013/SG05 /UPNM/03/1</b>  <b>RM 79,127</b>	Completed



No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
7.	Chemical Security Improvement Grant (CSIG)  (International Grant)	Prof. Dato' Wan Md Zin bin Wan Yunus (Principal)  Assoc. Prof. Dr. Ong Keat Khim Dr. Norli bt Abdullah Maj. Madinah bt Jaafar Md Ariff Nor Laili-Azua bt Jamari Syed Mohd Shafiq bin Syed Ahmad Mohd Junaedy bin Osman <b>Dr. Ahmad Farid bin Mohd Azmi</b>	1 February 2015 – 31 January 2016	<b>CRDF Global (US Department of State)</b>  <b>GTR2-14-61044-0 / S-LMAQM-13-CA-1301</b>  <b>\$19,521.00</b>	Completed
8.	Development of Field Test Kit for Detection of Arsenic in Drinking Water.	Assoc. Prof. Dr Ong Keat Khim (Principal)  Noor Azilah Mohd Kassim Siti Hasnawati Jamal Norherdawati Kasim Kapt. (B) IR Neza Ismail Zuliziana Suif <b>Dr. Ahmad Farid bin Mohd Azmi</b>	1 July 2009 – 30 June 2011	<b>UPNM-JPB-02</b>  <b>RM 15,000</b>	Completed

## 4.2 Publications

### 2.2.1 Academic Journal

(Please list in chronological order and state: authors, year, title, publisher/journal, volume and number of pages (Please bold your name))

No.	Authors, year, title, publisher/journal, volume and number of pages (Please bold your name)	Type of Journal • ISI • SCOPUS • Peer-Reviewed
1.	R.A.A Rusdi, N.A Halim, N.M. Nurazzi, Z.H.Z. Abidin, N. Abdullah, F.C. Ros, N. ahmad, <b>A.F.M. Azmi</b> (2022). Pre-treatment Effect on The Structure of Bacterial Cellulose from Nata de Coco ( <i>Acetobacter xylinum</i> ), <i>Polymery</i> 67(3). 110-118.	SCOPUS (Q3) 2022
2.	R.A.A Rusdi, N.A Halim, N.M. Nurazzi, Z.H.Z. Abidin, N. Abdullah, F.C. Ros, N. ahmad, <b>A.F.M. Azmi</b> (2022). The Effect of Layering Structures on Mechanical and Thermal Properties of Hybrid Bacterial Cellulose/Kevlar Reinforced Epoxy Composites, <i>Heliyon</i> (8) e09442.	SCOPUS (Q1) 2022
3.	Norizan M Nurazzi, Norli Abdullah, Siti ZN Demon, Norhana A Halim, <b>Ahmad FM Azmi</b> , Victor F Knight and Imran S Mohamad (2021). The Frontiers of Functionalized Graphene-Based Nanocomposites as Chemical Sensors, <i>Nanotechnology Reviews</i> , 10(1), 330-369.	SCOPUS (Q1) 2021
4.	Siti Zulaikha Ngah Demon, Ainnur Izzati Kamisan, Norli Abdullah, Siti Aminah Mohd Noor, Ong Keat Khim, Noor Azilah Kasim, Muhd Zu Azhan Yahya, Nor Azlian Abdul Manaf, <b>Ahmad Farid Mohd Azmi</b> , and Norhana Abdul Halim (2020). Graphene-based Materials in Gas Sensor Applications: A Review, <i>Sensors and Materials</i> , <b>32(2)</b> , 759-777.	SCOPUS (Q3) 2020
5.	<b>Ahmad Farid Mohd Azmi</b> , Vayithiswary Kannan, Nur Sabila Yasin, Jahwarhar Izuan Abdul Rashid, Ainsah Omar and Emee Marina Salleh (2020). Effect of Time and Temperature On Reduced Graphene Oxide (rGO) Layer Stability and Cyclic Voltammetric Behaviour of Modified Screen-Printed Electrode (mSPCE) for Biosensing Purposes, <i>Malaysian Journal of Analytical Sciences</i> . (Accepted)	SCOPUS (Q4) (accepted) 2020
6.	<b>Ahmad Farid Mohd Azmi</b> , Muhammad Hafiz Ahmad, Jahwarhar Izuan Abd Rashid, Ainsah Omar, Emee Marina Salleh (2019). Modification of Gold Electrodes using Reduced Graphene Oxide for Cortisol Electrochemical Biosensor, <i>Biotechnology and Applied Biochemistry</i> . (Accepted)	SCOPUS (Q2) (accepted) 2019

7.	<b>Ahmad Farid Mohd Azmi</b> , Jahwarhar Izuan Abd Rashid, Ainsah Omar, Eme Marina Salleh (2019). Optimized Conditions of Modified Reduced Graphene Oxide-Screen Printed Carbon Electrode (rGO-SPCE) Biosensor for Cortisol Detection in Human Blood, <i>Materials Chemistry and Physics</i> . (submitted)	SCOPUS (Q2) (submitted) 2019
8.	Ong Keat Khim, Madihah Zainuddin, Nor Azah Yusof, Wan Md Zin Wan Yunus, <b>Ahmad Farid Mohd Azmi</b> , Development of a Simple, Inexpensive and Environmental Friendly Arsenic (III) Detection Kit, (2015), <i>Environmental Engineering and Management</i> , <b>15(8)</b> , 1963-1968.	SCOPUS (Q3) 2015
9.	Ong Keat Khim, Leong Jin Hoong, Wan Md Zin Wan Yunus, Anwar Fitrianto, Teoh Chin Chuang, Abdul Ghapor Husin, Mansor Ahmad, <b>Ahmad Farid Mohd Azmi</b> , (2015). Effects of Test Paper Drying and Reaction Periods on Silver ion-Arsine Complex Color Development for a Simple and Rapid Arsenic (V) Determination, <i>Malaysian Journal of Analytical Sciences</i> , <b>19(6)</b> , 1164-1170.	SCOPUS (Q4) 2015
10.	Ong Keat Khim, Madihah Zainuddin, Nor Azah Yusof, Wan Md Zin Wan Yunus, <b>Ahmad Farid Mohd Azmi</b> , (2014). Development of Simple and Cost Effective Arsenic (III) Detection Method, <i>ZULFAQAR International Journal of Defence Science, Engineering &amp; Technology</i> . (Accepted)	PEER-REVIEWED 2014
11.	Ong Keat Khim, Ahmad Farhan Ahmad Tarmizi, Wan Md Zin Wan Yunus, Mohd Safidin Kashim, Anwar Fitrianto, Abdul Ghapor Husin, <b>Ahmad Farid Mohd Azmi</b> , (2014). Effects of Contact Period and Adsorbent Dosage on Zn (II) Ion Removal by Thermally Treated Rice Husk, <i>ZULFAQAR International Journal of Defence Science, Engineering &amp; Technology</i> . (Reviewed)	PEER-REVIEWED 2014

### 2.2.2 Book/Chapter in Book:

(Please list in chronological order and state: authors, year, title, publisher, volume and number of pages  
(Please bold your name)

No.	Authors, year, title, publisher, volume and number of pages (Please bold your name)	Level • International • National • University
1.	Norli Abdullah, Norhana Abdul Halim, Nur Aisyah Fataf, Nor Hazimah Abd Aziz, Jahwarhar Izuan Abdul Rashid, Safura Taufik, Nurul Hazwani Aminuddin Rosli, Fadhlina Che Ros, Mazlinda Ibrahim, Nor Azlian Abdul Manaf, Fadhlul Wafi Badrudin, Fazilatulaili Ali, <b>Ahmad Farid Mohd Azmi</b> , (2020), Research & Innovation @ Asasi (RIA), 2 <sup>nd</sup> Edition, Penerbit UPNM (ISSN 2710-575X)	University
2.	Norli Abdullah, Norhana Abdul Halim, Nur Aisyah Fataf, Nor Hazimah Abd Aziz, Jahwarhar Izuan Abdul Rashid, Safura Taufik, Nurul Hazwani Aminuddin Rosli, Fadhlina Che Ros, Mazlinda Ibrahim, Nor Azlian Abdul Manaf, Fadhlul Wafi Badrudin, Fazialtulaili Ali, <b>Ahmad Farid Mohd Azmi</b> , (2019), Research & Innovation @ Asasi (RIA), 1 <sup>st</sup> Edition, Penerbit UPNM (ISSN 2710-575X)	University
3.	Hidayati Hamdan, <b>Ahmad Farid Mohd Azmi</b> , (2019). Laboratory Manual: Biology, Semester I, UPNM	University
4.	Hidayati Hamdan, <b>Ahmad Farid Mohd Azmi</b> , (2019). Laboratory Manual: Biology, Semester II, UPNM	University
5.	Hidayati Hamdan, <b>Ahmad Farid Mohd Azmi</b> , (2018). Laboratory Manual: Biology, Semester I, UPNM	University
6.	Hidayati Hamdan, <b>Ahmad Farid Mohd Azmi</b> , (2018). Laboratory Manual: Biology, Semester II, UPNM	University
7.	Hidayati Hamdan, <b>Ahmad Farid Mohd Azmi</b> , (2013). Laboratory Manual: Biology, Semester I, UPNM	University
8.	Hidayati Hamdan, <b>Ahmad Farid Mohd Azmi</b> , (2013). Laboratory Manual: Biology, Semester II, UPNM	University
9.	<b>Ahmad Farid Mohd Azmi</b> , Ong Keat Khim, Siti Hasnawati Binti Jamal, Norherdawati Kasim, Syed Mohd Shafiq Syed Ahmad, (2011). Determination	University

	of Energy Expenditure of MAF Personnel by Doubly Labeled Water Method, <i>Research Times PAP</i> , UPNM	
10.	<b>Ahmad Farid Mohd Azmi</b> , Dr Ong Keat Khim, Syed Mohd Shafiq Syed Ahmad, (2011). Allergen Detection on Surfaces, <i>Research Times PAP</i> , UPNM	University
11.	Hussain Long, Norherdawati Kassim, Madinah Jaafar Mad Arif, <b>Ahmad Farid Mohd Azmi</b> , Syed Mohd Shafiq Syed Ahmad, (2010). Chemistry II Students Module, UPNM	University

### 2.2.3 Proceeding Articles :

(Please list in chronological order and state: authors, year, title, publisher/conference, volume and number of pages (Please bold your name))

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.	<b>Ahmad Farid Mohd Azmi</b> , Jahwarhar Izuan Abdul Rashid, Vayithiswary Kannan, Muhammad Hafiz Ahmad, Ainsah Omar, Eme Marina Salleh (2019). Modification of Gold Electrodes using Reduced Graphene Oxide for Cortisol Electrochemical Biosensor. In 7 <sup>th</sup> International Conference on Solid State Science and Technology, Everly Putrajaya, 11-13 November 2019, (ICSSST2019-109).	International
2.	<b>Ahmad Farid Mohd Azmi</b> , Michael R. A. Morgan, Caroline Orfila, (2017), Cyanogenic glycoside content in fresh cassava and processed products commercially available in the UK, (4 <sup>th</sup> International Conference on Humanities, Social Sciences & Technologies, University of Leeds, United Kingdom)	International
3.	<b>Ahmad Farid Mohd Azmi</b> , Michael R. A. Morgan, Caroline Orfila, (2017), Cyanogenic glycoside content in fresh cassava and processed products commercially available in the UK, (4 <sup>th</sup> Annual Food Science & Nutrition PhD Conference 2017, University of Leeds, United Kingdom)	International
4.	<b>Ahmad Farid Mohd Azmi</b> , Michael R. A. Morgan, Caroline Orfila, (2016), Raising Monoclonal Antibodies Against Linamarin, a Cyanogenic Glycoside in Cassava, (3 <sup>rd</sup> Annual Food Science and Nutrition PhD Conference 2016, University of Leeds, United Kingdom)	International

5.	<b>Ahmad Farid Mohd Azmi</b> , Michael R. A. Morgan, Caroline Orfila, (2015), Raising Polyclonal Antibodies Against Linamarin, a Cyanogenic Glycoside in Cassava, ( <i>2<sup>nd</sup> Annual Food Science and Nutrition PhD Conference 2015, University of Leeds, United Kingdom</i> )	International
6.	Ong Keat Khim, Leong Jin Hoong, Wan Md Azin Wan Yunus, Anwar Fitriano, Teoh Chin Chuang, Abdul Ghapor Husin, Mansor Ahmad, <b>Ahmad Farid Mohd Azmi</b> , (2014), Effects of Reaction Period on Arsenic (V) Determination Performance of a Developed Arsenic Test Kit. ( <i>Kolokium Sains dan Teknologi UPNM</i> )	University
7.	Ong Keat Khim, Ahmad Farhan Ahmad Tarmizi, Wan Md Zin Wan Yunus, Mohd Safidin Kashim, Anwar Fitriano, Abdul Ghapor Husin, <b>Ahmad Farid Mohd Azmi</b> , (2013), Effects of Contact Period and Adsorbent Dosage on Zn (II) Ion Removal by Thermally Treated Rice Husk. ( <i>Kolokium Sains dan Teknologi UPNM</i> )	University
8.	Ong Keat Khim, Ahmad Farhan Ahmad Tarmizi, Wan Md Zin Wan Yunus, Mohd Safidin Kashim, Anwar Fitriano, Abdul Ghapor Husin, <b>Ahmad Farid Mohd Azmi</b> , (2013), Sorption Kinetics of Zn (ii) Ion by Thermally Treated Rice Husk. ( <i>International Conference on Mathematics, Engineering and Industrial Applications 2014</i> )	International
9.	Ong Keat Khim, Ahmad Farhan Ahmad Tarmizi, Wan Md Zin Wan Yunus, Mohd Safidin Kashim, Anwar Fitriano, <b>Ahmad Farid Mohd Azmi</b> , (2013), Preparation and Characterization of Thermally Treated Rice Husk. ( <i>Prosiding Seminar Kebangsaan Aplikasi Sains dan Matematik 2013</i> )	National
10.	Ong Keat Khim, Madihah Zainuddin, Teoh Chin Chuang, Nor Azah Yusof, Neza Ismail Ahmad Mujahid Ahmad Zaidi, <b>Ahmad Farid Mohd Azmi</b> , (2011), Arsenic (III) Detection in Water for Agricultural Application. ( <i>National Horticulture Conference 2011</i> )	National

### 2.3 Presentation:

(Please list in chronological order)

No.	Event	Title of Paper Presented	Role (Keynote Speaker / Invited Speaker / Presenter)	Date	Organizer
1.	Creations De UiTM	Ohsem Biodiversity Board Game (OBBG)	Presenter (Silver Medal)	24 March - 8 April 2022	UiTM
2.	Malaysia Technology Expo (MTE) 2022	Simple and Portable Acephate (organophosphate insecticide and simulant nerve agent) Detection System	Team Member (Gold Award)	21-25 March 2022	MTE
3.	PIITRAM 2022	Ohsem Biodiversity Board Game (OBBG)	Presenter (Silver Medal)	2 – 8 March 2022	UPNM
4.	PIITRAM 2021	Whoopee Organo Troop: Informative Card Game for Pre-University Organic Chemistry	Team Member (Bronze Award)	7 – 15 March 2021	UniSZA & UMT
5.	Final Year Project & Postgraduate: Research & Innovation Poster Competition (RIPC Series 1/2021)	Electrochemical Detection of Cortisol based on Reduced Graphene Oxide Modified Screen Printed Electrode (rGO-SPCE)	Lead Inventor/Main Supervisor (Gold Award)	1 March 2021	MNNF Network
6.	Thesis in 5 Minutes Series 1/2021 – MNNF Network	Electrochemical Detection of Cortisol based on Reduced Graphene Oxide Modified Screen Printed Electrode (rGO-SPCE)	Lead Inventor/Main Supervisor (Diamond Award)	1 March 2021	MNNF Network
7.	International Trade Fair – Ideas-Inventions-New Products (iENA 2019)	Stress-DeT	Lead Inventor/Product Presenter (Bronze Award)	31 Oktober – 4 November 2019	AFAG Messen und Ausstellungen GmbH
8.	International Conference and Exposition on Inventions by Institutions of Higher	Stress-DeT	Lead Inventor/Product Presenter (Gold Award) Business Pitching	22-23 <sup>rd</sup> September 2019	Universiti Tun Hussein Onn (UTHM) dan Kementerian

	Learning 2019 (PECIPTA 2019)				Pendidikan Malaysia
9.	Defence, Security and Sustainability 2019 (DSS 2019) Exhibition	Portable Stress Biosensor	Lead Inventor (Gold Award)	25 <sup>th</sup> April 2019	Universiti Pertahanan Nasional Malaysia (UPNM)
10.	Defence, Security and Sustainability 2019 (DSS 2019) Exhibition	Rational Design of Hybrid f-MWCNT/P3HT Based Chemiresistor for Detection of Chemical Warfare Agent (CWA)	Co-inventor (Bronze Award)	25 <sup>th</sup> April 2019	Universiti Pertahanan Nasional Malaysia (UPNM)
11.	International Invention, Innovation and Technology Exhibition (ITEX) 2018	Portable Stress Biosensor	Co-inventor (Gold Award)	10-12 <sup>th</sup> May 2018	MINDS dan CIS Network Sdn Bhd.
12.	4 <sup>th</sup> International Conference on Humanities, Social Sciences & Technologies 2017	Cyanogenic glycoside content in fresh cassava and processed products commercially available in the UK	Co-organizer / Poster Presenter (2 <sup>nd</sup> place)	25 – 26 <sup>th</sup> November 2017	Universiti Sains Islam Malaysia (USIM) dan Leeds University Malaysian Society (LUMSOC)
13.	4 <sup>th</sup> Annual Food Science and Nutrition PhD Conference 2017	Cyanogenic glycoside content in fresh cassava and processed products commercially available in the UK	Poster Presenter (3 <sup>rd</sup> place)	22 November 2017	School of Food Science & Nutrition, University of Leeds, UK
14.	3 <sup>rd</sup> Annual Food Science and Nutrition PhD Conference 2016	Raising Monoclonal Antibodies Against Linamarin, a Cyanogenic Glycoside in Cassava	Oral Presenter	17 November 2016	School of Food Science & Nutrition, University of Leeds, UK
15.	2 <sup>nd</sup> Annual Food Science and Nutrition PhD Conference 2015	Raising Polyclonal Antibodies Against Linamarin, a Cyanogenic Glycoside in Cassava	Poster Presenter (1 <sup>st</sup> place)	16 November 2015	School of Food Science & Nutrition, University of Leeds, UK
15.	National Horticulture Conference 2011	Arsenic (III) Detection in Water for Agricultural Application	Poster Presenter	18-20 Oktober 2011	MARDI, Malaysia

### 3.0 ACADEMIC RECOGNITION AND LEADERSHIP, CONSULTANCY, SERVICE TO



## THE UNIVERSITY AND SERVICE TO THE COMMUNITY

### 3.1 Academic Recognition and Leadership

Academic recognition and leadership such as Academic Award, Academic Assessor/ /Promotion Assessor (External), Visiting Professor/Fellowship, Editorial Board and other academic recognition.

No.	Academic Recognition	Year	Level	Awarding Body / Name of Institution
1.	Silver Medal (Ohsem Biodiversity Board Game)	2022	National	Creations de UiTM (CDU) 2022
2.	Gold Medal (Acephate Detection System)	2022	National	Malaysian Technology Expo (MTE)
3.	Silver Medal (Ohsem Biodiversity Board Game)	2022	National	PIITRAM2022 by UPNM
4.	Sijil Penghargaan Prestasi Cemerlang 2021	2021	University	UPNM
5.	Bronze Award (Whoopee Organo Troop)	2021	National	PIITRAM2021 by UnisZA & UMT
6.	Diamond & Gold Award (T5M & RIPC Series 1/2021)	2021	National	MNNF Network
7.	Anugerah Perkhidmatan Cemerlang (APC)	2020	University	UPNM
8.	Sijil Penghargaan Prestasi Cemerlang	2019	University	UPNM
9.	Sijil Penghargaan Prestasi Cemerlang	2018	University	UPNM
10.	Bronze Award (Stress-DeT)	2019	International	International Trade Fair Ideas Invention New Products (iENA 2019)

11.	Gold Award (Stress-DeT)	2019	International	International Conference and Exposition on Inventions by Institutions of Higher Learning 2019 (PECIPTA 2019)
12.	Gold Award (Portable Stress Biosensor)	2019	National	Defence, Security and Sustainability 2019 (DSS 2019) Exhibition
13.	Bronze Award (Chemical Sensor)	2019	National	Defence, Security and Sustainability 2019 (DSS 2019) Exhibition
14.	Skim Insentif Hasil Penyelidikan dan Inovasi UPNM	2019	University	UPNM
15.	Olahragawan Paling Aktif	2019	Department	PAP, UPNM
16.	Sijil Penghargaan Prestasi Cemerlang	2018	University	UPNM
17.	Gold Award (Portable Stress Biosensor)	2018	International	International Invention, Innovation and Technology Exhibition (ITEX) 2018
18.	Sijil Penghargaan Perkhidmatan Cemerlang	2012	Department	PAP, UPNM
19.	Anugerah Perkhidmatan Cemerlang (APC)	2011	University	UPNM

### 3.2 Consultancy work that benefited to the University.

(Please list in chronological order and state: title, year, sponsor, value and duration of consultancy)

No.	Title	Year	Sponsor	Value	Duration
1.	Technical Halal Auditor, ARK Halal Certification Authority	2016 – Present	ARK Halal Certification Authority	Based on the job scope	Ongoing
2.	Pemeriksa Skrip Jawapan Biologi PSPM KPM	2011	KPM	-	2011
3.	Ahli Jawatankuasa Pembangunan Program Diploma Keuruteraan Peluru UPNM	2011	-	-	1 year
4.	Ahli Jawatankuasa Pelan Strategik dan Hala Tuju Pusat Asasi Pertahanan	2012	-	-	6 months
5.	Ahli Jawatankuasa Program Penerbitan Buku Panduan Akademik Pusat Asasi Pertahanan	2011	-	-	6 months
6.	Ahli Jawatankuasa Merangka Kurikulum Program Asasi Perubatan Pertahanan	2010-2011	-	-	1 year

### 3.3 Service to the University

Service to the university such as Vice Chancellor/Deputy Vice Chancellor/Dean/Director, Deputy Dean/Deputy Director/Unit Coordinator/Hostel Warden, Programme Chairperson/ Assistant Warden/Fellow. Representing University in Sports and Other Non-Academic Activities. Professional/Academic Association (Committee Member).

(Please list in chronological order and state: position/membership and duration)

No	Position/Membership	Committee	Duration
1.	Deputy Director (Research & Postgraduate)	Centre for Defence Foundation Studies	01 January 2022 – 31 December 2024
2.	Deputy Director (Academic & Undergraduate)	Centre for Defence Foundation Studies	01 June 2019 – 31 December 2021
3.	Cokmar Bearer	Istiadat Konvokesyen UPNM	2022
4.	PAP representative (athlete)	Kejohanan Olahraga Staf Antara FPJB UPNM kali ke-3	13 – 15 Februari 2019
5.	Head of Contingent	ASASI UPNM Contingent to Sukan Asasi Malaysia ke-3, Unimas, Sarawak	16 – 19 Januari 2020
6.	Moderator	Hari Akademia Peringkat Pusat Asasi Pertahanan	25 Oktober 2019
7.	Member of Committee	Majlis Tabung Amanah HEPA	01 June 2019 – 31 December 2021
8.	Member of Committee	Jawatankuasa Pembangunan dan Pengurusan Akademik (JPPA) UPNM	01 June 2019 – 31 December 2021
9.	Coordinator	Jawatankuasa Pendaftaran dan Pembelajaran Dalam Talian (JKPPDT) PAP	01 June 2019 – 31 December 2021
10.	Chairperson	Jawatankuasa Perwakilan Pelajar Asasi	20 September 2019 – ongoing

11.	Member of Editor (Achievements)	Jawatankuasa Penulisan Buku Berkaitan Asasi	8 November 2019 - ongoing
12.	Member of Committee (Media and Promotion)	7 <sup>th</sup> International Conference on Solid State, Science & Technology Organizing Committee (2019)	15 March 2019 – 13 November 2019
13.	PAP representative (athlete)	Kejohanan Olahraga Staf Antara FPJB UPNM kali ke-3	13 – 15 Februari 2019
14.	Member of Committee (Design and Graphics)	CDFS Research Bulletin Committee (1 <sup>st</sup> Edition)	07 December 2018 – 20 December 2019
15.	Member of Committee (MC)	Research Environment Among Department (READ) Committee	16 October 2018 – ongoing
16.	Facilitator (Biology)	STEM 'Training of Trainers' 2018	17 – 18 October 2018
17.	Liaison Officer	UPNM 9 <sup>th</sup> Convocation Ceremony 2018	14 November 2018
18.	Member of Committee (Biology Dept. representative)	STEM Carnival Exhibition (Kuala Lumpur) Committee	3 August 2018 - present
19.	Member of Committee	4 <sup>th</sup> International Conference on Humanities, Social Sciences & Technologies 2017 Organizing Committee	25 – 26 November 2017
20.	Member of Committee	4 <sup>th</sup> Annual Food Science & Nutrition PhD Conference 2017 Organizing Committee, University of Leeds, UK	May 2017 – Nov 2017
21.	Member of Committee	3 <sup>rd</sup> Annual Food Science & Nutrition PhD Conference 2016 Organizing Committee, University of Leeds, UK	May 2016 – Nov 2016
22.	Chairman	Welfare and Recreational Club, CDFS, NDUM	July 2013 – Jan 2015
23.	Vice President of Education	Perwira Toastmasters Club UPNM, Club 3287262, Toastmasters International	July 2014 – Jan 2015

24.	Subject Coordinator	Biology Subject – FBY0416, FBY0426	Sept 2010 – Jan 2015
25.	Member of Committee	Wisma Perwira (Entertainment)	April 2010 – Jan 2015
26.	Member of Committee	Quality Assurance Centre, NDUM	June 2010 – Jan 2015
27.	Member of Committee	Health and Safety Committee, NDUM	August 2010 – August 2012
28.	Sergeant at Arms	Perwira Toastmasters Club UPNM, Club 3287262, Toastmasters International	October 2013 – October 2014
29.	Chairperson	Mobile Asset Investigation Committee, NDUM	June 2014 – August 2014
30.	Member of Committee	Mobile Asset Investigation Committee, NDUM	July 2014 – September 2014
31.	Academic Advisor	Academic Advisory System, NDUM	October 2010 – Jan 2015
32.	Staff Representative	NDUM Basketball Club	March 2014 – Jan 2015
33.	NDUM Badminton's Team Representative	Malaysia University Staff Championship (SUKUM) 2012	2 – 12 July 2012
35.	External Examiner	Ministry of Education Matriculation Examination Paper (Biology)	16 – 21 October 2011
36.	Master of Ceremony	MS ISO 9001 Bi 2 / 2011 Course	June 2011
37.	Member of Committee	Medical Foundation Programme Committee (New programme)	November 2009 – May 2010

**3.4 Service to the community**  
(Please list in chronological order)

<b>No.</b>	<b>Organization</b>	<b>Role</b>	<b>Start Date</b>	<b>End Date</b>	<b>Level</b>
1.	Residence Association TTDI Grove 8	Chairman	August 2018	present	Regional
2.	Rakan Hidayah HCF, (Kajang Branch)	Chairman	April 2022	present	Regional
3.	Rakan Hidayah HCF, (Kajang Branch)	Deputy Chairman	September 2019	March 2022	Regional
4.	Hidayah Foodbank (Kajang)	Distribution Manager	Mei 2020	July 2021	Regional
5.	NDUM Academician Society (NADIMASA)	Lifetime Member	2011	present	University
6.	IKRAM North West, IKRAM UKE, UK	Secretary I	March 2016	March 2017	International
7.	Malaysian Student Community of Leeds (MSCL), Leeds, UK.	President	September 2015	October 2016	International
8.	Residence Association TTDI Grove	Vice President	Jan 2012	Dec 2013	National