



# UPNM

National Defence University of Malaysia

Kewajipan • Maruah • Integriti

## CURRICULUM VITAE



I. PERSONAL PARTICULARS	
<b>Name</b>	Dr. Azuraini Binti Mohd Arif
<b>Position</b>	Senior Lecturer (DS52)
<b>Faculty / Department</b>	Mathematics Department, Centre for Defense Foundation Studies, National Defence University of Malaysia (UPNM)
<b>Nationality</b>	Malaysia
<b>DoB and Gender</b>	6 March 1981 (Female)
<b>Address(Office)</b>	Mathematics Department, Centre for Defense Foundation Studies, National Defence University of Malaysia, (UPNM), Kem Sungai Besi, 57000 Kuala Lumpur
<b>Tel. No.</b>	03-90514420 (O) 016-2773218 (HP)
<b>E-mail Address</b>	<a href="mailto:azuraini@upnm.edu.my">azuraini@upnm.edu.my</a> <a href="mailto:azuraini1@gmail.com">azuraini1@gmail.com</a>
<b>Research Interest:</b>	Computational Statistics, Mathematical Statistics, Outlier Detection, Robust Theory, Errors-In-variable models, Clustering Method

**II. ACADEMIC AND PROFESSIONAL QUALIFICATIONS**

Year	Degree	Discipline	University
2023	Doctor of Philosophy (PhD)	Statistics	Universiti Malaya
2008	Master of Science (MSc)	Statistics	Universiti Kebangsaan Malaysia
2005	Bachelor of Science (BSc)	Systems Engineering	University of Arizona, USA

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

Degree	TITLES OF POSTGRADUATE THESES
M.Sc	Penganggaran Min Populasi Dengan Menggunakan Pensampelan Set Terpangkat Median <i>(Estimating of the population mean using median ranked set sampling)</i>
Ph.D.	Estimation of Parameters and Outlier Detection for Replicated Linear Functional Relationship Model.

**IV. WORK EXPERIENCE**

Year	Position	Organisation	Start and End Date
2023	Senior Lecturer (DS52)	Mathematics Department, National Defence University of Malaysia (UPNM)	01/02/2023 - Present
2008 - 2022	Lecturer (DS45)	Mathematics Department, National Defence University of Malaysia (UPNM)	01/02/2015 – 31/01/2019
2007	Part Time Tutor	Universiti Kebangsaan Malaysia	01/07/2007 – 31/12/2007

## 1.0 TEACHING AND SUPERVISION

### 1.1 First Degree Courses

No.	Course Title	Semester	Year
1.	Engineering Mathematics IV (Statistics)	2	2010/2011
2.	Engineering Mathematics IV (Statistics)	2	2009/2010
3.	Engineering Mathematics II (Differential Equations)	2	2008/2009

### 1.2 Pre-Degree Courses

No.	Course Title	Semester	Year
1.	Mathematics 2 (FMA0126)	2	2023/2024
2.	Statistics for Social Sciences (FMA0164)	1	2023/2024
3.	Mathematics 2 (FMA0126)	2	2022/2023
4.	Statistics for Social Sciences (FMA0164)	1	2022/2023
5.	Mathematics 2 (FMA0126)	2	2021/2022
6.	Statistics for Social Sciences (FMA0164)	1	2021/2022
7.	Mathematics 2 (FMA0126)	2	2020/2021
8.	Statistics for Social Sciences (FMA0164)	1	2020/2021
9.	Mathematics 2 (FMA0126)	2	2019/2020
10.	Statistics for Social Sciences (FMA0164)	1	2019/2020
11.	Mathematics 2 (FMA0126)	2	2018/2019
12.	Mathematics 2 (FMA0126)	2	2014/2015
13.	Basic Mathematics (FMA0146)	1	2014/2015
14.	Mathematics 2 (FMA0126)	2	2013/2014
15.	Statistics for Social Sciences (FMA0164)	1	2013/2014
16.	Mathematics 2 (FMA0126)	2	2012/2013
17.	Mathematics 1 (FMA0116)	1	2012/2013
18.	Introduction to Statistics (FMA0113)	2	2011/2012
19.	Matematik 1(FMA0114)	1	2011/2012

20.	Matematik 1(FMA0114)	1	2010/2011
21.	Matematik 1 (FMA0114)	1	2009/2010

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

No.	Name of Student	Project Title	Date of Registration	Role (Main/Co-Supervision)	Status • Completed • Submitted • In Progress
1.	Azyyati Syuhada Binti Borhana (PhD)	Model Specification Problems in a Linear Structural Relationship Model for Circular Data	2023	Co-Supervision	In Progress
2.	Camelia Binti Amir Mahmud (FYP)	Sport Injury Patterns in Combat Sport Among NDUM Students (Final Year Project- AKP)	2023/2024	Co-Supervision	Completed
3.	Alia Nur Syuhada Binti Azzarul Hisyam (FYP)	Application of AHP in Restaurant Selection Based on Student and Lecturer Preference (Final Year Project- FSTP)	2022/2023	Co-Supervision	Completed
4.	Mohamad Azmir B Mohd Mustapha (FYP)	Hubungan Antara Penglibatan Dalam Kokurikulum Dengan Pencapaian Akademik Pelajar Awam di UPNM. Kertas Akademik Sarjana Muda Pengurusan Sumber Manusia Pertahanan	2011/2012	Co-Supervision	Completed
5.	Masliza Bt Ngaliman (FYP)	Hubungan Gaya Kepimpinan Terhadap Komitmen Organisasi Di Angkatan Koperasi Kebangsaan Malaysia Berhad (ANGKASA). Kertas Akademik Sarjana Muda Pengurusan Sumber Manusia Pertahanan	2011/2012	Co-Supervision	Completed
6.	Zulfadhli bin Ishak (FYP)	Analysis of Rainfall Pattern in Kuala Lumpur Final Year Project	2010	Co-Supervision	Completed

## 2.1 RESEARCH, PUBLICATION AND PRESENTATION

### 2.1 Research Projects

No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
1.	Analisis Ruang Berstatistik bagi Partikel Zarah Berdiameter Kurang atau Bersamaan dengan 2.5 $\mu$ m (PM2.5) dan Hubungannya dengan Parameter Meteorologi dan Kualiti Udara (UPNM/2023/GPJP/STG/3)	Principal: Prof. Ts. Gs. Dr. Firdaus Mohamad Hamzah <b>Dr. Azuraini Mohd Arif</b> Dr. Mohd Faisal Saari	2023	RM20000 (GPJP)	In Progress
2.	Development of a New Class of Error-in-Variables Model Specifically a Linear Structural Relationship Model for Circular Data: Emphasis on Parameter Estimation (UPNM/2023/GPJP/STG/5)	Principal: Dr. Mohd Iqbal Shamsudheen Member: Prof. Ts. Gs. Dr. Firdaus Mohamad Hamzah <b>Dr. Azuraini Mohd Arif</b> Dr. Mohd Faisal Saari En. Ahmad Shafiq Abdul Rahman	2023	RM20000 (GPJP)	In Progress
3.	Some Statistical Problems on Simultaneous Circular Functional Relationship Model for Unequal Error Variances	Principal: Dr. Mohd Syazwan bin Mohamad Anuar Member: Prof Dr. Abdul Ghapor bin Hussin Prof Dr. Yong Zulina Zubairi (UM) Dr. Sharifah Aishah Syed Ali Pn. Khairani Abdul Majid <b>Pn. Azuraini Mohd Arif</b>	2020	RM58200 (FRGS)	Completed
4.	Analisis Kuantitatif Terhadap Prestasi Akademik Pelajar Asasi UPNM (Ketua Penyelidik (RAGS/2013/UPNM/SG/04/02)	Principal: <b>Azuraini Mohd Arif</b> Member: Nur Adilah Liyana Aladdin Ahmad Zaidi Sulaiman Fatin Amirah Ahmad Syukri	2013	RM 50000 (RAGS)	Completed

## 2.2 Publications

### 2.2.1 Academic Journal

No.	Authors, year, title, publisher/journal, volume and number of pages (Please bold your name)	Type of Journal <ul style="list-style-type: none"> <li>• ISI</li> <li>• SCOPUS</li> <li>• Peer-Reviewed</li> </ul>
1.	<b>Mohd Arif, A.</b> , Zubairi, Y. Z., Hussin, A. G. (2022). Outlier detection in balanced replicated linear functional relationship model. <i>Sains Malaysiana</i> . 51(2): 599-607.	ISI-Cited publication
2.	<b>Mohd Arif, A.</b> , Zubairi, Y. Z., Hussin, A. G. (2021). Maximum likelihood estimation of replicated linear functional relationship model. <i>AMCI Journal</i> . 10 (1): 301-308.	Peer-Reviewed / Google Scholar / Malaysian Citation Centre
3.	<b>Mohd Arif, A.</b> , Zubairi, Y. Z., Hussin, A. G. (2020). Nonparametric estimation for a slope of a replicated linear functional relationship model. <i>ASM Science Journal</i> . 26: 1-5. (SCOPUS-Cited publication).	SCOPUS-Cited publication
4.	<b>Mohd Arif, A.</b> , Zubairi, Y. Z., Hussin, A. G. (2020). Parameter estimation in replicated linear functional relationship model in the presence of outliers. <i>Malaysian Journal of Fundamental and Applied Sciences</i> . 16 (2): 158-160. (ESCI /SCOPUS-Cited publication).	SCOPUS-Cited publication
5.	<b>Mohd Arif, A.</b> , Zubairi, Y. Z., Hussin, A. G. (2019). On robust estimation for slope in linear functional relationship model. <i>Sains Malaysiana</i> . 48(1): 237-242. (ISI-Cited publication).	ISI-Cited publication

### 2.2.2 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.	Buku Panduan Pengajaran dan Pembelajaran Dalam Talian Program Asasi Sesi Akademik 2020/2021: Edisi Pelajar & Edisi Pensyarah	University
2.	<b>Azuraini Mohd Arif</b> , Aniza Wamin, Ruzanna Mat Jusoh, Nur Amalina Jamaludin, Fazilatullaili Ali, dan Nabilah Fikriah, 2011. <i>Modul Introduction to Statistics FMA 0133</i> . Universiti Pertahanan Nasional Malaysia.	University
3.	<b>Azuraini Mohd Arif</b> , Sharifah Aishah, Fatin Amirah, Fazilatulaili, dan Ahmad Zaidi, 2010. <i>Modul Matematik 1 FMA0114</i> . Universiti Pertahanan Nasional Malaysia	University

### 2.2.3 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.	<b>Mohd Arif, A.</b> , Zubairi, Y. Z., Hussin, A. G. (2024). Slope Estimation in Replicated Linear functional relationship model via trimmed mean: A simulation study. AIP Conference Proceedings. Vol. 2895. No. 1	National
2.	<b>Mohd Arif, A.</b> , Zubairi, Y. Z., Hussin, A. G. (2021). COVRATIO statistic for replicated linear functional relationship model. Journal of Physics: Conference Series. 1988 (1)	National

### 2.3 Presentation:

No.	Event	Title of Paper Presented	Role (Keynote Speaker / Invited Speaker / Presenter)	Date	Organizer
1.	The 3 <sup>rd</sup> International Conference on Applied and Industrial Mathematics and Statistics 2022 (ICoAIMS 2022)	Slope Estimation in Replicated Linear Functional Relationship Model via Trimmed Means: A simulation study	Presenter	24-26 August 2022	UMP
2.	Defence, Security and Sustainability 2022 (DSS2022) Conference	Outlier Problems in linear functional relationship model	Presenter	3-4 August 2022	UPNM
3.	The 5 <sup>th</sup> International Conference on Computing, Mathematics and Statistics 2021 (iCMS 2021)	Maximum Likelihood Estimation of Replicated Linear Functional Relationship Model	Presenter	4-5 August 2021	UiTM Kedah Branch
4	Simposium Kebangsaan Sains Matematik ke 28 (SKSM28)	COVRATIO statistic for replicated linear functional relationship model.	Presenter	28-29 July 2021	Universiti Malaysia Pahang
5.	The 7 <sup>th</sup> Malaysia Statistics	An Outlier Detection Method for Balanced	Presenter	20 October 2020	Department of Statistics

	Conference (MyStats 2020)	Replicated Linear Functional Relationship Model			Malaysia, Bank Negara Malaysia, Institute of Statistics Malaysia
6.	Defence, Security and Sustainability 2019 (DSS2019) Conference	Estimation of parameters in replicated linear functional relationship model	Presenter	25-26 April 2019	UPNM
7.	Simposium Kebangsaan Sains Matematik ke 26 (SKSM26)	Nonparametric Estimation for Slope of a Replicated Linear Functional Relationship Model	Presenter	28-29 November 2018	Universiti Malaysia Sabah
8.	International Seminar on Mathematics in Industry & International Conference (ISMI-ICTAS)	Parameter Estimation in Replicated Linear Functional Relationship Model in the Presence of Outliers	Presenter	4-6 September 2018	Universiti Teknologi Malaysia
9.	The 4th ISM International Statistical Conference (ISM-IV)	On Estimating Intercept and Slope in Linear Functional Relationship Model	Presenter	1-2 August 2018	Sunway University, Institute of Statistics Malaysia
10.	Seminar Kebangsaan Institut Statistik Malaysia (SKISM XII)	Parameter Estimation for Linear Functional Relationship Model.	Presenter	29 March 2018	Universiti Putra Malaysia, Institute of Statistics Malaysia
11.	The 5 <sup>th</sup> Malaysia Statistics Conference (MyStats 2017)	Slope Estimation in Linear Functional Relationship Model	Presenter	29 November 2017	Department of Statistics Malaysia, Bank Negara Malaysia, Institute of Statistics Malaysia



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

#### 3.1 Academic Recognition and Leadership

No.	Academic Recognition	Year	Level	Awarding Body / Name of Institution
1.	Pingat Emas dalam Defence, Security and Sustainability Exhibition (DSS 2024), UPNM	2024	Universiti	UPNM
2.	Sijil Prestasi Cemerlang	2023	Universiti	UPNM
3.	Pingat Perak dalam Defence, Security and Sustainability Exhibition (DSS 2022), UPNM	2022	Universiti	UPNM
4.	Sijil Prestasi Cemerlang	2021	Universiti	UPNM
5.	Pingat Perak dalam MCO (PKP) Publication Contest	2021	Universiti	UPNM
6.	Pingat Gangsa dalam Defence, Security and Sustainability Exhibition (DSS 2019), UPNM	2019	Universiti	UPNM
7.	Pingat Gangsa dalam Kolokium dan Pameran Penyelidikan & Inovasi 2014, UPNM	2014	Universiti	UPNM
8.	Anugerah Perkhidmatan Cemerlang Tahun 2013 UPNM	2013	Universiti	UPNM

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

No.	Title	Year	Sponsor	Value	Duration
1.	Pemeriksa Skrip Kertas Matematik Program Matrikulasi (2014,2013)	2013, 2014	KPM		5 days

### 3.3 Service to the University

No	Position/Membership	Committee	Duration
1.	AJK Kluster Pendidikan dan Masyarakat Madani Celik Ilmu	University (UPNM)	2023
2.	AJK 13 <sup>th</sup> UPNM Convocation	University (UPNM)	2023
3.	Academic Advisor PS2 (27 students)	PAP	2023/2024
4.	AJK Buletin@Ria 4 <sup>th</sup> Edition	PAP	2023
5.	AJK PAPIC 2023	PAP	2023
6.	Reviewer PhD (Research Proposal-Siti Hasliza)	PAP	2023
7.	Subject Coordinator Statistics for Social Sciences (FMA0164)	Mathematics department, Pusat Asasi Pertahanan (PAP)	Sem 1 2022/2023
8.	Academic Advisor PS6 (21 students)	PAP	2022/2023
9.	AJK STEM PAP	PAP	2022-2024
10.	AJK PIITRAM (Sponsorship)	PAP	2022
11.	Reviewer: Final Year Project FSTP 2022	FSTP	2022
12.	AJK 11 <sup>th</sup> and 12 <sup>th</sup> UPNM Convocation	UPNM	2022
13.	Subject Coordinator Statistics for Social Sciences (FMA0164)	Mathematics department, PAP	Sem 1 2021/2022
14.	Academic Advisor PS9 and PS10	PAP	2021/2022

15.	AJK Sponsorship PIITRAM 2022	PAP	2021
16.	Jury (Special Award Mathematics Department) Pusat Asasi Pertahanan Innovation Competition PAPIC 2021	PAP	2021
17.	Subject Coordinator Statistics for Social Sciences (FMA0164)	Mathematics department, PAP	Sem 1 2020/2021
18.	AJK Assessment Online	PAP	2020-2021
19.	AJK Academic Regulations Book	PAP	2020
20.	AJK Program Talk Series	Mathematics department, PAP	2020
21.	Reviewer: Research Article	International Conference on Solid State Science and Technology ICSSST (Scientific.net)	2020
22.	AJK (Certificate and Token)	7 <sup>th</sup> International Conference on Solid State, Science & Technology ICSSST Organizing Committee (2019)	2019
23.	Academic Advisor PS9 and PS10	PAP	2019/2020
24.	Reviewer: Final Question Paper Regression FSTP	University	2019/2020
25.	Head of Department	Mathematics Department, PAP	2014-2015
26.	Acting Head of Department	Mathematics Department, PAP	September, 2013
27.	AJK Quotation Assessment	University	2014

28.	AJK New Programme Development (Asasi Pengajian Islam)	PAP	2014
29.	Subject Coordinator Statistics for Social Sciences (FMA0113)	Mathematics department, PAP	Sem 1 2013/2014
30.	Academic Advisor PS (15 students)	PAP	Sesi 2013/2014
31.	Subject Coordinator Mathematics 1 (FMA0114)	Mathematics department, PAP	Sem 1 2012/2013
32.	Subject Coordinator Mathematics 2 (FMA0124)	Mathematics department, PAP	Sem 2 2012/2013
32.	Academic Advisor KT (15 students)	PAP	Sesi 2012/2013
33.	AJK SPSS Course	PAP	2012
34.	Academic Advisor KT (15 students)	PAP	Sesi 2011/2012
35.	AJK New Programme Development (Diploma Kejuruteraan Peluru dan Letupan)	University	2011
36.	AJK New Programme Development (Operation Research)	PAP	2010
37.	AJK New Programme Development (Asasi Perubatan)	PAP	2010
38.	Academic Advisor PS (15 students)	PAP	Sesi 2010/2011
39.	Subject Coordinator: Engineering Mathematics IV (EFA 2213)	FKJ	Sem 2, 2009/2010, 2010/2011
40.	Academic Advisor PS (15 students)	PAP	Sesi 2009/2010

41.	Subject Coordinator: Engineering Mathematics II (EFA 2203)	FKJ	Sem 2, 2008/2009
42.	 Mathematics Paper Examiner KPM	Kementerian Pelajaran Malaysia	2009,2010,2011, 2013

#### 3.4 Service to the community

No.	Organization	Role	Start Date	End Date	Level
1.	Persatuan Sains Matematik Malaysia (PERSAMA)	Lifetime member	2023	present	National
2.	Resident Associations Taman Kajang Impian	Member	2010	present	National
3.	Institut Statistik Malaysia (ISMy)	Lifetime member	2008	present	National
4.	Persatuan Pegawai Akademik UPNM (NADIMASA)	Lifetime member	2012	present	University
5.	Koperasi Universiti Pertahanan Nasional Malaysia Kuala Lumpur Berhad (KUPENA)	Lifetime Member	2010	present	University