



## CURRICULUM VITAE



### I. PERSONAL PARTICULARS

<b>Name</b>	Gs. Ainul Husna binti Abdul Rahman
<b>Current Position Faculty / Department</b>	Lecturer, Department of Maritime Science and Technology, Faculty of Science and Defence Technology, National Defence University of Malaysia

**II. ACADEMIC AND PROFESSIONAL QUALIFICATIONS**

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

<b>Year</b>	<b>Degree</b>	<b>Discipline</b>	<b>University</b>
2011-2014	Bachelor	Maritime Technology	National Defence University of Malaysia
2015-2016	Masters	Geospatial and Mapping Sciences	University of Glasgow
2018	Chartered Institute of Logistics and Transport (Chartered Member)	Maritime Logistics and Transportation	CILT, UK
2019	Professional Member of Institute of Geospatial and Remote Sensing Malaysia (IGRSM)	Ocean Remote Sensing	IGRSM

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

<b>No.</b>	<b>TITLES OF POSTGRADUATE THESES</b>
1.	Analysis on Reliability of PPP Kinematic Method with Combination of Ionospheric Correction Performed on Moving Receivers.

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

<b>Year</b>	<b>Position</b>	<b>Organisation</b>	<b>Start and End Date</b>
2014 - 2015	Export Officer	Transliner Maritime Sdn Bhd	Nov 2014 – May 2015
2015	Junior Lecturer	National Defence University of Malaysia	June 2015 – Sept 2016
2016	Lecturer	National Defence University of Malaysia	2016 - current

## 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
	NIL		

### 1.2 First Degree Courses

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

No.	Course Title	Semester	Year
1	Nautical Law	2 (Year 1)	2016
2	Maritime Communication	2 (Year 1)	2017 -2018
3	Integrated Transportation System	1 (Year 2)	2017 and 2023
4	Hydrography	1 (Year 3)	2016 - 2023
5	Oceanography	1 (Year 3)	2017-2018
6	Maritime Law and Enforcement	1 (Year 2)	2017 - 2021
7	Research Project I	2 (Year 2)	2017 -2021
8	Research Project II	1 (Year 3)	2017-2021
9	Human Resource Management (HRM)	3 (Year 1)	2023

### 1.3 Diploma Courses

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

No.	Course Title	Semester	Year
	NIL		

### 1.4 Pre-Degree Courses

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

No.	Course Title	Semester	Year
	NIL		

### 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
	NIL					

### 1.6 PhD External/Internal Examination

(Please list in chronological order)

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

### 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
	NIL					

### 1.8 MSc External/Internal Examination

(Please list in chronological order)

No.	Name of Student	Project Title	External / Internal	Date of Viva	University
1	Nur Syafiqah Aifa	Feasibility Study of Monsoon Effect to Wave Power for Wave Energy Converter in Sabah	Internal	2018	NDUM

2	Lt Hafizuddin bin Za'aba TLDM	Study on South Ledge Dispute: Affirmation of Malaysia Claim Using UNCLOS 1982	Internal	2021	NDUM
3	Lt Kdr (M) Mohd Hazwan bin Hamzah	A Case Study Using Wind and Photovoltaic Renewable Energy for Electrical Hybrid Application in Pulau Batuan Tengah	Internal	2022	NDUM

### 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 • Completed • Submitted • In Progress
1	PKDT Ag Muhammad Raid Bin Raidi TLDM	Kesesuaian Pemerugema Hidrografi untuk Kapal Peronda TLDM	2018	Main	Completed
2	PKDT Mohd Ridhwan Bin Sabri TLDM	Kesesuaian Kapal Peronda TLDM sebagai Pelantar Hidrografi	2018	Main	Completed
3	Atikah Binti Noor	Keberkesanan Jadual Ramalan Air Pasang surut di Malaysia	2018	Main	Completed
4	Muhammad Aizuddin Naim bin Khalid	Analytical Study on Heavy Metals Presence in the Sediment at the NDUM Lake	2019	Main	Completed
5	Nurzahirah binti Zahrolayali	Correlation between Turbidity and Total Suspended Solid in Marin Lake, UPM	2019	Main	Completed
6	PKDT Asymawi bin Sharif TLDM	Effect of Dissolved Oxygen and pH Values to Water Quality Index at NDUM's Lake	2019	Main	Completed
7	Mohd Syukri bin Ramlie	Analysis on Wind Speed and Wave Height Towards Water Related Activities at Mantanani Island	2020	Main	Completed
8	PKDT Muhammad Azfar Tahrir Bin Sabri TLDM	Mengkaji Isu-Isu Perikanan Akuakultur di Kota Kuala Muda, Kedah	2020	Main	Completed
9	Muhammad Nur Al	Variation of pH and DO value at NDUM Lake using GIS Software	2020	Main	Completed

	Hadinuiddin Bin Yusni				
10	Muhammad Faris Irsyad Bin Ahmad Nizam	The Study of Water Quality at Tasik Titiwangsa	2020	Main	Completed
11	Noor Hafiz Aqimi Bin Noor Azam	Determination of Water Pollution Level in Gombak River	2020	Main	Completed
12	Muhammad Fakhruallah Bin Rosman	A Research on a Level of Water Pollution at Klang River	2020	Main	Completed
13	Nur Syakurah Binti Norazman	Analytical Study of Heavy Metal Presence in Sediment at Kundur Beach, Melaka.	2020	Main	Completed
14.	PKDT Mohd Lukman Hakim bin Mohd Anuar TLDM	Mapping of Heavy Metals in Tasik Marin	2021	Main	Completed
15.	PKDT Malik Sofuan bin Mahmod TLDM	Mapping Of Water Pollution In Marin Lake Upnm	2021	Main	Completed
16.	PKDT Muhammad Amir Aiman bin Mohd Roni TLDM	Ancaman Aktiviti Lanun Terhadap Kapal Di Selat Melaka	2021	Main	Completed
17.	PKDT Ahmad Mahdi Nasution bin Sulfan Syah TLDM	Pembangunan Terminal Sebagai Pelabuhan Antarabangsa Kajian Kes:	2021	Main	Completed
18.	PKDT Hamzah bin Yusoff TLDM	Pembiakan Ikan Pemandang Di Dalam Ekosistem Sungai Di Malaysia	2021	Main	Completed
19.	Nur Hidayah binti M. Waled	Study Of Water Current At Marin Lake	2021	Main	Completed
20	PKDT Muhammad Luqman Hakim bin Che Hasim TLDM	Analysis On The Heavy Metals In Marin Lake Sediment	2021	Main	Completed
21	PKDT Muhammad Alif Raihan Bin Mohamad	Drone Mapping For Terrestrial Acquisition At Ndum	2022	Main	Completed

	Rahim TLDM				
22	Pkdt Mohamad Rushd Afif Abda Bin Abdul Shukur TLDM	Identification of Mangrove using NDVI in Kukup Island	2022	Main	Completed
23	Pkdt Nur Alya Binti Salehuddin TLDM	A Study On The Accuracy Of Tropospheric Models.	2022	Main	Completed
24	Pkdt Keerti A/L Sb. Karunamurithi TLDM	Analysis On Microplastics At Ndum Marin Lake	2022	Main	Completed
25	Pkdt Muhamad Putra Fadli Bin Roslan TLDM	Identification of Mangrove using NDMI in Kukup Island	2022	Main	Completed
26	Pkdt Khairil Haikal Akmal Bin Adenan TLDM	A Study On The Accuracy Of Ionospheric Models	2022	Main	Completed
27	Lt Nur Hakeem bin Mohd Azmi	Digitalizing The Tide Table Prediction for RMN Operational Enhancement	2022	Master's Degree (Main)	Completed
28	Nur 'Izzati Farhanah Binti Sukiman	A Review Of The Trend Of Sea Level Rise In Malaysia	2023	Main	Completed
29	Pkdt Wan Nurhafizul Naufal bin Wan Azhar	Spatio Temporal of Sea Surface Temperature at SCS.	2023	Main	Completed
30	Pkdt Putera Mirzan Em Aqheel bin Em Roediyanto	A Study on Spatio Temporal of Sea Level Anomalies at SCS.	2023	Main	Completed
31	Pkdt Ali Akbar Amrullah bin Muammar Ashikh	Bibliometric Analysis on the Potential of Conflicts in the SCS	2023	Main	Completed
32	Muhammad Hakimie bin Mohd Zaini	A Study of Coastal Changes using DSAS in Miri Sarawak	2023	Main	Completed

## 2.0 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	Geran Agensi Kerajaan : KeTTha	Member	2018-2021	RM 3.2 Mil	Completed
2	Geran Penyelidikan Jangka Pendek	Member	2016-2018	RM 25, 000	Completed
3	Geran Penyelidikan Jangka Pendek	Leader	2019-2021	RM 5,000	Completed
4	Self -Funded Grant	Member	2020-2023		In Progress
5	Fundamental Research Grant Scheme (FRGS)	Member	2022-2024	RM 90,000	In Progress

### 2.2 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	In-Situ Current Speed Measurement and Sediment Characteristics at UPNM Lake, 2018	SCOPUS
2	The Influence of RTK GNSS Antenna Heights on Multipath Error , 2018	SCOPUS
3	Quality Evaluation of Treated Ballast Seawater for Potential Reuse , 2018	SCOPUS
4	Framework Leader of Character , 2018	SCOPUS
5	Sound Velocity Profile at Malacca Strait for Maritime Warfare Usage, 2018	SCOPUS
6	Study on the Dependence of Temperature Effect on the Magnetorheological Elastomers Damping Properties, 2018	SCOPUS



7	Sound Velocity Profile for Maritime Warfare Usage, International Journal of Integrated Engineering	SCOPUS
8	Study on the Impact of Heavy Metals Towards Sediment and Water Quality at Marin Lake, International Journal of Business and Technology Management	SCOPUS
9	Verification of RTKLIB and PPP Methods in Geomatics Application, International Journal of Advanced Research in Technology and Innovation,	SCOPUS
10	Identification of Mangrove Area using Landsat Image in Kuala Selangor Nature Park, International Journal of Business and Technology Management	SCOPUS
11	Helicopter Ditching Incident Analysis: Classification of Risk Factor	SCOPUS

### 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 <ul style="list-style-type: none"> <li>• International</li> <li>• National</li> <li>• University</li> </ul>
1	Buku Panduan dan Log Latihan Industri Pelajar Awam Ijazah Sarjana Muda Teknologi Maritim	University
2	Buku Panduan dan Log Latihan Industri Pelajar Awam Ijazah Sarjana Muda Teknologi Maritim (Kadet)	University
3	Buku Panduan dan Log Latihan Industri Pelajar Awam Ijazah Ijazah Sarjana Muda Sains (Kepujian) Logistik dan Pengangkutan Maritim.	University
4	Buku Panduan Penulisan Projek Penyelidikan Sarjana Muda Edisi Kedua	University
5	Buku Panduan dan Log Latihan Industri Pelajar Awam Ijazah Sarjana Muda Teknologi Maritim (Kadet)	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	Acoustic Approach for Determining Seabed Substrates Distribution at Mandi Darah Island, 2021	International
2	Feasibility Study of Monsoons Effect to Wave Power for Wave Energy Converter in Sabah, 2021	International
3	Application of GIS Maritime Accident Analysis in Malaysian Water Using Kernel Density Function, 2021	International
4	Mapping of Water Quality Parameters of Marin Lake	University
5	Analysis on Heavy Metals in Sediment at Marin Lake	University

## 2.3 Presentation:

(Please list in chronological order)

No.	Event	Title of Paper Presented	Role (Keynote Speaker / Invited Speaker / Presenter)	Date	Organizer
1	PERINTIS 2016	Heave Buoy Energy Converter	Presenter	16 Nov 2016	
2	Malaysia Technology Expo 2017	Heave Buoy Energy Converter	Presenter	16-18 Feb	
3	ITEX 2017	Heave Buoy Energy Converter	Presenter	11-13 May 2017	
4	Malaysia Technology Expo 2018	A concept of design USV-RIB as hydrography vessel	Presenter	22-24 Feb	
5	International Conference on Information and Communication Technology, Malaysia 2018 (ICICTM'18).	In-Situ Current Speed Measurement and Sediment Characteristics at UPNM Lake	Presenter	3-4 May 2018	
6	3rd Defence Security and Technology Conference	Sound Velocity Profile at Malacca Strait for Maritime Warfare Usage (DSTC)	Presenter	21-Nov 2018	
7	Malaysia Technology Expo 2019	Wave Energy Converter	Presenter	21 Feb 2019	
8	Penang International Conference on Engineering Science and Technology 20	Study on the Impact of Heavy Metals Towards Sediment and Water Quality at Marin Lake	Presenter	28 Nov 2020	
9	Research & Innovation Poster Competition (RIPC)	Coastal Changes Assessment using Remote Sensing	Presenter	19 September 2023	MNNF Network

### 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	ANUGERAH E-LEARNING	2017	UNIVERSITY	UPNM
2	ANUGERAH PERKHIDMATAN CEMERLANG	2018	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

#### 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	Duration
1	Chartered Institute Logistics and Transportation (CILT) - Member	
2	National Thesis Presentation Competition RINA IMAREST Coordinator	
3	Institute of Geospatial and Remote Sensing Malaysia – Professional Member	
4	ASTI FEYNMAN Challenge 2020 , 2021, 2022, 2023 – Jury	
5	Pegawai Fokal Fakulti	

### 3.4 Service to the community

(Please list in chronological order)

No.	Organization	Role	Start Date	End Date	Level