CURRICULUM VITAE

I.	PERSONAL PARTICULARS
Name	**Nor Fatimah Awang**
Current Position **Faculty / Department**	**Pensyarah Kanan (DS 52)** Jabatan Sains Komputer, Fakulti Sains dan Teknologi Pertahanan
Research Interest	Application Security, Computer Network Security Security Testing, Software Engineering, The Internet of Things

II. ACADEMIC AND PROFESSIONAL QUALIFICATIONS
(Please list all academic qualifications, from your first degree, in chronological order)

Year	Degree	Discipline	University
1994	BSc In Computer Science	Software Enginerring	Universiti Teknologi Malaysia
2001	Master in Information Technology	Information Science	Universiti Kebangsaan Malaysia
2017	Doctor of Philosophy	Application Security	Universiti Teknologi Malaysia

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

No.	TITLES OF POSTGRADUATE THESES
Msc	Developing of WabakNet
Phd	Security Testing Model For Detecting SQL Injection Vulnerability in Web Application

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

Year	Position	Organisation	Start and End Date
1994	Reseacher	Jaring Reseach Project	August 1994-2003
2003	Sen. Researcher	iVEST Project	2003-2006
2006	Sen. Software Tester	Mimos Testing Group	2006-July 2008
2008	Lecturer	UPNM	2008-2011
2012	**Sen. Lecturer**	**UPNM**	**2012-present**

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	EFC 1103 Computing 1 (C++)	I	2008/2009
2	TSK 3433 Ethical Hacker	II	2008/2009
3	EFC 1103 Computing 1 (C++)	I	2009/2010
4	TSK 3433 Ethical Hacker	II	2009/2010
5	EFC 1103 Computing 1 (C++)	I	2010/2011
6	TSK 3433 Ethical Hacker	II	2010/2011
7	EFC 1103 Computing 1 (C++)	I	2011/2012
8	TSK 3253 Systems Analysis and Design	II	2011/2012
9	TSK 2123 Operating System	II	2015/2016
10	TSK 1203 Web Programming and Development	I	2016/2017
11	TSS 3233 Ethical Hacker	II	2016/2017
12	TSK 1203 Web Programming and Development	I	2017/2018
13	TSS 3233 Ethical Hacker	II	2017/2018
14	TSK 1203 Web Programming and Development	I	2018/2019
15	TSB 3433 Ethical Hacker	II	2018/2019
16	TSP 3243 Web Programming and Development	I	2019/2020
17	TSB 3433 Ethical Hacker	II	2019/2020
18	TSP 3243 Web Programming and Development	I	2020/2021
19	TST 3233 Computer Networks TSS 3353 Ethical Hacker	II	2020/2021
20	TSP 3243 Web Programming and Development	I	2021/2022
21	TST 3233 Computer Networks TSS 3353 Ethical Hacker	II	2021/2022

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
1	FCS0634 Teknologi Maklumat	I	2019/2020

1.5 PhD Supervision

(Please list in chronological order)

No.	Name of Student	Project Title	Date of Registration	Role (Main / Co-Supervision)	Status • Completed • Submitted • In Progress	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 • Completed • Submitted • In Progress	University
1.	Ahmad Fudhail Iyad Bin Mohd Zainudin	Security Framework for detecting vulnerability in the Internet of Things based smart homes.	2 March 2020	Main Supervisor	Completed	UPNM
2.	Siti Aisyah Binti Baharin	Development of Knowledge Management Data Model of Deputy Vice Chancellor for Focus University	10 March 2021	Co-supervisor	In Progress	UPNM
3.	Aznita Binti Ariffin	Temper-Proof Records of Data and Transition Based on Cryptography in Blockchain Model for Royal	March 2022	Co-supervisor	In Progress	UPNM

		Malaysia Navy Reservist				

1.8 MSc External/Internal Examination

(Please list in chronological order)

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

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	Ahmad Nabil Bin Ahmad Iskandar	Sistem Pengesahan Barangan Hak Milik Individu	2011	Main	Completed
2	Zul Afiq Zulkaflli	Sistem Pengurusan Senjata UPNM dengan Menggunakan Teknologi RFID	2011	Main	Completed
3	Azizan NorAzwin Binti Azizan	Sistem Jaringan Sosial Alumni UPNM berdasarkan Android	2017	Main	Completed

4	Mohammad Zulhelmi B Abdul Malek	Sistem Rawatan Tradisional Berasaskan Aplikasi Android	2017	Main	Completed
5	Mohamad Amirul Asraf B Elias	Aplikasi Rawatan Kecemasan Awal Untuk Pelajar UPNM	2017	Main	Completed
6	Norashikin Binti Fairuzy	Sistem Pengurusan Ketua Perbarisan	2018	Main	Completed
7	Zatul Irqin Binti Mohd Asri	Sistem Kualiti Pengurusan Masjid	2018	Main	Completed
8	Akmal Nur Firdaus Binti Nor Harshah	Sistem Pengurusan Buku Log Latihan Industri Berasaskan Web	2019	Main	Completed
9	Wan Muhamad Akbar Bin Wan Md Idris	Sistem Kesiapsiagaan AV8	2019	Main	Completed
10	Muhammad Aiman Bin Mohd Fauzi	Sistem Mengesan Suhu di Padang UPNM	2020	Main	Completed
11	Syamsul Maa'rif Bin Mohamad	Sistem Pintu Automatik Menggunakan RFID	2020	Main	Completed
12	Siti Naqiyah Binti Zawawi	Sistem Pemantauan Cendawan	2020	Main	Completed
13	Khirul Nizam Bin Jasni	Sistem Pengurusan Maklumat Temuduga Pelajar FSTP	2020	Main	Completed
14	Ahmad Fakhruzzakirin Abd Rahman	Sistem Analisa Diet dan Sunnah Rasulullah	2021	Main	Completed
15	AliHussein Mat Razali	Sistem Tempahan Giliran	2021	Main	Completed

		Menggunting Rambut			
16	Muhammad Firdaus Mamat	Sistem Pengurusan Tahap Kecergasan Pegawai Kadet	2021	Main	Completed
17	Muhammad Faiz Mustaqim Mohd Zukri	Sistem Pertukaran Barangan Issue Pegawai Kadet	2021	Main	Completed
18	Nur Hani Syazana Jamaluddin	Sistem Analisa Mengesan Tahap Kemurungan di Kalangan Pelajar Universiti	2021	Main	Completed
19	Aznur Bin Badrundin	Sistem Pemantauan Bayam Berasaskan iOT	2022	Main	Completed
20	Ku Muhammad Hafiq Bin Mohd Noor @ Rosli	Pemantauan Rangkaian Maya Melalui Raspberry PI	2022	Main	Completed
21	Muhammad Amirul Bin Khalil Azizy	Sistem Penanaman Bayam Secara Hidroponik Di Dalam Persekitaran Tertutup (Indoor)	2022	Main	Completed
22	Nik Faris Iskandar Bin Nik Ammar Fansuri	Pemantauan Sistem Berasaskan IoT Bagi Penanaman Bayam Secara Hidroponik Dengan Bantuan Lampu LED	2022	Main	Completed
23	Nurul Husna Binti Abdul Aziz	Sistem Analisa Tahap Kemurungan di Kalangan Pelajar	2022	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	Security Assessment Framework for Detecting Vulnerability in the Internet of Things based SmartHomes (FRGS RACER/1/2019/ICT04/UPNM// 2)	- **Dr. Nor Fatimah Awang (Principal)** - Prof. Emeritus Dato' Dr. Tengku Mohd bin Tengku Sembok (Member) - Dr. Zuraini binti Zainol (Member) - Dr. Syahaneim Binti Marzukhi (Member) - Dr. Arniyati binti Ahmad (Member)	2019	RM46400.00	In Progress
2	Pembangunan Sistem Pemilihan Pelajar (Bakal Pegawai Kadet) Ke program Asasi UPNM	- Dr. Zuraini binti Zainol (Principal) - **Dr. Nor Fatimah Awang (Member)** - Dr. Syahaneim Binti Marzukhi (Member)	2019	Tiada	Completed

| 3 | Promoting Building Energy Saver With Mobile Technology (UPNM/2016/GPJP/5/TK/1) | - Dr. Arniyati binti Ahmad (Principal)
- Dr. Nor Azliana Akmal binti Jamaludin (Member)
- Dr. Zuraini binti Zainol (Member)
- Muhammad Rahimi bin Abdul Aziz (Member)
- **Dr. Nor Fatimah binti Awang (Member)**
- Dr. Muslihah binti Wook (Member)
- Dr. Nurhafizah Moziyana binti Mohd Yusof (Member)
- | 2016 | RM20,000.00 | Completed |
| 4 | Optical Command and Control Method for Malaysian Army Small Units in A Dipterocarp Forest Environment | - Prof Madya Capt Syed Nasir Alsagoff bin Syed Zakaria (R) (Principal)
- Prof. Madya Mohd Hazali Bin Mohamed Halip (Member)
- **Dr Nor Fatimah Binti Awang (Member)** | 2010 | RM77,545.00 | Completed |

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	Ahmad Fudhail Iyad Mohd Zainudin, **Nor Fatimah Awang**, Syahaneim Marzukhi, Syed Nasir Alsagoff, Taniza Tajuddin and Ahmad Dahari Jarno (**2022**), A Vulnerability Detection Framework for IoT Devices: Smart Lock. AIP Conference Prosidings.	Scopus
2	Syahaneim Marzukhi, **Nor Fatimah Awang**, Syed Nasir Alsagoff and Hassan Mohamed (**2021**), RapidMiner and Machine Learning Techniques for Classifying Aircraft Data, Journal of Physics: Conference Series 1997 012012 OPEN ACCESS	Scopus
3	Elaheh Yadegaridehkordi, Mehrbakhsh Nilashi, Liyana Shuib, Mohd Hairul Nizam Bin Md Nasir, Shahla Asadi, Sarminah Samad, **Nor Fatimah Awang** (**2020**), The Impact of Big Data on Firm Performance in Hotel Industry, Electronic Commerce Research and Applications, Elsevier, Volume 40 pp. 100921	ISI Q1 journal
4	**Nor Fatimah Awang**, Azizah Abd Manaf, Ahmad Dahari Jarno (**2019**), Automated Test Input Generation for Detecting SQL Injection Vulnerability using Set Theory Concept, International Journal of Recent Technology and Engineering (IJRTE), Volume-8 Issue-2S8, ISSN: 2277-3878.	Scopus Q4 journal
5	Nor Azliana Akmal Jamaludin, Arniyati Ahmad, **Nor Fatimah Awang** and Zuraini Zainol (**2018**), The Design of Promoting Building Energy Saver with Mobile Controller, International Journal of Engineering & Technology, 7 (4.29) pp. 213-215.	Scopus
6	**Nor Fatimah Awang**, Azizah Abd Manaf, Siti Fatimah Abidin (**2016**), Test Input Generation for Detecting SQL Injection Vulnerability in Web Application, International Journal of Soft Computing II (2) pp. 103-106.	Scopus
7	**Nor Fatimah Awang**, Arniyati Ahmad and Siti Rohaidah Ahmad (**2014**), Preventing Web Browser from Cyber Attack, GSTF Journal on Computing (JoC), Volume 2, Issue 1.	Peer-Reviewed
8	Nor Wahidah Binte Zailan, SN Alsagoff, **Nor Fatimah Awang** and Mohd Afizi Mohd Shukran (**2013**), Method of Search and Rescue in Dipterocarp Forest Using GPS Technology, Advanced Materials Research, Volume 626, pp. 195-199.	Peer-Reviewed

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	**Nor Fatimah Awang**, Ahmad Fudhail Iyad Mohd Zainudin, Syahaneim Marzukhi, Syed Nasir Alsagoff, Taniza Tajuddin and Ahmad Dahari Jarno (**2020**), Security and Threats in The Internet of Things Based Smart Home, In book: Innovative Systems for Intelligent Health Informatics, Data Science, Health Informatics, Intelligent Systems, Smart Computing (pp.676-684) **(Scopus)**	International

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 • International • National • University
1	**Nor Fatimah Awang**, Ahmad Dahari Jarno, Syahaneim Marzuki, Nor Azliana Akmal Jamaludin, Khairani Abd Majid, Taniza Tajuddin (**2019**), Method For Generating Test Data For Detecting SQL Injection Vulnerability in Web Application, 7th International Conference on Cyber and IT Service Management (CITSM) Vol. 7 pp. 1-5.	International
2	Syahaneim Marzukhi, Zuraini Zainol, Hassan Muhamed, **Nor Fatimah Awang**, Tengku Mohd bin Tengku Sembok, Jowati Binti Juhary (**2019**), Framework Of Malay Intelligent Autonomous Helper (Min@ H): Text, Speech And Knowledge Dimension Towards Artificial Wisdom For Future Military Training System, 1st International Conference on Artificial Intelligence and Data Sciences (AiDAS), pp. 83-87.	International
3	Taniza Tajuddin, Azizah Abd Manaf, **Nor Fatimah Awang**, Siti Rafidah Muhamat Dawam, Noor Rasidah Ali, Rafidah Amat (**2019**), Crime Suspect Profiling (CSP) for Forensic Investigation on Smartphone, 4th International Conference and Workshops on Recent Advances and Innovations in Engineering (ICRAIE), pp. 1-6.	International

4	**Nor Fatimah Awang**, Azizah Abd Manaf, Ahmad Dahari Jarno (**2017**), Automated Test Input Generation for Detecting SQL Injection Vulnerability using Set Theory Concept, The Second International Conference on Computational Science and Engineering 2017.	International
5	**Nor Fatimah Awang**, Azizah Abd Manaf, Siti Fatimah Abidin (**2016**), Test Input Generation for Detecting SQL Injection Vulnerability in Web Application, International Conference on Computer Science, Engineering and Technology.	International
6	Nor Azliana Akmal Jamaludin, Arniyati Ahmad, **Nor Fatimah Awang** and Zuraini Zainol (**2018**), The Design of Promoting Building Energy Saver with Mobile Controller, International Conference on Information and Communication Technology Malaysia ICICTM 2018, Kuala Lumpur, Malaysia, 2018.	International
7	**Nor Fatimah Awang** and Azizah Abd Manaf (**2015**), A Model for Conducting Security Assessment within an Organisation, The Ninth International Conference on Emerging Security Information, Systems and Technologies,	International
8	**Nor Fatimah Awang,** Azizah Abd Manaf (**2015**), Automated security testing framework for detecting SQL injection vulnerability in web application, 10th International Conference on Global Security, Safety, and Sustainability, pp. 160-171.	International
9	**Nor Fatimah Awang**, Azizah Abd Manaf (**2015**), A Model for Conducting Security Assessment within an Organisation, The Ninth International Conference on Emerging Security Information, Systems and Technologies, pp 92-97 ISBN: 978-1-61208-427-5	International
10	**Nor Fatimah Awang,** Azizah Abdul Manaf and Wan Shafiuddin Zainudin (**2014**), A survey on conducting vulnerability assessment in web-based application, International Conference on Advanced Machine Learning Technologies and Applications, pp. 459-471	International
11	**Nor Fatimah Awang** and Azizah Abd Manaf (**2013**), Detecting vulnerabilities in web applications using automated black box and manual penetration testing, International Conference on Security of Information and Communication Networks, pp. 230-239.	International
12	**Nor Fatimah Awang** and Azizah Abd Manaf (**2013**), SELF ASSESSMENT FRAMEWORK FOR DETECTING VULNERABILITY IN WEB APPLICATIONS, The Second International Conference on e-Technologies and Networks for Development (ICeNd 2013) pp. 283-287 ISBN: 978-0-9891305-0-9.	International
13	**Nor Fatimah Awang** and Azizah Abd Manaf (**2012**), Web Application Vulnerability, in Postgraduate Annual Research on Informatics Seminar (PARIS) 2012, UTM Kuala Lumpur, 28 Nov 2012.	National
14	Fatin Farhana Abd Khalid, Syed Nasir Alsagoff bin Syed Zakaria and **Nor Fatimah Awang (2012)**, FRAMEWORK OF LOCATION DETECTION IN A BUILDING STRUCTURE USING BLUETOOTH TRIANGULATION METHOD, Kolokium Sains dan Teknologi Pertahanan 2012 – 10 April 2012	University
15	**Nor Fatimah Awang**, Arniyati Ahmad and Siti Rohaidah Ahmad (**2011**), Preventing Web Browser from Cyber Attack, 2nd Annual International	International

	Conference on Information Technology Security (ITS 2011), Port Canning, Singapore, 2011.	
16	Siti Rohaidah Ahmad, Arniyati Ahmad, Nazatul Naquiah Ahba Abd Hamid, Mohd Sharif Ab Rajab, **Nor Fatimah Awang** and Muslihah Wook (**2011**). Development of a single honeypot system interface. Paper presented at the International Conference on Computing and Informatics (ICOCI) 2011, 8 – 9	International
17	Arniyati Ahmad, Siti Rohaidah Ahmad, **Nor Fatimah Awang** and Zulkarnain Md. Ali (**2011**), Web Vulnerability Assessment: Outsource dilemmas, Proceedings of the 2011 International Conference on Electrical Engineering and Informatics, DOI: 10.1109/ICEEI.2011.6021795	International (**)
18	Siti Rohaidah Ahmad, Arniyati Ahmad, **Nor Fatimah Awang**, Nik Nur Aisyah Nik Ghazali (**2010**), Customizing GINA for authentication in virtualization, International Symposium on Information Technology, pp. 597 -600.	
19	**Nor Fatimah Awang** (**2009**), Trusted Computing – Opportunities and Risks, The fourth International Workshop on Trusted Collaboration 2009, Double Tree Hotel, Crystal City, Washington DC, USA, 11-14 Nov 2009, ISBN 978-963-9799-76-9	Internation (**ieee)
20	Muslihah Wook, Norshahriah Wahab, **Nor Fatimah Awang**, Yuhanim Hani Yahaya, Mohd Rizal Mohd Isa and Hoo Yann Seong (**2009**). Predicting NDUM students' academic performance using data mining techniques. Paper presented at the 2nd International Conference on Computer and Electrical Engineering (ICCEE 2009), pg 357-361, ISBN 978-0-7695-3925-6, 28 – 30 December 2009, Dubai UAE	International
21	**Nor Fatimah Awang** (**2009**), Trusted computing: Challenges & solutions, The 2nd International Conference on Computing and Informatics ICOCI 2009, Kuala Lumpur.	International

2.3 Presentation:

(Please list in chronological order)

No.	Event	Title of Paper Presented	Role (Keynote Speaker / Invited Speaker / Presenter)	Date	Organizer
1	The 5th International Conference of Reliable Information and Communication Technology 2020 (IRICT 2020)	Security and Threats in The Internet of Things Based Smart Home	Presenter	**2020**	UTM, Skudai JOHOR
2	7th International Conference on Cyber and IT Service Management (CITSM)	Method For Generating Test Data For Detecting SQL Injection Vulnerability in Web Application	Presenter	**2019**	KICT, IIUM and UIN, Jakarta
3	The Second International Conference on Computational Science and Engineering 2017	Automated Test Input Generation for Detecting SQL Injection Vulnerability using Set Theory Concept	Presenter	**2017**	Universiti Malaysia Sabah
4	International Conference on Computer Science, Engineering and Technology	Test Input Generation for Detecting SQL Injection Vulnerability in Web Application	Presenter	**2016**	UTM, Jalan Semarak, Kuala Lumpur
5	International Conference on Global Security, Safety, and Sustainability	Automated Security Testing Framework For Detecting SQL Injection Vulnerability in Web Application	Presenter	**2015**	London, UK
6	The Ninth International Conference on Emerging Security Information,	A Model for Conducting Security Assessment within an Organisation	Presenter	**2015**	SECURWARE 2015, Venice, Italy

	Systems and Technologies				
7	International Conference on Advanced Machine Learning Technologies and Applications	A survey on conducting vulnerability assessment in web-based application	Presenter	**2014**	AMLTA 2014
8	International Conference on Security of Information and Communication Networks	Detecting vulnerabilities in web applications using automated black box and manual penetration testing	Presenter	**2013**	UTM
9	The Second International Conference on e-Technologies and Networks for Development (ICeNd 2013)	Self Assessment Framework for Detecting Vulnerability in Web Applications	Presenter	**2013**	SDIWC, Kuala Lumpur
10	Web Application Vulnerability	Postgraduate Annual Research on Informatics Seminar (PARIS) 2012	Presenter	**2012**	UTM, Kuala Lumpur
11	2nd Annual International Conference on Information Technology Security (ITS 2011), Port Canning, Singapore	Preventing Web Browser From Cyber Attack	Presenter	**2011**	GCSE, Singapore
12	The fourth International Workshop on Trusted Collaboration 2009, Double Tree Hotel, Crystal City, Washington DC	Trusted Computing – Opportunities and Risks	Presenter	**2009**	IEEE

13	The 2nd International Conference on Computing and Informatics ICOCI 2009	Trusted computing: Challenges & solutions	Presenter	**2009**	Universiti Utara 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

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	Ketua Jabatan Sains Komputer	Feb 2010- Jan 2012

3.4 Service to the community

(Please list in chronological order)

No.	Organization	Role	Start Date	End Date	Level
1.		Speaker			

I declare that all the information in this form is true and correct. The University has the right to withdraw or reject the application if any information in this form found to be untrue.

Signature   :

Name   :   **Nor Fatimah Binti Awang**

Faculty/Department   :   **FSTP/Computer Science**

Date   :   **2/2/2023**