


CV

CURRICULUM VITAE

01. PERSONAL PARTICULARS	
Full Name	 Omar bin Zakaria
Current Position Faculty / Department	Professor (VK7) Department of Computer Science Faculty of Defence Science & Technology, UPNM
Salutation	Prof. Ts. Dr. Omar bin Zakaria
Nationality	Malaysian
Specialisation	Information Security Management
Date/Place of Birth	28 September 1970 / Parit Buntar, Perak
Status	Married with seven children
Contact Numbers	012-9180186 / 03-61771525
E-mail Address	manafzack@gmail.com / omar@upnm.edu.my

II. ACADEMIC AND PROFESSIONAL QUALIFICATIONS			
(Please list all academic qualifications, from your first degree, in chronological order)			
Year	Degree	Discipline	University
2007	Ph.D	Information Security Management	Royal Holloway, University of London
1996	MSc	Information Security Computer Science	Royal Holloway, University of London
1994	BComp Sc		University of Malaya (UM)
Year	Professional Qualifications	Discipline	Awarded by
2018	Technical Professional carries Ts title	Cyber Security	MBOT
2013	PRINCE2 (Projects in Controlled Environment, Version 2)	Project Management	Prestariang Sdn Bhd
2013	Lead Assessor for ISO/IEC 27001 Information Security Management System (ISMS)	Information Security Management and Assurance	Profesional Evaluation & Certification Board (PECB), Montreal, Canada
2011	Certified Ethical Hacker (CEH)	Technical Aspects of Information Security Management	EC Council
2010	Certificate on I-Citizen	Information Security Awareness	Prestariang Sdn Bhd and Certiport USA
2010	Lead Assessor for ISO 9001:2008 Quality Management System (QMS)	Quality Management System	SIRIM QAS Sdn Bhd
	Certified OpenOffice.org and Linux Desktop (COOL)	Operating Systems	Open Source Competency Centre, Cyberjaya
III. TITLES OF POSTGRADUATE THESES WRITTEN			
No.	TITLES OF POSTGRADUATE THESES		
1.	Ph.D thesis: Investigating information security culture challenges in a public sector organisation: a Malaysia case		
2.	Master dissertation: Disaster Recovery Planning For Banks: Malaysian Scenario		

IV. WORK EXPERIENCE (Please list your relevant experience in chronological order)			
Year	Position	Field of Work	Place of Work
Oct 1994 – Jan 1995	Analyst Programmer	Programming	Maybank, Menara Maybank, Jln Tun Perak, KL
Feb 1995 – Oct 1996	SLAB Tutor	Doing Master of Science	University of Malaya, 50603 KL
Nov 1996 – Apr 2006	Lecturer	Academic works	University of Malaya, 50603 KL
Apr 2006 – 30 Jun 2010	Senior Lecturer	Academic works	University of Malaya, 50603 KL
1 Jul 2010 – 14 Jun 2016	Associate Professor (AP)	Academic works	UPNM, Kem Sg Besi 57000 KL
15th Jun 2016 – now	Professor	Academic works	UPNM, Kem Sg Besi, 57000 KL

1.0 TEACHING AND SUPERVISION

1.1 Undergraduate Courses

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

No	Course Title	Semester	Year
1	WS312-PENGAUDITAN KOMPUTER	Semester 1 & 2	1996/1997
2	WS405-KESELAMATAN KOMPUTER & PENGEMBALIAN BENCANA	Semester 1 & 2	1997/1998
3	WS312-PENGAUDITAN KOMPUTER	Semester 1 & 2	1997/1998
4	WRES3304-COMPUTER CRIME	Semester 1	1997/1998
5	WXES1301-OPERATING SYSTEM	Semester 2	1997/1998
6	WS405-KESELAMATAN KOMPUTER & PENGEMBALIAN BENCANA	Semester 1 & 2	1998/1999
7	WRES3301-CRYPTOGRAPHY	Semester 1	1998/1999
8	WXES2301-COMPUTER SECURITY & DISASTER RECOVERY	Semester 2	1998/1999
9	WXES1301-OPERATING SYSTEM	Semester 2	1998/1999
10	WXET2301-COMPUTER SECURITY & DISASTER RECOVERY	Semester 1	1999/2000
11	WXES2302-DATA COMMUNICATION & COMPUTER NETWORKING	Semester 2	1999/2000
12	WXET2301-COMPUTER SECURITY &	Semester 1	

	DISASTER RECOVERY		2000/2001
13	WXES2105-DATA COMMUNICATION I	Semester 2	2000/2001
14	WXET2301-COMPUTER SECURITY & DISASTER RECOVERY	Semester 1	2001/2002
15	WXES2105-DATA COMMUNICATION I	Semester 1	2001/2002
16	WRES3306-DISASTER RECOVERY PLANNING	Semester 2	2005/2006
17	WRES2101-INTERNET & INTRANET	Semester 2	2005/2006
18	WXES2104-SYSTEM ANALYSIS & DESIGN	Semester 2	2005/2006
19	WXET2143-INTRODUCTION TO OPERATING SYSTEM	Semester 2	2006/2007
20	WXET3143-INTRODUCTION TO COMPUTER NETWORK	Semester 2	2006/2007
21	WRES3307-COMPUTER SECURITY	Semester 2	2006/2007
22	WRES3307-COMPUTER SECURITY	Semester 1	2006/2007
23	WRES3304-COMPUTER CRIME	Semester 1	2006/2007
24	WXES1110-OPERATING SYSTEM	Semester 2	2007/2008
25	WXES1110-OPERATING SYSTEM	Semester 1	2007/2008
26	WXES1110-OPERATING SYSTEM	Semester 1	2008/2009
27	WRES3307-COMPUTER SECURITY	Semester 1	2008/2009
28	WRES2109-MATHEMATICS IN NETWORKING	Semester 2	2008/2009
29	WRES3301-CRYPTOGRAPHY	Semester 2	2008/2009
30	WRES3313-WIRELESS NETWORK SECURITY	Semester 1	2009/2010
31	WRES3301-CRYPTOGRAPHY	Semester 2	2009/2010
32	TSS2223 – COMPUTER NETWORK SECURITY	Semester 1	2010/2011
33	TSS3253 – INFORMATION SECURITY MANAGEMENT	Semester 2	2010/2011
34	TSS2223 – COMPUTER NETWORK SECURITY	Semester 1	2011/2012
35	TSS3253 – INFORMATION SECURITY MANAGEMENT	Semester 2	2011/2012
36	TSS2123 – OPERATING SYSTEMS	Semester 1	2012/2013
37	TSS3253 – INFORMATION SECURITY MANAGEMENT	Semester 2	2012/2013
38	TSS3233 – ETHICAL HACKERS	Semester 2	2012/2013

39	FCS0634 – INTRODUCTION TO INFORMATION TECHNOLOGY	Semester 1	2013/2014
40	TSS2123 – OPERATING SYSTEMS	Semester 1	2013/2014
41	TSS3253 – INFORMATION SECURITY MANAGEMENT	Semester 2	2013/2014
42	TSK2123 – OPERATING SYSTEMS	Semester 3	2013/2014
43	TSS2223 – COMPUTER NETWORK SECURITY	Semester 1	2014/2015
44	TSS3253 – INFORMATION SECURITY MANAGEMENT	Semester 2	2014/2015
45	TSS2223 – COMPUTER NETWORK SECURITY	Semester 1	2015/2016
46	TSS3253 – INFORMATION SECURITY MANAGEMENT	Semester 2	2015/2016
47	TSS2223 – COMPUTER NETWORK SECURITY	Semester 1	2016/2017
48	TSS3253 – INFORMATION SECURITY MANAGEMENT	Semester 2	2016/2017
49	TSJ3213 – DISCRETE MATHEMATICS	Semester 1	2017/2018
50	TSS3253 – INFORMATION SECURITY MANAGEMENT	Semester 2	2017/2018
51	No taught any classes during medical leave (1 July 2018 – 31 December 2019)		
52	Operating Systems	Semester 2	2019/2020

1.2 Postgraduate Courses

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

No	Course Title	Semester	Year
1	OPERATING SYSTEMS	Semester 1	2000/2001
2	OPERATING SYSTEMS	Semester 1	2001/2002
3	FOUNDATIONS OF INFORMATION TECHNOLOGY	Semester 1	2007/2008
4	NETWORK SECURITY AND MANAGEMENT(#WXGE6105)	Semester 2	2007/2008
5	NETWORK SECURITY AND MANAGEMENT	Semester 2	2008/2009
6	RESEARCH FOUNDATION IN COMPUTER SCIENCES	Semester 2	2008/2009
7	NETWORK SECURITY AND MANAGEMENT	Semester 2	2009/2010

1.3 Ph.D Supervision

(Please list in chronological order and state: name of student, year project title and status)

No	Name of Student	Project Title	Commence Year	Status <ul style="list-style-type: none"> • Completed • Submitted • In Progress
1	Saman Mirza Abdulla (Iraq) – UM	An Artificial Co-Stimulation Classifier For Malicious API Calls Classification in Portable Executable Malwares	2009	Viva on 27/3/2013 Graduated 2013
2	Ahmad Nazri Mansor (Malaysia) – UM	Investigating Information Privacy in Financial Institution: A Malaysian Case (Tentative Title)	2008	Suspended (Missing in Action)
3	Mohammad F. S. Abuhweidi (Palestin) – UM	Information Security Management (Tentative Title)	2010	Suspended (Missing in Action)
4	Mohd Nabil bin Zulhemay (Malaysia) – UPNM	Enhancing Information Security Practices Using a Structured Information Security Awareness Programme (Tentative Title)	2011	Suspended (Very slow progress)
5	Rohana binti Mohamad Rashid (Malaysia) – UPNM	Understanding and Measuring the Impact of Information Security Knowledge on Organisations' Security Effectiveness (Tentative Title)	2011	Waiting for viva on 23 Jan 2020
6	Wan Su Emi Yusnita binti Wan Syed Zakaria (Malaysia) - UPNM	Enhancement of Knowledge-Based Framework for Military Observer in Peacekeeping Activities	2014	Viva Nov 2018 Graduated 2019
7	Zosipha binti Zainal Abidin (Malaysia) – UPNM	Improving Forensic Data Collection and Analysis Using Parallelism Technique (tentative title)	2014	Suspended (Very slow progress)
8	Kol Husin bin Jazri (B) (Malaysia) - UPNM	Cybersecurity Wellness Index Evaluation Framework for Critical Organisations	2014	Viva Jan 2019 Graduated 2019

1.4 PhD.External/Internal Examination

(Please list in chronological order and state: name of student, year project title and status)

No	Name of Student (under my external examination)	Project Title	Year	Status <ul style="list-style-type: none"> • Completed • Submitted • In Progress
1	R Ganesan (India) Bharathiar University, Coimbatore, Tamil Nadu, India	Framework For Adoption of Hyperelliptic Curve Cryptography Technique Over Finite Field Fp of Genus 2 To Achieve The Robust Network Security	2010	Failed
2	Awni Atallah Rawashdeh, Universiti Utara Malaysia (UUM)	Investigating XBRL diffusion: Toward establishing content validity	2010	Passed
3	Anazida binti Zainal Universiti Teknologi Malaysia (UTM)	An Adaptive Intrusion Detection Model For Dynamic Network Traffic Patterns Using Machine Learning Techniques	2011	Passed
4	Akilah Abdullah Universiti Utara Malaysia (UUM)	Preparing Individuals for Establishing Organizational Learning-Based System: Self- Talk Therapy Approach	2011	Passed
5	Ganthan Narayana Samy Universiti Teknologi Malaysia (UTM)	An Integrated Approach for Identifying Informatin Security Threats in Healthcare Information Systems	2011	Passed
6	Marhaiza binti Ibrahim (UUM)	Determining Critical Factors Of E- Procurement Usage Among Malaysia Suppliers Towards Performance Impact	2012	Passed
7	Ismahani binti Ismail (UTM)	Augmenting Naïve Bayes Classification at Stateless Packet With Domain Knowledge in Detecting Unknown Malware (Tentative title)	2013 (7/1/13)	Major correction and reviva. She has resubmitted hes thesis to be reviewed on 30/7/2013. Passed
8	Babatunde Dorcas Adebola (Nigeria – UUM)	Determinant of Information Security Management in the Banking Sector: Evidence from Nigeria (Tentative title)	2013 3/2/13	Viva on 3/2/2013. Passed
9	Bala Musa Shuaibu (Saudi Arabia – USIM)	Secure Web Application Development Framework (Tentative title)	2013	Done re-viva and doing major correction

10	Suhaila binti Samuri (UTM)	Privacy in Personal Medical Information Management (Tentative Title)	2013	Passed
11	Munirah Ula (Indonesia – UTM)	An Approach For Evaluating Information Security (ISG) Implementation in Banking System (Tentative title)	2013	Doing major correction
12	Nurul Nuha Abdul Molok The University of Melbourne, Victoria, 3010 Australia	Online Social Networking: Looking at The Potential For Leakage Of Organizational Information Systems	2014	Passed
13	Ahmad Bakhtiyari Shahri (Iran – UTM)	Security Effectiveness for Health Information Systems Based on User's Behaviors (Tentative title)	2014	Done major correction
14	Fatemeh Meskaran (UTM)	The Effect of Trust and Security on Online Purchase Intention in B2C E-Commerce	2014	Viva 2015. Major correction
15	Saliza binti Abdul Aziz (UUM)	The Determinants of Tax E-Filing among Tax Preparers in Malaysia	2014	Viva Dec 2014. Done the minor correction. Passed
16	Ahmad Issa Saleem Al Zoubi (Jordan – USIM)	E-Learning Adoption Successful Among Adult Workers in Arab Open University Jordan	2015	Viva 3 June 2015 Reviva
17	Obasan Adebola Olukayode (Nigeria – UTM)	Improving Memorability and Security in Graphical Password Authentication System Using Autobiographical Memory	2015	Viva 2015. Reviva
18	Ali Soleymani (Iran)	Asymmetric Cryptography For Securing Images Based on Elliptic Curve and Chaotic Maps	2015	29 June 2015. Major Correction
19	Qais Saif Qassim (Iraq – UKM)	Anomaly-Based IDS Alarm Management System Using Cluster-Based Alarm Classification Approach (Tentative title)	2016	5 Januari 2016. Major correction
20	Sheila Mahalingam (UTEM)	A New Mobile Learners' Security Model for M-Learning Environment	2016	Viva 1 Mac 2016 Major correction
21	Khaled Alenzi (Kuwait- UIAM)	Propose a Minimum Set Capabilities and Requirements for Establishing a National CERT for Protecting Government Entities (GES) from Cyber-Attacks Case Study: Arabian Gulf Countries (Tentative title)	2016	Resubmission
22	UTEM, USIM		2017	
23	Amjad A. M. Mahfuth (Palestine- UNITEN)	Information Security Management	2019	Reviva and minor correction

1.5 Supervision (Coursework and Project)

(Please list in chronological order and state: name of student, year, project title & status)

No	Name of Student	Project Title	Year	Status <ul style="list-style-type: none"> • Completed • Submitted • In Progress
1	5 students	Computer Science Projects (UM)	1997/ 1998	Completed
2	22 students	Computer Science Projects (UM)	1998/ 1999	Completed
3	24 students	Computer Science Projects (UM)	1999/ 2000	Completed
4	13 students	Computer Science Projects (UM)	2000/ 2001	Completed
5	15 students	Computer Science Projects (UM)	2001/ 2002	Completed
6	4 students	Computer Science Projects (UM)	2006/ 2007	Completed
7	8 students	Computer Science Projects (UM)	2007/ 2008	Completed
8	6 students	Computer Science Projects (UM)	2008/ 2009	Completed
9	Mohd Asyraf Aizat bin Mohd Roslee	Sistem Perbandingan Nama Proses Di Task Manager	2010/ 2011	Completed
10	Abdul Rahim bin Zulkefeli	Sistem Rekod Maklumat Pergigian Kakitangan UPNM Secara Dalam Talian Menggunakan MyKAD	2010/ 2011	Completed
11	Norazurah binti Madzlan	Sistem Pakar Dalam Pengenalpastian Tumbuhan Renek Yang Boleh Dimakan	2010/ 2011	Completed
12	Nurfarahin binti Ibrahim	Sistem Penyaringan Calon Kadet Menggunakan Rantaian Ke Hadapan	2010/ 2011	Completed
13	Syahirul Amilin bin Mohamad	Sistem Katalaluan Bergrafik Resistan Kepada <i>Shoulder Surfing</i>	2010/ 2011	Completed
14	Muhammad Azfar bin Baharudin	Sistem Pemilihan Katalaluan Menggunakan Kaedah <i>Query Directed Password</i>	2010/ 2011	Completed
15	Nurfahizatul Shafinaz binti Razlan	Sistem Kata laluan Single Sign on (SSO)	2011/ 2012	Completed
16	Ahmad Adli bin Noor Zam	Sistem Curriculum Vitae (CV) Untuk Pensyarah	2011/ 2012	Completed
17	Nibrasul Huda binti Zain	Sistem Inventori Dalam Talian (Inventory Online System)	2011/ 2012	Completed

18	Mohamad Nur Hidayat bin Zarkia @ Zakaria	Sistem Penghantaran Mesej Bergambar Menggunakan Kaedah Penyelesaian Kriptografi	2011/ 2012	Completed
19	Nur Fauriziana binti Md Yusof	Sistem Kata laluan Bergrafik Menentang Dari Perisian Intip	2011/ 2012	Completed
20	Norsyahirah binti Abd Hamid	Sistem Pengurusan Inventori FSTP Menggunakan RFID	2011/ 2012	Completed
21	Hijratul Sakinah binti Abd Razak	Sistem Kata laluan Menggunakan Pendekatan Kaedah Graphical Query Directed Password (QDP)	2011/ 2012	Completed
22	Hilmi Farhan bin Sofian	Sistem Penghantaran SMS Selamat Menggunakan Emulator	2011/ 2012	Completed
23	Mohd Adreen Nujjaid bin Mohd Khairul	Dual Authentication Using Push and Pull Password	2011/ 2012	Completed
24	8 UPNM students	8 Final titles have been submitted	2012/ 2013	Completed
25	4 UPNM students	4 Final titles have been submitted	2013/ 2014	Completed
26	3 UPNM students	3 Final titles have been submitted	2015/ 2016	Completed
27	1 UPNM student	1 Final title have been submitted	2016/ 2017	Completed
28	1 UPNM student	1 Final title have been submitted	2017/ 2018	Completed

1.6 M.Sc (by Research)

(Please list in chronological order and state: name of student, year, project title & status)

No	Name of Student	Project Title	Year	Status <ul style="list-style-type: none"> • Completed • Submitted • In Progress
1	Koong De Hai	Improving accountability mechanism in social media (tentative title)	2016	Withdrawn
2	Mohd Daniel bin Zakaria	Establishing mesh network in infantry operation environment (tentative title)	2014	Withdrawn
3	Nor Faiz bin Muhammad Nor (Malaysia)	Establishing A Framework for Controlling Rumours in Twitter: A Case of Critical Network Information Infrastructure (CNII) Organisations	2013	In Progress (Very slow progress)
4	Toomaj Zangoeei (Iran)	Enhancing Mixing Recognition-Based and Recall-Based Approach in Graphical Password Scheme	2011	Completed
5	Mohamed Ali Saleh Abomhara (Libya)	Enhancing Selective Encryption For H.264/AVC	2011	Completed

		Using Advanced Encryption Standard		
6	Abdalla Abdel Hamed Mohamed Medani (Sudan)	Securing Mobile Messaging Using XML Key Management Specification	2011	Completed
7	Daryoush Naghneh (Iran)	A Key and Certificate Management For Mobile MMS Encryption System	2010	Completed
8	Masood Mansoori (Iran)	Increasing exposure of intrusion deception system through hybrid honeypot implementation	2010	Completed
9	Murugan Thangavelu s/o	Combating Fraud and Theft Threats At Host Level Using Intrusion Prevention System	2010	Completed
10	Lai Hooi Li @ Lee Hooi	Cued Recall Graphical Password System Resistant To Shoulder Surfing	2009	Completed
11	Samaneh Farmand (Iran)	Improving Graphical Password Resistant to Shoulder-Surfing Using RBSR4	2009	Completed
12	Lai Ngan Kuen	Mobile messaging using public key infrastructure : M-PKI	2009	Completed
13	Lim Boon Peng	Role-Based Access Control in Kidney Dialysis Information System	2000	Completed
14	Lee Chee Kiam	Enhanced password-based authentication protocol	2000	Completed
15	Low Chin Seng	Disaster Recovery Planning: Local and Remote Data Backup System	2000	Completed
16	Siti Rahayu binti Selamat	Web Server Scanner: Scanning On IIS, CGI and HTTP	1999	Completed

1.7 M.Sc. External/Internal Examination

(Please list in chronological order and state: name of student, year, project title and status)

No	Name of Student	Project Title	Year	Status <ul style="list-style-type: none"> • Completed • Submitted • In Progress
1	Ang Tan Fong (UM)	MPLS VPN Simulation MP-iBGP	2001	Completed
2	Lam Wai Leong (UM)	Performance evaluation of compression techniques on scientific dataset	2006	Completed
3	Ng Tiong Sheng (UM)	Dynamic Data Replication Strategy in Data Grid	2008	Completed
4	Aos A. Z. Ansaef (UM) (Iraq)	Securing Cover-File of Hidden Data Using	2008	Completed

		Statistical Technique and AED Encryption Algorithm		
5	Hasimi Sallehudin (UM)	Identifying False Alarm Using Data Mining and Decision Tree	2008	Completed
6	Creswell Du Preez (Nelson Mandela Metropolitan University, Port Elizabeth, South Africa)	Addressing the Digital Divide Through the Implementation of a Wireless School Network	2009	Completed
7	Ryan Gavin Goss (Nelson Mandela Metropolitan University, Port Elizabeth, South Africa)	Cognitive Mapping of Information Security Concepts for Adaptive e-Learning Systems	2009	Completed
8	Bilal Bahaa Zaidan (Iraq)	Enhancement of the Size of Hidden Data and the Quality of Image Using LSB Algorithm	2009	Completed
9	Daniel Hafiz bin Abdullah (UTM)	Usability and security model for graphical password scheme as knowledge based authentication technique	2010	Completed
10	Babak Daghighi (UM) (Iraq)	Key management for secure group communication in a wireless environment	2010	Completed
11	Tan Kit Huang (UM)	Implementation of a Wifi-based Location Awareness System for Multi-Storey Building	2010	Completed
12	Arash Habibi Laskari (UM)(Iran)	A New Algorithm for Graphical User Authentication Based on Rotation and Resizing	2010	Completed
13	Akash Rosen Ram Kalaish (UM)	Dynamic Network Traffic Controlling System Using Normal Prediction Interval	2010	Completed
14	Sunthari Solaimalai (UM)	Intelligent Fault Management Using Cost Sensitive Fault Remedial Approach	2010	Completed
15	Byambasuren Byamba (MMU)(Mongolia)	Secure Transaction Management for Mobile Databases	2011	Completed
16	Iliham T. Ismail (UKM)	Information Security Requirements Framework of E-Business	2011	Completed

17	Widura binti Abd Kadir (UKM)	Model Penilaian dan Pembangunan Laman Web IPTS di Malaysia: Kajian Kes Ke atas Laman Web IPTS Tempatan	2012	Completed
18	Cik Nora binti Salleh (UKM)	Penerapan Elemen Nilai Di Dalam Faktor Kejayaan Kritikal Pembangunan Sistem Aplikasi Kerajaan Elektronik Menggunakan Pendekatan Nilai Cipta Sama	2012	Completed
19	Ikhwan Zaini Awang Mat Saaid (UTM)	Komponen Maklumbalas Insiden Keselamatan Maklumat IPTA	2012 and 2013	Done Major correction. Resubmit. Fail February 2013
20	Sandy Nasution (UTEM) (Indonesia)	Automated Smart Home Security Based on Mobile Agent Analysis on Human Notions of Trust	2012	Passed
21	Lim Kah Seng (UTM)	Developing A Knowledge-Based Graphical Password Anti-Shoulder Suring Mechanism For Mobile Device	2012	Passed
22	Eirmayanti binti Marsam (UKM)	Information system research (tentative title)	2013	Passed
23	Nour Mahmoud Radwan Khafajah (Jordon – USIM)	Design and Implementation of Automatic Encryption For Stored Electronic Document Files (Tentative title)	2014	Passed
24	Mohd Sidek Fadhil bin Mohd Yunus (UPNM) Internal Examiner	A Novel Approach of a Highly Sensitive Authentication using Pixel Value Graphical Password Scheme (Tentative Title)	2014	Failed due to not submitting the final thesis.
25	Lt Kol Kamal bin Kassim (UPNM)	Penggunaan Pesawat Tanpa Pemandu (UAV) bagi Kegunaan Perisikan Strategik	2015	Resubmission
26	Saida Issa Masoud Al Jerbie (USIM)	Investigating Awareness Among Secondary School Students	2015	Passed
27	Ismail Basiru Sanusi (Nigeria – USIM)	Assessing on User Awareness of Security Aspects on e-Banking (Case study in Nigeria)	2015	Passed

28	Moshood Nurudeen Atanda	The Adoption of Blended Learning in Malaysian Public Universities	2015	Passed
29	Sakher Taher Mohammad Al-Sheyyab (Jordan – USIM)	e-Court System for Al-Tayba Court in Jordan	2015	Passed
30	Nor Aza binti Ramli (UIA)	RA-Whiz – Risk Assessment Automation for Information Security Management System	2016	Passed
31	Nur Haizum binti Mustafa (UKM)	Gaya Pembelajaran Pelajar Prasiswazah Sains Komputer	2016	Passed
32	UTEM		2017	Passed
33	Adawiyah Mohamed Ridza (UIAM)	CyberSecurity Capability Maturity Model based on Maqasid Al-Shaei'ah	2019	Passed with minor correction

2.0 RESEARCH AND PUBLICATION

2.1 Research Projects

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

	Title	List of Rresearchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
1	Interactive Multimedia for Learning Trigonometry Omar Zakaria , Norijah Husin and Siti Aishah Hashim Ali	Principal	1996-1997	RM 35,000 (UM Grant)	Completed
2	Security Issues and Software Piracy: A Study of Use Attitude of Organisations in Malaysia Omar Zakaria	Principal	1997-1998	RM 25,000 (UM Grant)	Completed
3	Attitude of Choosing a Good Password Amongst Students in FSKTM, UM Omar Zakaria	Principal	1998-1999	RM 11,000 (UM Grant)	Completed
4	Customer Verification Using Query Directed Password in Call Centre Environment Omar Zakaria	Principal	2007-2008	RM 31,000 (UM Grant)	Completed
5	Development of Quality Assurance Model for IT Implementation on SMEs in Malaysia Mohd Hairul Nizam Md Nasir, Mustaffa Mohd Nor, Omar Zakaria	Member	2007-2008	RM 50,000 (UM Grant)	Completed
6	SMS/MMS Encryption for Secure Mobile Communication using Public Key Infrastructure: M-PKI Omar Zakaria , Nor Badrul Anuar Jumaat, Ainuddin Wahid, Amirrudin Kamsin	Principal	2007-2009	RM 186,200 (E-Science Fund – MOSTI)	Completed
7	An analytical Study of 4-Way Recognition Based Sequence Reproduction Scheme in Graphical Password Samaneh Farmand, Omar Zakaria	Member	2009-2010	RM 2,500 (UM Grant)	Completed

8	Implementing Encryption on H.264/AVC Video Mohamed Abomhara, Omar Zakaria	Member	2009-2010	RM5,100 (UM Grant)	Completed
9	Devising An Artificial Immune System To Detect Computer Encrypted (Polymorphic) Viruses Using Genetic Algorithm. Saman Mirza Abdulla, Omar Zakaria	Member	2010-2011	RM5,350 (UM Grant)	Completed
10	Program Pembangunan Kepimpinan Tunas Akademia Sazali Abdul Wahab, Ahmad Mujahid Ahmad Zaidi, Omar Zakaria , Hishamuddin Mat Som	Member	2011	RM298,800 (AKEPT Grant)	Completed
11	Memupuk Kesedaran Keselamatan Di Kalangan Remaja Di Malaysia: Program di Sek Men Islam Al-Amin, Gombak, Selangor Omar Zakaria , Mohd Afizi Mohd Shukran, Kamarulzaman Maskat, Mohamad Adib Khairuddin, Azura Amid	Principal	2012 – 2013	RM 51,819 Knowledge Transfer Programme Grant (KPT)	Completed
12	Establishing A Structured Information Security Awareness Framework Omar Zakaria , Mohd Afizi Mohd Shukran, Aini Sulaiman dan Abdullah Gani	Principal	2012-2014	RM 47,500 RACE (KPT)	Completed
13	A Novel Approach Network Intrusion Detection Using Data Pattern Recognition and Data Mining Techniques Mohd Afizi Mohd Shukran, Omar Zakaria , Suzaimah Ramli, Aini Hussain & Abdullah Gani	Member	2012-2015	RM 50,000 RACE (KPT)	Completed
14	Usability Model for Mobile Applications in Defence Training Amalina Farhi Ahmad Fadzhiah, Omar Zakaria , Mohar Kassim, Aziz Deraman, Abdul Razak	Member	1 Jun 2013-31 May 2015	RM 74,800 ERGS	Completed

	Hamdan, Jamaiah Yahaya & Yusmadi Yah Jusoh				
15	Establishing A Framework On Controlling Rumours Propagation On Twitter: A Case of CNII Organisations. Omar Zakaria , Mohd Nazri Ismail, Mohd Afizi Mohd Shukran & Puteri Nor Ellyza Nohuddin	Principal	16 Dec 2013 - 15 Jun 2016	RM76,000 FRGS	Completed
16	Development of Knowledge-Based Software With Enhanced Situational Awareness Analysis For Infantry Personnel. Omar Zakaria , Mohd Nazri Ismail, Ungku Azly Ungku Zahar, Mohd Hazali Mohamed Halip, Mohd Afizi Mohd Shukran & Puteri Nor Ellyza Nohuddin	Principal	16 Dec 2013 – 16 Dec 2018	RM 981,940 NRGS	Completed
17	Cyber Forensic Analyser Tool for Smartphones To Secure Cloud Network from Malware Attack. Kamaruzaman Maskat, Zarina Shukor, Omar Zakaria , Mohd Nazri Ismail & Mohd Afizi Mohd Shukran	Member	01 Feb 2014 – 31 Jan 2017	RM 50,000 RACE	Completed
18	Context-Based Keyword Pattern Cluster Analysis Technique on Tacit Knowledge of Military Tactics Centre of Expertise (CoE). Puteri Nor Ellyza Nohuddin, Abdullah Gani, Omar Zakaria , Zuraini Zainol & Mohd Afizi Mohd Shukran	Member	01 Feb 2014 – 31 Jan 2017	RM 50,000 RACE	Completed
19	Theoretical Analysis of Heave Buoy Wave Energy Converter (WEC). Mohamad Abu Ubaidah Amir bin Abu Zarim, Omar Zakaria , Wan Baderul Hisan Wan Muda, Hardy Azmir Anuar, Mohd Afizi Mohd Shukran & Rina Mohd Sharip	Member	1 Sep 2013 – 31 Aug 2015	RM71,000 RAGS	Completed
20	Impact on Environmental Assets: Development of Low Cost Mass Suppliable Water Purifier For Flood Disaster Mohd Afizi bin Mohd Shukran, Zaharin bin Yusof, Omar Zakaria , Mohd Nazri Ismail, Wan Baderul Hisan	Member	1 April 2015 – 31 Dec 2015	RM 81,600 FRGS	Completed

	Wan Muda, Mohamad Abu Ubaidah Amir Abu Zarim, Mohd Hakimi Ahmad Zainuddin & Nur Shazwani Abdul Latif				
21	Proposing Information Security Policy at Hospital USIM. Noraini Abd Jalil, Waidah Ismail, Najwa Haayati Mohd Alwi, Mazlan Mohamad, Nora Ardilla Nordin & Omar Zakaria	Member	2015	RM10,000 PPP/GPTD/30/10315 USIM	Completed
22	Situational Awareness on Current Social Network Issues For Security Personnel Using Data Mining Techniques. Zuraini Zainol, Hassan Mohamed, Mohd Hazali Mohamed Halip & Omar Zakaria	Penyelidik Bersama	1 Dec 2016 – 30 Nov 2018	RM45,000 UPNM/2016/ GPJP/5/ICT/ 4	Completed
23	Semantic-Based Malay Grammar for Social Network Threat Analysis. Hassan Mohamed. Mohd Fahmi Mohamad Amran, Zuraini Zainol & Omar Zakaria	Penyelidik Bersama	1 Dec 2016 – 30 Nov 2018	RM40,000 UPNM/2016/ GPJP/5/ICT/ 5	Completed
24	A Pixel Value Password Scheme on Mobile Devices For Access Control Applications Mohd Fahmi Mohamad Amran, Mohd Afizi Mohd Shukran, Mohd Nazri Ismail, Omar Zakaria , Nurhafizah Moziyana Mohd Yusop, Mohd Rizal Mohd Isa, Nor Azliana Akmal Jamaludin, Hassan Mohamed & Kamaruzaman Maskat	Penyelidik Bersama	1 Dec 2016 – 30 Nov 2018	RM40,000 UPNM/2016/ GPJP/5/ICT/ 6	Completed
25	Securing Communication Network based on New Industry Encryption Method Mohd Rizal Mohd Isa, Mohd Afizi Mohd Shukran, Kamaruzaman Maskat, Mohd Nazri Ismail, Mohammad Adib Khairuddin, Mohd Fahmi Mohamad Amran & Omar Zakaria	Penyelidik Bersama	1 Dec 2016 – 30 Nov 2018	RM40,000 UPNM/2016/ GPJP/5/ICT/ 3	Completed

2.2 Publications

2.2.1 Invited/Keynote Papers/Presentation

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

No	Authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> • International • National • University
1	Omar Zakaria (2015), Establishing Human Firewall Within An Organisation. Malaysia Data Security Forum. Seri Pacific Hotel, Kuala Lumpur, 5/2/2015 – Invited Speaker	National
2	Omar Zakaria (2013), Looking Beyond Firewalls – Building E-Security Culture Within Organisation. E-Crime Conference 17/5/2013, Location: Sunway Putra Hotel, Kuala Lumpur – Invited Speaker	National
3	Omar Zakaria (2013), Navigating Security in The World of Emerging Technologies, InfoSec Asia 2013 Conference 20/3/2013. Location: PWTC, Kuala Lumpur (Presenter – Invited Keynote Address)	National
4	Omar Zakaria and Mohd Hazali Mohamed Halip (2010). Information Security Culture Principles. Prosiding Kolokium Fakulti Sains dan Teknologi Pertahanan 2010. 12-20 ISBN 978-967-5985-10-2 Location: Marine Centre, UPM, Kuala Lumpur (Presenter)	University
5	Xichun Li, Abdullah Gani, Lina Yang, Omar Zakaria & Nor Badrul Anuar (2008), “Mix-Bandwidth Data Path Design for 5G Real Wireless World”, 12th WSEAS International Conference on Communications, WSEAS Press, 23-25 July 2008, Heraklion, Crete, Greece, pp 316-320 Location: Heraklion, Crete Island, Greece (Presenter)	International
6	Nor Badrul Anuar, Lai Ngan Kuen, Omar Zakaria , Abdullah Gani (2008),”Secure Mobile Messaging using Public Key Infrastructure: m-PKI” 12th WSEAS International Conference on Computers, WSEAS Press, 23-25 July 2008, Heraklion, Crete, Greece, pp 76-81 Location: Heraklion, Crete Island, Greece (Presenter)	International
7	Abdullah Gani, Omar Zakaria , Nor Badrul Anuar, Zolkepli Buang, (2007),”Integrating Agent Technology in Teaching and Learning of Computer Security Course in Tertiary Level”, International Conference on Engineering and ICT 2007, Equatorial Hotel, Melaka, Malaysia 27-28 Nov 2007, pp 505-511. Location: Malacca, Malaysia (Presenter)	International
8	Omar Zakaria , (2006), “Internalisation of Information Security Culture Amongst Employees Through Basic Security Knowledge”, Proceedings of the IFIP TC-11 21st International Information Security Conference(SEC 2006), Springer Science & Business Media, 22- 24	International

	May 2006, pp 437-441 Location: Karlstad, Sweden (Presenter)	
9	Omar Zakaria (2005), "Employee Security Perception in Cultivating Information Security Culture", IFIP TC11 WG11.1 AND WG11.5 Joint Working Conference on Security Management, Integrity and Internal Control in Information Systems, Springer Science and Business Media, Fairfax, Virginia (VA), pp 83-92 Location: Virginia, USA (Presenter)	International
10	Omar Zakaria (2005), "Information Security Culture and Leadership", 4th European Conference on Information Warfare, Glamorgan, Wales, pp415-420 Location: Glamorgan, Wales, Great Britian (Presenter)	International
11	Omar Zakaria (2004), "Understanding Challenges of Information Security Culture: A Methodology Issue", 2nd Australian Information Security Management Conference (INFOSEC04), pp 83-93 Location: Perth, Australia (Presenter)	International
12	Omar Zakaria (2004), "Information Security Culture: A Taxonomy of Positive Security Behaviour", The 3rd European Conference on Information Warfare and Security, Egham, Surrey, England, 2004, pp 379-386 Location: Egham, Surrey, England (Presenter)	International
13	Omar Zakaria , Pita Jarupunphol and Abdullah Gani (2003), "Paradigm Mapping for Information Security Culture Approach", The 4th Australian Information Warfare and IT Security Conference, Adelaide, Australia, 20-21 November 2003, pp417-426 Location: Adelaide, Australia (Presenter)	International
14	Omar Zakaria and Abdullah Gani (2003), "A Conceptual Checklist of Information Security Culture", Proceeding of the 2nd European Conference on Information Warfare and Security. Reading, England, 30 June -1 July 2003, pp365-371 Location: Reading, England (Presenter)	International
15	Omar Zakaria and Pita Jarupunphol (2003), "Understanding The Role of Information Security Culture", Proceeding of International Conference on E-Society, Lisbon, Portugal, 3-6 June 2003, pp 1013-1014 Location: Lisbon, Portugal (Exhibitor/Presenter)	International
16	Omar Zakaria (2002), "Information Security Acculturation Challenges in Malaysia: An Introduction", Proceeding of The European Conference on Information Warfare and Security, Uxbridge, England, 8-9 July 2002, pp187-190 Location: Uxbridge, London, England (Presenter)	International

17	<p>Omar Zakaria, Khairul Nidzar Mohd Nasir and Mustaffa Kamal Mohd Nor (2001), "A Proposed Implementation of Linux-Based Thin Client System in Cyber Cafe", International Conference on Technology Education: Optimal Use of Resources, Cape Town, South Africa, 4-6 October 2001</p> <p>Location: Cape Town, South Africa (Presenter)</p>	International
18	<p>Omar Zakaria, Khairul Nidzar Mohd Nasir, Noorzaily Mohd Noor (2001), "Linux-Based Thin Client System Pilot test at FCSIT-UM", International Conference of Information Technology and Multimedia, UNITEN, Selangor, Malaysia, Vol. 2, 13-15 August 2001, pp 59-63</p> <p>Location: UNITEN, Putrajaya, Malaysia (Presenter)</p>	International
19	<p>Omar Zakaria and Hannyzura Pal (2000), "Perancangan Penyediaan Istilah Teknologi Maklumat Bagi Tahun 1998-2002", Seminar Antarabangsa Bahasa Melayu Alaf Baru, UITM, Shah Alam, Selangor, Malaysia, 25-27/9/2000.</p> <p>Location: UiTM, Shah Alam, Selangor, Malaysia (Presenter)</p>	International
20	<p>Mashkuri Yaacob, Ibrahim Abu Bakar, Zaidi Razak & Omar Zakaria. ANN Design Chip For Medical Image Processing. Design Automation Conference, Los Angeles Convention Center, Los Angeles, USA. 6-10/6/2000.</p> <p>Location: Los Angeles Convention Center, USA (Exhibitor)</p>	International
21	<p>Omar Zakaria (1999), "Kaedah Memartabatkan Bahasa Melayu Dalam Teknologi Maklumat", Bahasa Melayu in Cyber Era Seminar, Hotel Istana, Kuala Lumpur, September 1999</p> <p>Location: Kuala Lumpur, Malaysia (Presenter)</p>	National
22	<p>Omar Zakaria, Norijah Hj Husin and Siti Aishah Hashim Ali (1998), "TRIGMET: An Interactive Multimedia Learning Package for Trigonometry", International Conference on Information Technology and Multimedia ICIMU), UNITEN, Selangor, Malaysia, 29/9/1998-1/10/1998. Pp PSA10-1-SA10-6</p> <p>Location: UNITEN, Putrajaya, Malaysia (Presenter)</p>	International
23	<p>Omar Zakaria, Sharifuddin Md Zain and Miss Laiha Mat Kiah (1999), "Y2K Contingency Plan in UM", Holiday Villa, Subang, Selangor, Malaysia, 22 November 1999 NOVEMBER 1999</p> <p>Location: Subang, Selangor, Malaysia (Invited Speaker)</p>	National

2.2.2: Book/Chapter in Book:

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

No	Authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> • International • National • University
1	Omar Zakaria et. al (2015), Kamus Teknologi Maklumat Perisian (Dictionary of Information Technology – Software), Dewan Bahasa & Pustaka, Kuala Lumpur	National
2	Omar Zakaria et. al (2014), Kamus Teknologi Maklumat Keselamatan Komputer (Dictionary of Information Technology – Computer Security), Dewan Bahasa & Pustaka, Kuala Lumpur	National
3	Omar Zakaria (2013), Information Security Culture: A Human Firewall Approach, Lambert Academic Publishing, Germany. ISBN: 978-3-659-35518-9 pp248	International
4	Mohamed Abomhara, Omar Zakaria & Othman O. Khalifa (2011), "Video Encryption Using Computation Between H.264/AVC and AES Encryption Algorithm, In Multimedia Encryption Transmission and Authentication", 2011 pp 28-38, IIUM Press ISBN: 967-418-160-4	University / International
5	Mohamed Abomhara, Omar Zakaria & Othman O. Khalifa (2011), "Selective Video Encryption Algorithm Based on H.264/AVC and AES, In Multimedia Encryption Transmission and Authentication", 2011 pp 39-55, IIUM Press ISBN: 967-418-160-4	University / International
6	Mohd Hazali Mohamed Halip, Omar Zakaria , Rosli Salleh (2007), "Sistem Sokongan Rangkaian Tingkatan 4 & 5" (Network Support System Form 4 & 5), Dewan Bahasa & Pustaka (DBP), Kuala Lumpur, 2007 pp248	National
7	Omar Zakaria et. al.(Subject Matter Expert - SME)(2007), "Glossary of Information Technology - (Abbreviations & Acronyms) - English", Dewan Bahasa & Pustaka, Kuala Lumpur, 2007. ISBN: 978-983-62-6562-3	National
8	Omar Zakaria , (2006), "Internalisation of Information Security Culture Amongst Employees Through Basic Security Knowledge", Proceedings of the IFIP TC-11 21st International Information Security Conference(SEC 2006), Springer Science & Business Media, 22- 24 May 2006, pp 437-441	International
9	Omar Zakaria (2005),"Employee Security Perception in Cultivating Information Security Culture", IFIP TC11 WG11.1 AND WG11.5 Joint Working Conference on Security Management, Integrity and Internal Control in Information Systems, Springer Science and Business Media, Fairfax, Virginia (VA), pp 83-92	International
10	Omar Zakaria et. al. (Subject Matter Expert - SME) (2003)"Glossary of Information Technology - Volume 3: English - Description - Malay &	National

	Malay - English", Dewan Bahasa & Pustaka, Kuala Lumpur, 2003. ISBN: 983-62-8093-6	
11	Omar Zakaria and Miss Laiha Mat Kiah (2002), Pengenalan Kepada Keselamatan Komputer (An Introduction to Computer Security), McGraw Hill (M) Sdn Bhd, pp115	National
12	Omar Zakaria et. al.(Subject Matter Expert - SME) (2000), "Glossary of Information Technology - Volume 2: English - Description - Malay & Malay - English", Publisher: Dewan Bahasa & Pustaka, Kuala Lumpur, 2003. ISBN: 983-62-6561-9	National
13	Abdullah Gani, Omar Zakaria , Rodina Ahmad, Rohana Mahmud, Salimah Mokhtar, Sameem Abdul Kareem, Zarinah Mohd Kasirun (1997), "Microsoft Office 97 Professional: Step by Step (Langkah demi Langkah Microsoft Office 97 Profesional)", Microsoft Press	National
14	Omar Zakaria (1999), "Fundamentals of Internet and Web Publishing", UNITAR teaching module	University
15	Omar Zakaria (1997), "Manual Pengajar untuk MS OFFICE PRO 97 STEP BY STEP 6 in 1 versi Bahasa Malaysia (Microsoft Outlook 97)	University/ National

2.2.3 Journal Article

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

No	Authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name) :	Level
	Omar Zakaria Scopus H-Index = 7 & Citation = 256 (Author Scopus ID: 26025822100) (as at 8 Jan 2020) Google Scholar H-Index = 21, Citation = 1713 (as at 8 Jan 2020) https://orcid.org/0000-0002-6623-0787 Web of Science ResearcherID: I-5424-2016	<ul style="list-style-type: none"> • International • National • University
1	Mohd Fahmi Mohamad Amran, Mohd Afizi Mohd Shukran, Mohd Sidek Fadhil Mohd Yunus, Omar Zakaria, et. al (2019), Testing Design for Pixel Value Graphical Password Scheme on Image Specimens, International Journal of Recent Technology & Engineering (IJRTE), Vol-8, Issue-2S8, August 2019: 1475-1478	International
2	Marzukhi, S. Zakaria, O et al (2018), Framework of Knowledge-Based System for United Nations Peacekeeping Operations Using Data Mining Technique. CAMP 2018: 18-23	International
3	Jazri, H. Zakaria Chikohora E. (2018). IST-Africa 2018	African region
4	Mohamed, H. Zakaria) , et al (2018), Semantic-based social media threats detection. ACM International Conference Proceeding Series 39	International
5	Yusof, WSEY, Zakaria, O et al (2018), Establishment of user requirements handbook based on the situational awareness knowledge for Malaysia military observers. International Journal of Engineering & Technology 7(4): 35-38	International

6	Ismail, M. N, Zakaria O et al (2018), Development of mobile ad-hoc network (MANET) gateway for future soldier communications using Internet of Things (IoT) technology. <i>Journal of Engineering and Applied Sciences</i> 13(11), pp. 4120-4124	International
7	Ismail. W, Zakaria, O et al (2018) Readiness of Information Security Management System (ISMS) policy on hospital staff using e-Patuh system. <i>Journal of Telecommunication, Electronic and Computer Engineering</i> 10(1-11): 47-52	International
8	Omar Zakaria , M.N. Zulhemay, R. M. Rashid & Ganapathy N N D F (2017), Engaging Information Security Awareness on Social Media; A Case Study of Secondary School <i>Students Advanced Science Letters</i> 23(8): 7601-7605	International
9	Zainol,Z. Marzukhi, S. Nohuddin, P.N.E., Noormaanshah, W. M. U & Zakari, O (2017), Document Clustering in Military Explicit Knowledge; A Study on Peacekeeping Documents. <i>Lecture Notes in Computer Science</i> 10645 LNCS, pp175-184	International
10	Muhammad Noor, N. F, Zakaria, O. Nohuddin, P. N. E (2016), A Proposed Framework To Control Rumour Propagation on Twitter For Critical National Information Infrastructure (CNII) Organisations. <i>International Journal of Software Engineering & Computer Systems (IJSECS)</i> , Vol 2:1-9	International
11	Alkhred, F., Nohuddin, P. N., Zainol, Z and Zakaria, O (2016). Sharing explicit knowledge: designing a peacekeeping operation databank. <i>Advanced Science Letter</i> , USA	International
12	Muhammad Noor, N. F., Zakaria, O , Nohuddin, P. N. E, (2014), Semantic Attack Through Social Media: A Case Study of the Employees Provident Fund (EPF), <i>Zulfaqar International Journal of Defence Science, Engineering & Technology</i> , Vol 1, Issue 2	International
13	Rashid, R. M., Zakaria, O. , & Zulhemay, M. N. (2014). Determining critical success factors (CSF) of information security knowledge (ISK) towards organisations' information security effectiveness. <i>Australian Journal of Basic and Applied Sciences</i> , 8(23), 336-344 (Scopus/ISI Indexed)	International
14	Mohamad Abu Ubaidah Amir, Rina Mohd Sharip, Wan Baderul Hisan Wan Muda, Mohd Afizi Mohd Shukran, Hardy Azmir Anuar, Omar Zakaria (2014). Heave Buoy Energy Converters; Simulation of Heave Buoy Response to Wave in Malaysian Water. <i>Energy Procedia</i> . Elsevier. 62:101-111 (Scopus/ISI-Indexed)	International
15	Rashid, R. M., O Zakaria & Zulhamey, M. N, (2013), The Relationship Between Information Security Knowledge and Human Factors: Challenges and Solution. <i>Journal of Theoretical and Applied Information Technology</i> , Volume 57, Issue 1, November 2013, Pages 67-75 (Scopus-indexed)	International
16	Omar Zakaria , Mohd Afizi Mohd Shukran, Toomaj Zangooei (2012), "Graphical Password Authentication: Review and Analysis" <i>Advances in Information Sciences and Service Sciences (An International Journal of Research and Innovation)</i> (Scopus-indexed)	International
17	Omar Zakaria , Mohd Afizi Mohd Shukran, Toomaj Zangooei (2012), "Enhancing Mixing Recognition-Based and Recall-Based Approach in Graphical Password Scheme", <i>International Journal of Advancements in Computing Technology</i> (Scopus-indexed) (accepted)	International

18	Mohd Hazali Mohamed Halip, Mohd Afizi Mohd Shukran, Omar Zakaria , Syed Nasir Alsagoff Syed Zakaria (2012), "Detection of Steganographic Messages in Email Attachment", Modern Applied Science Vol 6. No 11:2012: 29-34 (Scopus-Indexed)	International
19	Masood Mansoori, Omar Zakaria , Abdullah Gani (2012), "Improving Exposure of Intrusion Deception System Through Implementation of Hybrid HoneyPot", International Arab Journal of Information Technology , Vol. 9. No. 4 (ISI-Cited Publication)	International
20	Hamid Mohamadzadeh e.n., Roza Honarbakhsh, Omar Zakaria (2012), A Survey on Dynamic HoneyPots. International Journal of Information and Electronics Engineering, Vol 2, No. 2. March 2012, pp233-237	International
21	Mohd Afizi Mohd Shukran, Omar Zakaria , Noorhaniza Wahid, Ahmad Mujahid Ahmad Zaidi, "A CLASSIFICATION METHOD FOR DATA MINING USING SVM-WEIGHT AND EUCLIDEAN DISTANCE", Australian Journal of Basic and Applied, 5(9), pp.2053-2059, September 2011 (ISI/Scopus-indexed)	International
22	Omar Zakaria , Mohamed Abomhara, Abdullah Gani, O.O. Khalifa, A.A Zaidan, B.B Zaidan, Rame. A, (2011), "An Experiment of Scalable Video Security Solution Using H.264/AVC and AES: Selective Cryptography". International Journal of the Physical Sciences , (ISI-Cited Publication/Accepted)	International
23	Abdalla Medani, Abdullah Gani, Omar Zakaria , A. A. Zaidan and B. B. Zaidan (2011), "Review of Mobile SMS Security Issues and Techniques Towards The Solution. Scientific Research and Essays , Vol 6(6): 1147-1165. (ISI-Cited Publication)	International
24	Saman Mirza Abdulalla, Laiha Mat Kiah, Omar Zakaria (2010), "A Biological Model To Improve PE Malware Detection: Review", International Journal of The Physical Sciences , Vol 5(15): 2236-2247 18 November 2010 (ISI-Cited Publication)	International
25	Omar Zakaria (2011), "Kejuruteraan Sosial: Kaedah Bukan Teknikal Untuk Menerobos Sistem Pengkomputeran", Jurnal Rampak Serantau, Bil 18: 2011, pp302-312, Kementerian Pendidikan Nasional, Jakarta Timur, Indonesia. ISSN: 0853-8484	Regional (Malaysia, Indonesia and Brunei)
26	A.A. Zaidan, B.B. Zaidan, Hamdan O.Alanazi, Abdullah Gani, Omar Zakaria (2010), "Novel Approach for High (Secure and Rate) Data Hidden within Triplex Space for Non Multimedia File, 2010, Scientific Research and Essays (SRE), ISSN 1992- 2248, Lagos, Nigeria. (ISI-Cited Publication)	International
27	M. Abomhara, O. Zakaria and Othman O. Khalifa (2010), "Suitability of Using Symmetric Key To Secure Multimedia Data: An Overview", Journal of Applied Sciences, Asian Network for Scientific Information. 1-6 (Scopus/ISI-Cited Publication)	International
28	M. Abomhara, O. O. Khalifa, O. Zakaria , A. A. Zaidan, B.B. Zaidan and Rame. A (2010), "Video Compression Techniques: An Overview". Journal of Applied Sciences, Asian Network for Scientific Information. 1-7 (Scopus/ISI-Cited Publication)	International
29	M. Abomhara, Omar Zakaria , Othman O. Khalifa, A.A Zaidan, B.B Zaidan (2010), "Enhancing Selective Encryption for H.264/AVC Using Advanced Encryption Standard", International Journal of Computer and Electrical Engineering, 2(2): 223-229	International

30	M. Abomhara, Omar Zakaria , Othman O. Khalifa (2010), "An Overview of Video Encryption Techniques", International Journal of Computer Theory and Engineering, 2(1): 103-110	International
31	X. Li, R. Salleh and Omar Zakaria , (2009) "Wireless Spectrum Combination Protocol for 4G Networks", Journal of Applied Sciences, Issue 9, No. 2, pp 334-341 (Scopus/ISI-Cited Publication)	International
32	X.Li, R. Salleh and Omar Zakaria , (2009), "Mobile Multimedia Control Model for Fire Disaster of City Building", Journal of Applied Sciences, Issue 9, No. 2, pp304-311 (Scopus/ISI-Cited Publication)	International
33	Abdullah Gani, Xichun Li, Lina Yang, Omar Zakaria , Nor Badrul Anuar (2009),"Multi-Bandwidth Data Path Design for 5G Wireless Mobile Internets", Journal WSEAS Transactions on Information Science and Applications , Vol. 6, Issue 2, February 2009, pp 159-168	International
34	Abdullah Gani, Qi Han, Nor Badrul Anuar, Omar Zakaria (2009), Enhancing DSR Protocol Performance in Mobile Ad Hoc Network Using ACK Reply. WSEAS TRANSACTIONS ON COMMUNICATIONS, Vol 8 (2)(Scopus Indexed)	International
35	Abdullah Gani, Lina Yang, Nor Badrul Anuar, Omar Zakaria , Ros Surya Taher, Implementing Lightweight Reservation Protocol for Mobile Network Using Hybrid Schema. WSEAS TRANSACTIONS ON COMPUTERS. Vol 8(3), 2009. (Scopus indexed)	International
36	Nor Badrul Anuar, Lai Ngan Kuen, Omar Zakaria , Abdullah Gani, Ainuddin Wahid Abdul Wahab (2009), "Usability and Performance of Secure Mobile Messaging: M-PKI", WSEAS Transactions on Information Science & Applications, Vol.6, Issue 2, February 2009, pp 179-189	International
37	A. H. Lashkari, O. Zakaria , R. Salleh, S. Farmand, A wide-range survey on Recall-Based Graphical User Authentications algorithms based on ISO and Attack Patterns, International Journal of Computer Science and Information Security (IJCSIS), Vol. 6, No. 3, 2009, USA	International
38	A. H. Lashkari, O. Zakaria , R. Salleh, S. Farmand, Shoulder Surfing Attack in Graphical Password Authentication, International Journal of Computer Science and Information Security (IJCSIS), Vol. 6, No. 2, 2009, USA	International
39	X. Li, R. Salleh, O. Zakaria , Mobile Multimedia Control Model for Fire Disaster of City Building, Journal of Applied Sciences, ISSN 1812-5654, Issue 9, No. 2, pp. 304-311, 2009 (ISI/Scopus Indexed)	International
40	Nor Badrul Anuar, Lai Ngan Kuen, Omar Zakaria , Abdullah Gani, Ainuddin Wahid Abdul Wahab (2008), "GSM Mobile SMS/MMS using Public Key Infrastructure: m-PKI". WSEAS Transactions on Computers, Vol 7, Issue 8, August 2008, pp 1219-1229	International
41	Nor Badrul Anuar, Hasimi Sallehudin, Abdullah Gani , Omar Zakaria (2008), "Identifying False Alarm for Network Intrusion Detection System Using Hybrid Data Mining and Decision Tree", Malaysian Journal of Computer Science , Vol. 21, Issue. 2, pp 101-115 (ISI-Cited Publication)	International
42	Abdullah Gani, Xichun Li, Lina Yang, Omar Zakaria (2008) "Radio Frequency Combination for TCP/IP Suite Protocol Improvement in 4G Mobile Internet Networks", International Journal of Communications, Issue 1, Volume 2, 2008: 27-36	International
43	Emran Mohd Tamil, Abdul Hamid Othman, Shadil Akimi Zainal Abidin, Mohd Yamani Idna Idris, Omar Zakaria (2007), "Password Practices:	National

	A Study on Attitudes towards Password Usage among Undergraduate Students in Klang Valley, Malaysia", Journal for the Advancement of Science & Art, Vol. 3. pp. 37-42 (ISSN 1823-903X)	
44	Nor Badrul Anuar, Omar Zakaria , and Chong Wei Yao (2006), "Honeypot through Web (Honeyd@WEB): The Emerging of Security Application Integration", Journal of Issues in Informing Science and Information Technology, Volume 3, 2006. pp 45 – 56	International
45	Omar Zakaria ,(2006)"Budaya Perancangan Pemulihan Bencana" (Disaster Recovery Planning Culture), Jurnal Rampak Serantau, Brunei, Bil 13: 2006, pp350-359	Regional (Malaysia, Indonesia and Brunei)
46	Abdullah Gani, Omar Zakaria , Nor Badrul Anuar Jumaat (2004), "A Markov Decision Process Model for Traffic Prioritisation Provisioning", Journal of Issues in Informing Science and Information Technology, Vol. 1 2004, pp 905-913	International
47	Omar Zakaria (2003), "Program Budaya Keselamatan Maklumat", (Information Security Culture Programme), Jurnal Rampak Serantau (MABBIM), DBP Brunei. Vol.10 Mac 2003, pp 199-206	Regional (Malaysia, Indonesia and Brunei)
48	Lim Boon Peng, Omar Zakaria and Mustaffa Kamal Mohd Nor (2001),"Role-Based Access Control in Kidney Dialysis Information System, Malaysian Journal of Computer Science , Vol.14, Issue: 2, December 2001, pp20-25 (ISI-Cited Publication)	International
49	Omar Zakaria (2000), "Keselamatan Komputer: Suatu Pengenalan" (Computer Security: An Introduction), Vol. 7, 10 Mac 2000, Jurnal Rampak Serantau, DBP Brunei, pp162-177	Regional (Malaysia, Indonesia and Brunei)

2.2.4 Proceedings Articles:

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

No	Authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> • International • National • University
1	WSEY Wan Yusof, Omar Zakaria , Zuraini Zainol & Ananthan (2017), Interpreting DIKW hierarchy into Knowledge Based Framework with Situational Awareness Analysis for Gathering Military Observers' Tacit Knowledge. Protection & Survivability Symposium (PSS, 2017) Protection & Survivability Symposium (PSS, 2017). Everly Hotel, Putrajaya	National
2	WSEY Wan Yusof, Omar Zakaria & Zuraini Zainol (2017), Establishing of Knowledge Based Framework for Situational Awareness using Nonaka's and Endsley's models. Proceedings of the 1st International Conference on Information and Communication Technology 7890775, pp.47-50 Proceedings of the 1st International Conference on Information and Communication Technology 7890775, pp.47-50. Kuala Lumpur	International

3	Zuraini Zainol, Nohuddin, P.N.E, Mohd, T. A. T & Omar Zakaria (2017), Text analytics of Unstructured Textual Data: A Study of Military Peacekeeping Document Using R Text Mining Package Text analytics of Unstructured Textual Data: A Study of Military Peacekeeping Document Using R Text Mining Package. Proceedings of the 6th International Conference on Computing and Informatics ICOCI 2017. Kuala Lumpur	International
4	Wan Yusof, W.S.E.Y., Zakaria, O. and Zainol, Z. (2016), Exploring tacit knowledge on Malaysian Peacekeeping operations through strategising in-depth interviews. Proceedings of International Conference on Innovation in Business and Strategy, UTM, KL	International
5	Mohammad Daud, N. H., Marzukhi, S., and Zakaria, O. (2016). Knowledge-based system with enhanced situational awareness analysis for Malaysian UN Military Observer (UNMO): A software development perspective. Proceeding of Defence Science & Technology Conference. Putrajaya	National
6	Wan Yusof, W.S.E.Y., Zakaria, O. and Zainol, Z. (2016). Establishing of Knowledge Based Framework for Situational Awareness Using Nonaka's And Endsley's Models. International Conference on Information Communication & Technology (ICICTM). UniKL, KL	International
7	A. Ghani., A. K, Ismail., M.N, Zakaria, O. , Nohuddin, P. N. (2016). Establishing Mesh Network Amongst Infantry Personnel During Military Operations: A Preliminary Study. International Conference on Information Communication & Technology (ICICTM). UniKL, KL	International
8	Zulhamey. M. N., Mohamad Rashid, R. Zakaria, O. (2015). Towards A Structured Information Security Awareness Programme. Persidangan Antarabangsa Perpun ke-4, 11-12/8/2015. Avillion Legacy Htl, Melaka	International
9	Omar Zakaria (2015). Establishing Human Firewall Within An Organisation. Malaysia Data Security Forum. 5/2/2015, Seri Pacific Hotel, Kuala Lumpur	National
10	Nor Faiz Muhammad Noor, Omar Zakaria & Puteri. N. E. Nohuddin (2014). Rumour Propagation on Twitter: A Case of Malaysian Critical National Information Infrastructure (CNII) Organisations, International Conference of Engineering, Information Technology and Science (ICEITS), IOI Hotel & Resort, Bandar Sunway, Selangor	International
11	Mohd Nabil Zulhamey, Rohana Mohamad Rashid & Omar Zakaria (2014). Towards A Structured Information Security Awareness Programme. International Online Conference on Advanced Information Technology for Human Science (AITHS), Bandung, Indonesia	International
12	Omar Zakaria (2013), Looking Beyond Firewalls – Building E-Security Culture Within Organisation. E-Crime Conference, 17/5/2013, Sunway Putra Hotel, Kuala Lumpur	National
13	Omar Zakaria , Mohd Nabil Zulhamey & Rohana Mohamad Rashid (2013). Instilling Facebook Security Awareness In Secondary Students: A Case Study At SMIAAG. First National Conference on Knowledge Transfer. Equatorial Hotel, Bangi, Selangor. 21 Aug 2013	National
14	Omar Zakaria (2012) Navigating Security in The World of Emerging Technologies, InfoSec Asia 2013 Conference 20/3/2013, PWTC, KL	National
15	Saman Mirza Abdulla, Miss Laiha Mat Kiah and Omar Zakaria. Minimizing Errors in Identifying Malicious API to Detect PE Malware Using Artificial Costimulation. International Conference on Emerging	International

	Trends in Computer and Electronics Engineering (ICETCEE'12), March 24-25, 2012, Dubai, UAE. 49-54	
16	Omar Zakaria and Mohd Hazali Mohamed Halip (2010). Information Security Culture Principles. Prosiding Kolokium Fakulti Sains dan Teknologi Pertahanan 2010. 12-20 ISBN 978-967-5985-10-2	University
17	Mohd Hazali Mohamed Halip, Omar Zakaria and Nor Fatimah Awang (2010). Detecting Steganographic Messages In Email Attachment. Prosiding Kolokium Fakulti Sains dan Teknologi Pertahanan 2010. 21-30. ISBN 978-967-5985-10-2	University
18	M. Abomhara, Omar Zakaria , Othman O. Khalifa, (2009, "Design a New Selective Video Encryption Using Computation Between H.264/AVC and AES Encryption Algorithm", Asia Pacific Defence & Security Technology Conference (DSTC) 6-7 October 2009 KL .	Regional
19	Saman Mirza Abdulla, Omar Zakaria , (2009), "Devising a Biological Model to Detect Polymorphic Computer Viruses Artificial Immune System (AIM): Review," ICCTD, vol. 1, 2009 International Conference on Computer Technology and Development, pp 300-304	International
20	Ahmed.K.Hasan, A.A.Zaidan, Rosli Salleh, Omar Zakaria , B.B.Zaidan and S.M.Mohammed (2009), "Throughput Optimization of Unplanned Wireless Mesh Networks Deployment Using Partitioning Hierarchical Cluster (PHC)", Proceedings of the World Congress on Engineering 2009 Vol I, WCE 2009, July 1 – 3, 2009, London, U.K pp 907-911	International
21	Ahmed K. Hasan, A.A. Zaidan, Anas Majeed, B.B. Zaidan, Rosli Salleh, Omar Zakaria and Ali Zuheir (2009), Enhancement Throughput of Unplanned Wireless Mesh Networks Deployment Using Partitioning Hierarchical Cluster (PHC), Proceedings of the World Academy of Science, Engineering and Technology Congress on Engineering 2009, Vol 54: 480-484	International
22	A. H. Lashkari, S. Farmand, R. Salleh, O. Zakaria , Recall-Based Graphical User Authentication Based On Attacks Patterns, The 13 th IEEE International Multitopic Conference (INMIC 2009), 14-15 Desember 2009, Islamabad, Pakistan.	International
23	Xichun Li, Rosli Salleh, Abdullah Gani and Omar Zakaria (2009), "Multi-Network Data Path for 5G Mobile Multimedia", 2009 International Conference on Communication Software and Networks (ICCSN 2009) (IEEE Proceedings), 27-28 Feb 2009, Macau, China	International
24	Xichun Li, Abdullah Gani, Rosli Salleh, Omar Zakaria , "The Future of Mobile Wireless Communication Networks", 2009 International Conference on Communication Software and Networks (ICCSN 2009) (IEEE Proceedings), 27-28 February 2009, Macau, China	International
25	Abdullah Gani, Xichun Li, Lina Yang, Omar Zakaria (2008), "TCP/IP Suite Enhancement for 4G Mobile Multimedia Internet Networks", 8 th WSEAS International Conference on Multimedia Systems and Signal Processing (MUSP'08), Hangzhou, China, April 6-8, 2008, pp 229-235	International
26	Nor Badrul Anuar, Muhammad Azlan Ibrahim, Ainuddin Wahid Abdul Wahab and Omar Zakaria (2008), "SANAsms: Secure Short Messaging System for Secure GSM Mobile Communication", Proceedings of ECIW 2008 The 7 th European Conference on Information Warfare and Security, University of Plymouth, UK 30 June	International

	– 1 July 2008, pp1-6	
27	Xichun Li, Abdullah Gani, Lina Yang, Omar Zakaria & Nor Badrul Anuar (2008), "Mix-Bandwidth Data Path Design for 5G Real Wireless World", 12 th WSEAS International Conference on Communications, WSEAS Press, 23-25 July 2008, Heraklion, Crete, Greece, pp 316-320	International
28	Nor Badrul Anuar, Lai Ngan Kuen, Omar Zakaria , Abdullah Gani and Ainuddin Wahid Abdul Wahab, (2008)"Usability and Performance of Secure Mobile Messaging using Public Key Infrastructure", 7 th WSEAS International Conference on Data Networks, Communications & Computers (DNCOCO '08), WSEAS Press, Bucharest, Romania, pp 29-42	International
29	Nor Badrul Anuar, Lai Ngan Kuen, Omar Zakaria , Abdullah Gani (2008),"Secure Mobile Messaging using Public Key Infrastructure: m-PKI" 12 th WSEAS International Conference on Computers, WSEAS Press, 23-25 July 2008, Heraklion, Crete, Greece, pp 76-81	International
30	Abdullah Gani, Omar Zakaria , Nor Badrul Anuar, Zolkepli Buang, (2007),"Integrating Agent Technology in Teaching and Learning of Computer Security Course in Tertiary Level", International Conference on Engineering and ICT 2007, Equatorial Hotel, Melaka, Malaysia 27-28 Nov 2007, pp 505-511.	International
31	Mustaffa Kamal Mohd Nor, Omar Zakaria , Abdul Razak Hamdan & Aziz Deraman (2007)," Using Success Factors for Evaluating IT Readiness Levels in Implementing IT for Malaysian's SMEs", International Conference on Electrical Engineering & Informatics (ICEEI), Bandung, Indonesia 17-19 June 2007, pp 360-363	International
32	Mustaffa Kamal Mohd Nor, Omar Zakaria & Chang Sok Kin, (2007),"The development of critical undergraduate program selection system (CUPSS) for admission to Malaysian Public Universitie" , International Conference on Electrical Engineering and Informatics (ICEEI)Bandung, Indonesia, 17-19 June 2007, pp 649-653	International
33	Abdullah Gani, Sapiyan Baba, Roziati Zainuddin, Omar Zakaria , (2007), "Proactive User Agent Towards Self-Regulated Network Resource Control", International Conference on Electrical Engineering and Informatics, Bandung, Indonesia. 17-19 June 2007	International
34	Omar Zakaria , Abdullah Gani, Mustaffa Mohd Nor, Nor Badrul Jumaat,(2007),"Reengineering Information Security Culture Through Management Perspective", International Conference on Electrical Engineering and Informatics, Bandung, Indonesia. 17-19 June 2007, pp638-641	International
35	Abdullah Gani, M. Sapiyan Baba, R. Zainuddin, Omar Zakaria ,(2006), "Online Skill-based Assessment of Network Technology Course Using Simulation Technique", The 19 th Educational Technology Convention, Langkawi, Malaysia. 9-11 September 2006	National
36	Abdullah Gani, M. Sapiyan Baba, R. Zainuddin, Omar Zakaria (2006),"Network Resource Control", International Conference on Science and Technology (ICSTIE2006): Applications in Industry and Education, Penang, Malaysia. 8-9 December 2006	International
37	Abdullah Gani, Omar Zakaria , Sapiyan Baba, Roziati Zainuddin (2006),"Towards Internalisation Of Information Security Culture Using User Manager Agent System", International Conference on ICT For The	International

	Muslim World ICT4M 2006, Kuala Lumpur, Malaysia. 21-23 November 2006	
38	Omar Zakaria , Abdullah Ghani, Sapiyan Baba,(2006) "Integrating Information Security Course into Undergraduate Programmes: A UM's Experience", International Conference on Science and Technology (ICSTIE2006): Applications in Industry and Education, Penang, Malaysia. 8-9 December 2006	International
39	Omar Zakaria (2005),"Information Security Culture and Leadership", 4 th European Conference on Information Warfare, Glamorgan, Wales, pp415-420	International
40	Omar Zakaria (2004), "Understanding Challenges of Information Security Culture: A Methodology Issue", 2 nd Australian Information Security Management Conference (INFOSEC04), pp 83-93	International
41	Omar Zakaria (2004), "Information Security Culture: A Taxonomy of Positive Security Behaviour", The 3 rd European Conference on Information Warfare and Security, Egham, Surrey, England, 2004, pp 379-386	International
42	Omar Zakaria , Pita Jarupunphol and Abdullah Gani (2003), "Paradigm Mapping for Information Security Culture Approach", The 4 th Australian Information Warfare and IT Security Conference, Adelaide, Australia, 20-21 November 2003, pp417-426	International
43	Omar Zakaria and Abdullah Gani (2003), "A Conceptual Checklist of Information Security Culture", Proceeding of the 2 nd European Conference on Information Warfare and Security. Reading, England, 30 June -1 July 2003, pp365-371	International
44	Omar Zakaria and Pita Jarupunphol (2003), "Understanding The Role of Information Security Culture", Proceeding of International Conference on E-Society, Lisbon, Portugal, 3-6 June 2003, pp 1013-1014	International
45	Mustafa Kamal Mohd Nor, N. L. Yong, F. Othman and Omar Zakaria (2002), In Eds J. Kassim et. Al "Web-Based New Renumeration Scheme (SSB) Evaluation System", Prosiding Seminar Kebangsaan Sains, Teknologi dan Sains Sosial, Kuantan, 2 May 2002, pp 122-129	National
46	Omar Zakaria (2002), "Information Security Acculturation Challenges in Malaysia: An Introduction", Proceeding of The European Conference on Information Warfare and Security, Uxbridge, England, 8-9 July 2002, pp187-190	International
47	Omar Zakaria , Khairul Nidzar Mohd Nasir and Mustaffa Kamal Mohd Nor (2001), "A Proposed Implementation of Linux-Based Thin Client System in Cyber Cafe", International Conference on Technology Education: Optimal Use of Resources, Cape Town, South Africa, 4-6 October 2001	International
48	Omar Zakaria , Khairul Nidzar Mohd Nasir, Noorzaily Mohd Noor (2001), "Linux-Based Thin Client System Pilot test at FCSIT-UM", International Conference of Information Technology and Multimedia, UNITEN, Selangor, Malaysia, Vol. 2, 13-15 August 2001, pp 59-63	International
49	Omar Zakaria and Hannyzura Pal (2000),"Perancangan Penyediaan Istilah Teknologi Maklumat Bagi Tahun 1998-2002", Seminar Antarabangsa Bahasa Melayu Alaf Baru, UITM, Shah Alam, Selangor,	International

	Malaysia, 25-27/9/2000.	
50	Omar Zakaria (1999), “Kaedah Memartabatkan Bahasa Melayu Dalam Teknologi Maklumat”, Bahasa Melayu in Cyber Era Seminar, Hotel Istana, Kuala Lumpur, September 1999	National
51	Omar Zakaria , Norijah Hj Husin and Siti Aishah Hashim Ali (1998), “TRIGMET: An Interactive Multimedia Learning Package for Trigonometry”, International Conference on Information Technology & Multimedia ICIMU), UNITEN, Selangor, 29/9/1998-1/10/1998. Pp PSA10-1-SA10-6	International
52	Siti Aishah Hashim Ali, Norijah Hj Husin and Omar Zakaria (1998), “Pembentukan Satu Sistem Pembelajaran Berinteraktif”, Seminar Sehari Pembelajaran Matematik: Agenda Semasa, Jabatan Matematik, UKM, 26/10/1998	National

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

(1) Academic Recognition and Leadership

Academic recognition and leadership such as Academic Award, Academic Assessor/External Examiner/Ph.D Thesis Examiner, Master’s Thesis Examiner/Promotion Assessor (External), Internal Thesis Examiner, Visiting Professor/Fellowship, Invited Speaker, Editorial Board and other academic recognition.

(Please list in chronological order and state: Academic Recognition (e.g. award name, invited speakers etc.), year, level and awarding body/ name of institution)

No	Academic Recognition	Year	Level	Awarding Body / Name of Institution
1	Distinguished Faculty Award – (teaching & learning recognition)	2016	International	Venus International Foundation, Chennai, India
2	Invited Speaker: From Policy design to breach Response: A Complete Look at Enterprise Security Intel Security eGOV-CXO Mini Forum Malaysia	2016	National	Questex Asia Ltd
3	Invited Speaker: Establishing Human Firewall Within An Organisation at Malaysia Data Security Forum	2015	National	Asian Strategy & Leadership Institute (ASLI)
4	External Examiner for PhD thesis	2015	National	UKM
5	PRINCE2 (Projects in Controlled Environment, Version 2) – Project Management	2014	National/ International	Prestariang Sdn Bhd

6	Anugerah Perkhidmatan Cemerlang (Service Excellence Award) 2013	2014	University	UPNM
7	External Examiner for PhD Thesis	2014	International	University of Melbourne, Australia
8	External Examiner for Bachelor of Computer Security programme	2014, 2015	National	Faculty of Business and Information Technology, Unitar International University
9	External Examiner for Diploma of Computer Security programme	2014, 2015	National	Faculty of Business and Information Technology, Unitar International University
10	Judge for PECIPTA 2013 for IT category	2013	National	Pecipta committee
11	Chief Security Officer (CSO) Award	2013	Regional (South East Asia)	IDG Vietnam & ASEAN
12	External Examiner for Master Programme	2013	National	Faculty of Business and Information Technology, Unitar International University
13	ISO/IEC 27001 Lead Auditor: Information Security Management System (ISMS)	2013	International	Professional Evaluation and Certification Board, 7275 Sherbrooke East, Suite 32, CP 49060 Montreal QC H1N 1H0 Canada
14	Sijil Prestasi Cemerlang 2012 (Certificate for Excellence Performance)	2013	University	UPNM
15	Keynote Address: Navigating Security in the World of Emerging Technologies at InfoSec Asia 2013 Conference	2013	Regional	JFPS Group (M) Sdn Bhd, Malaysia
16	Invited Speaker: Looking Beyond Firewalls – Building E-Security Culture Within Organisation	2013	National	Asian Strategy & Leadership Institute (ASLI)
17	Panel of Experts (POE) in Human Dimension for Network Centric Operation (NCO), ATM Phase 1A	Oktober 2011 – Oktober 2014	National	Markas Angkatan Tentera Malaysia
18	External Examiner for Master thesis	2014	National	Universiti Sains Islam Malaysia (USIM)
19	Evaluator for new MSc in Information Security Programme	2013	National	University of Malaya (UM)
20	External Examiner for Ph.D thesis	2013	National	Universiti Sains Islam Malaysia (USIM)

21	Certified Ethical Hacker (CEH)	28 Sept 2012	International	EC Council
22	Penilai Kenaikan Pangkat Ke Jawatan Profesor Madya – Dr. Azlan bin Mohd Zain, UTM	15 May 2012	National	UTM
23	Evaluator for Diploma of IT course	2012	National	UMTech
24	Reviewer for paper submitted to Malaysian Journal of Computer Science (MJCS)	2012	National	Editorial Board of MJCS, UM
25	External Examiner for Master Dissertation	2012	National	Universiti Teknikal Melaka Malaysia (UTEM)
26	External Examiner for Ph.D thesis	2011, 2012, 2013	National	Univerisi Teknologi Malaysia (UTM)
27	Certified on I Citizen	2011	International / National	Prestariang Bhd & Certiport (USA)
28	External Examiner for Master Dissertation	2010,2011, 2012, 2013	National	UTM
29	External Examiner for Ph.D thesis	2011,2012, 2013	National	Universiti Utara Malaysia (UUM)
30	External Examiner for Master Dissertation	2011, 2012	National	Universiti Kebangsaan Malaysia (UKM)
31	External Examiner for Master Dissertation	2011	National	MMU, Cyberjaya
32	Lead Assessor ISO 9001:2008	2010	National	SIRIM QAS International Sdn Bhd
33	Evaluator for new undergraduate information security programme	2010	National	UTEM
34	Certified Openoffice.Org and Linux Desktop (COOL)	2010	National	Open Source Competency Centre, Cyberjaya
35	External Examiner for PhD thesis	2010	International	Bharathiar University, Coimbatore, Tamil Nadu, India
36	External Examiner for Master Dissertation	2009	International	Nelson Mandela Metropolitan University, Port Elizabeth, South Africa
37	Internal Examiner for Master Dissertation	2001, 2006, 2008-2010	National	University of Malaya (UM)
38	Reviewer for paper submitted to European Conference on	2005-now	International	ECIW organizer

	Information Warfare and Security (ECIW)			
39	Member of IFIP WG 11.1 Information Security Management	2006 – now	International	IFIP WG 11.1 Organiser
40	18 th International, Invention, Innovation and Technology Exhibition (ITEX 2011) – 1 Bronze Medal Title: Graphical Password Resistant Shoulder Surfing	2007	International	MINDS (Malaysian Invention and Design Society)
41	19 th International, Invention, Innovation and Technology Exhibition (ITEX 2008) – 1 Silver Medal Title: Hacker Proof Graphical Password Using Digital Watermarks	2008	International	MINDS (Malaysian Invention and Design Society)
42	Ekspo Penyelidikan, Rekacipta & Inovasi UM 2009 – 1 Silver Medal Title: SANAsms: Secure Short Messaging System for Secure GSM Mobile Communication	2009	University	University of Malaya (UM)
43	22 nd International, Invention, Innovation and Technology Exhibition (ITEX 2011) – 1 Silver Medal Title: Improving Graphical Password Resistant To Shoulder Surfing Using Playing Cards Approach	2011	International	MINDS (Malaysian Invention and Design Society)
44	Pecipta 2013 – 1 Bronze Medal . Title: Pixel Value Graphical Password	2013	International	Kementerian Pendidikan Malaysia, UUM & UniMAP
45	25 th ITEX 2014 – 1 Gold Medal . Title: Pixel Value Graphical Password Scheme	2014	International	MINDS (Malaysian Invention and Design Society)
46	Malaysia Technology Expo (MTE) 2014 1 Bronze Medal Title: QR Tag Scanner	2014	National	Malaysian Association of Research Scientists
47	Pecipta 2015 1 Bronze Medal Title: Crash Notification with Geographic	2015	International	Soaring Upwards MHE, KPT & UPSI

	Coordinator Using Android			
48	27 th ITEX 2016 – Silver Medal. Title: Car Crash Notifier with Geographic Coordinator using Android Application	2016	International	MINDS (Malaysian Invention and Design Society)
49	PECIPTA 2017 – Bronze medal	2017	National	Kerajaan Terengganu
50	Staff excellence award 1999	2000	University	University of Malaya (UM)

(b) Consultancy - Consultancy work that benefited to the University.

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

No.	Title	Year	Sponsor	Value	Duration
1	Pentaksir dan Penggubal Soalan ICT (958/1) STPM	2013	Majlis Peperiksaan Malaysia (MPM)	Follow government rate	On-call
2	Panel of Expert (PoE) in Human Dimension for Network Centric Operations(NCO)	Oct 2011-Oct 2014	Markas Angkatan Tentera Malaysia	Follow government rate	On-call
3	Fasilitator Bengkel Kerja Pemantapan Huraian Sukatan Pelajaran (HSP) Program Matrikulasi Satu Tahun (PST) Bagi Mata Pelajaran Sains Komputer	26-29 June 2012 Silka Maytower Hotel & Serviced Residences, KL	Kem Pelajaran Malaysia	RM100 per hour	On-call
4	Observer/Technical Expert for ISO 27001:2005 Information Security Management System	2011, 2012, 2013, 2014, 2016, 2018, 2019	Jabatan Standards Malaysia	RM1,000 per one day visit	On-call
5	Pentaksir dan Pemeriksa Kertas Soalan Sains Komputer Peringkat Matrikulasi	2011, 2012, 2013	Kem. Pelajaran Malaysia	RM 100 per day and RM 7 per script	On-call

6	MQA evaluator & visit	2012 & 2014	MQA	Rm 650 per report 2 – APIIT 1 – UTEM 1– Taylor College 1 – UNITAR	On-call
7	MyQUEST evaluator	2011 & 2013	Kem. Pendidikan Malaysia (KPT)	RM 750 per visit 3 Colleges (2011) & 10 Colleges (2013)	On-call
8	Information Security Standards Meeting	2010 – 2012 and till now	SIRIM	RM60 per meeting	On-call
9	i-Citizen questions bank	2010	Prestariang Bhd	Honorarium	On-call
10	Pemeriksa Luar Program Sarjana Muda Keselamatan Komputer UTEM	2018-2019	UTEM	Honorarium	On-Call

(c) 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, committee and duration)

No	Position/Membership	Committee	Duration
1	Head of Department	Department of Computer Science, FSTP, UPNM	4 Feb 2016 – 31 DIs 2017
2	Member of Board of Study (BOS) for Faculty of Creative Media & Innovative Technology, IUKL untuk subjek: Bachelor of Information Technology (Hons) in Computer Security	Infrastructure University Kuala Lumpur (IUKL)	17 Jun 2016- 16 Jun 2018
3	ICT Security Policy member	PTMK	10 Mac 2016
4	Deputy Dean	Centre for Postgraduate Studies, UPNM	2 Jan 2014 – 1 Jan 2016
5	Deputy Head of CAP Brains15	iPMO, UPNM	14 April 2014
6	Director	Centre for Quality Assurance, UPNM	15 Oct 2010 – 14 Oct 2012
7	ICT Policy Evaluator	PTMK, UPNM	15 July 2010 – present

8	Senate member	UPNM senate	21 December 2010 – 18 July 2012
9	University Management Meeting Member (Ahli Mesyuarat Pengurusan Universiti)	UPNM's Management Meeting	21 December 2010 – present
10	Head of Committee of the Quotation for Wireless Project	PTMK, UPNM	2011-2011
11	Head of CAPS Quality Assurance	UPNM	2011 – Nov 2012
12	Member of Internal Inspectorate	UPNM	2011 – 14 Oktober 2012
13	Program Pembangunan Kepimpinan Tunas Akademia	UPNM	Oct 2011 – Dec 2011
14	Panel for Postgraduate Colloquium – Information Technology Cluster	UPNM	2012
15	Evaluator of Postgraduate Colloquium for Cluster of Science and Technology	UPNM	2012
16	Ketua Projek Agenda Kritikal (CAP) Bagi iPMO UPNM Jaminan Kualiti	UPNM	29 Mac 2012 – 29 Mac 2014
17	AJK CAP Penyelidikan dan Pembangunan (Research & Development) Bagi iPMO UPNM	UPNM	1 Mei 2012 – 30 April 2014
18	Penceramah Kursus Induksi UPNM 2012	UPNM	3 July 2012
19	Penceramah Bengkel Peningkatan Prestasi Pelajar Siswazah UPNM: How to Plan, Manage and Pass Your MSc or PhD?	UPNM	12 July 2012
20	Ahli Jawatankuasa Cuti Belajar Fakulti	UPNM	2012 - sekarang
21	Pengerusi Kluster CyberSecurity FSTP	UPNM	Until July 2013
22	Pengerusi Jawatankuasa Penerbitan Fakulti	UPNM	23 April 2013
23	Panel Temuduga Pemilihan Pelajar Baharu UPNM Sesi 2013/2014 di Kem Terendak, Sg Udang, Melaka	UPNM	24-25 April 2013
24	Panel Temuduga Pemilihan Pelajar Baharu UPNM Dari Ambilan STPM dan Setaraf Sesi 14/15 FSTP, UPNM	UPNM	2 June 2014

(d) Service to the community

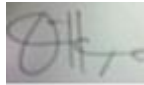
(Please list in chronological order and state: level of involvement, activity, organiser, venue, date/ year/ duration)

No	Level of involvement	Activity	Organiser	Venue	Date/Year/ Duration
1	Chairman of PIBG	2 years programme of PIBG	PIBG	Sek Ren Islam Al-Huda Km 11 Jln Gombak	2011-2013, 2013-2015, 2015-2017
2	Committee of Surau Al-Khafi	2 years programme conducted by surau	Surau Al-Khafi, Pinggiran Batu Caves	Pinggiran Batu Caves, Selangor	2010-2013 2020-2022
3	Deputy President of Information Security Professionals Malaysia (ISPA.my)	Activity of Information Security Professionals Malaysia	Cyber-security Malaysia	Cybersecurity, Malaysia	2010 – 2011, 2012 - 2014
4	Secretary of Astana Gemilang Resident Association (AGRA)	1.5 years programme conducted by AGRA	AGRA	Astana Gemilang, Pinggiran Batu Caves	2007-2008 (Secretary) 2017-2019 (AJK)

Referees:

- Prof. Dr. Abdullah bin Gani**
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Tel: 019-3519560 / 03-61964560

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 : **Omar bin Zakaria**

Faculty/Department : **Faculty of Defence Science and Technology,
Department of Computer Science, UPNM**

Date : **08 Jan 2020**