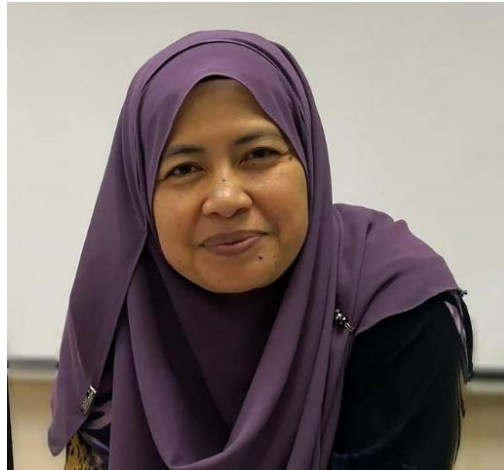


Curriculum Vitae 2022

Raja Azlina binti Raja Mahmood



(1) PERSONAL DETAILS

Full Name	: Raja Azlina binti Raja Mahmood
Department	: Department of Communication Technology and Network
Address	: Faculty of Computer Science and Information Technology
Email	: raja_azlina@upm.edu.my
Fields of Specialization	: Network Security, Wireless and Mobile Networks, Machine Learning

(2) ACADEMIC QUALIFICATION

BSc., Computer Science, University of Michigan (Ann-Arbor), USA, May 1996
MSc., Software Engineering, Universiti Teknologi Malaysia (UTM), Malaysia, Dec 1999
Phd (ongoing) in Network Security, UPM

(3) TEACHING

SKR 3305/CNS 3102: Python Programming
SSK 3117/SSK 3118/CSC 3202: Data Structure and Algorithm
SKR 4402 : Client Server Computing
SKR 3201: Internetworking
SKR 3200: Communication and Computer Network
SKR 4307: Mobile Application
SKR 4401: Distributed Systems
SKR 4800: Wireless and Mobile Systems
SAK 3101: C++ Programming

No.	Code/Courses	Credit Hours/Groups	Semester	Evaluation
1.	CNS3102: Python Programming	3 (2+1) – G1 (1 lab)	Sem 1 2022/2023	-
2.	CSC3202: Data Structure and Algorithm	3 (3+0) – G5	Sem 1 2022/2023	-

3.	SKR3305: Python Programming	3 (2+1) – G1 & G2(2 labs)	Sem 2 2021/2022	5.0 & 4.89
4.	SSK3118: Data Structure and Algorithm	3 (3+0) – G5 & G6	Sem 1 2021/2022	4.91 & 4.95
5.	SKR3305: Python Programming	3 (2+1) – G1(2 labs)	Sem 2 2020/2021	4.77
6.	SSK3118: Data Structure and Algorithm	3 (3+0) – G4 & G5	Sem 1 2020/2021	4.8 & 4.66
5.	SKR3305: Python Programming	3 (2+1) – G1(2 labs)	Sem 2 2019/2020	4.84
6.	SSK3118: Data Structure and Algorithm	3 (3+0) – G5 & G6	Sem 1 2019/2020	4.85 & 4.85
7.	SKR3305: Python Programming	3 (2+1) – G1(2 labs)	Sem 2 2018/2019	4.84
8.	SSK3118: Data Structure and Algorithm	3 (3+0) – G4 & G5	Sem 1 2018/2019	4.85 & 4.93
9.	SKR3305: Python Programming	3 (2+1) – G1	Sem 2 2017/2018	4.79
10.	SSK3118: Data Structure and Algorithm	3 (3+0) – G4 & G5	Sem 1 2017/2018	4.6 & 4.56
11.	SKR3305: Python Programming	3 (2+1) – G1	Sem 2 2016/2017	4.45
12.	SSK3118: Data Structure and Algorithm	3 (3+0) – G3 & G4	Sem 1 2016/2017	4.94 & 4.61
13.	SKR4402: Client Server Computing	3 (3+0) – G1	Sem 2 2015/2016	4.61
14.	SSK3117: Data Structure	3 (3+0) – G3	Sem 1 2015/2016	4.49
15.	SKR3200: Communication and Computer Network	3 (3+0) - G4	Sem 1 2015/2016	4.21
16.	SKR4402: Client Server Computing	3 (3+0) – G1	Sem 2 2014/2015	4.57
17.	SSK3117: Data Structure	3 (3+0) – G3 & G4	Sem 1 2014/2015	4.78 & 4.45
18.	SKR4307: Mobile Application	3 (3+0) – G4	Sem 1 2014/2015	4.55
19.	SSK3117: Data Structure	3 (3+0) – G3 & G4	Sem 1 2013/2014	4.57 & 4.76
20.	SKR4402: Client Server Computing	3 (3+0) – G1	Sem 2 2012/2013	4.69
21.	SKR4402: Client Server Computing	3 (3+0) – G1 & G2	Sem 2 2010/2011	---
22.	SKR3201: Internetworking	3 (3+0)	Sem 1 2010/2011	4.48
23.	SKR3200: Communication and Computer Network	3 (3+0)	May 2004/2005	4.62
24.	SKR4401: Distributed Systems	3 (3+0)	May 2004/2005	4.23
25.	SKR4800: Wireless and Mobile Systems	3 (3+0)	Nov 2003/2004	4.52
26.	SAK3101: C++ Programming	4 (3+1)	Nov 2003/2004	4.48
27.	SKR3200: Data Communications and Networking	3 (3+0)	May 2003/2004	4.18
28.	SKR4800: Wireless and Mobile Systems	3 (3+0)	May 2003/2004	4.28

(4) SUPERVISION

(i) Master by Research (co-supervisor):

No.	Student & Thesis Title	Year
1.	Ehsan Moshiri : Malware Classification Framework for Dynamic Analysis using Information Theory.	2017

(ii) Master by Coursework (main supervisor):

No.	Student & Project Title	Year
1.	Eman Murshed Shaheen : Botnet Attack Detection by Using Grey Wolf Optimization Algorithm based on Voting System using Bot-IOT Dataset	2022
2	Hamed Jabreel : Genetic Algorithm based meta-heuristic for efficient task scheduling in cloud computing	2021
3.	AmirHossein Abdi : Performance Evaluation of Machine Learning Classification Techniques in Intrusion Detection System.	2020
4.	Sabah Mustafa Hamiad Sabah : Health Care Monitoring System based on Appliances Usage Patterns in Smart Home.	2019
5.	Nor Faizah Jemangin : Performance Evaluation of Adaptive Forwarding Strategy using Stochastic Adaptive Forwarding (SAF) IN Named Data Networking	2018
6.	Amodu Oluwatosin : Factor-based Low Energy Adaptive Clustering Hierarchical (FLEACH) Routing Protocol.	2017
7.	Mohammed Nawaid Arif : An Efficient Distributed Trust Model for Wireless Sensor Network	2017
8.	Mohamad Najib Basery : Monitoring and Predicting Malaysia: Reserved Forest Degradation by Leveraging on Multi-Source Distributed Data	2016
9.	Mohd Dzul Aiman Aslan : Detecting malware infected/files application using Cuckoo Sandbox approach	2015
10.	Amin Dastanpour : Feature Selection Algorithm for Intrusion Detection System	2015
11.	Danial Yaghoubian : Constructing A 6LowPan WSN Based on A Cluster Tree.	2013
12.	Majid Fahimian : Performance Analysis of Channel Allocation Schemes in IEEE802.16 (WiMAX).	2013
13.	Koh Tat Hai : E-Marketing System: The Business Solution in Distributed Network Environment (EMS).	2004
14.	Tengku Mohd Dzaraif bin Raja Abdul Kadir : A Study on Potential Usage of 3G Mobile Services for Malaysian Public Sector.	2004
15.	Punitha A/P Seerangan : Book Borrowing Library System (BBLs).	2003

(5) PUBLICATIONS

Scopus ID : 25031713700

ORCID: <https://orcid.org/0000-0002-1169-4226>

(i) JOURNALS

No.	Title
1.	Mahmood RAR , Abdi A, Hussin M. Performance Evaluation of Intrusion Detection System using Selected Features and Machine Learning Classifiers. Baghdad Sci.J [Internet]. 2021;18(2(Suppl.):0884.
2.	Raja Azlina Raja Mahmood , Nor Faizah Jemangin and Masnida Hussin. 2019. Performance Evaluation of an Adaptive Forwarding Strategy in Named Data Networking, International Journal of Advanced Trends in Computer Science and Engineering 8(1.4):281-287.
3.	Amodu, O.A. and Raja Mahmood, R.A. .2018. Impact of the energy-based and location-based LEACH secondary cluster aggregation on WSN lifetime. Wireless Networks 24(5), pp1379-1402.
4.	Masnida Hussin, Raja Azlina Raja Mahmood and Mas Rina Mustaffa. 2019. Sensor Communication Model Using Cyber-Physical System Approach for Green Data Center, International Journal of Interactive Mobile Technologies (IJIM) 13(10):188.
5.	Ahmed Shakir Al-Hiti, Rohaya Latip, R.K.Z. Sahbudin and Raja Azlina Raja Mahmood . 2018. Comparative Analysis of Routing Protocols Over WiMAX, Journal of Computational and Theoretical Nanoscience 24(2):1303-1306.
6.	Masnida Hussin, Abdullah Muhammed and Raja Azlina Raja Mahmood . 2017. An Adaptive Energy Allocation for High-Performance Computing Systems Using a Cyber-Physical Approach, Journal of Computational and Theoretical Nanoscience 23(6):5045-5049.
7.	Ehsan Moshiri, Azizol Bin Abdullah, Raja Azlina Binti Raja Mahmood , Zaiton Muda. 2017. Malware Classification Framework for Dynamic Analysis using Information Theory. Indian Journal of Science and Technology, vol. 10, pp. 21.
8.	Dana Hasan, Masnida Hussin, Azizol Abdullah and Raja Azlina Raja Mahmood . 2016. Distributed Defense Scheme for Managing DNS Reflection Attack in Network Communication Systems, Journal of Telecommunication, Electronic and Computer Engineering (JTEC), vol. 8, no. 6, pp.71-75.
9.	Masnida Hussin, Raja Azlina Raja Mahmood , Nor Azura Husin and Noris Mohd Norowi. 2016. A performance optimization model of task scheduling towards green cloud computing. International Journal of New Computer Architectures and Their Applications, vol. 6, no. 1, pp.1-9.

(ii) BOOK CHAPTERS

No.	Title
1.	Mahmood, R.A.R. , Abdullah, A., Hussin, M., Udzir, N.I. (2022). Dictionary-Based DGAs Variants Detection. In: Saeed, F., Mohammed, F., Ghaleb, F. (eds) Advances on Intelligent Informatics and Computing. IRICT 2021. Lecture Notes on Data Engineering and Communications Technologies, vol 127. Springer, Cham. https://doi.org/10.1007/978-3-030-98741-1_22
2.	Raja Mahmood, R.A. , Muhamad Amin, A.H., Amir, A., Khan, A.I. (2012). A Lightweight Graph-Based Pattern Recognition Scheme in Mobile Ad Hoc Networks. In: Khalil, I., Mantoro, T. (eds) Trustworthy Ubiquitous Computing. Atlantis Ambient and Pervasive Intelligence, vol 6. Atlantis Press, Paris. https://doi.org/10.2991/978-94-91216-71-8_9
3.	A. I. Khan, A. H. M. Amin, and R. A. R. Mahmood , "Lightweight Event Detection Scheme using Distributed Hierarchical Graph Neuron in Wireless Sensor Networks", in Wireless Sensor Networks. London, United Kingdom: IntechOpen, 2011 [Online]. Available: https://www.intechopen.com/chapters/16356 doi: 10.5772/38732
4.	A.I. Khan, Anang Hudaya Muhamad Amin, and Raja Azlina Raja Mahmood , An Online Scheme for Threat Detection Within Mobile Ad Hoc Networks . In Laurence T. Yang, Agustinus Borgy Waluyo, Jianhua Ma, Ling Tan & Bala Srinivasan (Eds) Mobile Intelligence, New Jersey: John Wiley & Sons, Inc., pp. 380-411(2010).

(ii) PROCEEDINGS

No.	Title
1.	Raja Azlina Raja Mahmood , Tan Jun Ren, "Phishing Websites Detecting using Machine Learning Approaches", <i>7th International Conference on Information Technology & Society 2022 (ICITS2022)</i> , (inprint) 2022.
2.	R.A. Raja Mahmood , M. Hussin, N. Manshur and A. Khan, "Impact of Node Inter-domain Movement on MANETs Performance", <i>IEEE 12th Malaysia International Conference on Communications (MICC2015)</i> , (2015)
3.	R.A. Raja Mahmood , M. Hussin, N. Manshur, "Performance Evaluation of Time-Based Black Hole Attack Detection in Mobile Ad Hoc Networks", <i>International Conference on Computational Science and Technology 2014 (ICCST2014)</i> , pp.1-6, (2014)
4.	Raja Azlina Raja Mahmood , Anang Hudaya Muhamad Amin, Amiza Amir and Asad I. Khan, "Lightweight and Distributed Attack Detection Scheme in Mobile Ad Hoc Networks", <i>7th International Conference on Advances in Mobile Computing and Multimedia (MoMM2009)</i> , pp. 162-169 (2009).
5.	R.A. Raja Mahmood , A.H. Muhamad Amin, A.I. Khan, "A Distributed Hierarchical Graph Neuron-Based Classifier: An Efficient, Low-Computational Classifier", <i>First International Intelligent Networks and Intelligent Systems (ICINIS08)</i> , pp. 675-680 (2008).
6.	R.A. Raja Mahmood , and A.I. Khan, "A Survey on Detecting Black Hole Attack in AODV-based Mobile Ad Hoc Networks", <i>International Symposium on High Capacity Optical Networks and Enabling Technologies (HONET2007)</i> , pp. 1-6 (2007).
7.	Raja Azlina Raja Mahmood , Mohamed Othman and Abdullah Muhammed, "An Experimental IPv6 Testbed System with Mobile IPv6", <i>Proceedings of UPM Information Technology Colloquium 2004 (INTEC '04)</i> , e-proceeding (2004).
8.	Amin Dastanpour and Raja Azlina Raja Mahmood , "Feature Selection Based on Genetic Algorithm and Support Vector Machine for Intrusion Detection System", <i>The Second International Conference on Informatics Engineering & Information Science (ICIEIS2013)</i> , pp.169-181 (2013).
9.	Masnida Hussin, Raja Azlina Raja Mahmood , Nor Azura Husin, Noris Mohd. Norowi, "Performance Modeling Framework for Energy-based Scheduling in Cloud", <i>Third International Conference on Green Computing, Technology and Innovation (ICGCTI2015)</i> , (2015).
10.	M. Hussin, R.A. Raja Mahmood and A. Mohammed, "On Discrete Event Simulation of Time-variance Defense Mechanism against Low-rate Denial of Service", <i>4th International Conference on Computer Science and Computational Mathematics</i> , pp. 560-564 (2015)
11.	Amiza Amir, Raja Azlina Raja Mahmood and Asad I. Khan, "A Wheel Graph Structured Associative Memory for Single-Cycle Pattern Recognition within P2P Networks", <i>IEEE 24th International Conference on Advanced Information Networking and Applications Workshops (WAINA2010)</i> , pp.1011-1016 (2010).
12.	Anang Hudaya Muhamad Amin, Asad Khan and Raja Azlina Raja Mahmood , "A Distributed Event Detection Scheme for Wireless Sensor Networks", <i>7th International Conference on Advances in Mobile Computing and Multimedia (MoMM2009)</i> , pp. 295-299 (2009).
13.	Amiza Amir, Asad Khan, and R.A. Raja Mahmood , "Multi-Wheel Graph Neuron: A Distributed Associative Memory for Structured P2P Networks", <i>11th International Conference on Information Integration and Web-based Applications & Services (iiWAS2009)</i> , pp. 147-154 (2009).
14.	A.H. Muhamad Amin, R. A. Raja Mahmood , A. I. Khan, "Analysis of Pattern Recognition Algorithms Using Associative Memory Approach: A Comparative Study between the Hopfield Network and Distributed Hierarchical Graph Neuron (DHGN)", <i>IEEE 8th International Conference on Computer and Information Technology (CIT2008)</i> , pp. 153-158 (2008).

15.	Bala Srinivasan, Asad Khan, R.A. Raja Mahmood , "Abnormal Behaviour Detection within Mobile Networks", <i>The 5th International Conference on Advances in Mobile Computing and Multimedia (MoMM2007)</i> , pp 3-10 (2007).
16.	Kasmah Anuttullah, Mohd Khairunnizam Mhd Supian and Raja Azlina Raja Mahmood , "IPv6 Translator: Makes IPv6 Migration Much Easier", <i>Proceedings of 4th MIMOS R&D Symposium on ICT and Microelectronics</i> . pp 25-40 (2002).
17.	Che Rohani Ishak, Raja Azlina Raja Mahmood , Shaheezul Mazhar, "IPv6 Tunnel Broker Development: A Case Study", <i>Proceedings of 3rd MIMOS R&D Symposium on ICT and Microelectronics</i> . pp 95-124 (2001).
18.	Mahizzan Mohd Fadzil & Raja Azlina Raja Mahmood , "IPv6: Measuring the Challenges", <i>Proceedings of 2nd MIMOS R&D Symposium on ICT and Microelectronics</i> . pp 151-163 (2000).
19.	Hasliza Shukor, Raja Azlina Raja Mahmood , Shaheezul Mazhar, "Cyber-abuse: Its Implications to the Internet Community", <i>Proceedings of 1st MIMOS R&D Symposium on ICT and Microelectronics</i> . pp 222-142 (1999).

(iv) OTHER PUBLICATIONS

1.	N. R. Salim, R.A. R Mahmood , Hussin, M., "Hybrid-Based Data Classification Approach for Identifying Level of Public Data Privacy in Big Data Applications", Abstract, Fakulti Teknologi dan Sains Maklumat Universiti Kebangsaan Malaysia, MALAYSIA, National, [84-87], 2022.
2.	Raja Azlina Raja Mahmood , "IPv6 Deployment in Malaysia: The Issues and Challenges" SANS-GIAC Security Essential Certification White Paper,. [http://rr.sans.org/country/Malaysia.php], April 2002.

(6) CONFERENCE PRESENTATIONS

No.	Conference
1.	Raja Azlina Raja Mahmood , Tan Jun Ren, "Phishing Websites Detecting using Machine Learning Approaches", 7th <i>International Conference on Information Technology & Society 2022 (ICITS2022)</i> , October 2022. Kuala Lumpur.
2.	Mahmood, R.A.R. , Abdullah, A., Hussin, M., Udzir, N.I., "Dictionary-Based DGAs Variants Detection", 6th <i>International Conference of Reliable Information and Communication Technology (IRICT2021)</i> , December 2021. Online.
3.	Mahmood RAR , Abdi A, Hussin M., "Performance Evaluation of Intrusion Detection System Using Selected Features and Machine Learning Classifiers", 8th <i>International Conference on Computing and Computing and Informatics 2021 (ICOCI2021)</i> , March 2021. Online.
4.	Raja Azlina Raja Mahmood , Nor Faizah Jemangin and Masnida Hussin. 2019. Performance Evaluation of an Adaptive Forwarding Strategy in Named Data Networking, third <i>International Conference on Innovation in Computer Science and Engineering (ICiCSE2019)</i> , June 2019. Miri.
5.	R.A. Raja Mahmood , M. Hussin, N. Manshur and A. Khan, "Impact of Node Inter-domain Movement on MANETs Performance", <i>IEEE 12th Malaysia International Conference on Communications (MICC2015)</i> , Miri.
6.	R.A. Raja Mahmood , M. Hussin, N. Manshur, "Performance Evaluation of Time-Based Black Hole Attack Detection in Mobile Ad Hoc Networks", <i>International Conference on Computational Science and Technology 2014 (ICCST2014)</i> , Aug. 2014. Kota Kinabalu.

7.	Raja Azlina Raja Mahmood. Advanced Threat Detection Mechanism in Mobile Ad Hoc Networks. Poster Presentation: Australian Enterprise Information Infrastructure 2007 Winter School, 2007. Queensland.
8.	Raja Azlina Raja Mahmood. Enhancing Mobile IPv6 Security. Exhibition of Research, Invention and Innovation UPM, 2005. Serdang.
9.	Raja Azlina Raja Mahmood & Shaheezul Abdul Razak. Development of IPv6 Traffic Decoder: A Case Study. 1 st ASEAN IPv6 Forum (KLIPS 2003). Kuala Lumpur.
10.	Raja Azlina Raja Mahmood. NAT-PT: Makes IPv6 migration much easier. <i>Asia Pacific Regional Internet Conference on Operational Technologies 2003 (APRICOT2003) in conjunction with the 1st IPv6 Forum in Asia Pacific.</i> Taipei.
11.	Che Rohani Ishak, Raja Azlina Raja Mahmood & Shaheezul Mazhar. IPv6 Tunnel Broker Development: A Case Study. <i>Asia Pacific Regional Internet Conference on Operational Technologies 2002 (APRICOT2002).</i> Bangkok.
12.	Che Rohani Ishak & Raja Azlina Raja Mahmood. IPv6 Tutorial: Introduction & Deployment. <i>Asia Pacific Regional Internet Conference on Operational Technologies 2001 (APRICOT 2001).</i> Kuala Lumpur.

(7) RESEARCH GRANTS

No.	Grant - Title	Year	Amount	Role
1.	Putra Grant – “Predicting Botnet Domain Names using Deep Neural Networks”	Feb 2018- May 2021	RM 45, 300	Main Researcher
2.	Research University Grant Scheme – “Advanced Intrusion Detection System In Mobile Ad Hoc Networks”	2011	RM 30,000	Main Researcher
3.	Putra Grant – A Hybrid Load Balancing Algorithm for Resource Allocation in Cloud Computing	Feb 2018 – May 2021	RM 36,000	Co Researcher
4.	Putra Grant – A New Hybrid Heuristic-Based Algorithm for Task Scheduling Problem in Heterogeneous Computing Environment	Dec 2017 – Dec 2019	RM 40,000	Co Researcher

(8) COPYRIGHTS:

No.	Title	Category	Role	Year
1.	MyText Reader: Reading aid application for the visually impaired	Software	Main	2015
2.	File Sharing and Media Streaming System for UPM College Network	Derivative Work	Main	2014
3.	Audit Management System: Faculty Technical Facilities	Software	Co-inventor	2014
4.	Mobile Web Learning Management System (MW-LMS)	Software	Co-inventor	2014
5.	Design of the lighting and air conditioning control and monitoring system	Software	Co-inventor	2013

6.	Mobile Application of Lighting and Air Conditioning Control and Monitoring System (LACoMS)	Software	Co-inventor	2013
7.	Web-based Lighting and Air Conditioning Control and Monitoring System	Software	Co-inventor	2013
8.	Laptop Tracking System	Derivative Work	Main	2011

(9) PROFESSIONAL WORK

(i) PROFESSIONAL CERTIFICATION

Huawei Certified Academy Instructor (valid until Jun 21, 2027)
Huawei HCIA Artificial Intelligence (valid until Nov 21, 2024)
Huawei HCIA Cloud Computing (valid until Jan 7, 2024)
Certified Global Information Assurance Certification (GIAC) Security Professional (2002-2006)

(ii) PROFESSIONAL MEMBERSHIP/TRAINING

1.	IEEE Member (since 2010)
2.	Huawei HCIA-Security Training, 5-9 Sep 2022
3.	Huawei HCIA-Cloud Computing Training, 14-18 Dec 2020.
4.	Huawei HCNA-Network Associate Training, 3-7 Apr 2017.
5.	Network Intrusion Analysis Workshop, 21 Sep 2019.
6.	International Workshop on Deep Learning, 1 Aug 2018
7.	PyColoud: Cloud Computing using AWS and Python Workshop, 6-8 Oct 2015.
8.	MAMPU 33 Jam Hackathon Data Terbuka Sektor Awam, 9-10 Sep 2015.
9.	Raspberry Pi for the Internet of Things Training, 6-7 Aug 2015.
10.	Core Skills for Network Penetration Testers, 9-11 Apr 2014
11.	Core Skills for Cyber Security Practitioners, 28-30 Jan. 2014
12.	Android Apps Development Training, 2-4 Jul 2013
13.	MSC Malaysia ToT Programme on 'Huawei Basic Data Communication and Networking', 25-29 Jun 2012
14.	Digital Forensic Workshops, 27-30 Dec. 2010

(iii) PROFESSIONAL SERVICE

No.	Role/Activities	Date
1.	Trainer for 1-day Python hands-on workshop for 40 students from Sekolah Menengah Sains Tuanku Munawer (SASER), Negeri Sembilan.	15 Oct 2022
2.	Trainer at 2-day hands-on workshop entitled 'Python Programming with Machine Learning Application' at INSPEM Summer School 2022 Workshop, UPM.	2-3 August, 2022
3.	Trainer for hands-on 'Unix and Python Workshop' for 10th High Performance Computing Workshop (HPC10) by INSPEM, UPM	1-2 Dec 2021
4.	Tutor for Python workshop for students from SMK Seri Indah, Taman Seri Serdang, Selangor and Universitas Telkom Indonesia.	25 Oct 2021
5.	Trainer for 2-day online Python hands-on workshop for around 80 students from Sekolah Menengah Sains Tunku Jaafar, Negeri Sembilan.	11-12 Sept 2021
6.	Session Chair for 'Computer Network and Distributed System' Track, ICICSE2021	17 Aug 2021
7.	Speaker for online 'Program Pengkomputeran Sekolah' for about 90 students from SMK Seri Kembangan, Selangor.	15 Dec 2020
8.	Session Chair for Computer Network and Distributed System' Track, ICICSE2019	27 June 2019
9.	Organizing committee for the International Conference on Innovation in Computer Science and Engineering 2017, 2018, 2019, 2020, 2021 (ICICSE2017/ ICICSE2018/ICICSE2019/ ICICSE2020/ ICICSE2021)	1-8 Feb 2017 30-31 Jul 2018 26-28 Jun 2019 5-7 Oct 2020 17-19 Aug 2021
10.	Trainer for hands-on Training of Trainers (ToT) Python module for IT teachers in Selangor, under Jabatan Pendidikan Negeri Selangor.	5-6 Sept 2018
11.	Facilitator and trainer for FSKTM's ToT Python module workshop.	3 Nov 2016
12.	Python trainer for MRSM Alor Gajah Form 4 students in preparation for Malaysia Computing Challenge (MCC) 2016.	8-9 Aug 2016
13.	Teaching staff for IT-related subject for UPM Bridging Program Session 2 2014/2016.	Apr-May 2015
14.	Book Reviewer: 'Introduction of Computer Systems & Applications' by International Islamic University Malaysia.	Mac 2012

(iv) ADMINISTRATIVE POST

No.	Position	Level/Year
1.	Head of Academic Advisor	Department (2011-2022)

(v) WORK EXPERIENCE

Employer/Designation/Year	Tasks/Activities
Jaring Communications Sdn Bhd Network Engineer <i>Nov 2002-June 2003</i>	Deployed and maintained IPv6 testbed on JARING's backbone for Malaysian universities R&D purposes. Provided awareness programs and IPv6 network supports to local universities.
MIMOS Berhad Network Engineer <i>Dec 99- Nov 2002</i>	Undertook the IPv6 research and development works in Network Communication Lab, MIMOS Berhad. IPv6 testbed with tunnel broker facilities, known as MANIS - Malaysian Advanced Network Integrated System was established. My6, a collaborative effort among MIMOS, NTT-MSK and MAXIS was formed to promote and drive IPv6 research, development and deployment in Malaysia.
MIMOS Berhad Information Security Analyst <i>Jan 1997-Oct 1998</i>	Part of the first MyCERT(Malaysian Computer Emergency Response Team) group. Performed network security audit and provided security consultation to various types of companies such as financial institution and telecommunication companies.
MIMOS Berhad Software Engineer <i>Jun 1996-Dec 1996</i>	Part of the Computer Integrated Learning System (CoMIL) development team. CoMIL is an education authoring tool for the Ministry's Computers-In-Education programme designed to help teachers to develop learning materials in Bahasa Malaysia.

(10) AWARDS/RECOGNITION

No.	Event & Year	Awards
1.	Excellent Tutor Award by Huawei Technologies Sdn. Bhd. Nov 2021.	Certificate of Achievement
2.	Anugerah Perkhidmatan Cemerlang UPM 2021	Certificate of Achievement
3.	International Putra InnoCreative Poster Competition, International Putra InnoCreatvie Carnival in Teaching and Learning 2020. Project: Impactful of Collaborative Online Games in Enhancing the Children Experience for Road Safety Education.	Silver Medal
4.	International STEM Olympiad (ISTEMO) 2019. Project: Smart Motion Detection System.	Silver Medal
5.	3rd International Conference on Innovations in Computer Science and Engineering (ICICSE2019).	Best Paper
6.	Nobel Laureate's Outreach Camp – Scientists of Tomorrow (NLOC) 2018 from Faculty of Computer Science and IT, UPM.	2 nd place for Computer Science-related project.
7.	International Intellectual Exposition 2017. Project: Cloud Service Price Charging System under One Roof Mobile Application.	Bronze Medal
8.	2015 Software Hackathon by TalentCorp	1 st place

9.	Anugerah Perkhidmatan Cemerlang UPM 2014	Certificate of Achievement
10.	International Conference on Computational and Network Technologies 2013 (ICCNT), Science Publication.	Creative Science Award
11.	Anugerah Perkhidmatan Cemerlang UPM 2013	Certificate of Achievement
12.	Pameran Reka Cipta, Penyelidikan dan Invoasi Malaysia 2012. Project:Lightweight, Fast and Efficient Distributed Hierarchical Graph Neuron-based Pattern Classifier.	Bronze Medal
13.	2011 FSKTM Anugerah Pengajar Cemerlang	Certificate of Achievement
14.	Anugerah Perkhidmatan Cemerlang UPM 2004	Certificate of Achievement
15.	3 rd MIMOS R&D Symposium o ICT and Microelectronics (2002)	Best Paper
16.	2 nd MIMOS R&D Symposium o ICT and Microelectronics (2000)	Best Paper

(11) STUDENT DEVELOPMENT INITIATIVES

No.	Role/Activities/Benefits	Date
1.	Provided training and coaching for department's students for Huawei Certification Program – Artificial Intelligence HCIA.	Sept-Oct 2022.
2.	Mentored a final year student participating in the 180 Seconds of your Research Studies (180 SRS) 2021 by IEEE UTP branch and won a 2 nd runner up place.	Oct 2021
3.	Mentored a group of students participating in the Huawei ICT Competition Malaysia 2021-2022. Received a consolation price.	Sept 2021
4.	Provided training and coaching for department's students for Huawei Certification Program – Artificial Intelligence & Cloud Computing HCIA certification.	Sept-Dec 2021
5.	Mentor for few groups participated in FSKTM's 2018 Putra Computer Programming Competition.	Nov 2018
6.	Coached a team to compete in TADHack KL 2017	Sep 2017
7.	Coordinator and facilitator for a hands-on workshop entitled <i>Network Administration Workshop</i> , for department's students. Benefits: New knowledge and hands-on skills.	Nov 2016
8.	Coordinated a visit to MDEC, Putrajaya and its STEM lab facilities. Around 50 students participated. Benefits: New knowledge, intern & job opportunities.	Mar 2015
9.	Advisor for few teams competing for 2015 Software Hackathon by TalentCorp and won the 1 st place.	Sept 2015

10.	Coach for a team competing in 2015 <i>UTP-HAX National Hacking Competition</i>	13-14 Nov 2015
11.	Team Advisor for department students participating in the 2014 <i>ACM-ICPC al-Khawarizmi National Programming Contest</i> .	27-28 Sept 2014
12.	Led a team to semi-final for the 2014 <i>F-Secure National Inter-varsity IT Security Competition</i> , participated by 58 teams from 23 universities.	June 2014
13.	Coordinated a charity drive with the department's students gathering goods and daily supplies for Islamic Relief in Bangi.	Oct 2013
14.	Coordinator and facilitator for a hands-on workshop entitled <i>Introduction to Linux Workshop</i> , for department's students. Benefits: New knowledge and skills, job opportunities.	14 Nov 2013
15.	Team Advisor for department students participating in the 2013 <i>ACM-ICPC al-Khawarizmi National Programming Contest</i> .	21-22 Sept 2013
17.	Coordinated a visit to Malaysian Internet Exchange (MIX) Center in KL with 40 final year students. Students were exposed to the Internet Exchange and data center facilities.	May 2011
18.	Coordinated a visit to MCMC for about 20 students to attend a network security seminar by international SANS experts.	March 2012
19.	Coordinated a half-day volunteerism activity to Rumah Orang Tua Ikhlas, Puchong. Participated by the department's staffs and students. Increased empathy & social responsibilities, improved social skills.	April 2012