



**PERSONAL DETAILS**

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**Gender** : MALE  
**Date of Birth** : 15 FEB 1974  
**Nationality** : MALAYSIA  
**Marital Status** : MARRIED  
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**Expertise** : **Computer & Network Security, Wireless & Sensor Network,  
Network Protocol**  
**Research ID** : **G-3174-2011**  
**ORCID** : **0000-0003-4907-6359**  
**Scopus ID** : **24923511700**

## ACADEMIC QUALIFICATIONS

- 2005 : Philosophy of Doctorate in Computer Science  
Aston University, United Kingdom
- 1999 : Master in Computer Science  
Universiti Teknologi Malaysia
- 1997 : Bachelor in Computer Science with First Class Honours  
Universiti Teknologi Malaysia
- 1995 : Diploma in Computer Science  
Universiti Teknologi Malaysia

## WORKING EXPERIENCE

- 2010-now** : Associate Professor at Faculty of Computing, Universiti Teknologi Malaysia.
- 2005-2009** : Senior Lecturer at Faculty of Computer Science & Information Systems, Universiti Teknologi Malaysia.
- 1999-2005** : Lecturer at Faculty of Computer Science & Information Systems, Universiti Teknologi Malaysia.
- 1997-1998** : Tutor at Faculty of Computer Science & Information Systems, Universiti Teknologi Malaysia.

## AWARD AND HONORS RECEIVED

1. 2014 - Excellent Service Award by Faculty of Computing
2. 2013 - Gold Award at International Invention, Innovation & Technology Exhibition (ITEX'13) Kuala Lumpur Convention Centre, 9-11 May 2013
3. 2013 - Excellent Service Award by Faculty of Computing
4. 2012 - Gold Award at Industrial Art and Technology Exhibition (INATEX'12) at Universiti Tun Hussien Onn
5. 2011 - Silver Award at MySTI-Expo 2011 Exhibition, Kuala Lumpur Convention Center (KLCC) on 29-31 July 2011 organized by MOSTI
6. 2013 - Excellent Service Award at Citra Karisma, UTM

7. 2006 - Excellent Service Award at Citra Karisma, UTM
8. 1997 - Excellent Student Award at UTM Convocation Ceremony
9. 1997 - Excellent Student Award from MAXIS
10. 1997 - Excellent Student Award from Ministry of Science, Technology and Environment, Malaysia
11. 1997 - Excellent Student Award from Academy Sains of Malaysia

### **PROFESSIONAL MEMBERSHIP / QUALIFICATIONS / RECOGNITION**

1. 2010 until now - IEEE Membership No.: 91235585
2. 2010 until now - ACM Membership No.: 5546513
3. 2008 until now - Cisco Network Academy Instructor, Membership No.: 3020502
4. 2008 until now - Cisco Certified Network Associate, Membership No.: 4299810
5. 2012 until now - Cisco Certified Network Associate on Wireless, Membership No.: 4299810
6. 2013 until now - Cisco Certified Network Associate on Security, Membership No.: 4299810
7. since 2014 - Mikrotik Certified Network Associate, Membership No.:1403NA582
8. since 2014 - Mikrotik Certified Wireless Engineer, Membership No.:1404WE004
9. since 2014 - Mikrotik Certified User Management Engineer, Membership No.:1404UME012
10. since 2014 - Mikrotik Certified Traffic Control Engineer, Membership No.:1404TCE010
11. since 2014 - Certified MikroTik Academy Trainer, Membership No.:ACTR0147

### **ADMINISTRATIVE EXPERIENCE**

#### **FACULTY LEVEL**

1. Nov 2010 – Oct 2012: Member of Facilities Management, Faculty of Computer Science & Information Systems, UTM.
2. May 2011: Faculty Panel of Evaluation for promotion exercise to Senior Lecturer (DS52).
3. 2006-2007: Member of Faculty Management Committee, UTM.
4. 2005-2006: Member of Student Affairs Management Committee, UTM.
5. 2006-2009: Chairman of IT Unit Committee, UTM.
6. 2006-2009: Chairman of Technicians Group Committee, FC, UTM.

## **UNIVERSITY LEVEL**

1. Appointed as Head of Department, Department of Computer System & Communication at Faculty of Computer Science & Information Systems from Nov 2010 - Nov 2012.
2. Appointed as IT Manager at Faculty of Computer Science & Information Systems for the second term from Nov 2008 – Oct 09.
3. Appointed as IT Manager at Faculty of Computer Science & Information Systems for the first term from Nov 2005 – Oct 07
4. Panel of PTJ Quotation Evaluation Committee – Technical Specification & Price Evaluation form 1 Mar 13 – 28 Feb 2015.
5. Panel of Tender Evaluation for UTM Server Procurement at CICT on Technical Specification Evaluation on 2009.
6. Panel of Tender Evaluation for UTM Network Equipments Switched & Routers Procurement at CICT on Technical Specification Evaluation on 2006.
7. Appointed as Committee Member of OSHA for Faculty of Computer Science & Information Systems from 2009-2010.
8. Appointed as Member of JATIT Committee from 2005-2007.
9. Appointed as Member of e-Learning Action Group Committee from 2005-2007.
10. Appointed as Member of University Web Development Committee from 2006-2007.
11. Appointed as Member of UTM Open Source Committee from 2005-2007.
12. Appointed as Faculty representative for UTM ALUMNI Committee from 2005-2007.
13. Appointed as Member of INATEX 99 Committee on 1999.
14. Appointed as Jury for re\_www.fsksm.utm.my Competition on 2006.
15. Appointed as Member of UTM Centralize Application Procurement Committee from 2005-2006.
16. Appointed as FSKSM Application Development Committee from 2005-2006.
17. Appointed as Member of tACT 06 Committee on 2006.
18. Committee Member of Department Bulletin SKK from 1990-2000.
19. Appointed as PSM Website CSC Department Committee from 1999-2000.
20. Appointed as Member of PARS'06 Committee on 2006.

## **NATIONAL LEVEL**

1. Appointed as Evaluator for TRGS title proposal “The parallel algorithm for virtual reality of STEM on HPC” on 15 March 2016 to 5 April 2016.
2. Appointed as Evaluator for PRGS title proposal “Automated Data Acquisition, Processing and Analytical Profiles Platform on Hemodialysis Patient Treatment” on 15 March 2016 to 5 April 2016.
3. Appointed as Evaluator for PRGS title proposal “The parallel algorithm for virtual reality of STEM on HPC” on 15 March 2016 to 5 April 2016.

4. Appointed as Evaluator for PRGS title proposal “The parallel algorithm for virtual reality of STEM on HPC” on 15 March 2016 to 5 April 2016.
5. Appointed as Course Coordinator for Twinning Program UTM-IKIP from 2015-2016.
6. Appointed as Programme Advisor for Bachelor of Computer Science for Universiti Teknologi MARA from 2014-2016.
7. Appointed as Subject Coordinator for Twinning Program UTM-IKIP from 2015.
8. Appointed as Programme Evaluator Bachelor of Computer Science for Kolej Universiti Islam Selangor (KUIS) on 2012.
9. Appointed as Member of Islamic Development Bank (IDB) Funding Committee from 2005-2006.
10. Appointed as Member of Antivirus Campaign Committee from 2005-2006.
11. Appointed as Course Coordinator for Twinning Program UTM-Lagenda College from 2005-2006.

### **INTERNATIONAL LEVEL**

1. Appointed as Panel Expert to prepare a specification document for Thoibah Univerisity of Madinah in setting up new labs for new faculty from 2009-2011.
2. Appointed as Instructor for Networking Academy Programme at UTM by Cisco Inc since 2008.
3. Appointed as Instructor for Networking Academy Programme at UTM by Mikrotik Inc since 2014.

### **COMMUNITIES LEVEL**

1. YDP of Ma'ahad Ad-Dirasatil Islamiah, Kempas, Johor since 2013.
2. NYDP Sekolah Kebangsaan Kangkar Pulai Johor from 2012-2014.
3. Academic Bureau, Madrasah Tahfiz Al-Fath, Kundang Ulu Muar Johor since 2006.
4. Committee Members of Masjid Al-Hidayah, Taman Universiti, Skudai from 1997-2000.
5. Members of Charitable Body, Masjid Kg Melayu, Kangkar Pulai since 2006.

## **RESEARCH ACTIVITIES**

### **RESEARCH PROJECT UNDERTAKEN**

1. Project Leader for PRGS research title “Development of Embedded Interference Aware Wireless Mesh Router in High Speed Network” with budget approved RM195,000. Ref. No. PY/2014/03386 and Cost Center No. R.J130000.7828.4L635 for 2 years from 1/8/2014 to 31/7/2016.
2. Project Leader for FRGS research title “A Fundamental Study of Hybrid Unsupervised Machine Learning Model for Anomaly Intrusion Detection System” with budget approved RM88,200. Ref. No. PY/2014/03346 and Cost Center No. R.J130000.7828.4F568 for 2 years from 1/7/2014 to 30/6/2016.
3. Project Member for Science Fund Grant title “End-To-End Cohesive Approach For Agile Software Development In Cloud Computing Environment” with budget approved RM162,000. Ref. No. PY/2014/04122 and Cost Center No. R.J130000.7928.4S113 for 2 years from 1/3/2015 to 28/2/2017.
4. Project Member for FRGS Grant title “Colour Code Scheduling In Beacon Selection Framework For Mobile Positioning In Multiblock Workspace” with budget approved RM77,100. Ref. No. PY/2014/04085 and Cost Center No. R.J130000.7828.4F644 for 2 years from 1/12/2014 to 30/11/2016.
5. Project Member for Research University Grant (RUG) research title “Design and Development of League Championship Algorithm-Based Scheduling Technique for Grid Resource Provisioning Using Cloud System” with budget approved RM 51,000. Ref. No. PY/2014/02051 and Cost Center No. Q.J130000.2528.05H87 for 2 years from 1/4/2014 to 31/3/2016.
6. Project Member for FRGS Grant title “A New algorithm of Peer-To-Peer Cooperative Video Streaming To Improve Video Streaming Performance Over Multimedia Social Network” with budget approved RM92,500. Ref. No. PY/2013/01243 and Cost Center No. R.J130000.7828.4F301 for 2 years from 16/12/2013 to 15/12/2015.

### **RESEARCH UNIVERSITY GRANT (RUG FUND)**

1. Project Leader for Research University Grant (RUG) Postdoc research title “Interference Aware Channel Assignment Using Partially Overlapping Channels In Multi Channel Multi Radio Wireless Mesh Networks” with budget approved RM65,000. Ref. No. PY/2014/03395 and Cost Center No. Q.J130000.21A2.01E35 for 1 year from 1/2/2014 to 31/1/2015.
2. Project Leader for Research University Grant (RUG) research title “Location Service Protocol For Vehicular Ad Hoc Networks In Urban Environment” with budget approved RM100,000. Ref. No. PY/2012/01595 and Cost Center No. Q.J130000.2528.04H11 for 2 years from 1/12/2012 to 31/12/2014.
3. Project Leader for Research University Grant (RUG) research title “” with budget approved RM100,000. Ref. No. PY/2011/02078 and Cost Center No. R.J130000.7728.4D050 for 1 year 8 months from 1/11/2011 to 30/6/2013.
4. Project Leader for Research University Grant (RUG) research title “Development Of Secure Communication For E-Government” with budget approved RM50,000. Ref. No.

PY/2011/01105 and Cost Center No. Q.J130000.2628.02J96 for 1 year 4 months from 1/4/2011 to 31/7/2012.

5. Project Member for Research University Grant (RUG) research title “ The prototype of Indoor Tracking Systems based on FM Radio” with budget approved RM24,000. Ref. No. PY/2014/02681 and Cost Center No. Q.J130000.2628.10J10 for 1 year 3 months from 1/4/2014 to 30/6/2015.
6. Project Member for Research University Grant (RUG) research title “The Prototype Of Smart Wheelchair Navigation And Controller Using Non-Invasive Brain Signal Interface With FM Radio” with budget approved RM27,000. Ref. No. PY/2014/02526 and Cost Center No. Q.J130000.2528.05H79 for 1 year 6 months from 1/4/2014 to 30/9/2015.
7. Project Member for Research University Grant (RUG) research title “Intelligent Transport System: The Prototype Of Movable Robot Control Unit Based On Brainwave Signal Input” with budget approved RM32,000. Ref. No. PY/2012/01585 and Cost Center No. Q.J130000.2628.08J05 for 1 year 1 month from 1/12/2012 to 31/12/2013.
8. Project Member for Research University Grant (RUG) research title “The Enhancement Of Mobility Algorithm For Improving Network Coverage In Wireless Nanosensor Networks Based Particle Swarm Optimization” with budget approved RM40,000. Ref. No. PY/2011/00883 and Cost Center No. Q.J130000.2628.00J94 for 1 year 4 months from 1/4/2011 to 31/7/2012.
9. Project Member for Research University Grant (RUG) research title “An Automated Counting Application For Cell Disorders” with budget approved RM 40,000. Ref. No. PY/2011/00611 and Cost Center No. Q.J130000.2628.00J65 for 1 year 4 months from 01/04/2011 to 31/07/2012.
10. Project Member for Research University Grant (RUG) research title “Smart Defense-In-Depth On Mobile Wireless Ad Hoc Network” with budget approved RM 148,000. Ref. No. PY/2011/00567 and Cost Center No. Q.J130000.2528.00H55 for 2 years from 01/04/2011 to 31/03/2013.
11. Project Member for Research University Grant (RUG) research title “The Mobile Ubiquitous Positioning For Unmovable Physical Facility Tracking” with budget approved RM 40,000. Ref. No. PY/2011/00513 and Cost Center No. Q.J130000.2628.02J56 for 1 year 6 months from 01/04/2011 to 31/03/2012.
12. Project Member for Tier-1 GUP research title “Simulator Of Rehabilitation Process Using Artificial Hand Gripper With Smart Glove” with budget approved RM 20,000. Ref. No. PY/2014/01757 and Cost Center No. Q.J130000.2528.09H10 for 1 year from 1/7/2014 to 30/6/2015.

#### **FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS FUND)**

1. Project Leader for FRGS (Vot 78430) research title “Fundamental Study On Soft Computing Modeling of Corrosion Growth and Reliability Assessment in Gas Pipelines (Malaysian Transmission Lines) with budget approved RM50,000. Ref. No. PY/2009/00183 and Cost Center No. R.J130000.7828.3F368 for 2 years from 14/08/2009 to 13/08/2011.
2. Project Leader for FRGS research title “Algorithm of Dynamic Channel Assignment for Wireless Mesh Networks Environment” with budget approved RM132,000. Ref. No.

PY/2012/00657 and Cost Center No. R.J130000.7828.4F148 for 2 years from 01/04/2012 to 31/03/2014.

3. Project Leader for FRGS(Vot 75165) research title “A Study On Advanced Statistical Analysis For Network Anomaly Detection” with budget approved RM23,500. Ref. No. PY/2004/00035 and Cost Center 75165 for 2 years from 31/8/2000 to 31/7/2002.

#### **EXPLORATORY RESEARCH GRANT SCHEME (ERGS FUND)**

1. Project Leader for ERGS(Vot 4L042) research title “A Framework For Securing Manet From Wormhole Attack Based On Authentication” with budget approved RM53,100. Ref. No. PY/2012/00656 and Cost Center No. R.J130000.7828.4L042 for 2 years from 15/6/2012 to 14/6/2014.

#### **SCIENCEFUND (e-Science Fund)**

1. Project Leader for ScienceFund research title “Node Protection Against Malicious Accusation Attack in Mobile Ad-Hoc Network(MANET)” with budget approved RM168,000. Ref. No. PY/2007/00383 and Cost Center No. R.J130000.7928.3S203 (Vot 79207) for 2 years from 01/09/2007 to 31/08/2009.
2. Project Leader for ScienceFund research title “Server Monitoring Using Covert Channel” with budget approved RM162,000. Ref. No PY/2008/00212 and Cost Center No. R.J130000.7928.3S329 (Vot 79333) for 2 years from 01/12/2008 to 30/11/2010.
3. Project Member for ScienceFund research title “A Secure Transaction Framework For Client-Server Based E-Commerce” with budget approved RM187,150. Ref. No. PY/2000/00060 and Cost Center No. 72368 for 2 years 9 months from 21/09/1996 to 29/6/1999.
4. Project Member for ScienceFund research title “Friend-Assisted Secure Autonomous Mobile Ad Hoc Networks” with budget approved RM 109,300. Ref. No. PY/2007/00473 and Cost Center No. R.J130000.7928.3S257 (Vot 79261) for 1 year 7 months from 1/12/2007 to 30/6/2009.
5. Project Member for eScience Fund(Vot 79262) research title “Mobile Ad Hoc Network Multi Hop Routing Algorithm” with budget approved RM 112,300. Ref. No. PY/2007/00472 and Cost Center No. R.J130000.7928.3S258 for 1 year 7 months from 1/12/2007 to 30/6/2009.
6. Project Member for ScienceFund research title “A Secure Transaction Framework For Client-Server Based E-Commerce” with budget approved RM187,150. Ref No. PY/2000/00060 and Cost Center No. 72368 for 2 years and 9 months from 21/9/1996 to 29/6/1999.
7. Project Member for ScienceFund research title “Development of Secure Mobile Ad-Hoc Network (MANET) with Critical Nodes Detection and Intrusion Detection System Network(MANET)” with budget approved RM248,900 with Cost Center No. 79280 for 2 years from 1/1/2008 to 31/12/2010.



8. Project Member for ScienceFund research title “Cooperative Intrusion Detection System for Grid Computing” with budget approved RM150,000. Cost Center No. 79088 for 2 years from 1/12/2006 to 1/11/2008.
9. Project Member for ScienceFund research title “Visualizing orientation of ion dynamics in bioinformatics datasets” with budget approved RM 136,000. Cost Center 79250 for 2 years from 1/4/2007 to 31/3/2009.
10. Project Member for ScienceFund research title “Generating Private and Public Keys from Biometrics Fingerprint Data Using Fuzzy Extractors” with budget approved RM 80,000. Cost Center No. 79270 for 2 years from 1/4/2007 to 31/3/2009.
11. Project Member for ScienceFund research title “Development of Collaboration Protocol of Multiagent in a Web base Environment” with budget approved RM 72,000. Cost Center No. 71553 for 2 years from 1/12/2002 to 30/11/2004.

#### **INTENSIFICATION OF RESEARCH IN PRIORITY AREAS (IRPA)**

1. Project Member, A Secure Transaction Framework For Client-Server Based E-Commerce” with budget approved RM187,500 (Vot 72368 – IRPA) for 2 years 6 months from 1/9/2000 to 31/3/2003.

#### **INTERNATIONAL CONTRACT RESEARCH PROJECT AWARDED**

1. Project Member, Review and Identification of Suitable State of the Art Engineering Laboratories Equipments For The College of Engineering New Building, Thoibah University of Madinah, Vot 63692. From 21/7/2009 – 31/7/2011 with budget approved USD 65,000.00.

#### **NATIONAL CONTRACT RESEARCH PROJECT AWARDED**

1. Project Leader, Network Security Auditing for Sarawak Information Systems (SAINS), Sarawak. Cost Center No. 411 for 1 year from 1/4/2008 to 31/3/2009. Budget approved RM30,000.

#### **PATENT FILED/DISCLOSURE/COPYRIGHT**

1. Interference Aware Cluster Based Joint Channel Assignment Scheme in Wireless Mesh network, Copyright 2014
2. Interference Aware Non-overlapping Channel Assignment Model in Wireless Mesh network, Copyright 2014
3. Interference Aware Joint Channel Assignment Model in Wireless Mesh network, Copyright 2014

## **RESEARCH AWARDS**

1. 2013 - Received Gold Award at International Invention, Innovation & Technology Exhibition (ITEX'13) Kuala Lumpur Convention Centre, 9-11 May 2013
2. 2013 - Received Gold Award at Research and Innovation Expo (UTeMEX 2013)
3. 2012 - Received Gold Award at Industrial Art and Technology Exhibition (INATEX'12) at Universiti Tun Hussien Onn
4. 2011 - Received Silver Award at MySTI-Expo 2011 Exhibition, Kuala Lumpur Convention Center (KLCC) on 29-31 July 2011 organized by MOSTI

## **INDUSTRIAL COLLABORATION/LINGKAGE**

1. Collaboration with MEDICARE Sdn Bhd to prepare the support system for medical equipments in 2010-11.
2. Collaboration with MIMOS Sdn Bhd to set up Security Defence Mechanism: Honey Pot in 2008.
3. Collaborate with Mikrotik Inc to enhance the functionality of a Mikrotik router since 2014.
4. Collaborate with Cisco System Inc. to support education in Malaysia by adapting Networking Academy program in UTM courses since 2005.
5. Collaborate with Mikrotik Inc to adapt the Networking Academy program into UTM undergraduate and postgraduate program courses since 2014.

## **KNOWLEDGE TRANSFER (CORPORATE SOCIAL RESPONSIBILITY)**

1. Knowledge Transfer to Pusat Darah Wilayah, Unit Patalogi, Hospital Raja Perempuan Zainab 2, Kota Bahru on system development as follow:
  - a. Blood Bank Information Systems (BBIS) since 2009
  - b. Mobile Blood Bank Information Systems (Mobile BBIS) since 2010
  - c. Patient Safety since 2013
2. Collaborate and knowledge transfer with R&D Telekom Berhad to setting up a customize routers in 2009.
3. Social Service with Cisco Network Academy preparing the network computer infrastructure rural school at Balik Pulau, Penang in 2012.
4. Giving expertise to researcher at UniKL MITEC Seri Alam Pasir Gudang in preparing research proposal for FRGS grant 2015.

## ACADEMIC ACCOLADES & LEADERSHIP

### JOURNAL EDITOR

1. Editorial Board Member for International Journal for Research in Science, Engineering and Technology since 2015.

### JOURNAL/PROCEEDING REVIEWER

1. Review a paper entitled "The Research of User Satisfaction Model in Hybrid Cloud Environment", SoMeT\_2016, The 15th International Conference on Intelligent Software Methodologies tools and Techniques, 12-14 Septmeber, Larnaca, Cyprus.
2. Review a paper entitled "A Secure Cloud-Based SCADA Application: the Water Supply Network Use Case", SoMeT\_2016, The 15th International Conference on Intelligent Software Methodologies tools and Techniques, 12-14 Septmeber, Larnaca, Cyprus
3. Review a paper entitled "Least-Square Collaborative Beamforming Linear Array For Steering Capability In Wireless Sensor Networks" for the 4<sup>th</sup> International Conference on Research and Innovation in Information Systems (ICRIIS'15), 27/9/2015.
4. Review a paper entitled "Quality of Service (QoS) Performances of Dedicated and Shared Path Protection Schemes in Survivable Optical Network" for the 4<sup>th</sup> International Conference on Research and Innovation in Information Systems (ICRIIS'15), 27/9/2015.
5. Review a paper entitled "Automatic Identification And Data Capture Technology In Information Science" for Jurnal Teknologi in 2015.
6. Reviewer a paper entitled "A Method for SLA establishment guided by QoS for composite Saas" for Future Generation Computer Systems, Elsevier in 2015.
7. Reviewer a paper entitled "Data Breach in Cloud Computing: A Review" for Jurnal Teknologi in 2015.
8. Reviewer a paper entitled "A Review on Secure Access Control Models in Cloud Computing" for Jurnal Teknologi in 2015.
9. Reviewer a paper entitled "Research of Danger Theory Based on Balancing Mechanism" for International Journal of Advancements in Computing Technology in 2015.
10. Reviewer a paper entitled "An Environmental Monitoring System for Managing Spatio Temporal Sensor Data over Sensor Networks" for International Journal of Advancements in Computing Technology in 2015.
11. Reviewer a paper entitled "Research and development on aspects of clock synchronization in a wireless sensor network" for International Journal of Advancements in Computing Technology in 2015.
12. Review a paper entitled "Opportunistic Geocast in Large Scale Intermittently Connected Mobile Ad Hoc Networks" for 17th Asia-Pacific Conference on Communications - Wireless Ad Hoc and Sensor Networks in 2013.
13. Review a paper entitled "Identifying Same Wavelength Groups from Twitter: A Sentiment Based Approach" for the 5th Asian Conference on Intelligent Information and Database Systems 2013 - Tools and Applications

14. Review a paper entitled "Acid-Base Titration and Buffer Calculations Using Excel" for the 5th Asian Conference on Intelligent Information and Database Systems 2013 - Tools and Applications
15. Review a paper entitled "Systematic Literature Review on Software Security Engineering using Feature Driven Development (FDD)" for the 5th Asian Conference on Intelligent Information and Database Systems 2013 - Tools and Applications
16. Review a paper entitled "Enhanced Generic Information Services using Mobile Messaging" for the 4th International Symposium on Information Technology.
17. Review a paper entitled "A New Routing Mechanism for high speed mobile Ad Hoc Network" for the 4th International Symposium on Information Technology.
18. Review a paper entitled "RTT Estimation Method in WSN" for 17th Asia-Pacific Conference on Communications - Wireless Ad Hoc and Sensor Networks.
19. Review paper title "SAZRP: Energy Aware Zone Routing Protocol using Span" for International Journal of Advancements in Computing Technology in 2015.
20. Reviewer a paper entitled Effects of Hand on EM Absorption of Internal Handset Antenna for Conference IEEE Student Conference on Research and Development (SCORED 2014) in 2014.
21. Reviewer a paper entitled "Probability Determination of Link And Route Existencies in Mobile Mesh Networks" for International Journal of Simulation and Process Modelling in 2014.
22. Paper review for CoGRAMM papers on 2008.
23. Reviewer a paper entitled "XML data integration in data warehouse system" for Postgraduate Annual Research Seminar 2006.
24. Reviewer a paper entitled "A static jobs scheduling for independent jobs in grid environment by using fuzzy c-mean and genetic algorithms" for Postgraduate Annual Research Seminar 2006.
25. Reviewer a book entitled "Implementation TCP/IP Firewall Using IPtables/Netfilter in Linux Environment" for Penerbit UTM 2005

## **PROPOSAL PROJECT/GRANT REVIEWER PANEL**

1. Evaluator research grant proposal for FRGS 2015 titled "Enhanced Scalable Routing Algorithm for Heterogeneous Underwater Linear Wireless Sensor Networks to Improve Pipelines Monitoring Coverage".
2. Evaluator research grant proposal for FRGS 2015 titled "Identification of True Identity of Online Users based on Human Intrinsic Characteristics for Cyber crime Investigation".
3. Evaluator research grant proposal for FRGS 2015 titled "Quick Wi-Fi radio map construction algorithm for indoor positioning systems using Discrete Fourier and Wavelet Transforms".
4. Evaluator research grant proposal for FRGS 2015 titled "An adaptive statistical machine translation algorithm for Malay - German sign language for diffable children based on Hidden Markov Model".

5. Evaluator research grant proposal for FRGS 2015 titled "Metamodel-Based Framework for All Optical Network Management System".
6. Evaluator research grant proposal for FRGS 2015 titled "Energy-aware Distributed Movement Assisted Sensors Deployment Algorithm For Coverage Preservation".
7. Fasilitator and evaluator for FRGS grant proposal for Faculty Computing researcher on 27 May 2015.
8. External evaluator for research grant proposal: Internal and external grant application for UniKL, MITEC. 20th May 2015.
9. Evaluator research grant proposal for FRGS 2014 titled "Metamodel-Based Framework in Designing Network Management System".
10. Evaluator research grant proposal for FRGS 2014 titled "Fundamental Study of Enhancing the Accuracy of Signal Analysis in Electrocardiogram(ECG)".
11. Evaluator research grant proposal for FRGS 2014 titled "An Attack-Based Security Analysis Model to Assess Potential Threats during Software Design Phase".
12. Evaluator research grant proposal for FRGS 2014 titled "Heart Sound Analysis Using MFCC features".
13. Evaluator research grant proposal for FRGS 2014 titled "Cross Layer Protocol with Multi-Channel Time Division Multiple Access for Uplink and Downlink Traffic in Wireless Sensor Network".
14. Evaluator research grant proposal for FRGS 2014 titled "Plate Number Character Recognition based on Geometrical Properties Analysis".
15. Evaluator research grant proposal for FRGS 2014 titled "Color Code Scheduling for Beacon Selection Algorithm".
16. Evaluator for research grant proposals for FRGS Geran Flagship (RG) in 2014.
17. Evaluator panel for research grant proposal for Flagship grant Research University Grant. 2014.
18. Evaluator for research grant proposal for GUP in 2013.

## **ACADEMIC PROGRAM ADVISOR**

1. Appointed as academic advisor for TATI University College for posgraduate programs on 2014.
2. Appointed as academic advisor for UiTM for undergraduate programs on 27 August 2015.

## **PLENARY LECTURE / KEYNOTE ADDRESS / INVITED / GUEST SPEAKER**

1. Keynote Speaker on “Mobile Network For Internet of Things in Real World Scenarios” for The 2016 5th ICT International Student Project Conference (ICT-ISPC2016) 27-28 May 2016, Thailand.
2. Keynote Speaker on “Internet of Things: Applications, Future Trends and Challenges” for IEEE International Conference on Computing, Communication & Automation, Galgotis University, India. 29-30 April 2016.
3. Chief Guest Speaker for 3rd International Conference on Emerging Trend in Engineering & Technology, Nehru Institute Of Engineering And Technology, "Nehru Gardens" Thirumalayampalayam Post, Coimbatore-641 105. Tamilnadu, India., India. 20-21 April 2016.
4. Keynote Speaker on “Security Framework for Internet of Things” for 3rd International Conference on Emerging Trend in Engineering & Technology, Nehru Institute Of Engineering And Technology, "Nehru Gardens" Thirumalayampalayam Post, Coimbatore-641 105. Tamilnadu, India., India. 20-21 April 2016.
5. Invited speaker on “Workshop on Preparing Research Proposal Grant” for UniKL, MITEC. 20th May 2015.
6. Invited speaker on “Wireless and WAN Technology” for Royal Navy of Oman from 22-23 February 2013.
7. Invited speaker on “Tips menyuntik motivasi pelajar sekolah” for Sekolah Kebangsaan Kangkar Pulai on 14 Disember 2012.
8. Invited speaker on “Switching and Routing Technology” for Royal Navy of Oman from 9-10 November 2012.
9. Invited speaker on “Discovery of the Network Technology” for Royal Navy of Oman from 24-26 June 2012.
10. Invited speaker on “Introduction to Networks” for Telekom Malaysia Research & Development. 14-15 May 2007.
11. Invited speaker on “Routing & Switching Essentials” for Telekom Malaysia Research & Development. 16-17 May 2007.
12. Invited speaker on “Scaling Networks” for Telekom Malaysia Research & Development. 18-19 May 2007.
13. Invited speaker on “Connecting Networks” for Telekom Malaysia Research & Development. 20-21 May 2007.
14. Invited speaker on “Cisco Certified Entry Networking” for technician staf of Faculty of Computing UTM. 21-25 April 2008.
15. Invited speaker on “Interconnecting Cisco Networking Devices” for IT Department, Human Resource Office, 5-9 May Putrajaya. 2008.
16. Invited speaker on “Fundamental Cisco Wireless Technologies” for School of Professional and Advanced Center. 2007.
17. Invited speaker on “Introduction to Firewall” for Graduate Program UTM. 23 April 2006.
18. Keynote speaker on “Awareness of Cyber Security Issues” for Conference on Information Technology, 24-26 July, 2002, Universiti Malaysia Terengganu.

**TEACHING ACTIVITIES****POSTGRADUATE PROGRAM**

No	Session	Sem	Subject Code	Subject	Credit Hour	Total
1.	1415	1	MCSH2463	Wireless Security	3	12
2.	0910	1	MCS2443	Telecom., N/w and Internet Security	3	27
3.	0809	2	MCS2443	Telecom., N/w and Internet Security	3	27
4.	0809	2	MCS1353	Computer & Comm. Technology	3	29
5.	0809	1	MCS1353	Computer & Comm. Technology	3	29
6.	0809	1	MCS2443	Telecom., N/w and Internet Security	3	35
7.	0708	2	MCS2443	Telecom., N/w and Internet Security	3	35
8.	0708	1	MCS2443	Telecom., N/w and Internet Security	3	30
9.	0607	2	MCS2443	Telecom., N/w and Internet Security	3	30
10.	0607	2	MCB1133	Integration Technology for Business	3	30
11.	0607	1	MCB1153	Computer Network for Business	3	30
12.	0506	2	MCS2443	Telecom., N/w and Internet Security	3	25
13.	0506	2	MCB1133	System Integration Technology	3	30
14.	0506	1	MCP1203	Software Technology	3	30
15.	0405	2	MCP1203	Software Technology	3	30

**UNDERGRADUATE PROGRAM**

No	Session	Sem	Subject Code	Subject	Credit Hour	Total
1.	1516	2	SCSR3032	Project 1 : Net & Sec Network	2	20
2.	1516	2	SCSR2242	Computer Network	2	19
3.	1516	2	SCSR2491	Computer Network Lab	1	19
4.	1516	1	SCSP1103	Teknik Pengaturcaraan C	3	30
5.	1516	1	SCSR3242	Teknologi Antara Rangkaian	2	17
6.	1516	1	SCSR3941	Teknologi Makmal Antara Rangkaian	1	17
7.	1415	2	SCSR2242	Computer Network	2	29
8.	1415	2	SCSR2491	Computer Network Lab	1	29
9.	1415	2	SCSR4453	Network Security	3	20

10.	1415	1	SCSR3413	Computer Security	3	20
11.	1415	1	SCSR3242	Internetworking Technology	2	12
12.	1415	1	SCSR3941	Internetworking Technology Lab	1	12
13.	1415	1	SCSR4453	Network Security	3	22
14.	1314	2	SCSR1213	Network Communication	3	20
15.	1314	2	SCSR3242	Internetwork Technology	2	16
16.	1314	2	SCSR3491	Internetwork Technology Lab	1	16
17.	1314	2	SCSR2242	Computer Network	2	14
18.	1314	2	SCSR2491	Computer Network Lab	1	14
19.	1314	1	SCSR3242	Internetwork Technology	2	30
20.	1314	1	SCSR3491	Internetwork Technology Lab	1	30
21.	1314	1	SCD3032	Project 1	2	22
22.	1314	1	SCSR2213	Network Communication	3	30
23.	1314	1	SCSR3242	Internetwork Technology	2	24
24.	1112	2	SCR3242	Internetwork Technology	2	24
25.	1112	2	SCSR3491	Internetwork Technology Lab	1	24
26.	1112	2	SCSR1213	Network Communications	3	36
27.	1112	1	SCR3242	Internetwork Technology	2	25
28.	1112	1	SCR3491	Internetwork Technology Lab	1	25
29.	1011	2	SCR3242	Internetwork Technology	2	24
30.	1011	2	SCR3491	Internetwork Technology Lab	1	24
31.	1011	1	SCR3242	Internetwork Technology	2	26
32.	1011	1	SCR3491	Internetwork Technology Lab	1	26
33.	1011	1	SCR3491	Internetwork Technology Lab	1	26
34.	0910	2	SCR2213	Network Communications	3	30
35.	0910	2	SCK3093	Special Topic on Comp Sys & Com	3	14
36.	0910	2	SCR3242	Internetwork Technology	2	22
37.	0910	2	SCR3491	Internetwork Technology Lab	1	22



38.	0910	1	SCK2043	Network Communications	3	26
39.	0910	1	SCR2213	Network Communications	3	26
40.	0910	1	SCK3093	Topik Khas Rangkaian	3	20
41.	0809	2	DCN2103	Komunikasi Data	3	35
42.	0809	2	SCK2043	Komunikasi Rangkaian	3	30
43.	0809	1	SCK2043	Komunikasi Rangkaian	3	25
44.	0708	2	SCN3203	Rangkaian Komputer	3	25
45.	0708	2	SCK2043	Komunikasi Rangkaian	3	25
46.	0708	1	SCK2043	Komunikasi Rangkaian	3	25
47.	0607	1	DCN2103	Komunikasi Data	3	30
48.	0607	1	SCK2043	Komunikasi Rangkaian	3	26
49.	0506	2	SCN4303	Integrasi Sistem	3	40
50.	0506	2	SCE4303	Rangkaian Komputer	3	30
51.	0506	1	SCN3203	Rangkaian Komputer	3	30
52.	0506	1	SCN4303	Integrasi Sistem	3	32
53.	0405	2	SCN4303	Integrasi Sistem (II)	3	35
54.	0405	2	SCN4303	Integrasi Sistem (I)	3	35
55.	0405	1	SCN4303	Integrasi Sistem	3	34
56.	0001	1	SCK1023	Logik Digital	3	34
57.	0001	1	DCN2103	Komunikasi Data	3	32
58.	0001	1	SCN3203	Rangkaian Komputer	3	31
59.	9900	2	SCK1023	Logik Digital	3	36
60.	9900	2	SZKxxx3	Keselamatan Komputer	3	30
61.	9900	2	DCN2103	Komunikasi Data	3	30
62.	9900	2	SCN3203	Rangkaian Komputer	3	30
63.	9900	1	DCP2073	Asas Pengaturcaraan C	3	30
64.	9900	1	DCN2103	Komunikasi Data	3	34
65.	9900	1	DCP1023	Teknik Pengaturcaraan1(Pascal)	3	33

66.	9899	2	DCP2203	Perisian Sistem	3	34
67.	9798	2	DCP2203	Perisian Sistem	3	34
68.	9798	2	DCP1062	Asas Pengaturcaraan Komputer	2	33

## SUPERVISION

### PHD STUDENT

Year	No.	Name	Status	Title	Roles of Supervision
2007	1.	Tameem Eissa	Graduate 2011	Development of Secure Communication using Hidden Public Key	Main Supervisor
2011	2.	Rashid Hafeez Khokhar	Graduate 2011	Routing Protocol in Vehicular Network	Main Supervisor
2005	3.	Johan Bin Mohamad Sharif	Graduate 2012	Visualizing Orientation of Ion Dynamics in Bioinformatics Dataset	Co-Supervisor
2008	4.	Satria Mandala	Graduate 2012	Development of Intrusion Detection System for Mobile Ad Hoc Network	Co-Supervisor
2008	5.	Salim M. Zaki	Graduate 2012	Development of Routing Protocol for Vehicular Network in Airport Environment	Main Supervisor
2010	6.	Saqib Ali	Graduate 2013	Interference Aware Cluster-Based Joint Channel Assignment Scheme In Multi-Channel Multi-Radio Wireless Mesh Networks	Main Supervisor
2012	7.	Vahid Ayatollahitafti	Graduate 2015	Energy-Efficient Prioritization-Based Congestion Controlrouting Protocol In Multi-Hop Body Sensor Networks	Main Supervisor
2010	8.	Ismail bin Ahmedy	Graduate 2015	Energy-Path Aware Routing with Addressing and Data Aggregation Scheme for Data-Centric Wireless Sensor Networks	Main Supervisor

2008	9.	Syaril Nizam Omar	Graduate 2016	Stealth Covert Channel Using Reference Matric To Improve Noise Resistant And Normal Packet Length Distribution	Main Supervisor
2010	10.	Salima Omar M. Hamad	Graduate 2015	Anomaly Based Ids For Unlabel Data	Main Supervisor
2013	11.	Mudassar Ahmad	Graduate 2016	TCP Congestion Control in Long Distance High Bandwidth Networks	Main Supervisor
2013	12.	Abdualleem Ali Al Mazroi	Pass Viva on 14 Feb 2016 (correction)	An Energy Efficient and Packet priority Scheduling Adaptive Multipath Routing in Wireless Sensor Network	Main Supervisor
2008	13.	Saiful Adli Bin Ismail	Viva On 17 April 2016	Secured Key Management Framework for Grid Computing	Main Supervisor
2013	14.	Usman Ahmad	Pass Viva on 16 Mar 2016 (correction)	End to End congestion control technique in high speed networks	Main Supervisor
2012	15.	Wan Mohd Nasri Bin Wan Muhamad Saidin	Ongoing -2016	An Adaptive Data Collection Model For Wlan Indoor Positioning Using Users Feedback Approach	Main Supervisor
2012	16.	Azlina Binti Kamaruddin	Ongoing -2016	Mobility based routing protocol for underwater sensor networks	Main Supervisor
2014	17.	Mohd Farhan Bin Ngatman	Ongoing 2014-2017	An Efficient Routing Protocol in Cloud Mesh Wireless	Main Supervisor
2014	18.	Mohammed Abdullahi	Ongoing 2014-2017	Failure Detection and Forecasting in Cloud Computing Environment	Main Supervisor
2013	19.	Arafat Mohammed Rashad Al-Dhaqm	Ongoing 2013-2016	Database Forensic Metamodel	Co-Supervisor
2013	20.	Ahmad Arshad Bin Farid Nasir	Ongoing 2013-2016	Energy and QoS Aware Routing Algorithms for Real Time application over OBS Networks	Co-Supervisor

**MSC. STUDENT**

Year	No.	Name	Status	Title	Type	Roles of Supervision
2013	1.	Akhtaruzzaman Adnan	Graduate 2014	Cuckoo Search Based Clustering Algorithm In Wireless Sensor Networks	Research	Main Supervisor
2010	2.	Ali Abd. Khuthar	Graduate 2012	Best Effort Technique coding/decoding for VOIP Environment	Research	Main Supervisor
2009	3.	Mohd Farhan Bin Ngatman	Graduate 2011	Enhancement of SIP Protocol	Research	Main Supervisor
2007	4.	Syaril Nizam Omar	Graduate 2008	Development of Covert Channel for Secure Communication	Taught Course	Main Supervisor
2006	5.	Siti Norihan Hj Mu'ti @ Basir	Graduate 2007	Supply Chain Management Application for Small Medium Industries (SMI) in Batu Pahat	Taught Course	Main Supervisor
2006	6.	Khairul Azlan Ali	Graduate 2007	<i>Forex Smart Trader: FOREST</i>	Taught Course	Main Supervisor
2006	7.	Suziana bte Samuntin	Graduate 2007	<i>Livestock Management System: LIMAS</i>	Taught Course	Main Supervisor

**BSC. STUDENT**

Year	No.	Name	Status	Title	Type	Roles of Supervision
2016	1.	M Firdaus Shah	Ongoing	Indoor Positioning Location for Class Attendant System	Research	Main
2016	2.	Muhammad Zakwan Bin Zainundin	Ongoing	Development of Routing Protocol Wireless Sensor Network for Cattle Monitoring System	Research	Main

2014	3.	Muhamad Fikri Bin Ismail	Graduate 2015	Cattle Monitoring System	Project	Main Supervisor
2011	4.	Nor Amira bt Nor Azhan	Graduate 2012	Sistem penyembunyian teks rahsia menggunakan email	Research	Main Supervisor
2011	5.	Muhammad Firdaus Kader	Graduate 2012	Sistem Penggunaan Smart Card Pada Sekolah Kurang Upaya	Project	Main Supervisor
2011	6.	Norhisyam b Abas	Graduate 2012	Sistem Pemantauan Pekerja Berasaskan Web	Project	Main Supervisor
2011	7.	Ahmad Fuad b Rashid	Graduate 2012	Sistem Pemantauan Tangki Air Menggunakan Teknologi Sensor	Project	Main Supervisor
2011	8.	Mohammad Saiful Adli	Graduate 2012	Sistem Pengurusan Sekolah Kurang Upaya	Project	Main Supervisor
2011	9.	Mohd Zaki Yahaya	Graduate 2012	Sistem Pengurusan Ubat Farmasi Menggunakan Android	Project	Main Supervisor
2011	10.	Muhd Farid Ahmad Nasir	Graduate 2012	Sistem Pengurusan Maklumat Tentera Berasaskan Web	Project	Main Supervisor
2011	11.	Yanti Munirah Josoh	Graduate 2012	<i>Teknik Penyamaran Honeypot</i>	Research	Main Supervisor
2010	12.	Siti Umairah bt Ibrahim	Graduate 2011	Honeyport untuk pelbagai platform	Research	Main Supervisor
2010	13.	Nurul Hafizah Sebaweh	Graduate 2011	Honeypot Firewall	Research	Main Supervisor
2010	14.	Mohammad Syazwan b Mohd Taib	Graduate 2011	Sistem Penempahan Teksi Menggunakan GPS	Project	Main Supervisor
2010	15.	Mohammad Ilyas b Nazaria	Graduate 2011	Sistem Pengurusan Bas Menggunakan GPS	Project	Main Supervisor
2009	16.	Norsyahida Binti Ghazali	Graduate 2010	Sistem Kedatangan Staf Menggunakan Teknologi RFID	Project	Main Supervisor

2009	17.	Nurul Liana Binti Ali	Graduate 2010	Sistem Penempahan Makanan Menggunakan Teknologi SMS	Project	Main Supervisor
2009	18.	Soleha Binti Salleh	Graduate 2010	Sistem Top Up Menggunakan Teknologi SMS	Project	Main Supervisor
2009	19.	Akil Abdul Raoff	Graduate 2010	Sistem Pengurusan Sekolah Bersepadu Menggunakan Teknologi SMS	Project	Main Supervisor
2009	20.	Mohd Fitri Aziz Mohd Alias	Graduate 2010	Sistem e-Flier Berteknologi Barkod	Project	Main Supervisor
2009	21.	Muhammad Zahid Mat Yusof	Graduate 2010	Sistem Tempahan Teksi Menggunakan Teknologi Sistem Kedudukan Sejagat	Project	Main Supervisor
2009	22.	Muhamad Annis Zainodin	Graduate 2010	Kajian mengenai kelemahan pangkalan data Oracle melalui utiliti Listener	Project	Main Supervisor
2008	23.	Law Chee Sin	Graduate 2009	Sistem Pembelian Tiket Bas Ekspress Secara Online dan Penggunaan Teknologi SMS	Project	Main Supervisor
2008	24.	Tan Ik Suan	Graduate 2009	Penggunaan Teknologi RFID Dalam Sistem Inventori Peralatan Komputer	Project	Main Supervisor
2008	25.	Lim Song Yuan	Graduate 2009	Sistem Penghantaran Mesej Pengumuman Berasaskan Web dab Teknologi SMS	Project	Main Supervisor
2008	26.	Loo Lip Seng	Graduate 2009	Pembangunan Sistem Pembayaran Bil Utiliti Secara Online Bangking dengan Menggunakan Teknologi SMS	Project	Main Supervisor

2008	27.	Wan Marfazila Binti Wan Mahmud	Graduate 2009	Sistem Penjadualan Pemandu UTM Menggunakan RFID dan SMS	Project	Main Supervisor
2008	28.	Syed Hanafie Syed Ahmad	Graduate 2009	Sistem Inventori ICT Jabatan Komputer dan Sistem Maklumat	Project	Main Supervisor
2006	29.	Lim Jann Han	Graduate 2007	Pembangunan Antaramuka Admin Berasaskan Web Bagi Pelayan Asterisk SIP	Project	Main Supervisor
2006	30.	Lee Chuw Fan	Graduate 2007	Pembangunan Pelayan Proxy SIP untuk Komunikasi Berbilang Pelanggan	Project	Main Supervisor
2006	31.	Mu'ammarr Sirajudin	Graduate 2007	Sistem Hebahan Makluman Menggunakan Protokol SIP	Project	Main Supervisor
2006	32.	Mohammed Bin Mohd Hasni	Graduate 2007	Sistem Pesanan Mesej Internet Mobil SIP (MSIM)	Project	Main Supervisor
2005	33.	Muhammad Heikal Bin Othman	Graduate 2006	Sistem Penyembunyian Pelbagai Format Data Menggunakan Teknik Steganografi	Project	Main Supervisor
2005	34.	Muhibbuddin Bin Abdullah	Graduate 2006	Sistem Bantuan Doktor Di HUSM Kubang Kerian Menggunakan PDA	Project	Main Supervisor
2005	35.	Nor Shaliza Bt Mohd Basarudin	Graduate 2006	Perolehan Ubat-ubatan di Farmasi Berasaskan Web Dengan Menggunakan PDA	Project	Main Supervisor
2005	36.	Nurul Faiz Binti Md Jamil	Graduate 2006	Sistem Pengiraan Markah Menggunakan Teknik Pengesahan Penyulitan Bagi Latihan Praktik FSKSM	Project	Main Supervisor

2005	37.	Yazid Bin Jaafar	Graduate 2006	E-LP: Sistem Permohonan Organisasi Latihan Praktik Berasaskan Web dan Makluman Melalui SMS	Project	Main Supervisor
2005	38.	Yogasanthi A/P V. Umapathi	Graduate 2006	Kuala Lumpur Path Finding System Using PDA for Public Transport	Project	Main Supervisor
2005	39.	Ismail Bin Ahmedy	Graduate 2006	Penggunaan Teknik Watermarking Dalam Aplikasi Muat Turun Wallpaper Secara Berbayar Bagi Telefon Bombit Menggunakan Teknologi GPRS	Project	Main Supervisor
2004	40.	Lim Shen Long	Graduate 2005	Prototaip Sistem Penempahan Buku Berasaskan Servis Web	Project	Main Supervisor
2004	41.	Muthanna Bin Saari	Graduate 2005	Implementasi Algoritma Penghalauan AODV dan MAODV Dalam Sistem Komunikasi dan Pengiklanan di PC Fair	Project	Main Supervisor
2004	42.	Nazratul Ain Bt Abdul Kahar	Graduate 2005	Sistem Pantauan Rangkaian di Pusat ICT	Project	Main Supervisor
2004	43.	Ng Kam Swee	Graduate 2005	Sistem Maklumat Bursa Saham Tanpa Wayar	Project	Main Supervisor
2004	44.	Siew Lai Seon	Graduate 2005	Simulasi Pengiraan Jumlah Bil Utiliti Menggunakan Teknologi Tanpa Wayar	Project	Main Supervisor
2004	45.	Sumarni Bt Siramang	Graduate 2005	Sistem Pembelajaran Kanak-kanak Kurang Upaya Pra Sekolah Berasaskan VXML	Project	Main Supervisor
2004	46.	Tan En Yu	Graduate 2005	Tools For Real-Time Virtual Lecture Using Video Conferencing Technology For Student FSKSM	Project	Main Supervisor



2004	47.	Tan Kok Mang	Graduate 2005	Sistem Penapisan Maklumat Pelbagai Sistem	Project	Main Supervisor
2004	48.	Tan Loo Toon	Graduate 2005	Sistem Pengurusan Penjualan Kereta Berasaskan Perkhidmatan Web	Project	Main Supervisor
2004	49.	Wan Jon Yew	Graduate 2005	Sistem Menganalisa Web Menggunakan Teknologi Clickstream	Project	Main Supervisor
2004	50.	Norliza Binti Abdullah	Graduate 2005	Sistem Peminjaman dan Pemulangan Alatan PSM	Project	Main Supervisor
2004	51.	Norizan Bin Shafiee	Graduate 2005	Pembangunan Aplikasi AP dalam Persekitaran WiFi	Project	Main Supervisor

## **POSTGRADUATE EXAMINATION /VIVA**

### **UTM STUDENTS/VIVA**

1. Examiner for PhD thesis entitled "A DNA Based Model For Wlan Association Protocol Against Resource Depletion Attack" by Ali Ordi in 2015.
2. Examiner for PhD thesis entitled "Message Drop Control Buffer Management Drop Policies For Dtn Routing Protocols" by Sulma Rashid in 2014.
3. Examiner for PhD thesis entitled "Self Adaptive Resource Aware Routing Protocol for Dealy Tolerant Network" by Sheikh Muhammad Qaisar Ayyub in 2013.
4. Examiner for PhD thesis entitled "Message Drop Control Buffer Management Drop Policies For DTN Routing Protocols" by Sulma Rashid in 2013.
5. Examiner for PhD thesis entitled "Reducing Handover Latency using Cross Layer Protocol in MIPv6-Based Wireless Local Area Networks" by Mohammed Arif Amin in 2012.

### **PHD EXTERNAL EXAMINER**

1. Examiner for PhD thesis entitled "An Enhancement of P2P Botnets Detection Framework" by Raihana Syahirah Binti Abdullah from UTeM in 2015.
2. Examiner for PhD thesis entitled "Enhancement of IP over Ethernet Naming Architecture to Improve Network Performance and Security" by Waleed Khalid Zubaydi from UNITAR International University in 2014.
3. Examiner for PhD thesis entitled "K-Correlated Survivability Analysis Model For Manets" by Azni Haslizan Binti Ab Halim from UTeM in 2013.

4. Examiner for PhD thesis entitled “Wireless Sensor Network in Smart Grid Environment “ by A. Vijayalakshmi from Anna University, Chennai, TamilNadu, India in 2012.
5. Examiner for PhD thesis entitled “Optimal Multi Facet Approach For Peer To Peer Video On Demand System “ by R. Ashok Kumar from VIT University, Tamil Nadu, India in 2012.

### **MSc EXTERNAL EXAMINER**

1. Examiner for MSc thesis entitled “A Comparative Study of Machine Learning Methods for Android Malware Detection” by Fairuz Amalina binti Narudin from University Malaya in 2015.
2. Examiner for MSc thesis entitled “Distributed Mobility Management (DMM) For Inter-Domain Handover In MIPv6” by Ahmad Abdul Rahim Musleh from University Malaya in 2014.
3. Examiner for MSc thesis entitled “A Lightweight Algorithm For Partitioning Elastic Mobile Application in Mobile Cloud Computing” by Liu Jie Yao from University Malaya in 2014.
4. Examiner for MSc thesis entitled “Enhancing Modified ODV Protocol for Mitigating Black Hole Attack” by Zaid Ahmad from UiTM in 2014.
5. Examiner for MSc thesis entitled “A Framework to Support Open Authorization and Single Sign on For Web Applications in the Cloud” by Amir Hessem Yazdi from Universiti Malaya in 2014.
6. Examiner for MSc thesis entitled “Partitioned Opportunistic Routing in Wireless Sensor Network” by Tanyar Pooyeh from University Malaya in 2013.
7. Examiner for MSc thesis entitled “Anomaly Botnet Detection for Instant Messaging Using Entropy Measurement Technique” by Mohsen Saghafi from Universiti Malaya in 2013.
8. Examiner for MSc thesis entitled “Dynamic Vertical Handover Scheme in Heterogeneous Wireless Environment” by Sayed Mousa in 2013.
9. Examiner for MSc thesis entitled “Eliminating Scanning Delay Using Advanced Neighbors Discovery with Caching” by Ghaith A. Abdulwahed from Universiti Malaya in 2012.
10. Examiner for MSc thesis entitled “Reducing Layer Two Handoff Latency in WLANs Using Advanced Context Distribution” by Laeth A. Abdulwahid from Universiti Malaya in 2012.
11. Examiner for MSc thesis entitled “Location Aware System Using Bluetooth Technology” by Ganes Raj Muthu Arumugam from Universiti Malaya in 2012.

### **PhD INTERNAL EXAMINER**

1. Examiner for PhD thesis entitled “DNA-based ” by Ali Ordi in 2015
2. Examiner for PhD thesis entitled “Balancing Network Lifetime and Data Delivery Performance using Mobile Sink in Wireless Sensor Networks” by Abdul Waheed Khan in 2015

3. Examiner for PhD thesis entitled "Local Knowledge Message Size and Queue Based Drop Control Buffer Management Policies For Delay Tolerant Network" by Sulma Rashid in 2015.
4. Examiner for PhD thesis entitled "Adaptive Hilbert Mobility for Rendezvous-based Scale Wireless Sensor Networks" by Maznah Binti Kamat in 2013.
5. Examiner for PhD thesis entitled "Self Adaptive Resource Aware Routing Protocol for Dealy Tolerant Network" by Sheikh Muhammad Qaisar Ayyub in 2013.
6. Examiner for PhD thesis entitled "Message Drop Control Buffer Management Drop Policies For Delay Tolerant Network" by Sulma Rashid in 2013.
7. Examiner for PhD thesis entitled "Cloud Computing Based Body Area Network Framework to Support QoS in Medical Applications" by Chong Yuh Chweh in 2013.
8. Examiner for PhD thesis entitled "New Traffic Control System for Event Tracking in Wireless Sensor Environment" by Ahmad Mohammad Saleh Khasawneh in 2013.

### **MSc INTERNAL EXAMINER**

1. Examiner for MSc thesis entitled "Efficient Anomaly Detection In Wireless Sensor Network for Ganodermaa Detection in Palm Oil Plantation" by Nurfazrina Binti Mohd Zamry in 2013.
2. Examiner for MSc thesis entitled "Energy Efficient Relay Node Placement in Smart Grid Using Genetic Algorithm" by Mahmud Safaei in 2013.
3. Examiner for MSc thesis entitled "Towards a Volunteer Cloud: Virtualization Mechanism for Volunteer Computing" by Mohammadfazel Anjomshoa in 2013.
4. Examiner for MSc thesis entitled "An Improved Scheduling Technique for Ask Distribution in Grid Environment" by Muhammad Azhar Stapa in 2012.
5. Examiner for MSc thesis entitled "Studying the Performance of Transport Control Protocol During Handoff on Mobile Internet Protocol" by Mustafa Ali Albareki in 2012.
6. Examiner for MSc thesis entitled "Reducing Real-time Traffic Packet Loss in MIPv6 Using Two Tier Buffer Data" by Salim M. Zaki in 2011.
7. Examiner for MSc thesis entitled "English Malay Translation Using Example Based Approach" by Emrul Hamide Md Saim in 2011.
8. Examiner for MSc thesis entitled "IDS using Neural Network" by Mohd Nizam Bin Khalid in 2010
9. Examiner for MSc thesis entitled "Makan On-Line: Cyber Menu" by Nooriezah Ismail in 2009
10. Examiner for MSc thesis entitled "Halal Info Hub: KHALIFAH" by Nor Liana Mohd Noor, in 2009
11. Examiner for MSc thesis entitled "The Development of Medical Data Representation for Grid Like Environment" by Ibrahim Salim Najem in 2008

## PUBLICATIONS

**H INDEX : 5.0**

### **WEB OF SCIENCE JOURNAL:**

1. Qaisar Ayub, Md.Asri Ngadi, Sulma Rashid, Ismail Ahmedy, Johan Mohamad Sharif, M Soperi Mohd Zahid, Priority Queue Based Proactive And Reactive Buffer Management Policy For DTN Under Resource Scarce Environment, **submitted** to Cluster Computing, Springer
2. Qaisar Ayub, Md.Asri Ngadi, Sulma Rashid, Ismail Ahmedy, Johan Mohamad Sharif, M Soperi Mohd Zahid, Social Connectivity and Replication Based Locking Routing Protocol for Delay Tolerant Network, **submitted** to Pervasive and Mobile Computing, Elsevier
3. Mudassar Ahmad, Md Asri bin Ngadi, TCP CUBIC\*: A New Congestion Control Mechanism for Long Distance High Bandwidth Networks, Journal of Network and Computer Applications, ISSN: 1084-8045, IF: 1.772 (Q1) **Under Review**
4. Almazroi, A. A., and Ngadi, MA. Packet Priority Scheduling and Data Forwarding Decision Based on Node Disjoint Multipath Routing for Wireless Sensor Network. Wireless Personal Communications, IF:0.653. **Under review**.
5. Saqib Ali, Md Asri Ngadi, Optimized Interference Aware Non-overlapping Channel Assignment Model for Wireless Mesh Network, International Journal of Mathematical Problems in Engineering, Hindawi Publishing Corporation, IF: 0.762. **Under Review**
6. Saqib Ali, Md Asri Ngadi, 2016. Optimized Interference Aware Joint Channel Assignment Model for Wireless Mesh Network, Telecommunication Systems, 62(1), pp 215-230. May 2016. ISSN: 1018-4864, Springer, DOI: 10.1007/s11235-015-0076-8. IF 0.705 Q3.
7. Ayatollahitafti V, Ngadi MA, Mohamad Sharif Jb, Abdullahi M (2016) An Efficient Next Hop Selection Algorithm for Multi-Hop Body Area Networks. PLoS ONE 11(1): e0146464. doi: 10.1371/journal.pone.0146464. ISSN: 1932-6203. Public Library of Science. IF: 3.234.
8. Mohammed Abdullahi, Md Asri Ngadi, Shafi'i Muhammad Abdulhamid, 2016. Symbiotic Organism Search optimization based task scheduling in cloud computing environment, Future Generation Computer Systems, Vol 56, pp 640-650, Elsevier, ISSN: 0167-739X, doi:10.1016/j.future.2015.08.006. IF: 2.786.
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