

PERSONAL INFORMATION



Name: *Ts. Dr. Nashrul Fazli Bin Mohd Nasir*

MIEM, MIET, MIEEE, MYSET

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First appointment at UNIMAP: 18th April 2005

Appointment to current Grade: 13th January 2013

Scopus Author ID: 36625951700

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Expertise: Biomaterials, Biomedical Engineering, BioMEMS, Biosensor, Microfabrication.

1. ACADEMIC QUALIFICATIONS

- 2010-2012** Doctor of Philosophy (Ph.D.) in Electrical and Computer Engineering, School of Electrical and Computer Engineering, RMIT University, Australia
Thesis title: *“Characterization of 3C-silicon carbide for advance applications”*
- 2002-2003** Master of Science (M.Sc.) in Biomedical Engineering, Keele University, United Kingdom.
Dissertation title: *“Improvement of Glucose Biosensor’s Performance”*
- 1997-2002** Bachelor of Biomedical Engineering. (Hons), Second class upper (2:1), Faculty of Engineering, University of Malaya, Malaysia .

2. PROFESSIONAL MEMBERSHIP

1. **Professional Technologist, Ts, (PT18020176)(MBOT)**
2. **Graduate Technologist, (GT18020546)(MBOT)**
3. Member of the Institution of Engineering and Technology, (MIET; 1100384977)
4. Graduate Member of Institute of Engineer Malaysia since 2007 (MIEM; 27595)
5. Member of the Institute of Electrical and Electronics Engineer (MIEEE; 93280863)
6. Life member of Malaysian Society for Engineering and Technology (MySET:0088)

3. ADMINISTRATIVE POSTS

1. Deputy Dean of Student’s Affair and Alumni, School of Mechatronic Engineering, Universiti Malaysia Perlis (**15th September 2013 – 28th February 2019**)
2. Chairperson for Biomedical Electronic Engineering Programme (**Apr 2006 –May 2008**)

4. PUBLICATIONS

No. of Papers, H-Index, Field-Weighted Citation Impact and Citations **Based on Scopus**

	No. of papers	H-index	No. of citations
Scopus indexed	49	6	132

*Updated 20th June 2019*No. of Papers, H-Index, Field-Weighted Citation Impact and Citations **Based on Google Scholar**

	No. of papers	H-index	No. of citations
Publications	79	10	415

Updated 20th June 2019

ISI Journal Papers and Cumulative Impact Factor (CIF)

Q1	Q2	Q3	Q4	Total	Cumulative Impact Factor (CIF)
0	1	1	1	3	5.925

*Updated 20th June 2019***Book Chapters**

1. E. A. Alyan, Ibrahim Balkhis, Zulkarnay Zakaria, **N. F. Mohd Nasir**, Ruzairi Abdul Rahim: Phase Shift Measurement Technique: A Review. Progress in Process Tomography & Instrumentation – Series 17., 01/2014: pages 41- 51; Pusat Pengurusan Penyelidikan, Universiti Teknologi Malaysia., ISBN: 978-967-354-199-7
2. A.A.A. Basaif, **N. F. Mohd Nasir**, Zulkarnay Zakaria, Ibrahim Balkhis, Ruzairi Abdul Rahim: Simulation of single channel biological tissue spectroscopy using COMSOL multiphysics. Progress in Process Tomography & Instrumentation – Series 17., 01/2014: pages 123- 139; Pusat Pengurusan Penyelidikan, Universiti Teknologi Malaysia., ISBN: 978-967-354-199-7
3. Muhamad Khairul Bin Ali Hassan, M. Y. Mashor, **N. F. Mohd Nasir**, S. Mohamed: Measuring Blood Pressure Using a Photoplethysmography Approach. 4th Kuala Lumpur International Conference on Biomedical Engineering 2008, 01/2008: pages 591-594; , DOI:10.1007/978-3-540-69139-6_148
4. Robiyanti Adollah, M. Y. Mashor, **N. F. Mohd Nasir**, H. Rosline, H. Mahsin, H. Adilah: Blood Cell Image Segmentation: A Review. 4th Kuala Lumpur International Conference on Biomedical Engineering 2008, 01/2008: pages 141-144; , DOI:10.1007/978-3-540-69139-6_39
5. Nahrizul Adib Kadri, A. R. Ahamad, E. N. Abdul-Latip, C. A. Azlan, M. G. Raha, **N. F. Mohd-Nasir**: Temperature Modeling of Therapeutic Ultrasound: A Preliminary Finding. 3rd Kuala Lumpur International Conference on Biomedical Engineering 2006, 01/2007: pages 594-597; , DOI:10.1007/978-3-540-68017-8_149
6. Muhajir Ab. Rahim, M. O. Tokhi, **N. F. Mohd. Nasir**: Modeling and Simulation of Sit-to-Stand Exercise. 3rd Kuala Lumpur International Conference on Biomedical Engineering 2006, 01/2007: pages 204-207; , DOI:10.1007/978-3-540-68017-8_53
7. **Nashrul Fazli Mohd Nasir**, N. A. Kadri, M. G. Raha, C. A. Azlan: Development of Web-Based Medical History Compiler. World Congress on Medical Physics and Biomedical Engineering 2006, 01/2007: pages 343-346; , DOI:10.1007/978-3-540-36841-0_94
8. Ahmad Azlan Che, K. H. Ng, **N. F. Mohd. Nasir**, N. A. Kadri: Development of an ambient lighting monitoring system for radiological image viewing application. World Congress on Medical Physics and Biomedical Engineering 2006, 01/2007: pages 1467-1469; , DOI:10.1007/978-3-540-36841-0_360
9. Azlan Che Azlan, **N. F. Mohd. Nasir**, N. A. Kadri, A. A. Saifizul, K. H. Ng, B. J. J. Abdullah: A quantitative study of post-biopsy radiofrequency cauterization. 3rd Kuala Lumpur International Conference on Biomedical Engineering 2006, 01/2007: pages 232-235; , DOI:10.1007/978-3-540-68017-8_61

ISI Ranked Journal publications (CIF: 5.925)

1. E. M. Cheng, Z. Abbas, M. Abdulmalek, K. Y. You, K. Y. Lee, **N. F. Mohd Nasir**, M. S. Abdul Majid, S. F. Khor, " Effect of Aspect Ratio and Frequency of an Open-Ended, Coaxial Line on Admittance for Determination of Moisture in Tenera Oil Palm Fruit Using Finite Difference Method", ACES Journal 2018, 33(11):1308-1318 (**Q4,IF:0.59**)
2. Revati R., **M.S. Abdul Majid**, Ridzuan M.J.M, Normahira M., N.F. Mohd Nasir, M.N. Rahman Y., A.G. Gibson, Mechanical, thermal and morphological characterization of 3D porous Pennisetum purpureum/PLA biocomposites scaffold, Materials Science and Engineering: C, 75 (2017) 752–759 (**Q2, IF: 4.164**)
3. C A Azlan, **N. F. Mohd Nasir**, A A Saifizul, M S Faizul, K H Ng, B J J Abdullah: A low cost solution for post-biopsy complications using available RFA generator and coaxial core biopsy needle. Australasian physical & engineering sciences in medicine / supported by the Australasian College of Physical Scientists in Medicine and the Australasian Association of Physical Sciences in Medicine 01/2008; 30(4):288-91., DOI:10.1007/BF03178439(**Q2, IF: 1.171**)

SCOPUS Indexed publications

1. N. A. F. Mohd Hori , **N. F. Mohd Nasir** , N. A. Mohd Amin , E. M. Cheng , M. S. A. Majid and S. A. Rahman, "The mechanical characterization of Dioscorea Alata and Plectranthus Rotundifolius Starch-HA Composite," *International Journal of Nanoelectronics and Materials* , 11 (Special Issue), Nov 2018, 17-22.
2. **N.F. Mohd Nasir**, A. Sucinda, E.M Cheng, M.S. Abdul Majid, N.A.M. Amin, Robbi Rahim, M. Jusoh & M.F. Abdul Khalid, "The Study of Brown Rice Starch Effect On Hydroxyapatite Composites," *International Journal of Engineering & Technology (IJET)*, 7 (2.5), 69-72, 2018.
3. N.S.M. Hussin, N.A.M. Amin, M.J.A. Safar, M.S.A. Majid, **N.F.M. Nasir**, "Smart Hydroponic System with Hybrid Power Source." *Journal of Telecommunication, Electronic and Computer Engineering (JTEC)* 10.1-14: 35-39, 2018.
4. R.S. Zulkafli, A.S. Bawazir, N.A.M. Amin, M.S.M. Hashim, M.S.A. Majid, **N.F.M. Nasir**, "Dual Axis Solar Tracking System in Perlis, Malaysia." *Journal of Telecommunication, Electronic and Computer Engineering (JTEC)* 10.1-14: 91-94, 2018.
5. SF Khor, EM Cheng, AB Shahrman, **NF Mohd Nasir**, HA Rahim, S Abdul Majid, Z Zakaria, KS Basaruddin," Microwave Dielectric and Reflection Characterization on Silver Grunter (Pomadasy hasta) and Tilapia (Oreochromis niloticus) Fish Scale for Potential Use as Scaffold," *Journal of Telecommunication, Electronic and Computer Engineering (JTEC)*, vol. 10,no. 1-17, p.79, 2018.
6. EM Cheng, **NF Mohd Nasir**, AB Shahrman, SA Baharuddin, MS Abdul Majid, PW Leech, P Tanner, AS Holland," Electromagnetic Interference (EMI) Analysis on Surface Roughness of 3C-Silicon Carbide (3C-SiC) Deposited on Silicon (Si) Substrate," *Journal of Telecommunication, Electronic and Computer Engineering (JTEC)*, vol. 10,no. 1-17, p.73, 2018.
7. EM Cheng, CK Lam, Hasliza A Rahim, **NF Mohd Nasir**, MS Abdul Majid, SF Khor, KY You, YS Lee," Effect of Moisture Content in Beef on Reflection and Dielectric Measurement using Coaxial Reflection Probes," *Journal of Telecommunication, Electronic and Computer Engineering (JTEC)*, vol. 10,no. 1-14, p.101, 2018.
8. EM Cheng, AB Shahrman, HA Rahim, MF Abdul Malek, **NF Mohd Nasir**, N Abdulaziz, MS Abdul Majid, KS Basaruddin," Microwave Reflection Based Dielectric Spectroscopy for Moisture Content in Melele Mango Fruit (Mangifera Indica L.)" *Journal of Telecommunication, Electronic and Computer Engineering (JTEC)*, vol. 10,no. 1-14, p.1, 2018.
9. Hussin, N. S. M., S. A. Gamil, N. A. M. Amin, M. J. A. Safar, M. S. A. Majid, M. N. F. M. Kazim, and **N. F. M. Nasir**. "Design and analysis of hydraulic ram water pumping system." In *Journal of Physics: Conference Series*, vol. 908, no. 1, p. 012052. IOP Publishing, 2017.
10. Revati, R., MS Abdul Majid, M. J. M. Ridzuan, M. Normahira, **NF Mohd Nasir**, and E. M. Cheng. "Biodegradation of PLA-Pennisetum purpureum based biocomposite scaffold." In *Journal of Physics: Conference Series*, vol. 908, no. 1, p. 012029. IOP Publishing, 2017.
11. Baharuddin, S. A., E. M. Cheng, K. Y. Lee, S. K. Zaaba, K. N. Syahirah, Z. Abbas, **NF Mohd Nasir**, M. Afendi, and Z. Zakaria. "Development of five port reflectometer for reflection based sensing system." In *AIP Conference Proceedings*, vol. 1808, no. 1, p. 020011. AIP Publishing, 2017.
12. Abdullah, Zulaika, S. K. Zaaba, **NF Mohd Nasir**, M. T. Mustafa, Mayvinne Arcena, and A. Zakaria. "Study on the effect of atmospheric plasma processing using gas mixture on 3C-SiC." In *AIP Conference Proceedings*, vol. 1824, no. 1, p. 030030. AIP Publishing, 2017.
13. Hori, NAF Mohd, **NF Mohd Nasir**, NA Mohd Amin, E. M. Cheng, and S. N. Sohaimi. "The fabrication and characterization of Hydroxyapatite-Ubi gadong starch based tissue engineering scaffolds." In *Biomedical Engineering and Sciences (IECBES), 2016 IEEE EMBS Conference on*, pp. 220-225. IEEE, 2016.
14. Harun, H., **NF Mohd Nasir**, and A. F. Salleh. "The study of EMG signals during sitting postures in Muslim prayer." In *Biomedical Engineering and Sciences (IECBES), 2016 IEEE EMBS Conference on*, pp. 722-726. IEEE, 2016.
15. Revati, R., MS Abdul Majid, M. Normahira, **NF Mohd Nasir**, M. J. M. Ridzuan, and Y. M. N. Rahman. "The characterization of polylactic acid-Napier fibres as scaffolds for tissue engineering." In *Biomedical Engineering and Sciences (IECBES), 2016 IEEE EMBS Conference on*, pp. 545-550. IEEE, 2016.
16. T. A. Khoo, M. Normahira, R. Revati, M. S. Abdul Majid, **N. F. Mohd Nasir**: A Finite Element Analysis Of Elbow Joint In Daily Activities. *Journal of Engineering and Applied Sciences* 04/2016; 11(8):5139.
17. K. R. Razali, **N. F. Mohd Nasir**, E. M Cheng, M. K. Tan, A. Zakaria, M. Normahira: Preliminary Analysis Of Nha Based Tissue Engineering Scaffold Dielectric Characteristics. *Journal of Engineering and Applied Sciences*,04/2016; 11(8):4987.
18. M Riza Roslan, **N F Mohd Nasir**, E M Cheng, N Mamat: The Characterization of nanoHA-Balik Wangi Rice Starch Tissue Engineering Scaffold. *International Journal of Mechanical & Mechatronics Engineering* 03/2016; 16(01).
19. Roslan, M. Riza, **NF Mohd Nasir**, E. M. Cheng, and N. Mamat. "Preliminary characterization of nanoHA-Bubuk Wangi rice starch tissue scaffold." In *Electrical, Electronics, and Optimization Techniques (ICEEOT), International Conference on*, pp. 1560-1564. IEEE, 2016.
20. Roslan, M. Riza, **NF Mohd Nasir**, E. M. Cheng, and N. A. M. Amin. "Tissue engineering scaffold based on starch: A review." In *Electrical, Electronics, and Optimization Techniques (ICEEOT), International Conference on*, pp. 1857-1860. IEEE, 2016.
21. E.M. Cheng, M.F. Abdul Malek, S.F. Khor, K.Y. You, K.Y. Lee, M.A. Rojan, S. Abu Bakar, **N.F. Mohd Nasir**, Z. Zakaria, W.H. Tan: Reflection and dielectric measurement for salinity of water using microstrip loop antenna and dielectric probe, *International Journal of Geomate*, 11;24,pp. 2335.
22. Azmi Abou Basaif, **Nashrul Fazli Mohd Nasir**, Zulkarnay Zakaria, Ibrahim Balkhis, Shazwani Sarkawi, Jurimah Abd Jalil: Simulation of single channel biological tissue spectroscopy using COMSOL multiphysics. *Jurnal Teknologi*,12/2015; 77(28), DOI:10.11113/jt.v77.6796
23. **N F Mohd Nasir**, Y Wahab, M Mazalan, K A Hassan, P W Leech, G K Reeves, P Tanner, A S Holland: Laser Micromachining of Circular Transmission Line Model (CTLM) of Al Contacts on n-type SiC/Si Chips. *RSM2015, Kuala Terengganu, Malaysia*; 08/2015, DOI:10.1109/RSM.2015.7355003
24. S Aishah, E M Cheng, K Y Lee, W C Tan, M Afendi, **N F Mohd Nasir**, W H Tan, K N Syahirah, K Y You, S F Khor, M Fareq:

- Study on Moisture Content in Animal Fats Using Six-Port Reflectometer (SPR). 2nd ICOBE 2015, Penang, Malaysia; 03/2015, DOI:10.13140/RG.2.1.3745.7047
25. M F Che Mansor, E M Cheng, M F Abd, Malek, H G Beh, A Chik, S F Khor, M A Rojan, **N F Mohd Nasir**, S A Ong, S Abu Bakar: Study on 10 GHz electromagnetic wave absorption of cullet doped with iron (II, III) oxide. 2nd ICOBE 2015, Penang, Malaysia; 03/2015, DOI:10.1109/ICoBE.2015.7235922
 26. M. Normahira, C. Reenu, **N.F. Mohd Nasir**, A.Z. Ahmad Firdaus: Development and characterization of PVA based hydrogel for cartilage tissue scaffold. 2015 2nd International Conference on Biomedical Engineering (ICoBE); 03/2015, DOI:10.1109/ICoBE.2015.7235929
 27. S. Aishah, M. Fareq, E. M. Cheng, K. Y. Lee, W. C. Tan, M. Afendi, A. B. Shahrman, **N.F. Mohd Nasir**, W. H. Tan, K. N. Syahirah, K. Y. You, S. F. Khor: Study on moisture content in animal fats using Six-Port Reflectometer (SPR). 2015 2nd International Conference on Biomedical Engineering (ICoBE); 03/2015, DOI:10.1109/ICoBE.2015.7235920
 28. M F Che Mansor, E M Cheng, Z Zakaria, M F Abdul Malek, A Chik, M A Rojan, L Zahid, S Abu Bakar, **N F Mohd Nasir**, S F Khor, H G Beh: Microwave Absorption Analysis on Recycled Glass Doped with Ferum (II, III) Oxide (Fe₂O₃). International Journal of Mechanical & Mechatronics Engineering 10/2015; 15(1):1-13.
 29. E M Cheng, M Fareq, Mohd Afendi, S F Khor, **N.F. Mohd Nasir**, W H Tan, N S M Noorpi, N M Mukhtar, M Othman: Development of Low Cost Microwave Detection System for Salinity and Sugar Detection. International Journal of Mechanical & Mechatronics Engineering 11/2014; 14(5).
 30. E M Cheng, M Fareq, Mohd Afendi, Y S Lee, S F Khor, W H Tan **N.F. Mohd Nasir**, A Z Abdullah, M A Jusoh: Development of Microstrip Patch Antenna Sensing System for Salinity and Sugar Detection in Water. International Journal of Mechanical & Mechatronics Engineering 11/2014; 14(5).
 31. Mohd Nor Fakhzan Mohd Kazim, Selvanayakan Raman, Muhammad Hafiz Shafie, **N.F. Mohd Nasir**, Asan Gani Abdul Muthalif: A Complete System Modelling of Piezoelectric Energy Harvester (PEH) with Silicon Carbide (SiC) Used as Cantilever Base. Jurnal Teknologi 05/2014; 69(8):2180-3722., DOI:10.1113/jt.v69.3295
 32. **N.F. Mohd Nasir**, K.R. Razali, E.M. Cheng, N. Mamat, M. Mazalan, Y. Wahab, M.R. Mohd Roslan: The Effect of Gelatin and Hydroxyapatite Ratios on the Scaffolds' Porosity and Mechanical Properties. 2014 IEEE CONFERENCE ON BIOMEDICAL ENGINEERING AND SCIENCES, Miri, Sarawak; 12/2014, DOI:10.1109/IECBES.2014.7047497
 33. **N.F. Mohd Nasir**, E. Gan, R. Shukla, T.Istivan, E. Pirogova, P. Tanner, A.S. Holland: The Effect of Micromachining Process to the Biocompatibility of 3C-SiC Membranes. 2014 IEEE Conference on Biomedical Engineering and Sciences, Miri, Sarawak, Malaysia; 12/2014, DOI:10.1109/IECBES.2014.7047521
 34. **N F Mohd Nasir**, P W Leech, A S Holland, G K Reeves, P Tanner: Properties of Al and Pd Contacts on n-type SiC Membranes. 2012 MRS Spring Meeting; 04/2012, DOI:10.1557/opl.2012.1145
 35. **N F Mohd Nasir**, C M Shah, P W Leech, G K Reeves, E Pirogova, T Istivan, P Tanner, A S Holland: Fabrication of 3C-Silicon Carbide Membranes: Towards Development of Novel Microdevices for Biomedical Applications. 2012 International Conference on Biomedical Engineering (ICoBE), Penang; 02/2012, DOI:10.1109/ICoBE.2012.6178985
 36. **N F Mohd Nasir**, A S Holland, G K Reeves, P W Leech, A Collins, P Tanner: Specific contact resistance of ohmic contacts to n-type SiC membranes. 2011 MRS Spring Meeting; 04/2011, DOI:10.1557/opl.2011.1202
 37. N. R. Mokhtar, Nor Hazlyna Harun, M. Y. Mashor, Roseline H, Mustafa Nazahah, Adollah R, Adilah H, **N.F. Mohd Nasir**: Image Enhancement Techniques Using Local, Global, Bright, Dark and Partial Contrast Stretching For Acute Leukemia Images. 07/2009; 2176(1).
 38. Megat Syahirul Amin Megat Ali, A. H. Jahidin, **N.F. Mohd Nasir**, A. Saidatul, Z. Zakaria, A. F. Salleh, N. Mustafa: Malaysia and Telecare — A Preliminary Study. DOI:10.1007/978-3-540-69139-6_213
 39. R. Adollah, M.Y. Mashor, **N.F. Mohd Nasir**, H. Rosline, H. Mahsin, H. Adilah: Blood cell image segmentation: A review.
 40. M.A.A. Halim, M.R.M. Juhari, N.A. Rahim, **N.F. Mohd Nasir**: Respiratory system modelling by using numerical integration technique via nonlinear differential equation models.
 41. Muhamad Khairul Bin Ali Hassan, M. Y. Mashor, **N.F. Mohd Nasir**, S. Mohamed: Measuring of Systolic Blood Pressure Based On Heart Rate. DOI:10.1007/978-3-540-69139-6_149
 42. Aisyah Hartini Jahidin, **N. F. Mohd Nasir**, M. S. A. Megat Ali, A. F. Mohd Salleh, N. Mustafa, A. Saidatul, Z. Zakaria: Syllabus Enhancement for Electromagnetic Course in Biomedical Electronics Engineering at Universiti Malaysia Perlis. DOI:10.1007/978-3-540-69139-6_20

Non-indexed Journal publications

1. **N. F. Mohd Nasir**, S. F. Khan, J. S. Baling, M. R. Roslan, E. M Cheng, N. A. Mohd Amin, M. N. Abdullah, "Preliminary Study of Trong Clay – HA Bone Scaffold Fabrication Using Solvent Casting/Particulate Leaching Method and Indirect 3D-Printing Technique." Journal of Engineering Research and Education (JERE), 10:1 (2018)
2. N.A.F. Mohd Hori, **NF Mohd Nasir**, E.M. Cheng and N.A.M. Amin, "The Study of Glutinous Starch-Chitosan Blend As A Biomedical Material." International Research Journal of Engineering Sciences, 3:1(2017).
3. AS Baharuddin, E.M. Cheng, K.Y. Lee and **N.F. Mohd Nasir**, "Performance of 5 Port Reflectometer (FPR) For Reflection Measurement". International Research Journal of Engineering Sciences, 3:1(2017).
4. Harun, H., **NF Mohd Nasir**, and A. F. Salleh. "The Study of Lower Limb EMG Signals Between Male and Female Muslim during Pertaining to Sujud Postures in Solat." International Journal of Electrical & Electronic Systems Research, 9:1(2016).
5. **N.F. Mohd Nasir**, Siti Khadijah Zaaba, Norsaidah Md Zuki, M N F M Kazim, Mazlee Mazalan, Yufridin Wahab, Patrick W. Leech, Philip Tanner, Anthony S. Holland: Atmospheric Pressure Helium Plasma Treatment on 3C-SiC/Si Surface. Applied Mechanics and Materials 09/2014; 695:8-9., DOI:10.4028/www.scientific.net/AMM.695.118
6. Mamat Normahira, Razali Khairul Raimi, **N.F. Mohd Nasir**, Abd Razak Norazian, Hashim Adilah: Biomimetic Porosity of Gelatin-Hydroxyapatite Scaffold for Bone Tissue. Advanced Materials Research 06/2014; 970:3., DOI:10.4028/www.scientific.net/AMR.970.3
7. **N.F. Mohd Nasir**, Patrick W. Leech, Geoff K. Reeves, Brett Johnson, Philip Tanner, Anthony S. Holland: The Study of

- Morphological Structure and Raman Spectra of 3C-SiC Membranes. 03/2014; 554., DOI:10.4028/www.scientific.net/AMM.554.66
8. **N.F. Mohd Nasir**, M G Raha, N A Kadri, S I Sahidan, M Rampado, C A Azlan: The Study of Morphological Structure, Phase Structure and Molecular Structure of Collagen-PEO 600K Blends for Tissue Engineering Application 1. American Journal of Biochemistry and Biotechnology 04/2006; 2(4):175-179., DOI:10.3844/ajbbbsp.2006.175.179
 9. Yang Ying, **N.F. Mohd Nasir**: Prolonging Glucose Sensor's Performance in In Vivo Environment.
 10. **N.F. Mohd Nasir**, Zain N. Mohd, Raha M. G., Kadri N. A.: Characterization of Chitosan-poly (Ethylene Oxide) Blends as Haemodialysis Membrane. American Journal of Applied Sciences 12/2005; 2(12):1578-1583., DOI:10.3844/ajassp.2005.1578.1583
 11. Ramasamy, R. Ramasamy, M.R. Juhari, S. Yaacob, **N.F. Mohd Nasir**, Mamat, Sugisaka M: An Application of Finite Element Modelling to Pneumatic Artificial Muscle. American Journal of Applied Sciences 11/2005; 2(11), DOI:10.3844/ajassp.2005.1504.1508
 12. **N.F. Mohd Nasir**, N.Mohd Zain, M. G. Raha, N.A. Kadri: Characterization of Chitosan-poly (Ethylene Oxide) Blends as Haemodialysis Membrane. American Journal of Applied Sciences 01/2005;

International Conferences

Over 20 local and international conferences publications

Newspaper Articles

1. Ubi Jadi Bahan Kerangka Tisu Organik(Infiniti)-34, Kosmo!, 26 April 2017
2. Ubi Komponen Kejuruteraan Tisu (Varsiti)-V4, Berita Harian, 1 Jun 2017
3. Ubi Sumber Komponen Kejuruteraan Tisu (Mega Sains)-20, Utusan Malaysia, 3 Julai 2017
4. Isyarat EMG Kaji Pergerakan Solat (Varsiti)-V64, Berita Harian, 5 Oktober 2017
5. Kajian Gerakan Solat Melalui Isyarat Elektromyografi (Inovasi)- 34, Kosmo!, 1 Nov 2017
6. Kaji Kesahihah Gerakan Solat (Mega Sains)-17, Utusan Malaysia, 22 Januari 2018
7. Kerangka kejuruteraan tisu dari tanah liat Trong (U-Inovasi), KampusUOLS, 30 Julai 2018.
8. Pemarkahan Tugasan-Pensyarah Ini Dedah Rahsia Cara Dapat Markah Tinggi (KampusUOLS)- 2, Sinar Harian, 7 Ogos 2018.
9. Kerangka Tisu daripada Beras Eksorik (Inovasi)- 34, Kosmo!, 19 Sep 2018

5. RESEARCH GRANTS

	E-Science, RM	FRGS, RM	PRGS, RM	RAGS, others, RM	Total Amount, RM
Research grants	0	485,900	0	90,000	575,900 (*96, 500)

**Main researcher*

1. **Head- reseacher: Nashrul Fazli Bin Mohd Nasir**
Project title: The Correlations of the Materials and the Dielectric Properties to the Mechanical and Biocompatibility Characteristics of the nanoHA-Local Starches Based Tissue Engineering Scaffold.
Grant: Fundamental research grant Scheme (FRGS), - 9003-00487- **RM96, 500 (completed, 1st Nov 2014 – 28th February 2017)**
2. **Co- reseacher: Nashrul Fazli Bin Mohd Nasir**
Project title: Preparation and characterization of hydrogel PNIPAAm based scaffold with porous PCL and collagen for bone regeneration
Grant: Dana Pembudayaan Penyelidikan (RAGS) **RM60, 000 (Completed, 1st Dec 2014 – 30th Dec 2016)**
3. **Co- reseacher : Nashrul Fazli Bin Mohd Nasir**
Project title: Elucidating the crystallization behavior of porous PLA/Pennisetum Purpureum based tissue engineering scaffold
Grant: Fundamental research grant Scheme (FRGS), - 9013-00566- **RM61, 000 (Completed, 1st Nov 2015 – 31st Oct 2017)**
4. **Co- reseacher : Nashrul Fazli Bin Mohd Nasir**
Project title: Novel dielectrophoresis morphologies and colloidal behaviors for biomedical applications
Grant: Fundamental research grant Scheme (FRGS), **RM 125,300 (Completed, 2nd Nov 2015 – 31 Oct 2018)**
5. **Co- reseacher : Nashrul Fazli Bin Mohd Nasir**
Project title: Paper Based Cell Culture
Grant: Fundamental research grant scheme (FRGS) **RM124, 100 (Completed, 2nd Nov 2015 – 31st Oct 2017)**
6. **Co- reseacher : Nashrul Fazli Bin Mohd Nasir**
Project title: Non-destructive and Contactless Dielectric Properties Measurement of NanoHA-Local Starches Based Tissues Engineering Scaffold using Free Space Microwave Measurement System
Grant: Geran Bestari Perdana UiTM **RM25, 000 (on-going, 1st Jan 2018 – 31st Dec 2019)**

7. **Co-researcher : Nashrul Fazli Bin Mohd Nasir**
Project title: Study of cell manipulation towards establishing microfluidic platforms for Alzheimer's disease therapy
Grant: Fundamental research grant scheme (FRGS) **RM79, 000 (on-going, 1st Jan 2019 – 31st Dec 2021)**
8. **Co-researcher : Nashrul Fazli Bin Mohd Nasir**
Project title: Projek Pencuci Tayar Kerusi Roda Automatik Untuk Kegunaan Orang Kurang Upaya di Masjid
Grant: Geran Kerajaan-MAIPS **RM 5, 000 (on-going, 1st Jan 2019 – 30th June 2020)**

6. TEACHING/SUPERVISIONS

Teaching – undergraduate course

1. ENT 405/3 Biosensor and BioMEMS (Semester 2, 2018/19)
2. ENT 415/3 Bioinstrumentation II (Semester 1,2018/19)
3. ENT 405/3 Biosensor and BioMEMS (Semester 2,2017/18)
4. ENT 415/3 Bioinstrumentation II (Semester 1,2017/18)
5. ENT 405/3 Biosensor and BioMEMS (Semester 2,2016/17)
6. ENT 321/3 Safety, Acts and Standards in Biomedical Engineering(Semester 1,2016/17)
7. ENT 405/3 Biosensor and BioMEMS (Semester 2,2015/16)
8. EQT 101/3 Engineering Mathematics I (Semester 1,2015/16)
9. ENT 405/3 Biosensor and BioMEMS (Semester 2,2014/15)
10. ENT 413/3 Medical Imaging (Semester 1,2014/15)
11. ENT 419/4 Biosensor and BioMEMS (Semester 2,2013/14)
12. ENT 413/3 Medical Imaging (Semester 1, 2013/14)
13. ENT 318/3 Artificial Organs (Semester 2, 2012/13)
14. ENT 321/3 Safety, Acts and Standards in Biomedical Engineering (total of teaching time: 1 semesters)
15. EQT 101/3 Engineering Mathematics I (total of teaching time: 1 semester)
16. ENT 405/3 Biosensor and BioMEMS (total of teaching time: 4 semesters)
17. ENT 415/3 Bioinstrumentation II (total of teaching time: 2 semester)
18. ENT 419/4 Biosensor and BioMEMS (total of teaching time: 1 semester)
19. ENT 413/3 Medical Imaging (total of teaching time: 2 semesters)
20. ENT 318/3 Artificial Organs (total of teaching time: 1 semester)
21. ENT 416/4 Biomedical Design Project I and II (total of supervision time: 7 semesters)
22. ENT 444/6 Final Project (total of supervision time: 10 semesters)

	No. Ph.D. students	No. M.Sc. students	Total students	Completed
Postgrad supervision	3	7 (3*)	10 (4*)	5(3*)

**main supervisor*

-updated from GAMIS April 2018

Doctor of Philosophy (By Research/Dissertation)

1. Doctor of Philosophy (Computer Engineering) by Research 2018: (On-going): ABDUL JABBAR LUBIS (**MAIN SUPERVISOR**), "The algorithm technique of software engineering for low conductivity materials imaging in magnetic induction tomography application" School of Computer Engineering.
2. Doctor of Philosophy (Biomedical Engineering) by Research 2018: (On-going): MOHD RIZA BIN MOHD ROSLAN (**MAIN SUPERVISOR**), "Elucidating the Effect of Incorporating Malaysian Origin Seashells, Starch and Fibers to the Bone Tissue Scaffold Biocomposites" School of Mechatronic Engineering.
3. Doctor of Philosophy (Biomedical Engineering) by Research 2018: (On-going): REVATI A/P RADAKISNIN (**CO-SUPERVISOR**), "Biocompatibility and Bioactivity of Pennisetum Purpureum Reinforced Biodegradable Polylactic Acid (PLA) for Tissue Engineering" School of Mechatronic Engineering.

Master of Science/Engineering (By Research/Dissertation)

4. Master of Science (Biomedical Electronic Engineering) by Research 2014: (**COMPLETED**): MOHD RIZA BIN MOHD ROSLAN (**MAIN SUPERVISOR**), "Fabrication and Characterization of Hydroxyapatite-Gelatin Based for Bone Tissue Scaffold" School of Mechatronic Engineering.
5. Master of Science (Biomedical Electronic Engineering) by Research 2014: (**COMPLETED**): KHAIRUL RAIMI BINTI RAZALI (**MAIN SUPERVISOR**), "The Fabrication of Nano-Ha/Starch Based Scaffold and The Measurements of its Dielectric Properties" School of Mechatronic Engineering.
6. Master of Science (Biomedical Electronic Engineering) by Research 2015: (**COMPLETED**): (**CO-SUPERVISOR**): SHAZWANI BT SARKAWI, "Fetal Scalp pH Estimation using Magnetic Induction Technique" School of Mechatronic Engineering.

7. Master of Science (Biomedical Electronic Engineering) by Research 2015: **(COMPLETED): (MAIN SUPERVISOR):** HAZWANI BT HARUN, "The Investigation of EMG Signal for Lower Limb Movement during Solah" School of Mechatronic Engineering
8. Master of Science (Biomedical Electronic Engineering) by Research 2015: **(COMPLETED): JURIMAH BINTI ABDUL JALIL (CO-SUPERVISOR)**, "Non-Invasive Jaundice Level Measurement using Magnetic Induction Spectroscopy Technique" School of Mechatronic Engineering.
9. Master of Science (Biomedical Electronic Engineering) by Research 2014: (On-going): MASTURAH BINTI MOHAMED MOKHTAR **(MAIN SUPERVISOR)**, "The Study of Dielectric Property of Tissue Engineering Scaffold" School of Mechatronic Engineering.
10. Master of Science (Biomedical Electronic Engineering) by Research 2015: (On-going): NUR AERINA FITRI BINTI MOHD HORI **(MAIN SUPERVISOR)**, "Fabrication and Characterization of Hydroxyapatite - Malaysian Tuber's Starch Based for Tissue Scaffold" School of Mechatronic Engineering.

B. Engineering (Dissertation)

1. B.Eng. (Biomedical Electronic Engineering), Azmi Abdullah Awadh Basaif, "Simulation of single channel biological tissue spectroscopy using COMSOL multiphysics" 2013/14.
2. B.Eng. (Biomedical Electronic Engineering), Emad Ahmad Mubarak Alyan, "The Study of Non-Invasive Biological Tissue Spectroscopy using Single Channel Magnetic Induction Technique" 2013/14.
3. B.Eng. (Biomedical Electronic Engineering), Munirah Binti Jamil, "The Investigation of Placing The Hands During Solah" 2013/14.
4. B.Eng. (Biomedical Electronic Engineering), Siti Aishah Binti Baharuddin, "The Study of Dielectric and Natural Frequency Properties of β -Silicon Carbide (SiC)" 2013/14.
5. B.Eng. (Biomedical Electronic Engineering), Norsai'dah Binti Md Zuki, "The Study of Plasma Treatment on β -SiC" 2013/14.
6. B.Eng. (Biomedical Electronic Engineering), Nur Aerina Fitri Binti Mohd Hori, "The Study of Glutinous Rice Starch-Chitosan Blend as Biomedical Material" 2013/14.
7. B.Eng. (Biomedical Electronic Engineering), Noor Aishah Binti Harun, "The Study of Chitosan-Gelatin Blend As Biomedical Material" 2013/14.
8. B.Eng. (Biomedical Electronic Engineering), Mohd Shahrul Faiz Bin Abdul Nasir, "The Investigation of Sitting During Tashahhud" 2013/14.
9. B.Eng. (Biomedical Electronic Engineering), Nur Nabilah Hanis Binti Samsol Baharin, "The Study of Chitosan-Polycaprolactone Blend As Biomedical Material" 2013/14
10. B.Eng. (Biomedical Electronic Engineering), Khairul Azhar Bin Muhammad, "The Investigation of Going Down to Sajdah(Prostration) Movement in Solat" 2013/14.
11. B.Eng. (Biomedical Electronic Engineering), Mohd Nizam Bin Mazalan, "The Study of Gelatin-Poly(Vinyl Alcohol) Blend As Biomedical Material" 2013/14
12. B.Eng. (Biomedical Electronic Engineering), Tan Mei Kee, "Dielectric Characterization of nHA Based Tissue Engineering Scaffold" 2014/15
13. B.Eng. (Biomedical Electronic Engineering), Lee Phooi Yee, "Fabrication and Characterization of Hydroxyapatite (HA)-Gelatin-Polyvinyl Alcohol (PVA)" 2014/15.
14. B.Eng. (Biomedical Electronic Engineering), Khairul Akmal Bin Hassan, "The Study of Ohmic Contact Properties of β -Silicon Carbide" 2014/15.
15. B.Eng. (Biomedical Electronic Engineering), Nur Farhana Bin Mohd Noor, "The Study of EMG Signal of Sitting Between The Two Sajdah" 2014/15.
16. B.Eng. (Biomedical Electronic Engineering), Nurul Atiqah Binti Mohd Desa, "The Optimization of Laser Micromachining Parameters For β -Silicon Carbide Patterning" 2015/16.
17. B.Eng. (Biomedical Electronic Engineering), Siti Aisyah Binti Zakaria, "The Study Of Rice Starch Effect On Hydroxyapatite (Ha) Composites" 2015/16.
18. B.Eng. (Biomedical Electronic Engineering), Nor Shuhada Binti Mohamad, "The Dielectric Characterization Of Bario, Balik Wangi And Bubuk Wangi Starch-HA Composites" 2015/16.
19. B.Eng. (Biomedical Electronic Engineering), Siti Maryam Binti Mohamad, "The Mechanical Characterization Of Bario, Balik Wangi And Bubuk Wangi Starch-HA Composites" 2016/17.
20. B.Eng. (Biomedical Electronic Engineering), Salmie Binti Abd Rahman, "The Mechanical Characterization Of Ubi Gadong, Ubi Badak And Ubi Kemili Starch-HA Composites" 2016/17.
21. B.Eng. (Biomedical Electronic Engineering), Sucinda A/P Eh Fo, "The Study Of Brown Rice Starch Effect On Hydroxyapatite (Ha) Composites" 2016/17.
22. B.Eng. (Biomedical Electronic Engineering), Janice Sulian Anak Baling, "The Study Of Trong Clay – Hydroxyapatite Composite For Bone Scaffold Application" 2016/17
23. B.Eng. (Biomedical Electronic Engineering), Nurdiana Binti Ahmad, "Material Characterization Of Tissue Engineering Scaffold Based On Extracted And Non-Extracted Starch" 2016/17.
24. B.Eng. (Biomedical Electronic Engineering), Nurathirah Binti Jamal, "The Mechanical And Dielectric Characterization Of Tapioca Based Starch – Ha Composites" 2016/17.
25. B.Eng. (Biomedical Electronic Engineering), Marfifiani Binti Mohd, "Mechanical And Morphological Characterization Of Tissue Engineering Scaffold Fabricated From Pholas Orientalis (Mentarang)" 2017/18.
26. B.Eng. (Biomedical Electronic Engineering), Nabila Binti Mohd Salim, "Optimization Of Trong Clay Hydroxyapatite Composite For Bone Scaffold Application" 2017/18.
27. B.Eng. (Biomedical Electronic Engineering), Beh Bee Nar, "Sudan Contamination Detection Using Biosensor" 2017/18.
28. B.Eng. (Biomedical Electronic Engineering), Noor Yasmin Binti Othman, "Materials Characterization Of Tissue Engineering Scaffolds Based On Local Starches" 2017/18.
29. B.Eng. (Biomedical Electronic Engineering), Abdul Wafiy Bin Mohamed Azmi, "Mechanical And Morphological

- Characterization Of Tissue Engineering Scaffold Fabricated From Corbiculacea (Etok)” 2017/18.
30. B.Eng. (Biomedical Electronic Engineering), Tok Sim Yee, “Characterization Of Hydroxyapatite Made From Local Seashells” 2017/18.

7. AWARDS

Academic

1. Anugerah Perkhidmatan Cemerlang (Excellent Awards) 2016
2. Awarded ‘Skim Latihan Akademik’ to pursue PhD in Biomedical Engineering at RMIT University, 2010

Research

1. **SRIT Special Award** at **International Innovation, Creativity Technology Exhibition (I2Create) 2019**, Hydroxyapatite Produced From “Pholas Orientalis” Mentarang.
2. **Gold** medal at **International Innovation, Creativity Technology Exhibition (I2Create) 2019**, Hydroxyapatite Produced From “Pholas Orientalis” Mentarang.
3. **Innovation Award, Product Innovation and Creativity Competition (PICC) 2016**, *Tissue Engineering Scaffold Based on Native Malaysian Starch*.
4. **Gold** medal at **Product Innovation and Creativity Competition (PICC) 2016**, *Tissue Engineering Scaffold Based on Native Malaysian Starch*.
5. **Silver** medal at **i-ENVEX 2016**, *Tissue Engineering Scaffold Based on Native Malaysian Starch*.
6. **Bronze** medal at Ekspo Rekacipta, UniMAP **2014**, *nanoHA-Starch Based Tissue Engineering Scaffold*.
7. **Bronze** medal at Ekspo Rekacipta, UniMAP **2014**, *Development of 5 Port Reflectometer (FPR) For Complex Reflection Coefficient*.
8. **Bronze** medal at Ekspo Rekacipta, UniMAP **2015**, *Tissue Scaffold Balik Wangi Rice Starch*.
9. **Bronze** medal at Ekspo Rekacipta, UniMAP **2015**, *nanoHA-Ubi Gadong Starch Based Tissue Scaffold*.
10. **Bronze** medal at Ekspo Rekacipta, UniMAP **2014**, *Development of Six Port Reflectometer (SPR) For Complex Reflection Coefficient*.

8. REVIEWERS (JOURNALS/CONFERENCE PROCEEDINGS)

JOURNALS

1. Regular Reviewer for Materials Science in Semiconductor Processing (MSSP), an ISI ranked journal; ISSN: 1369-8001. (**Q2, IF: 2.359**).
2. Regular Reviewer for Mehran University Research Journal of Engineering & Technology, recognized by the Higher Education Commission (HEC) of Pakistan under Category X; ISSN: 2413-7219.
3. Regular Reviewer for International Journal of Electrical & Electronic Systems Research (IEESR); a Faculty of Electrical Engineering, UiTM Journal.
4. Reviewer for Sindh University Research Journal recognized by the Higher Education Commission (HEC) of Pakistan; ISSN: 1813-1743
5. Reviewer for Quaid-e-Awam University of Engineering Science and Technology (QUEST) Research Journal, recognized by the Higher Education Commission (HEC) of Pakistan under Category Y; ISSN: 1605-8607
6. Reviewer for Facta Universitatis, Series: Electronics and Energetics, included in ESCI (Emerging Sources Citation Index) of Thomson
7. Reviewer for *International Journal of Allied Health Sciences (IJAHS)*; an International Islamic University Malaysia (IIUM) Journal.
8. Reviewer for *Journal Of Engineering Research And Education (JERE) special issue on “Biomedical Engineering And Its Application”*.
9. Reviewer for Journal of Physical Science (USM)
10. Reviewer for MethodsX (Elsevier).

CONFERENCE PROCEEDINGS

1. Reviewer for ICE-SEAM 2013
2. Reviewer for IPCEM 2014
3. Reviewer for ICOBE 2015
4. Reviewer for AR4MET 2015
5. Reviewer for MUCET 2015
6. Reviewer for SEE2015
7. Reviewer for ADMMET2015
8. Reviewer for APCETA 2015
9. Reviewer for ACCS 2015
10. Reviewer for AR4MET 2016
11. Reviewer for ICNME 2016
12. Reviewer for SEE2016
13. Reviewer for ICID2016
14. Reviewer for ICOBE2017
15. Reviewer for SEE2017
16. Reviewer for AR4MET 2017
17. Reviewer for SPIENG 2017

18. Reviewer for ICOBE2019
19. Reviewer for ICADME2019

9. SPEAKERS

1. Penceramah Jemputan Program Memperkasa Minda Sains dan Matematik Pelajar **SMK Khir Johari**, 2016.
2. Invited Speaker for Tissue Engineering Scaffold: Current Development Using Native Starch at Faculty of Allied Health Sciences, **Cyberjaya University College of Medical Sciences** 17th August 2016.
3. Invited Speaker for Tissue Engineering Scaffold: Current Development Using Native Starch at Pusat Pengajian Kejuruteraan Elektronik, **Fakulti Kejuruteraan Elektrik, UiTM** 18th August 2016.
4. Invited Speaker for Green Technology at **Faculty of Engineering and Technology, MMU**, Melaka 7th October 2016.
5. Invited Speaker for Application of Silicon Carbide and Potential Collaboration with Universiti Malaysia Perlis at **Queensland Micro and Nanotechnology Centre, Griffith University, Queensland, Australia**, 10th August 2017.
6. Invited Speaker, "Research Publication and S1&S2 Opportunity in UniMAP", **Aulia Politeknik LP31**, Medan, Indonesia. 1st November 2017.
7. Invited Speaker, "Research Publication and S1&S2 Opportunity in UniMAP", **Sekolah Tinggi Teknik Harapan**, Medan, Indonesia. 1st November 2017.
8. Invited Speaker, "Research Publication and S1&S2 Opportunity in UniMAP", **STMIK Kampus Triguna Dharma**, Medan, Indonesia. 1st November 2017.
9. Plenary Speaker for "Applications of local based starch for tissue engineering scaffold, **The 2nd Bioprocessing and Biomanufacturing Symposium (BBS 2017)**, 12th December 2017.
10. Invited Speaker, "Internet of Thing", **National Training Technical Institute (NTTI)**, Phnom Penh, Cambodia. 4th April 2018.
11. Fasilitator Sambilan, "Anatomy and Physiology-Introduction to Biomedical Engineering 2", **Edgenta Mediserve Sdn. Bhd.**, Juru, Pulau Pinang. 9th April 2018.
12. Program Guest, "Program Khidmat Masyarakat di Perkampungan Melayu di Kemboja.", Nine11, Bernama News Channel. 16th April 2018.
13. Fasilitator Sambilan, "Anatomy and Physiology-Introduction to Biomedical Engineering 2", **Edgenta Mediserve Sdn. Bhd.**, Juru, Pulau Pinang. 23rd July 2018.
14. Invited Speaker, "Biomaterials", **Modkha Marine Sdn. Bhd.**, Cyberjaya, Selangor, 21st December 2018.
15. Program Guest, "IR 4.0 Kejuruteraan Bioperubatan", Nine11, Bernama News Channel. 24th January 2019.
16. Keynote Speaker for "The Application of Malaysian Bioresources for Bone Tissue Scaffold, **AFOB Malaysia Chapter International Symposium 2019 (AFOBMCIS 2019)**, 20-23th October 2019.

10. EXAMINERS

1. Panel Penilai Program Student Assessment Center (SAC) bagi Program Biasiswa Jabatan Perkhidmatan Awam (JPA) 2015 (23th mac 2015)
2. Penilai kepada Dr. Amir Mahmood Soomro, Pensyarah Kanan Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan ke jawatan Professor Madya (1st Sept 2016)
3. Pre-Viva Examiner for MSc. Candidate; Noor Arifah Azwani Binti Abdul Yamin (School of Mechatronic Engineering).
4. **Internal Examiner for PhD. candidate**; Siti Kartini Enche Ab Rahim (School of Bioprocess Engineering, UniMAP).
5. **Internal Examiner for MSc. Candidate**; Gowry A/P Balasena (School of Mechatronic Engineering, UniMAP).
6. **External Examiner for MSc candidate**; Norazmira Md Noh from **Universiti Malaya (UM)**.
7. **External Examiner for MSc candidate**; Choy Yee Wa from **Universiti Kebangsaan Malaysia (UKM)**,
8. **External Examiner for MSc candidate**; Norfazrina bt Abdul Gaffur from **Universiti Islam Antarabangsa (UIA)**
9. Judge for the 1st International Malaysia-Indonesia-Thailand Symposium on Innovation and Creativity (iIMIT SIC 2017)
10. Judge for the 4th International Innovation, Design and Articulation (i-DeA 2018)
11. Judge for the International Engineering Invention & Innovation Exhibition (i-ENVEX 2018)
12. Jury for Pi (π) Memorization Competition Perlis 2018
13. **Internal Examiner for MSc candidate**; Nurul Azira Binti Azizan (School of Mechatronic Engineering, UniMAP).
14. **External Examiner for MSc candidate**; Muhammad Afiq Bin Dzulkifli from **Universiti Malaya (UM)**.
15. **External Examiner for MSc candidate**; Mahzaton Aqma Binti Abu Talip from **Universiti Institut Teknologi MARA (UiTM)**
16. Pre-Viva Examiner for MSc. Candidate; Zulaika BT Abdullah (School of Mechatronic Engineering).
17. Pre-Viva Examiner for MSc. Candidate; Wanna A/P Soh Bua Chai (School of Mechatronic Engineering).
18. Jury for Pi (π) Memorization Competition Perlis 2019

11. INTERNATIONAL/NATIONAL/UNIVERSITY/SCHOOL COMMITTEES

1. Engineering Technology Accreditation Council (ETAC) Panel Evaluator
2. Observer, Bachelor of Engineering Technology (Hons) in Mechatronics (Automotive) Programme Accreditation, Universiti Kuala Lumpur Kampus Cawangan Malaysian Spanish Institute (UniKL-MSI), 19th – 20th March 2018.
3. Felo Penyelidikan Microwave Research Institute (MRI), UiTM, 1st January 2018 to 31st December 2019.
4. Ahli Panel Penasihat IPTA bagi Program Sarjana Kejuruteraan (Bioperubatan), Fakulti Kejuruteraan Universiti Malaya. (2015)

5. Ahli Lembaga Pengajian Teknologi Kejuruteraan Bioperubatan (Instrumentasi), Fakulti Rekabentuk dan Teknologi Kejuruteraan (FRTK), Universiti Sultan Zainal Abidin (UniSZA) (2013)
6. Pemangku Dekan PPK Mekatronik (Interim semasa perantikan Prof. Dr. Abdul Hamid Adom sebagai TNC (P&I) dan PM Dr Abu Hassan Abdullah sebagai Dekan 2013)
7. Deputy General Chair 2, Joint Conference ICOMMS, ICADME and ICOBE 2015
8. Deputy General Chair 2, Joint Conference ICOMMS, ICADME and ICOBE 2017
9. Editorial Board Members-SM Journal of Polymer Science
10. Technical Committee 2015 3rd International Conference on Nano and Materials Engineering (ICNME 2015) Phuket, Thailand, April 2-3 2015.
11. Technical Committee 2015 International Conference on Science, Engineering & Environment (SEE) Osaka City, Japan, Nov. 16-18 2015.
12. Technical Committee 2016 4th International Conference on Nano and Materials Engineering (ICNME 2016) Bali, Indonesia, April 7-8 2016.
13. Technical Committee 2017 5th International Conference on Nano and Materials Engineering (ICNME 2017) Bali, Indonesia, April 7-8 2017.
14. Technical Committee 2016 International Conference on Science, Engineering & Environment (SEE) Osaka City, Japan, Nov. 21-23 2016.
15. Pengerusi Aktivistik Akademik ABATA 2016.
16. Pemeta Bidang Kejuruteraan Perubatan Dewan Bahasa dan Pustaka 2016.
17. Certified NLP Coach kPT
18. AJK Lembaga Pengurusan Surau UniMAP
19. AJK Pelaksana Pemilihan Majlis Perwakilan Pelajar (MPP) Sesi 2015/16
20. Ahli Jawatankuasa Induk Ihya' Ramadhan 2016
21. Ahli Pasukan Mencari Harta Karun UniMAP 2013
22. Pengerusi Kite Making Session Asia Summer Program (ASP) 2014
23. Penyelaras InoS1M 2012
24. Penyelaras InoS1M 2014
25. Penyelaras InoS1M 2015
26. Ahli Ganti Wakil Majikan Mesyuarat Jawatankuasa Keselamatan dan Kesihatan Universiti
27. Ahli Panel Audit Keselamatan, Kesediaan Makmal dan Fasilitas PPK Mekatronik
28. Ahli Lembaga Pemeriksa Pelupusan Aset Alih Kerajaan
29. Sekretariat Asia Summer Program 2017
30. Ahli Jawatankuasa Pembangunan Alumni Universiti Malaysia Perlis
31. Sekretariat Global Academic Summer Program 2018
32. Pengerusi Jawatankuasa Penyiasat (Dongle Perisian Opera 2D No. Item 2069 dan 2070)

12. TRAININGS/WORKSHOPS

1. Kursus Kejurulatihan Certified Neuro Linguistic Program (NLP) - Software For Brain (15 Februari hingga 20 Februari 2016)
2. "BEM Mandatory Course – Safety And Health At Works, Bilik Seminar Tun Mahathir, Seriab, 22-23 October 2013
3. Outcome Based Education (OBE)" Workshop, 14 April 2014.
4. Workshop on Re-alignment of PO-CO mapping and OBE implementation at UniMAP 10-11th Feb 2014
5. ETAC New Panel Evaluators Workshop, 7 February 2018.
6. ECONOMIC PARTNERSHIP PROGRAM (EPP) : LEP 2.0 Strategic Collaboration With JICA On Promoting Medical Devices Industry In Malaysia (J18-22195)

13. INDUSTRIAL COLLABORATIONS/CONSULTATIONS

1. Arsy Engineers Sdn. Bhd, 5-2, Jalan USJ 9/5M, Subang Business Centre, 47620 Subang Jaya, Selangor Darul Ehsan. – Planning, engineering, procurement and document preparation for technical specifications and drawing for **Electrical, Telecommunication & Low Voltage System for Specialist Hospital, Putrajaya**, 2017
2. Natural Intention Sdn. Bhd., **Perak Origin Clay as a Biomedical Material**. (2016-2019)
3. Oudh As Safaraz Sdn Bhd, **Wheat Straw and Biodegradable Materials** (2018-2020)

Bio-Statement

Dr. Nashrul Fazli Bin Mohd Nasir has more than 14 years of experience in teaching, research, and industries. He was one of the pioneering students of B.Eng in Biomedical Engineering from University of Malaya (UM) and he received the bachelor degree in 2002. Straight after this, he continued his M.Sc. in Biomedical Engineering from Keele University (Newcastle-under-Lyme, Staffordshire) in 2003. He joined Universiti Putra Malaysia (UPM) as a tutor in Biological and Agricultural Engineering Department and Mechanical Engineering Department for a year (2004-2005) and later, joined Universiti Malaysia Perlis in 2005 as one of the early academic staff of the Biomedical Electronic Engineering Program. Then, he was appointed as the first Program Chairperson of the Biomedical Electronic Engineering Program in UniMAP from 2006 to 2008. Later, he pursued his PhD in Electrical and Computer Engineering from Royal Melbourne Institute of Technology (RMIT) University, Melbourne Australia in less than 3 years (March 2010-January 2013). His doctorate study was on the characterization of 3C-Silicon Carbide, a novel semiconductor material which has a great potential in harsh environments and biomedical applications. . From September 2013 until February 2019, he had served as the Deputy Dean of Student's Affair and Alumni (School of Mechatronic Engineering). Currently, he is a Senior Lecturer at the School of Mechatronic Engineering from January 2013. His current interest is on the application of natural resources from Malaysian biodiversity to fabricate tissue

engineering scaffold and the study of Islamic Prayer especially through electromyography (EMG) signals. The research was recognized by the public when it had gained its publicity from the mainstream media (Utusan Malaysia, Berita Harian and Kosmo) recently, apart from academic publications in several indexed journals and conference proceedings. Other research interests of Dr. Nashrul include the material study of ^{3}C -Silicon Carbide which involves international collaboration with Griffith University and RMIT University, Australia. Apart from close association with his Alma matter (the RMIT University and Keele University), he is also working close with his academic colleagues from Mehran University of Engineering and Technology, Sindh, Pakistan and other academics from University of Malaya, Universiti Putra Malaysia (UPM), Universiti Teknologi Mara (UiTM), International Islamic University Malaysia (IIUM) and Multimedia Universiti Malaysia (MMU). His expertise in Biomedical Engineering is recognized by University of Malaya and Universiti of Sultan Zainal Abidin as he was appointed as the board member in those universities to advice and to set up the Biomedical Engineering based academic program. Apart from his academic and research contributions, Dr. Nashrul is also involved in several professional institution such as the member of Institution of Engineering and Technology (1100384977), Institute of Electrical and Electronics Engineer (93280863), Institute of Engineers Malaysia (G27595), a life member of Malaysian Society for Engineering and Technology (MySET) and Malaysian Society of Medical and Biological Engineers.