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SAIDIN



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Website • [people.utm.my/syafiqahsaidin](http://people.utm.my/syafiqahsaidin)

Research centre • IJN-UTM Cardiovascular Engineering Centre (IJN-UTM CEC)

Institute • Institute of Human Centered Engineering (iHumEn)

Research alliance • Health & Wellness (HWRA)

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## PROFESSIONAL PROFILE

A well-trained engineering researcher, holding the position of Associate Professor at Dept. of Biomedical Engineering & Health Sciences, UTM Johor Bahru and the director of IJN-UTM Cardiovascular Engineering Centre, UTM Johor Bahru. A certified Human Resources and Development Fund (HRDF) trainer with a certification in Good Clinical Practice (GCP). Has been exposed to education and engineering tasks such as research and development (R&D), journal publication, teaching, experimental design and documentation. Eligible in handling several high-cost machines/instruments such as X-ray photoelectron spectroscopy (XPS), field emission scanning electron microscopy (FESEM), atomic force microscopy (AFM) and Fourier transform infrared spectroscopy (FTIR). Experience in performing *in-vitro* cell studies on fibroblast, osteoblast and endothelial cells as well as *in-vitro* antibacterial studies on *Escherichia coli* and *Staphylococcus aureus*.

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## AREAS OF EXPERTISE

Biomaterials; Tissue engineering; Surface modification & characterization; Bioactive materials; Antibacterial

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## HIGHEST EDUCATION

Qualification • Doctorate degree  
Specialisation • Biomedical engineering  
Institute • Universiti Teknologi Malaysia  
Graduation year • 2013

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## SECOND HIGHEST EDUCATION

Qualification • Bachelor degree Specialisation •  
Biomedical engineering  
Institute • Universiti  
Teknologi Malaysia  
Graduation year • 2009

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## WORKING EXPERIENCES

Jan 2014 – current • Senior lecturer at School of Biomedical Engineering & Health Sciences, Universiti Teknologi Malaysia, Malaysia

May 2012 – Jan 2013 • Research trainee at Laboratoire de Biomateriaux et de Bioingénierie (LBB), Université Laval, Canada

May – Jul 2009 • Research assistant at Faculty of Electrical Engineering, Universiti Teknologi Malaysia, Malaysia

Apr – Jul 2008 • Trainee at Healthronics (M) Sdn. Bhd., Hospital Kulim, Kedah, Malaysia

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## PROFESSIONAL BODIES

Professional member of the Institute of Materials, Minerals and Mining • ID: 667549

Member of Graduate Engineer in Malaysia Board of Engineers • ID: 66960A

Member of American Chemical Society Malaysia chapter • ID: 30930570

Member of Asia-Pacific Society for Artificial Organs (APSAO)

Member of IEEE Engineering in Medicine & Biology Society (EMBS) • ID: 90891498

Malaysia Society of Medical and Biological Engineering • ID: 1091

Member of IMM Malaysia • ID: 6175

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## SKILLS

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| Software | Microsoft Office, Adobe Photoshop, Solidwork, Wordpress, Mimics, Abaqus, MARC Finite Element Analysis, XPS Multipak, WsxM topography and Minitab |
| Language | Malay (Native) and English (Fluent)                                                                                                              |

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## AWARDS & FELLOWSHIP

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|-------------|------------------------------------------------------------------------------------------------------------------------|
| 2025        | Top cited article 2023 • Journal of Biomedical Materials Research Part B: Applied Biomaterials                         |
| 2024        | Visiting Professor Scheme • Universitas Andalas, Indonesia                                                             |
| 2024        | Excellent Service Award (APC) • UTM Citra Karisma                                                                      |
| 2024        | Indexed Journal Publication Award • UTM Citra Karisma 2024                                                             |
| 2024        | Publication Award (Impact Journal) • iHumEn MKiNE 2024                                                                 |
| 2024        | Publication Award (Prospect Citation) • iHumEn MKiNE 2024                                                              |
| 2024        | Prestige Researcher Award • iHumEn MKiNE 2024                                                                          |
| 2024        | Silver medal • Malaysia Technology Expo 2024                                                                           |
| 2023        | Gold medal • 25 <sup>th</sup> Industrial Art and Technology Exhibition (INATEX 2023)                                   |
| 2023        | Prestige Researcher Award • iHumEn MKiNE 2023                                                                          |
| 2023        | Publication Award (Prospect Citation) • iHumEn MKiNE 2023                                                              |
| 2023        | Leadership Award • iHumEn MKiNE 2023                                                                                   |
| 2023        | Excellent Service Award • iHumEn MKiNE 2023                                                                            |
| 2022        | Gold medal • Innovate Research Invention & Application Exhibition 2022                                                 |
| 2022        | Indexed Journal Publication Award • UTM Citra Karisma 2022                                                             |
| 2022        | Prestige Researcher Award • iHumEn MKiNE 2022                                                                          |
| 2022        | Leadership Award • iHumEn MKiNE 2022                                                                                   |
| 2022        | Excellent Service Award • iHumEn MKiNE 2022                                                                            |
| 2022        | Gold medal • Innovate Research Invention & Application Exhibition 2022                                                 |
| 2022        | Top Excellent Service Award (APC) • School of Biomedical Engineering & Health Sciences, UTM                            |
| 2022        | Active Blended Learning Award SEBB3313 • UTM                                                                           |
| 2022        | Active Blended Learning Award MEBC1163 • UTM                                                                           |
| 2022        | Active Blended Learning Award MEBC1183 • UTM                                                                           |
| 2021        | Active Blended Learning Award UMBP0010 • UTM                                                                           |
| 2021        | Active Blended Learning Award MMBC1163 • UTM                                                                           |
| 2020        | Excellent Service Award (APC) • Faculty of Engineering, UTM                                                            |
| 2020        | Research Laboratory Award • Faculty of Engineering, UTM                                                                |
| 2020        | Active Blended Learning Award MMBC1163 • UTM                                                                           |
| 2019        | Silver medal • International Conference and Exposition on Inventions by Institutions of Higher Learning (PECIPTA) 2019 |
| 2019        | Indexed Journal Publication Award • Faculty of Engineering, UTM                                                        |
| 2019        | Prospect Citation Award • iHumEn MKiNE 2019                                                                            |
| 2019        | Indexed Journal Award • UTM Citra Karisma                                                                              |
| 2019        | Active Blended Learning Award SMBE3313 • UTM                                                                           |
| 2019        | Silver medal • SBEHS Innovation Day 2019                                                                               |
| 2018        | The 2 <sup>nd</sup> International Indonesia-Malaysia-Thailand Symposium on Innovation and Creativity (IMIT SIC 2018)   |
| 2018        | Bronze medal • 20 <sup>th</sup> Industrial Art, & Technology Exhibition (INATEX) 2018                                  |
| 2018        | Silver medal • FBME Innovation Day 2018                                                                                |
| 2018        | Active Blended Learning Award SMBU4812 • UTM                                                                           |
| 2018        | Active Blended Learning Award SEBB3313 • UTM                                                                           |
| 2017        | Bronze medal • 19 <sup>th</sup> Industrial Art, & Technology Exhibition (INATEX) 2017                                  |
| 2017        | Excellent Service Award (APC) • UTM Citra Karisma                                                                      |
| 2017        | Active Blended Learning Award SKEL3503 • UTM                                                                           |
| 2017        | Active Blended Learning Award SMBU4812 • UTM                                                                           |
| 2017        | Bronze medal • The Great Lab Grand Design Challenge (TGL) 2017                                                         |
| 2011 – 2012 | Canadian Government Scholarship, Canada                                                                                |
| 2009 – 2012 | National Science Fellowship (NSF), Malaysia                                                                            |
| 2009        | Dean's Award of Universiti Teknologi Malaysia                                                                          |
| 2005 – 2009 | MARA Excellent Student Scheme, Malaysia                                                                                |

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## SPORT ACHIEVEMENT

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|------|------------------------------------------------------------------------------|
| 2024 | Sport Team Award • UTM Citra Karisma 2024                                    |
| 2024 | Gold medal, women team category • SUKUM Chess Tournament, Malaysia           |
| 2024 | Bronze medal, women team category • MAKSAT Chess Tournament, Malaysia        |
| 2023 | Silver medal, UTM team category • SUKANUN Chess Tournament, Malaysia         |
| 2023 | Bronze medal, women team category • Chess Tournament, UTM Sport Games        |
| 2023 | Bronze medal, individual category • Chess Tournament, UTM Sport Games        |
| 2022 | Gold medal, women team category • Chess Tournament, UTM Sport Games          |
| 2022 | Silver medal, individual category • Chess Tournament, UTM Sport Games        |
| 2022 | Sports woman award • School of Biomedical Engineering & Health Sciences, UTM |
| 2021 | Gold medal, woman individual category • National Merdeka UTM Chess 2021      |
| 2021 | Gold medal, woman individual category • Saturday Chess UTM                   |
| 2021 | Bronze medal, woman individual category • Chess Inspire i-Train Tournament   |
| 2020 | Bronze medal, woman individual category • Chess Inspire i-Train Tournament   |
| 2019 | Sports woman award • Faculty of Engineering, UTM                             |
| 2019 | Best staff medal • University Open Chess Tournament, UTM                     |
| 2018 | Gold medal, women team category • SUKUM Chess Tournament, Malaysia           |
| 2018 | Gold medal, women team category • Chess Tournament, UTM Sport Games          |
| 2017 | Silver medal, women team category • SUKUM Chess Tournament, Malaysia         |
| 2017 | Silver medal, women team category • Chess Tournament, UTM Sport Games        |
| 2017 | Bronze medal, woman individual category • Chess Tournament, UTM Sport Games  |
| 2016 | Bronze medal, women team category • SUKUM Chess Tournament, Malaysia         |
| 2016 | Gold medal, women team category • Chess Tournament, UTM Sport Games          |
| 2016 | Bronze medal, woman individual category • Chess Tournament, UTM Sport Games  |
| 2014 | Bronze medal, woman individual category • Chess Tournament, UTM Sport Games  |

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## JOURNAL PUBLICATION

- R. Gopal, A. Tanji, H. Hermawan, S. Sivaling, S. Kadiman and S. Saidin, "Enhancement of nanomechanical and degradation properties of FVII immobilised PCL-based membrane: Utilisation of AM-FM viscoelastic mapping", *Polymer*, submitted, 2025.
- M. Sadia, N. N. Ab'lah, A. h S. Kamarozaman, S. G. Muhammad Mehdi, I. A. Channa, S. A. Ammar Taqvi, S. K. Jaganathan, E. H. Mirza and S. Saidin, "Impact of crystallite size on surface roughness, antibacterial efficacy and hemocompatible properties of PCL based electrospun membrane for potential wound healing applications", *Journal of Polymer Engineering*, submitted, 2025.
- D. Faadihilah Khrisna, J. Ambreen, Y. W. Tan, N. A. H. Riduan, N. Mohd Daud, N. Muhamad Zain, F. Abdullah, N. A. N. Nik Malek, M. F. Ulu and S. Saidin, "Immobilization of antibacterial chlorhexidine on biodegradable polycaprolactone/estradiol electrospun nanofibrous membrane for bone regeneration", *Journal of Biomedical Materials Research Part B: Applied Biomaterials*, vol. 113 pp. e35575, 2025.
- A.-N. Li, J.-H. Sun, S. Saidin, J. S. Cheah, C.-H. Kuo, L. Li, J.-S. Li, R.-Y. Bai, Y. D. and H.-M. David Wang, "Regenerative potential nanomedicine of adipocyte stem cell-derived exosomes in senescent skin tissue [Response to Letter]", *International Journal of Nanomedicine*, pp. 5611–5612, 2025.
- A. Haleem, J. Ambreen, S. H. H. Zaidi, M. Soliman, N. Kizilbash, D. Alruwaili, J. Basha and S. Saidin, "UV-initiated synthesis of superporous cryogel loaded with palladium nanoparticles for effective catalytic degradation of Eosin Y", *Desalination and Water Treatment*, pp. 101220, 2025.
- B. Shi, S. Lu, H. Yang, S. Mahmood, C. Sun, N. A. N. Nik Malek, W. H. A. Kamaruddin, S. Saidin and C. Zhang, "One-dimensional nanomaterials for nerve tissue engineering to repair spinal cord injury", *BMEMat*, vol. 3, pp. e12111, 2025.
- J. Sheikh, T. T. Swee, S. Saidin, C. L. Suan and S. A. Malik, "Synergistic augmentation of Etoh and 4-watt ultraviolet-C for rapid surface decontamination", *International Journal of Biomedical Engineering and Technology*, vol. 47, pp. 28–43, 2025.
- T. T. Swee, J. Sheikh, S. Saidin, J.-J. Serrano Olmedo, S. A. Agha, M. I. Salim, "Chamber design and intensity-modulated ultraviolet-C LEDs for advanced pulsed photonic disinfection", *Biomedical Engineering/Biomedizinische Technik*, 2025.

- J. Ambreen, T. P. Malick, J. F. Tan, H. S. Zulfikree, R. Gopal, Y. K. Hak, S. Sivalingam, H. Ali and S. Saidin, "Scientific evaluation on biodegradable and biofunctional polyurethane incorporated chitosan/elastin electrospun membranes in compared with synthetic polymeric expanded polytetrafluoroethylene and polyethylene terephthalate vascular membranes", *Journal of Drug Delivery Science and Technology*, vol. 101 Part A, 2024.
- A. Al-Dubai, M. Alhamed, N. Mohd Daud, H. Y. Kim, M. M. Abdul Jamil and S. Saidin, "Nucleation of bioactive hydroxyapatite on polydopamine coating three-dimensional printed poly (lactic acid) macro-porous scaffold for bone grafting application", *Arabian Journal for Science and Engineering*, vol. 18, pp. 55–70, 2024.
- A.-N. Li, J.-H. Sun, S. Saidin, J. S. Cheah, C.-H. Kuo, L. Li, J.-S. Li, R.-Y. Bai, Y. D. and H.-M. David Wang, "Regenerative potential nanomedicine of adipocyte stem cell-derived exosomes in senescent skin tissue", *International Journal of Nanomedicine*, pp. 13149–13163, 2024.
- S. S. Ainun, M. I. B. Santoso, E. Y. Yessa, Gunanti, A. K. Nasution, S. Saidin and M. F. Ulum, "A novel intravaginal contraceptive plug for cats: A preliminary biocompatibility assessment on haematology and vaginal swab", *Reproduction in Domestic Animals*, vol. 59, pp. e14736, 2024.
- A. K. Nasution, F. Andrean, R. Gunawan, R. Syafri, N. G. Tuti, S. Saidin and M. H. Ramlee, "Nanofibre composite PCL/HA coating by spray method on metallic implant materials for medical applications: A study on the different spraying distances and pressures", *International Journal of Surface Science and Engineering*, vol. 18, pp. 55–70, 2024.
- N. Mat Isa, A. A. Razak, S. Adzila and S. Saidin, "Polyhydroxyalkanoate (PHA)/Nano-calcium phosphate (NCaP)/chitosan biocomposite for bone regeneration: Degradation, bioactivity and cytotoxicity evaluation", *Malaysian Journal of Microscopy*, vol. 20, pp. 221–229, 2024.
- K. A. Audah, G. E. Jogia, D. Kustaryono, J. Amsyir, S. A. Amalda, J. Darmadi, S. Himawan, S. Saidin, B. A. Tejo, C. Budiman, S. K. Singh and J. Thekkiniath, "Tetra hydroxy ethyl disulfate disodium: a novel non-resistant antibacterial chelating agent", *bioRxiv*, 2024.
- B. Shi, Shan Lu, H. Yang, S. Mahmood, C. Sun, N. A. N. Nik Malek, W. H. A. Kamaruddin, S. Saidin and C. Zhang, "One-dimensional nanomaterials for nerve tissue engineering to repair spinal cord injury", *BMEMat*, pp. e12111, 2024.
- M. Hao, W. Wang, A. Kumar, W. H. A. Kamaruddin, S. Saidin, N. A. N. Nik Malek, J. Claverie and H. Liu, "Magnetic hydroxyapatite nanobelt-stem cell hybrid spheroids for remotely patterning bone tissues", *BMEMat*, vol. 1, pp. e12074, 2024.
- N. S. Zakaria, N. Ab'lah, A. S. Kamarozaman, N. F. Nik Azmin, F. A. I. Azman, M. I. Mohamad Yusof, S. Saidin and N. Ahmat, "Natural products and chemotaxonomic studies from the twigs of *Neobalanocarpus heimii* (King) P.S. Ashton (Dipterocarpaceae, Malvales)", *Biochemical Systematics and Ecology*, vol. 117, 2024.
- J. Ambreen, S. Saidin, A. Ahmed Shah, A. Khan, K. Majeed, S. S. Batool, S. N. U. Shah Bukhari, A. D. Chandio and H. Naeem, "Enhanced photocatalytic removal of methyl orange dye employing  $\text{SiO}_2/\text{Mn}_2\text{O}_3$  based nanocatalyst under visible light", *Ceramics International*, vol. 50 Part B, pp. 51321–51330, 2024.
- H. Sajid, S. Ali, J. Ambreen, U. Naz, S. Khan, S. N. Shah, S. Saidin and A. Mumtaz, "Efficient CO release from plasmonic Pt using 1D  $\text{BiVO}_4/\text{TiO}_2$  heterojunctions for improved electrocatalytic and photoelectrocatalytic methanol oxidation", *New Journal of Chemistry*, vol. 48, pp. 3551–3562, 2024.
- T. P. Malick, K. Vangetaraman, S. Saidin and A. K. Nasution, "Tissue engineering for cardiovascular regeneration: Brief review on scaffold fabrication", *Journal of Human Centered Technology*, vol. 3, pp. 40–45, 2024.
- F. A. Shabira, D. F. Khrisna, E. Supriyanto, J. Haueisen and S. Saidin, "Characterisation analyses on silver nanoparticles grafted polyurethane as a potential material for electroencephalography electrodes", *Journal of Human Centered Technology*, pp. 211–219, 2024.
- J. Sheikh, S. Saidin, S. Ahmed Malik, T. S. Tan, L. S. Chua, A. A. I. Mohamed Ahmed, M. Kun, M. F. T. Tiong and K. M. Leong, "Enhanced irradiance levels using synergistically engineered monochromatic wavelength ultraviolet-C arrays configuration", *Journal of Human Centered Technology*, vol. 3, pp. 53–60, 2024.
- D. F. Khrisna, N. Muhamad Zain, N. Mohd Daud, F. Abdullah, N. A. N. Nik Malik and S. Saidin, "Morphological and characterization analysis of PCL/estradiol electrospun membrane for bone regeneration application", *Advances in Science & Technology*, vol. 143, pp. 1–14, 2024.
- K. Vangetaraman, A. Asiri, S. Sivalingam, A. Ahmad Syafi, K. Jemon and S. Saidin, "Morphology and wettability analyses on electrospun polyvinyl alcohol/elastin nanofibers at varying voltages and composition", *Advances in Science & Technology*, vol. 143, pp. 41–46, 2024.
- R. Gopal, M. F. M. Shakhhi, M. Sahalan, L. Te Chuan, H. Hermawan, S. Sivalingam, S. Kadiman and S. Saidin,

- "Immobilization of blood coagulant Factor VII on polycaprolactone membrane through polydopamine grafting", **Colloids and Surfaces B: Biointerfaces**, vol. 113390, 2023.
- M. Sadia, M. A. Mohd Zaki, S. K. Jaganathan, M. F. Md Shakhhi, A. S. Kamarozaman, N. Ab'lah and S. Saidin, "Blending of *Moringa oleifera* into biodegradable polycaprolactone/silver electrospun membrane for hemocompatibility improvement", **Arabian Journal for Science and Engineering**, pp. 1–14, 2023.
- T. Selvaras, S. A. Alshamrani, R. Gopal, S. K. Jaganathan, S. Sivalingam, S. Kadiman and S. Saidin, "Biodegradable and antithrombogenic chitosan/elastin blended polyurethane electrospun membrane for vascular tissue integration", **Journal of Biomedical Materials Research Part B: Applied Biomaterials**, vol. 111, pp. 1171–1181, 2023.
- H. P. Mohanadas, V. Nair, A. Abbas, A. A. Mohd Faudzi, N. Tucker, A. F. Ismail, S. Ramakrishna, S. Saidin and S. K. Jaganathan, "A systematic analysis of additive manufacturing techniques in the bioengineering of *in vitro* cardiovascular models", **Annals of Biomedical Engineering**, pp. 1–19, 2023.
- J. Alipal, S. Saidin, A. Z. K. Lo, P. Koshy, H. Z. Abdullah, M. I. Idris and T. C. Lee, "*In vitro* surface efficacy of CaP-based anodised titanium for bone implants", **Surfaces and Interfaces**, vol. 39, pp. 102872, 2023.
- I. Pathak, B. Dahal, D. Acharya, K. Chhetri, A. Muthurasu, Y. R. Rosyara, T. K., S. Saidin, T. H. Ko and H. Y. Kim, "Integrating V-doped CoP on  $Ti_3C_2T_x$  MXene-incorporated hollow carbon nanofibers as a freestanding positrode and MOF-derived carbon nanotube negatrode for flexible supercapacitors", **Journal of Chemical Engineering**, vol. 475, pp. 146351, 2023.
- D. Acharya, T. H. Ko, R. M. Bhattarai, A. Muthurasu, T. Kim, S. Saidin, J. -S. Choi, K. Chhetri and H. Y. Kim, "Double-phase engineering of cobalt sulfide/oxyhydroxide on metal-organic frameworks derived iron carbide-integrated porous carbon nanofibers for asymmetric supercapacitors", **Advanced Composites and Hybrid Materials**, vol. 6, pp. 179, 2023.
- D. Acharya, I. Pathak, A. Muthurasu, R. M. Bhattarai, T. Kim, T. H. Ko, S. Saidin, K. Chhetri and H. Y. Kim, "*In situ* transmogrification of nanoarchitected Fe-MOFs decorated porous carbon nanofibers into efficient positrode for asymmetric supercapacitor application", **Journal of Energy Storage**, vol. 63, pp. 106992, 2023.
- D. Acharya, A. Muthurasu, T. H. Ko, R. M. Bhattarai, T. Kim, S.-H. Chae, S. Saidin, K. Chhetri and H. Y. Kim, "Iron MOF-Derived  $Fe_2O_3$ /NPC decorated on MIL-88A converted  $Fe_3C$  implanted electrospun porous carbon nanofibers for symmetric supercapacitors", **ACS Applied Energy Materials**, accepted, 2023.
- I. Pathak, D. Acharya, K. Chhetri, P. C. Lohani, T. H. Ko, A. Muthurasu, S. Subedi, T. Kim, S. Saidin, B. Dahal and H. Y. Kim, " $Ti_3C_2T_x$  MXene integrated hollow carbon nanofibers with polypyrrole layers for MOF-derived freestanding electrodes of flexible asymmetric supercapacitors", **Chemical Engineering Journal**, vol. 143388, 2023.
- M. Sadia, N. Muhamad Zain, N. Mohd Daud, F. Abdullah, A. D. Chandio, I. A. Channa, S. A. Ammar Taqvi, N. A. N. Nik Malek and S. Saidin, "Electrospun membrane fabrication in assisting tissues healing", **Journal of Human Centered Technology**, vol. 2, pp. 26–34, 2023.
- D. F. Khrisna, M. A. Jumat, K. Jemon and S. Saidin, "Antibacterial analysis on everolimus grafted biomaterial surfaces using polydopamine intermediate layer for potential use on medical devices", **Journal of Human Centered Technology**, vol. 2, pp. 11–18, 2023.
- M. A. Jumat, K. Vangetaraman, A. Ahmad Shafi, N. Muhamad Zain and S. Saidin, "Biodegradable polymeric stent: Poly (lactic acid) variation", **Journal of Human Centered Technology**, vol. 2, pp. 19–25, 2023.
- F. A. Shabira, D. F. Khrisna, E. Supriyanto, J. Haueisen and S. Saidin, "Characterisation analyses on silver nanoparticles grafted polyurethane as a potential material for electroencephalography electrodes", **Journal of Materials in Life Sciences**, vol. 2, pp. 211–219, 2023.
- T. S. Tan, J. Sheikh, S. Saidin, S. A. Malik, L. S. Chua, M. T. F. Thye and J. H. Tan, "Surface bacterium disinfection using everlight 6565 UV-C SMD", **Journal of Human Centered Technology**, vol. 2, pp. 11–17, 2023.
- N. S. Zakaria, N. Ahmat, N. Adnan, N. N. Azmin, F. I. Azman, N. Ab'lah, S. Saidin and A. S. Kamarozaman, "Resveratrol oligomers from the twigs of *Neobalanocarpus heimii* (King) PS Ashton (Dipterocarpaceae)", **Planta Medica**, vol. 89, pp. P-090, 2023.
- M. A. Jumat, P. Chevallier, D. Mantovani and S. Saidin, "Everolimus immobilisation using polydopamine intermediate layer on poly(l-lactic acid)/poly(d-lactic acid) scaffold for sustainable anti-proliferative drugrelease", **Materials Today Communications**, vol. 31, pp. 103720, 2022.
- J. Alipal, S. Saidin, H. Z. Abdullah, M. I. Idris and T. C. Lee, "Physicochemical and cytotoxicity studies of a novel hydrogel nanoclay EPD coating on titanium made of chitosan/gelatin/halloysite for biomedical applications", **Materials Chemistry and Physics**, vol. 290, pp. 126543, 2022.

- M. P. Mani, M. Sadia, S. K. Jaganathan, A. Z. Khudzari, E. Supriyanto, S. Saidin, S. Ramakrishna, A. F. Ismail and A. A. Mohd Faudzi "A review on 3D printing in tissue engineering applications", *Journal of Polymer Engineering*, vol. 42, pp. 243–265, 2022.
- T. Selvaras, S. K. Jaganathan, S. Sivalingham and S. Saidin, "Degradation analysis on electrospun membrane of polyurethane blended chitosan for cardiovascular graft", *Journal of Human Centered Technology*, vol. 1, pp.18–22, 2022.
- A. K. Nasution, H. Gustami, S. Suprastio, M. A. Fadillah, J. Octavia and S. Saidin, "Potential use of friction welding for fabricating semi-biodegradable bone screws", *International Journal of Automotive and Mechanical Engineering*, vol. 19, pp. 9660–9667, 2022.
- R. Gopal, N. M. Zain and S. Saidin, "Poly (l-lactide) membrane as an elastic membrane to support cardiac bleeding intervention", *Materials Science Forum*, vol. 1053, pp. 98–103, 2022.
- J. S. Pupathi, M. A. Jumat, N. M. Zain and S. Saidin, "Tailoring the everolimus immobilisation time on poly (l-lactic acid)/poly (d-lactic acid) scaffold for biodegradable stent coating development", *Materials Science Forum*, vol. 1053, pp. 85–90, 2022.
- A. S. S. Alhammadi, S. Saidin and M. H. Ramlee, "Simulation analyses related to human bone scaffold: Utilisation of Solidworks® software in 3D modelling and mechanical simulation analyses", *Journal of Human Centered Technology*, vol. 1, pp. 97–104, 2022.
- M. A. Jumat, M. S. A. Hamzah, N. M. Daud and S. Saidin, "Evaluation on the antibacterial activity and biocompatibility natural soap formulated with edible bird nest", *Journal of Medical Device Technology*, vol. 1, pp. 1–3, 2022.
- Saidin, M. A. Jumat, N. A. A. Mohamad Amin and A. S. Saleh Al-Hammadi, "Organic and inorganic antibacterial approaches in combating bacterial infection for biomedical application", *Materials Science & Engineering C*, vol. 118, pp. 1–18, 2021.
- A. Asiri, S. Saidin, M. H. Sani and R. H. Al-Ashwal, "Epidermal and fibroblast growth factors incorporated polyvinyl alcohol electrospun nanofibers as biological dressing scaffold", *Scientific Reports*, vol. 11, pp. 5634, 2021.
- J. Sheikh, T. T. Swee, S. Saidin, A. Yahya, S. Ahmad Malik, J. S. S. Yin and M. T. F. Thye, "Bacterial disinfection and cell assessment post ultraviolet-C LED exposure for wound treatment", *Medical & Biological Engineering & Computing*, vol. 59, pp. 1055–1063, 2021.
- A. Z. K. Lo, S. K. Lukman, C.-H. Lai, N. Muhamad Zain and S. Saidin, "Stingless bee honey incorporated cellulose hydrogel/poly(lactic-co-glycolic acid) patch as an alternative treatment for aphthous stomatitis", *Cellulose Chemistry & Technology*, vol. 55, pp. 539–603, 2021.
- M. F. Mohd Yusoff, N. H. Abu Kasim, W. H. Himratul-Aznita, S. Saidin, K. Genasan, T. Kamarul and Z. Radzi, "Physicochemical, antibacterial and biocompatibility assessments of silver incorporated nano-hydroxyapatite synthesized using a novel microwave-assisted wet precipitation technique", *Materials Characterization*, vol. 178, pp. 111169, 2021.
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#### CONFERENCE PROCEEDING PUBLICATION

- M. A. Jumat, J. Ambreen, P. Chevallier, D. Mantovani, H.-M. Wang and S. Saidin, “Haemocompatible dual-functional surfaces of everolimus-immobilised polydopamine scaffolds in supporting abluminal endothelialisation and inhibiting luminal cell growth for drug-eluting stent development”, *IFMBE Proceeding*, accepted, 2025.
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## BOOK & BOOK CHAPTER

- S. Saidin, N. Muhamad Zain and N. Mohd Daud, “*Polymeric Materials for Drug Delivery: Insight into Biomedical Applications*”, 1st ed. Malaysia: Penerbit UTM Press, 2025.
- M. I. Hassan, N. Sultana, K. Vangetaraman, D. F. Khriana, R. Gopal and S. Saidin, Biofabrication of poly(hydroxybutyrate-co-hydroxyvalerate)/ poly(lactic-co-glycolic acid) electrospun nanofibers as the mediation of strontium-hydroxyapatite for bone tissue engineering in “*Biomedical Materials and Biofabrication for Regenerative Medicine*”, 1st ed. United Kingdom: Taylor & Francis, 2025.
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## INTELLECTUAL PROPERTY

- Biodegradable Electrospun Polyurethane/Chitosan/Elastin Vascular Patch, copyright, CRLY2024J04874, granted, 2024.
- Chlorhexidine-Estradiol Incorporated Polycaprolactone Nanofibers for Tissue Regeneration, copyright, CRLY2024J04877, granted, 2024.
- Moringa oleifera Herbal Based Membrane, copyright, LY2023J05665, granted, 2022.
- Honey Hydrogel Patch for Ulcer Treatment, copyright, LY2022J01473, granted, 2022.
- 3D Printed Stereocomplex PLLA/PDLA Scaffold, copyright, LY2021J06648, granted, 2021.
- Ginseng Encapsulated Microcapsules Coating, copyright, LY2020004252, granted, 2020.
- Bone Cement Containing Phosphate from Crab Shell, copyright, LY2018006200, granted, 2019.
- Acalypha indica* Hydrogel, copyright, LY2019005497, granted, 2018.
- Moringa oleifera Herbal Based Membrane, copyright, LY2023J05565, granted, 2022.
- ChitoE Co-electrospun Vascular Patch, patent, IP/PT/02716, submitted, 2025.
- Factor VII Polymeric Cardiac Patch, patent, IP/PT/02333, submitted, 2023.
- Antioxidant *Moringa oleifera* Extraction, copyright, IP/CR/04242, submitted, 2022.
- Antibacterial Chlorhexidine Bone Cement, copyright, IP/CR/2018/0314, submitted, 2018.
- Immobilised Bioactive Hydroxyapatite-Collagen Coating, copyright, IP/CR/2017/0615, submitted, 2017.
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## TEACHING EXPERIENCES

Biomedical Materials • SKEB/SEBB 3313  
Biomaterials Characterization & Analyses • MEBC 1163  
Tissue Engineering • MEBC 1163  
Cell & Tissue Engineering • SMBE 4343  
Cardiovascular Engineering • MMBC 1153  
Research Methodology • UMBP 0010 & UMBP0013  
Basic Anatomy & Physiology • SMBE 1513 Physiology  
& Introduction to Medicine • SKEL 3503  
Instrumentation & Measurement in Biomedical • SKBB 3043Final  
Year Project, Part I & II • SKBB 4812 & SKBB 4824  
Conceive, Design, Implement & Operate, Third Year • SWB/SMBE 3742Laboratory  
1, Second Year • SEBB 2712  
Laboratory 2, Third Year • SMBE 3712

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## PAST 3 YEARS COMMITMENT

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|---------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Current | International | <b>Treasurer</b> • Advanced Biomaterials, Biomedical & Biotechnology - Southeast Asia Consortium (Adv3BioSEAC)<br><b>Managing editor</b> • Journal of Human Centered Engineering (HumEnTech)<br><b>Section editor</b> • Jurnal Teknologi<br><b>Editorial member</b> • Orthopaedic, Surgery & Traumatology; Journal of Advanced Research in Materials Science; Al-Khwarizmi Engineering Journal; Journal of Sustainable Materials Processing and Management<br><b>Journal reviewer</b> • Materials Science & Engineering C; Journal of Healthcare Engineering; Frontiers in Chemistry; Science Letters; Current Drug Therapy; ACS Applied Nanomaterials; Arabian Journal for Science and Engineering; Chemical Engineering Journal; Nanomedicine; Scientific Reports; Journal of Biomedical Materials Research Part B: Applied Biomaterials; Surfaces & Interfaces; Chemical Engineering Journal; Bioprocess and Biosystems Engineering; International Journal of Biomaterials; Materials; Jurnal Teknologi; Malaysian Journal & Fundamental of Applied Sciences Malaysian Applied Biology; Biomaterials and Biomedical Engineering; Teknomekanik |
| Current | National      | <b>Consultant trainer for EPI Academy Sdn. Bhd.</b> • Certified Healthcare Facility Management Training (Anatomy & Physiology); Basic Active Medical Device Training                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Current | State         | <b>Secretary</b> • Desa Skudai Apartment Management Body<br><b>Treasurer</b> • Johor Society of Disabled Chess Player                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Current | University    | <b>Director</b> • IJN-UTM CEC; Good Clinical Practice (GCP) Certification Course 2025<br><b>Member</b> • IJN-UTM Steering Committee; IJN-UTM Management Committee; iHumEn Publication Unit; Technical Quotation Revision; Bulletin Publication Unit; Website Development Unit; iHumEn Welfare Club<br><b>Event executive</b> • Chess Club KECAS UTM<br><b>Head of laboratory, IJN-UTM CEC</b> • Biocompatibility Laboratory; Electrospinning Laboratory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Current | Faculty       | <b>Internal panel</b> • First Year Assessment (Master & Doctorate); Qualifying Assessment (Doctorate); Mini VIVA (Master & Doctorate)<br><b>Abstract assessor</b> • Master & Doctorate Theses<br><b>Panel assessor</b> • Final Year Project Thesis; Final Year Project Seminar<br><b>Review panel</b> • Test Moderation; Final Examination<br><b>Supervisor</b> • Final Year Project; Industrial Training<br><b>Member</b> • FKE Management Committee; FKE Research & Innovation Committee; JKBSK Welfare Club<br><b>Head of laboratory, JKBSK</b> • Biomedical Sciences Laboratory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 2024    | International | <b>Co-Chair</b> • International Human-Centered Technology Conference (iHumEnTech 2024)<br><b>Keynote Speaker</b> • Keynote Seminar 'Innovative Synergies: Bridging Biomedical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|      |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |               | Sciences and Engineering for Transformative Healthcare Solutions’<br><b>Invited Speaker</b> • 1 <sup>st</sup> International Seminars on Tropical Bioresources Advancement And Technology 2024 (1 <sup>st</sup> ISOTOBAT 2024); Guest Lecture ‘Insight into the Potential of Biomedical Engineering Research to Transform Healthcare’<br><b>Speaker</b> • Community Outreach ‘Inspiring the Next Generation of Scientists and Engineers in Biomedical Science’<br><b>Technical Program Committee</b> • 8 <sup>th</sup> International Conference on Nanomaterials and Biomaterials (ICNB 2024); 13 <sup>th</sup> International Conference on Material Science and Engineering Technology (ICMSET 2024)                                                      |
| 2024 | National      | <b>Invited speaker</b> • National Electrospinning & Demonstration (NEMD) 2024<br><b>Director</b> • IJN-UTM Health Screening at SK Sega<br><b>Grant Assessor</b> • KPJ Collaborative Research Grant Scheme (CRGS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2024 | University    | <b>Director</b> • IJN-UTM Strategic Planning Workshop 2024; Arduino Essentials: A Beginner’s Workshop; Python Essentials for Beginner<br><b>Assessor</b> • Industrial Involvement Award, Citra Karisma 2024; Technology Implementation Fund (TIF) Cycle 1/2024<br><b>Management Committee</b> • Faculty of Electrical Engineering<br><b>Judger</b> • 3M FYP UTM Undergraduate Research Conference 2024                                                                                                                                                                                                                                                                                                                                                    |
| 2023 | International | <b>Invited speaker</b> • 7 <sup>th</sup> Annual Congress of the Asia-Pacific Society for Artificial Organs (APSAO) 2023<br><b>Publicity Chair</b> • 7 <sup>th</sup> Annual Congress of the Asia-Pacific Society for Artificial Organs (APSAO) 2023<br><b>Technical Program Committee Chair</b> • 3 <sup>rd</sup> International Conference on Intelligent Cybernetics Technology & Applications 2023 (ICICyTA)                                                                                                                                                                                                                                                                                                                                             |
| 2023 | National      | <b>Consultant trainer for EPI Academy Sdn. Bhd.</b> • Basic Active Medical Device Training (Anatomy & Physiology)<br><b>Consultant</b> • ICBME Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2023 | State         | <b>Secretary</b> • Desa Skudai Apartment Management Body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2023 | University    | <b>Academic trainer</b> • ToT for Qaiwan University, Iraq (Biomedical Materials)<br><b>Director</b> • IJN-UTM Research Convention 2023; Good Clinical Practice (GCP) Course 2023; Basic First Aid & Cardiopulmonary Resuscitation (CPR) Course 2023<br><b>Judger</b> • 3M FYP UTM Undergraduate Research Conference 2023<br><b>Gas inventory personnel</b> • IJN-UTM CEC<br><b>Assistant invigilator</b> • GCP 2023 Certification Examination<br><b>Grant panel</b> • Quick Win Research Grant Phase II; UTM Fundamental Research grant; Matching grant<br><b>Technical panel</b> • FRGS Bank Proposal<br><b>Head of taskforce</b> • IJN-UTM Signage & Label Installation Taskforce<br><b>Taskforce member</b> • Electromagnetic Compatibility Laboratory |
| 2023 | Faculty       | <b>Mentor</b> • Graduate Supervision Course (AS103)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2022 | National      | <b>Scientific review committee</b> • The 4 <sup>th</sup> International Conference on Biosciences & Medical Engineering (ICBME 2022)<br><b>Publication committee</b> • International Conference on Biomedical Engineering & Health Sciences (ICBEHS 2022)<br><b>Technical Program Committee Chair</b> • 2 <sup>nd</sup> International Conference on Intelligent Cybernetics Technology & Applications 2022 (ICICyTA)                                                                                                                                                                                                                                                                                                                                       |
| 2022 | State         | <b>Secretary</b> • Desa Skudai Apartment Management Body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2022 | University    | <b>Director</b> • Good Clinical Practice (GCP) Course 2022; Basic First Aid & Cardiopulmonary Resuscitation (CPR) Course 2022; MoU Signing Ceremony EPI-UTM<br><b>Assistant invigilator</b> • GCP 2022 Certification Examination<br><b>Judger</b> • 3M FYP UTM Undergraduate Research Conference 2022<br><b>Grant panel</b> • UTM Fundamental Research grant<br><b>Webinar Moderator</b> • IJN Pioneering Impactful Cardiology Clinical Trials                                                                                                                                                                                                                                                                                                            |

## MAIN GRANTS

- PDRU Grant • Biodegradable chlorhexidine-estradiol based bifunctional coatings for medical implants (2023 – 2025): *on-going*
- FRGS Grant • Fundamental development of biodegradable co-electrospun PVA-elastin/PU-chitosan nanofiber tubular graft for vascular regeneration and tissue integration (2023 – 2026): *on-going*
- Industrial CR-DTD Grant • IJN web-based integrated research management (i-RMS) system development (2023 – 2024): *on-going*
- Hi-Tech F4 Grant • Advanced Materials for Biodegradable Implant with Osseocompatibility Properties (2022 – 2025): *on-going*
- Hi-Tech F4 Grant • Sustainable antibacterial and osseoinductive CHX-estradiol electrospun nanofibrous coating on biodegradable materials (2022 – 2025): *on-going*
- UTMShine Award Grant • Dual-functional surfaces of everolimus immobilised on polymer scaffold mediated by polydopamine for stent development (2021 – 2023): *completed*
- Tier 2 RUG Grant • 3D printed biodegradable poly(D-lactic acid)/poly(L-lactic acid) vascular stent (2019 – 2022): *completed*
- Industrial CR-DTD Grant • Fabrication and blood compatibility assessment of novel electrospun nanocomposite of polyurethane blended with chitosan nanoparticles and elastin for cardiovascular patch and graft applications (2019 – 2021): *completed*
- FRGS Grant • Performance mechanism of ginseng encapsulated poly(D-lactic acid) microcapsules/poly(L-lactic acid) scaffold for biodegradable stent application (2019 – 2021): *completed*
- Industrial CR-DTD Grant • Immobilisation of antibacterial molecules on fine dispersed silica particles (2019 – 2020): *completed*
- CoE RUG Grant • Ginseng encapsulated poly(lactic co-glycolic acid) microcapsules coating on stainless steel 316L for cardiovascular application (2018 – 2020): *completed*
- Tier 1 RUG Grant • Antibacterial degradable halal honey film patch for oral ulcer / aphthous stomatitis woundhealing treatment (2018 – 2020): *completed*
- Business Entity Grant • Natural cold process handmade soap and natural skincare product (2016 – 2017): *completed*
- Tier 2 RUG Grant • Synthesis of calcium phosphate bone cement from crabshells (2015 – 2016) : *completed*
- FRGS Grant • Incorporation of collagen type I and biomineralised nano-hydroxyapatite on polydopamine grafted metal using magnetic approach for bone integration (2014 – 2016): *completed*
- PAS RUG Grant • Oral antibacterial activity of poly(lactic-co-glycolic acid) membrane incorporated with lauric acid on *P. gingivalis* and *A. actinomycetemcomitans* bacterial species (2014 – 2015): *completed*
- Flagship CoE Grant • Study on release profile and degradation of ginsenoside drug-eluting coating for cardiovascular applications (2014 – 2015): *completed*

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## MAIN GRADUATED SUPERVISION

### Doctor of Philosophy

- Rathosivan Gopal • Immobilisation of Factor VII on Polydopamine Grafted Polycaprolactone Membrane for Cardiac Bleeding Application (2024)
- Madeeha Sadia • Incorporation of Antibacterial *Moringa oleifera* Leaves Extract into polycaprolactone/ Silver Nanoparticles Electrospun Membranes for Potential Wound Healing Applications (2023)
- Mohamad Amin Jumat • Dual-Functional Surfaces of Everolimus Immobilised on Biodegradable Poly(L-Lactic Acid)/Poly(D-Lactic Acid) Scaffold Mediated by Polydopamine Coating for Stent Development (2022)
- Siti Khadijah Lukman • Ginseng Encapsulated Poly(lactic-co-glycolic acid)/Polyaniline Microcapsules Coated on Stainless Steel 316L Using Electrodeposition Technique for Drug-Eluting Stent Application (2021)
- Mohd Izzat Hassan • Poly(hydroxybutyrate-co-hydroxyvalerate)/Poly(lactic-co-glycolic acid)/Strontium Hydroxyapatite/Shikonin Nanofiber Scaffold (2019)
- Nurizzati Mohd Daud • Immobilisation of Antibacterial Chlorhexidine on Polydopamine Grafted Stainless Steel 316L for Osseointegrated Implant (2019)
- Norsyahiran Zahidin • Optimisation of Anti-oxidant Phytochemical Extraction of *Acalypha indica* for Therapeutic Application (2019)

### Master of Engineering

- Fakhira Alanna Shabira • *In-vitro* Biocompatibility Analyses on Co-electrospun of Polyurethane/Chitosan and Polyvinyl Alcohol/Elastin Vascular Membrane (2024)
- Thiviya Selvaras • Degradation Analysis and Blood Compatibility on Electrospun Membrane of Polyurethane Blended Chitosan/Elastin for Cardiovascular Membrane (2023)
- Thasleema Parvin Malick • Comparison of Physicochemical Properties and Cytotoxicity between Polyurethane/Chitosan/Elastin Electrospun Membrane and Commercialised Vascular Membranes (2023)
- Alex Lo Zhen Kai • Double Layer Materials Consisting of Poly(lactic-co-glycolic acid)/Cellulose Stingless Bee Honey Hydrogel for Biomedical Application (2021)
- Somyah Ali Alshamrani • Fabrication and Characterization Analyses on Polyurethane Electrospun Nanofibers Incorporated with Chitosan/Elastin for Cardiovascular Grafting (2021)
- Zafirah Tapsir • Incorporation of Bioactive Collagen Type I and Biomaterialised Hydroxyapatite on Polydopamine Grafted Stainless Steel (2018)
- Mohd Amirul Aizat Zaini • Antibacterial Analysis on *Acalypha indica* Hydrogel for Wound Healing (2018)
- Zulaika Miswan • Physico-Chemical Properties of Stainless Steel 316L Coated with Ginseng-Poly(lactic-co-glycolic acid) for Stent Application (2017)
- Nur Najiha Saarani • Antibacterial and Cytocompatibility Analyses on Triple Layered Poly(lactic-co-glycolic acid)/Nanoapatite/Lauric Acid Composite Membrane (2016)
- Ng Boon Sing • Evaluation on Modified Electrochemical Noise Measurement for Degradation Monitoring of Biodegradable Metals (2016)

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## CO-GRADUATED SUPERVISION

### Doctor of Philosophy

- Ala Abo-Bakr • Fabrication and Characterization of Polydopamine-Hydroxyapatite Immobilized Three-Dimensional Printed Polylactic Acid Scaffold for Bone Grafting (2025)
- Jahanzeb Sheikh • Efficacy Assessment of Synergistically-Engineered Aluminium Nitride-Based UV-C Led Arrays for Enhanced Long-Range Disinfection with Multivariate Analysis (2024)
- Amnah Ismail A Asiri • Epidermal and Fibroblast Growth Factor Incorporated Polyvinyl Alcohol Electrospun Nanofibers as Burn Wound Dressing Scaffold (2022)
- Sameen Ahmed Malik • Effectiveness of Multivariate Parameters on Medical Device Disinfection Using Pulsed Irradiated Simultaneously-Coupled Triadic Wavelength UV-LEDs (2020)
- Jamillah Amer Nordin • Multifunctional Bovine Hydroxyapatite/Alpha-Ferum Oxide Nanocomposite Material Using Mechanosynthesis (2019)
- Ahmad Kafrawi Nasution • Penetapan Tulang Besi Tahan Karat Terbiodegradasi Menggunakan Kaedah Kimpalan Geseran (2017)
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**Master of Engineering**

Nurul Shahira Zakaria • Isolation and Incorporation of *Neobalanocarpus heimii* Extract into Polycaprolactone Electrospun Nanofibers (2025)

Jahanzeb Sheikh • Wound Bacterial Disinfection and Cell Assessment Post Ultraviolet-C Exposure (2019) Mohd Syahir Anwar Hamzah • Evaluation of Poly(lactic acid)/Pectin Scaffold Potential for Tissue Engineering Application (2018)

Mohd Amirul Aizat Zaini • Antibacterial Analysis on *Acalypha indica* Hydrogel for Wound Healing (2018)

Siti Norhayati Md. Yassin • Study on Salivary Protein and Brain Responses during Empathetic Pain Reception (2018)

Murni Nazira Sarian • Cytotoxicity Assessment of Novel Zn Alloys for Bone Application (2014)

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