SUMMARY OF VITA OF MOHD SAPUAN SALIT

Dr Mohd Sapuan Salit is Professor (Grade A) of composite materials specializing in natural fibre composites and product development in Department of Mechanical and Manufacturing Engineering, Universiti Putra Malaysia (UPM), He was a Founding Head of Advanced Engineering Materials and Composite Research Centre (AEMC), UPM (2018-2025) and former Head of Department of Mechanical and Manufacturing, UPM. He is currently an Honorary Adjunct Professor at National Textile University, Pakistan. He was a founding staff of Advanced Materials Research Centre, ITMA, UPM and founding Head of Engineering Composites Research Group (ECRG), Faculty of Engineering, UPM. He was appointed Head of Laboratory of Biocomposite Technology, INTROP, UPM for 5 years and a member and founding management team of Higher Institution Centre of Excellence (HICoE) on Tropical Wood and Fibres, a CoE under Ministry of Higher Education, Malaysia as well as Head of Materials Science and Technology Cluster, UPM for 9 nine years. Dr Mohd Sapuan earned BEng in Mechanical Engineering, University of Newcastle, Australia, MSc in Engineering Design, Loughborough University, UK and PhD in Material Engineering, De Montfort University, UK. Dr Mohd Sapuan is a Professional Engineer with Certificate of Practice, and a Fellow of the World Academy of Sciences, Fellow of Society of Automotive Engineers International, Fellow of Industry Academy International Artificial Intelligence Industry Alliance, Founding Fellow of International Academy of Bionic Science, Fellow of Academy of Sciences Malaysia, Fellow of International Society for Development and Sustainability, Fellow of Plastic and Rubber Institute Malaysia, Fellow of Malaysian Scientific Association, and Fellow of Institute of Materials Malaysia. Dr Mohd Sapuan is an Honorary Member of Asian Polymer Association, IIT Delhi and Founding Chairman and Honorary Member of Society of Sugar Palm Development and Industry, Malaysia. He was a visiting professor at UNITEN, Malaysia, UTeM Melaka, UTM, KL, MSU Shah Alam, Malaysia, Universiti Malaya, Universitas Malahayati, Universitas Andalas and National Research and Innovation Agency (BRIN), Indonesia and Visiting Researcher/Fellow at University of Bradford, UK and UNIMAP. Malaysia. He is a founding Editor-in-Chief of Journal of Natural Fibre Polymer Composites (currently under Scopus evaluation for indexing), co-editor-in-chief of Functional Composites and Structures and editorial board member for over 30 journals. He has produced over 2000 publications including 1006 journal papers, over 75 books, and 269 chapters in book. He delivered 84 plenary and keynote lectures, and 180 invited lectures at conferences and motivational lectures. He organized 33 journal special issues as guest editor, reviewed over 1500 journal papers and has 10 patents to his credit. Dr Mohd Sapuan successfully supervised as main and co-supervisor 109 PhD and 85 MSc students and 17 postdoctoral researchers. His h-index is 128 with 59,886 citations (Google Scholar) and h index107 with citations 41,770 (Scopus). He received ISESCO Science Award, Azerbaijan, Khwarizimi International Award, Iran, National Book Awards, Endeavour Research Promotion Award, India, Citation of Excellence Award, UK, Frontier Researcher, Malaysia's Research Star Award 2025, Clarivate, Publons Peer Review Award, USA, Alumni Award, Australia, Professor of Eminence Award, India and Top Research Scientists' Malaysia Award. He was listed in World Top 2% Scientists, Stanford University, USA, Asian Scientist 100 2024 by Asian Scientist Magazine, Singapore and Highly Ranked Scholar, ScholarGPS, USA (Placed in the Top 0.05% of All Scholars Worldwide). He received SAE Subir Chowdhury Medal of Quality Leadership, USA, International Society of Bionic Engineering Outstanding Contribution Award, China, IET Achievement Award, UK, the World Academy of Sciences (TWAS) Award in Engineering Sciences, Italy, Materials Science Leader Award by Research.com, Algeria, IET Malaysia Leadership Award, William Johnson International Gold Medal, Ireland, Academia Icon, MoHE, Malaysia, Life Time Achievement KnowTex Award, Pakistan, Excellence Award (Best Book), ModTech, Romania, COMSTECH Best Scientific Book Award, Pakistan and BEM Special Mention of International Engineering Award (SMIEA), Board of Engineers, Malaysia.

CURRICULUM VITAE: PROFESSOR IR DR MOHD SAPUAN SALIT

PROFESSOR IR DR MOHD SAPUAN BIN SALIT

(FASc, FTWAS, FIABS, FISDS, FAIIA, FSAE, FMSA, FIMM, FPRIM, PEng)

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Email: sapuan@upm.edu.my

PERSONAL

Born on 25 September 1965 (Perak, Malaysia); Married to Nadiah Zainal Abidin: child: Qurratu Aini (Pursuing PhD)

EDUCATION

Ph.D. (Material Engineering) 1998
Department of Mechanical and Manufacturing Engineering
De Montfort University, UK
Thesis Title: "A Concurrent Engineering Design System for Polymeric Based Composite Automotive Components."

M.Sc. (Engineering Design) 1994
Loughborough University of Technology,
Loughborough, Leicestershire, UK

B.Eng. (Mechanical Engineering) 1990
University of Newcastle, NSW, Australia

ACADEMIC APPOINTMENTS

Current posts:

Professor of Composite Materials Grade: "A"

Department of Mechanical and Manufacturing Engineering, Universiti Putra Malaysia (UPM), 43400 UPM Serdang, Selangor, Malaysia

INDUSTRIAL EXPERIENCE

1991-1994 – Mega Idaman Sdn Bhd, Kuala Lumpur
1993 – Executive, PROTON Berhad, R&D Department, Shah Alam Malaysia
1993-1994 – Stamford Consulting Group, Lincolnshire, UK
2020-2025 – Steelcase Sdn. Bhd, Puchong, Selangor, Malaysia
2023-now - Fillip Sdn Bhd, Putrajaya, W.P, Malaysia
2024 – Visiting Researcher, National Research and Innovation Agency (BRIN), Indonesia

AREA OF INTEREST/EXPERTISE

- Material Science;
- Energy Materials;
- Materials Engineering;
- Natural fibre composites;
- Biocomposites;
- Biopolymer composites;
- Nanocellulose biopolymer composites;
- Biobased polymer composite packaging;
- Materials selection for polymer composites;
- Design for sustainability - Fully degradable biopolymer composites;
- Concurrent engineering for polymer composites;
- Conceptual design for polymer composites;
- TRIZ in polymer composite product development;
- Nanocellulose composite piezoelectric sensor;
- Graphene PLA composites in electric vehicle,
- Product Design and Innovation;
- Circular Economy;
- Life Cycle Assessment;
- Design for Manufacture.
- Strength of Materials
- Industrial Safety and Health

AWARDS AND RECOGNITIONS

INTERNATIONAL LEVEL

Founding Fellow, International Academy of Bionic Science (IABS), International Society of Bionic Engineering, China, 2025.

Materials Science in Malaysia Leader Award, (National Ranking = 2; World Ranking = 676), Research.com, Algeria, 2025.

World Scientist and University Rankings 2025, University rank =1; Country rank = 4; World rank = 3,805, AD Scientific Index 2025, Turkey.

Listed in The Asian Scientist 100, 2024, Asian Scientist Magazine, Singapore

Certificate of Appreciation, Best Oral Presenter Award, Innovative Eco-Friendly Material Synthesis, International Conference of Advanced Engineering Materials and Composites (ICAEMC2024), Serdang, Selangor, Malaysia.

Certificate of Appreciation, Best Oral Presenter Award, Environmental Accountability, International Conference of Advanced Engineering Materials and Composites (ICAEMC2024), Serdang, Selangor, Malaysia.

Highly Ranked Scholar, Lifetime, in the Specialty of Design, ScholarGPS, USA, 2024.

Highly Ranked Scholar, Lifetime, in the Discipline of Mechanical Engineering, ScholarGPS, USA, 2024.

Highly Ranked Scholar, Lifetime, in the Field of Engineering and Computer Science, ScholarGPS, USA, 2024.

Fellow of Industry Academy, The International Artificial Intelligence Industry Alliance, Hong Kong, 2024.

Visiting Professor, BRIN, Cibinong. Bogor Regency, West Java, 2024.

TWAS Award in Engineering Sciences 2024, The World Academy of Sciences, UNESCO, Trieste, Italy (Prize USD 10,000)

Fellow, The World Academy of Sciences (FTWAS), The World Academy of Sciences, UNESCO, Trieste, Italy, 2024.

COMSTECH Best Scientific Book Award 2023, In Recognition of Distinguished Research Contributions, OIC Ministerial Standing Committee on Scientific and Technological Cooperation, Pakistan, Signed by President of Pakistan (Cash Prize USD 4,000).

Certificate of Excellence, For Outstanding Oral Presentation, International Conference on Sugar Palm and Natural Fibre Polymer Composites 2023 (SNPC2023), Serdang, Selangor, online.

William Johnson International Gold Medal, Awarded for Lifetime Achievement in Materials Processing Technology, AMPT Steering Committee, Bangi, Malaysia, 2023.

Visiting Professor, World Class University Program, Fakultas Pertanian, Univesitas Andalas, 2023.

Honorary Adjunct Professor, National Textile University, Faisalabad, Pakistan, 2023-2026.

Best Manuscript Award, **Bronze Winner**, International Symposium on Polymeric Materials 2022, held virtually on 14 & 15-June-2022, organized by Advanced Engineering Materials Composite Research Center (AEMC), Universiti Putra Malaysia.

Outstanding Contribution Award, In Recognition of Distinguished Contributions in the Field of Bionic Engineering, International Society of Bionic Engineering, China, 2022 (award of RMB 30,000).

Gangsa, For Invention – COVID-19 Polypropylene Waste Derived Char Sugar Palm Starch Filled Biocomposite Briquette, Persidangan dan Ekspo Ciptaan Institusi Pengajian Tinggi Antarabangsa **(**PECIPTA'22), UMK, Kelantan, 2022

Excellence Award, Best Book, ModTech, Iasa, Romania, 2022.

Lifetime Fellow, International Society for Development and Sustainability, Japan, 2022.

Certificate of Award, In Recognition of Outstanding Contribution as a Leader in Materials Science in Malaysia, Green Engineering Society, Indonesia, 2022.

2021 SAE Subir Chowdhury Medal of Quality Leadership, Society of Automotive Engineers International, Detroit, USA.

Award After His Name, **Mohd Sapuan Salit Best of the Best Award**, SAPC 2021 Conference, Malaysia

Top Cited Article 2020-2021, The Paper Has Been Recognized as a Top Paper, Polymer Composites, Wiley, Singapore.

Certificate of Appreciation, 1st Place Winner, Best Poster Presentation Award, 5the Wood and Biofibre International Conference (WOBIC 2021), Bangi, Selagor, Malaysia, online.

Gold Winner, Best Presenter Award, International Conference on Sugar Palm and Allied Fibre Polymer Composites 2021 (SAPC 2021), Serdang, Selangor, Malaysia (online).

The IET Achievement Awards 2021, Finalist, IET Achievement Medals, The Institution of Engineering and Technology, UK.

Listed Among Top 2% of World Scientists, 2020-2024, Stanford University, USA.

Most Cited Article Award, 2018 and 2019, International Journal of Precision Engineering and Manufacturing: Green Technology.

Finalist, Distinguished Alumni Award 2019, Australian Alumni Awards, Kuala Lumpur.

Top Peer Reviewer 2019, For Placing in the Top 1% of Reviewers in Materials Science, Pubons, Web of Sciences, USA.

Top Peer Reviewer 2019, For Placing in the Top 1% of Reviewers in Engineering Science, Pubons, Web of Sciences, USA.

Top Peer Reviewer 2019, For Placing in the Top 1% of Reviewers in Cross-Field, Pubons, Web of Sciences, USA.

Professor of Eminence Award, Department of Chemistry, Aligarh Muslim University, India, 2019.

Certified Publons Academic Mentor, Publons Academy, Publons.com, USA, 2018.

Top Downloaded Article 2018-2019, The Paper has been Recognized as One of the Most Read in Polymer Composites, Wiley, Singapore.

Top Cited Article 2018-2019, The Paper has been Recognized as a Top Cited Paper in Starch, Wiley, Singapore.

Best Paper Award, Paper Published in a Special Issue Deference Technology, China Ordnance Society, 2018.

Publons Peer Review Awards, For Placing in the Top 1% of Reviewers in Materials Science, 2018, Publons, USA.

Best Paper Award, For Exceptional Quality of Research Work Presented at 15th DOST-ERDT Conference and 11th AUN/SEED-Net Regional Conference on Energy Engineering, Manila Hotel, Manila, Philippines, 2018.

Finalist, Malaysian Australian Alumni Award, MAAC Award, 2017.

Top Downloaded Article 2017-2018, The Paper has been Recognized as a Top 20 Most Read Paper in Polymer Composites, Wiley, Singapore.

Outstanding Reviewer Award 2018, IOP Outstanding Reviewer 2018, Materials Research Express, IOP Publishing, London.

Citation of Excellence 2017, Most Highly Cited and Highly Influential paper – Natural Fibre reinforced polymer composites in industrial applications: Feasibility of date palm fibres for sustainable automotive industry – Journal of Cleaner Production, Emerald Publishing Limited, UK.

Academic Award, Endeavour Research Promotional Award, Teerthanker Mahaveer University, Moradabad, India, 2017.

Outstanding Reviewer Award 2016, IOP Outstanding Reviewer 2016, Materials Research Express, IOP Publishing, London.

SEARCA Regional Professorial Chair, In Recognition of Contribution to Academic Excellence during AY 2015/2016, SEAMEO, SEARCA, Los Banos, Laguna, Philippines.

Fellow, Society of Automotive Engineers International, 2015.

Best Technical Paper Award, In recognition of the Technical Excellence of the Paper "Design with Natural Fibre Composites", UNIMAS STEM Encon 2014, UNIMAS, Kuching, Sarawak, Malaysia.

Certificate of Outstanding Contribution in Reviewing, Elsevier, Amsterdam, The Netherlands, 2013.

The Khwarizmi International Award (KIA), Third KIA Laureate for His Excellence and Dedication in Research, Ministry of Science, Research and Technology, Iran, 2013 presented by Vice President of Iran.

Visiting Professor, Universitas Malahayati, Bandar Lampung, Indonesia, 2012.

2012 Alumni Awards, The Alumni Medal for Professional Excellence, Finalist, University of Newcastle, NSW, Australia.

Silver, Certificate of Award, For the Invention - Innovative Hand Tool Harvester for Dioscorea Hispida, International Ibn Al-Haytham's Al-Manazir Innovation and Invention Exhibition (InEx 2011), 2011, International Islam University Malaysia, Kuantan, Pahang Malaysia,

Certificate of Appreciation, Best Poster Award, 8th International Conference of Composite Science and Technology (ICCST 8), 2011, Kuala Lumpur, Malaysia.

Honorary Life Member, Asian Polymer Association, Indian Institute of Technology, New Delhi, India, 2008.

Member Service Award, in Recognition of Ten Years of Active Membership with SAE International, Society of Automotive Engineers Inc. USA, 2008.

ISESCO Science Award 2008, In Recognition of Meritous Achievements in the Field of Technology, The Islamic Education, Scientific and Cultural Organization (ISESCO) Rabat, Morocco, Presented during OIC Conference in Baku, Azerbaijan (Gold Medal, certificate and prize of USD 5,000).

The Muslim News Award for Excellence 2008: Fazlur Rahman Khan Award for Excellence in Engineering Finalist, Category – Science, Technology and Engineering, Harrow, Middlesex, UK.

Visiting Researcher, School of Engineering, Design and Technology, University of Bradford, West Yorkshire, UK, 2007-2008.

Certificate of Excellence, For Organizing A Special Issue on Recent Advances in Composite Materials Technology, Head Office of Sci Pub, New York, USA, 2005.

Certification of Recognition of Five Years of Active Membership in Society of Automotive Engineers Inc. USA, 2004.

NATIONAL LEVEL

BEM Special Mention of International Engineering Award (SMIEA), Board of Engineers, Malaysia. 2025 (to receive the award from Deputy Prime Minister, Malaysia, 22 August 2025).

Frontier Researcher, Malaysia's Research Star Award, Clarivate, Asia pacific, 2025.

Certificate of Appreciation, Anugerah Jasamu dikenang (*Your Contribution is remembered Award*), Persatuan Pembangunan dan Industri Enau, Malaysia *(Society of Sugar Palm Development and Industry Malaysia (PPIEM))*, 2024.

Certificate of Appreciation, publication Award, Persatuan Pembangunan dan Industri Enau, Malaysia (PPIEM), Persatuan Pembangunan dan Industri Enau, Malaysia, *(Society of Sugar Palm Development and*

Industry Malaysia (PPIEM)), 2024.

Visiting Professor, Institute of Energy Infrastructure, Universiti Tenaga Nasional, Kajang, Selangor, 2023-2025.

Successful People in Malaysia, Britishpedia Media Group Sdn Bhd, Kuala Lumpur, 2023.

IET Malaysia Leadership Award (Academic) 2022, IET Malaysia, The Institution of Engineering and Technology Malaysia Network.

PERINTIS Publication Award 2022, Persatuan Saintis Islam Malaysia (*Society of Muslim Scientists Malaysia*).

Visiting Research Fellow, Centre of Automotive and Motorsport Technology (MOTECH), Universiti Malaysia Perlis, 2022-2024.

Ikon Akademia, Ministry of Higher Education, Malaysia, 2022.

Certificate of Practitioner, TRIZ Level 3, 2022, MyTRIZ, Malaysia.

Certificate of Practitioner, TRIZ Level 2, 2021, MyTRIZ, Malaysia.

Certificate of Practitioner, TRIZ Level 1, 2012, MyTRIZ, Malaysia.

Certified TRIZ level 1 Instructor, 2025, MyTRIZ, Malaysia.

PERINTIS Publication Award 2021, Persatuan Saintis Islam Malaysia.

Fellow, Academy of Sciences, Malaysia, 2021.

Visiting Professor, Malaysia Japan International Institute Technology (MJIIT), Universiti Teknologi Malaysia, 2020-2021.

Excellence Speaker Award, 1st International Conference on Multidisciplinary Sciences and Advanced Technologies (ICMSAT) 2020, Sepang, Selangor.

Gold Medal – For Invention - Development of Thermally Stable Photocrystalline Photovoltaic Module Based Biocomposite Materials, Malaysia Technology Expo 2020, Invention and Innovation Awards, Protemp, Kuala Lumpur.

Top Research Scientists Malaysia (TRSM), Academy of Science Malaysia, Kuala Lumpur, 2019.

Honorary Member, Persatuan Pembangunan dan Industri Enau Malaysia (PPIEM), *Society of Sugar Palm Development and Industry Malaysia (PPIEM)* Serdang, Selangor, 2019

Gold, Innovation of Sugar Palm Yarn for Structural Applications, Minggu Penyelidikan & Inovasi 2018 (MPI ’18) (*Research & Innovation Week 2018*).Kuala Nerus, Terengganu, Organized by Universiti Malaysia Terengganu, Universiti Sultan Zainal Abidin (Unisza) and TATI University College.

Anugerah Buku Negara, Buku Umum Terbaik – Kategori – Flora and Fauna - Pokok Enau: Potensi Pembangunan Produk, Penerbit UPM, Yayasan Pembangunan Buku Negara, Kuala Lumpur, 2018.

(National Book, Award, Category of Flora And Fauna, National Book Development Foundation, Kuala Lumpur)

Malaysia's Research Star Award 2018, Prominent Topics in Research, Ministry of Education Malaysia and Elsevier, Asia Pacific.

Pengerusi Pengasas, Persatuan Pembangunan dan Industri Enau Malaysia (PPIEM), Serdang, Selangor, 2017. *(Founding Chairman, Society of Sugar Palm Development and Industry Malaysia (PPIEM)).*

Certificate of Achievement, In Recognition of Excellent Paper for Outstanding Technical Paper Award Based on Published Journal 2016, SAE International Malaysia, 2017, Kuala Lumpur.

Anugerah Buku Negara, Buku Terbitan Luar Negara Terbaik, Composite Materials: Concurrent Engineering Approach, Butterworth-Heinemann, UK, Yayasan Pembangunan Buku Negara, Kuala Lumpur, 2017. *(National Book, Award, Category of Book Published by Overseas Publisher*, Butterworth-Heinemann, UK. *National Book Development Foundation, Kuala Lumpur).*

Certificate of Appreciation, Has been Awarded with the Best Paper in the First Conference on engineering, Technology, and Education 2016 (1st CeTeD '16). Politeknik Merlimau, Melaka.

Visiting Professor, Faculty of Information Sciences and Engineering (FISE), Management & Science University, Shah Alam, Selangor, 2016-2020.

Ahli Pengurusan, Pusat Kecemerlangan Pendidikan Tinggi (HICoE), Tropical Wood and Fiber, INTROP, UPM, Kementerian Pendidikan Tinggi, 2016 dan 2023-2027 sebagai Ahli. *(Recognition as Higher Institution Centre of Excellence (HICoE), COE: Institute of Tropical Forest Forestry and Forest Products (INTROP), Niche Area: Tropical Wood and Fibre* ***(As One of the Management Team Members)).***

Silver Award, BioInnovation Awards 2014, For Invention - In Built-in Lumbar Support for Motor Cycle Seat, Protemp and MARS, Kuala Lumpur.

Anugerah Pengurusan PIBG Cemerlang Sekolah Menengah Bandar, Peringkat Daerah Sepang, Pejabat Pendidikan Daerah Sepang, Selangor, Sesi 2013/2014. Ahli Jawatankuasa Ibu Bapa, PIBG Sekolah Menengah Putra Perdana, Puchong, Selangor, 2014.

Visiting Professor, Faculty of Engineering, Universiti Malaya, 2013-2014.

Rotary Research Awards, The Rotary Club of Kuala Lumpur DiRaja Research Gold Medal foe Excellence in Original Research and Significant Achievement in the Field of Mechanical Engineering, 2012, presented by **Duli Yang Maha Mulia Sultan Sharafuddin Idris Shah Alhaj Ibni Almarhum Sultan Salahuddin Abdul Aziz Shah Alhaj, Sultan Selangor.**

Certificate of Appreciation, Best Scientific Paper and Oral Presenter, UPM-UniKL MICET Symposium on Polymeric Materials 2012, Alor Gajar, Melaka.

The Bronze Award, For Invention of Prototype of an Ergonomic Lumbar Support for Motorcyclist, BioInnovation Awards 2012, MOSTI.

Fellow, Malaysian Scientific Association, 2012.

Certificate of Award, Second Place, with RM300 Cash Prize in the Student Competition 2012, Poster

Category, Composite Industry Association, Malaysia.

Visiting Professor, Faculty of Mechanical Engineering, Universiti Teknikal Malaysia Melaka (UTeM), Melaka, Malaysia, 2011-2013.

Bronze Medal, For Invention – Concurrent Decision Making of the Conceptual Design Stage using Analytical Hierarchy Process, Malaysia Technology Expo 2010, MARS, Kuala Lumpur.

Fellow, The Plastic and Rubber Institute Malaysia (FPRIM), 2010.

Anugerah Penerbitan, Pemenang Pertama, Kategori B Penerbitan Separa/Bukan Teknikal, Institut Penyelidikan Perhutanan Malaysia (FRIM) 2010. *(First Prize, Publication Award (Category: Semi/Non-Technical Publication), Forest Research Institute of Malaysia (FRIM), Kepong, Kuala Lumpur)*

First Runner-up, UTM-Educational Innovation of Motorsport & Automotive Race '10 (EIMA RACE '10), 2010, Kampung Gajah, Perak (Advisor)

First Runner-up, UTM-Educational Innovation of Motorsport & Automotive Race '09 (EIMA RACE '09), 2009, Kampung Gajah, Perak (Advisor).

Silver Medal, For Invention - Polymer Composite Automotive Components, Malaysia Technology Expo 2006, Ministry of Science, Technology and Innovation Malaysia.

Sijil Penghargaan, Saguhati, Pertandingan Menulis Esei Kempen Amalan Pertanian Baik (APB) 2005, Jabatan Perkhidmatan Haiwan Kementerian Pertanian Dan lndustri Asas Tani Malaysia *(Consolation Award, Essay Writing Competition, Campaign of Best Agriculture Practice, Department of Animal Services, Malaysia)*

Fellow, Institute of Materials Malaysia, 2004.

Research Fellow during Sabbatical Leave, Universiti Malaya, Kuala Lumpur, 2002.

INSTITUTION LEVEL

Gold, For Invention – Sustainable Innovation: Arrowroot Starch/CNT Biopolymer Composites for Green Piezoelectric Applications, Engineering Innovation & Exhibition (EIE 2025), Faculty of Engineering, UPM

Gold Medal, Certificate of Award, SULAM Carnival 2025, UPM, 16-17 June 2025.

Anugerah Setia Putra 2025, UPM

Gold Award, From plant to plate: Sustainable roselle fiber diningware, SULAM Innovate Showcase & Symposium (SUISS 2024), Universiti Malaysia Kelantan, 1-2 July 2024.

Gold Award, Blending sustainable design with bio-composites for school education: A pathway towards a sustainable future, SULAM Innovate Showcase & Symposium (SUISS 2024), Universiti Malaysia Kelantan, 1-2 July 2024.

Certificate of Appreciation, Supervisor for Abir Khan, Who has Successfully Graduated on Time in 2024, UPM.

Certificate of Appreciation, Supervisor for Nurul Ain Maidin, Who has Successfully Graduated on Time in 2024, UPM.

Certificate of Appreciation, For Excellence Performance in Teaching Assessment Score for First Semester 2023/2024, Faculty of Engineering, UPM

Certificate of Appreciation, For Excellence Performance in Teaching Assessment Score for Second Semester 2023/2024, Faculty of Engineering, UPM

Anugerah Penyelidik Cemerlang (Kategori Profesor), Fakulti Kejuruteraan, UPM, 2024.

Certificate of Appreciation, For Excellence Performance in Teaching Assessment Score for Second Semester 2022/2023, Faculty of Engineering, UPM

Honourable Mention by Pro Chancellor during UPM Convocation 2023, Recognition of Prestigious Academia, Willam Johnson International Gold Medal.

Gold, Certificate of Appreciation, For Invention – Nanocellulose Graphene Reinforced Green Epoxy Hybrid Composites for Electric Car Battery Pack Enclosure, Engineering Innovation & Exhibition 2023 (EIE 2023), Faculty of Engineering, UPM.

Felo Bersekutu, Pusat Pembangunan dan Kecemerlangan kepimpinan Akdemik (CADe-Lead), UPM, 2023-2024.

Anugerah Perkhidmatan Cemerlang 2022, UPM (Quota Profesor).

Sijil Penghargaan, Anugerah Tokoh Pekerja (Kategori Pegawai P&P Akademik), Sempena Majlis Gemilang PUTRA 2022.

Certificate of Appreciation, For Excellence Performance in Teaching Assessment Score for Second Semester 2021/2022, Faculty of Engineering, UPM

Sijil Perkhidmatan Cemerlang, 2020, UPM.

Anugerah Fellowship Naib Canselor 2021, Anugerah Khas Akademia Putra, UPM. disampaikan oleh **Duli Yang Teramat Mulia (DYTM) Tengku Amir Shah ibni Sultan Sharafuddin Idris Shah, Raja Muda Selangor.**

Certificate of Appreciation, Supervisor for Alaaeddin MH Abed, Who has Successfully Graduated on Time in 2020, UPM.

Certificate of Appreciation, Supervisor for Noryani Mohammad Who has Successfully Graduated on Time in 2020, UPM.

Certificate of Appreciation, Supervisor for Mohamed Ibrahim J Ibrahim Who has Successfully Graduated on Time in 2020, UPM.

Sijil Perkidmatan Cemerlang 2019, UPM.

Certificate of Appreciation, Supervisor for Muhammad Huzaifah Mohd Roslim Who has Successfully Graduated on Time in 2019, UPM.

Sijil Kepujian, Dr Ahmad Ilyas Rushdan, Pemenang Pingat Emas Doktor Falsafah Malaysian Vaccines and Phasrmaceuticals Bagi Sesi Akademik 2018/2019, UPM (Saya adalah Penyelia Utama PhD beliau).

Certificate of Appreciation, Supervisor for Ahmed Ilyas Rushdan Who has Successfully Graduated on Time in 2019, UPM.

Silver, - For Invention – Development of Thermally Stable Photocrystalline Photovoltaic Module Based Biocomposite Materials, Engineering Innovation and Exhibition 2019 (EIA 2019), Innovation Awards, Faculty of Engineering, UPM.

Sijil Penghargaan Setia Putra, Perhargaan Atas Khidmat Setia Selama Lebih 20 tahun, 2019, UPM.

INTROP Distinguished Researcher Award 2019, INTROP, UPM.

Certificate of Appreciation, Supervisor for Ahmed Faraj Ibrahim Hissen Edhirej Who has Successfully Graduated on Time in 2018, UPM.

Sijil Penghargaan, Anugerah Perkidmatan Cemerlang 2018, UPM.

Sijil Penghargaan, Anugerah Kecemerlangan dalam Pengajaran Semester I 2018/2019 (Pasca-Siswazah), Fakulti Kejuruteraan, UPM.

Sijil Penghargaan, Anugerah Kecemerlangan dalam Pengajaran Semester II 2017/2018 (Pra-Siswazah), Fakulti Kejuruteraan, UPM.

Majlis Apresiasi Penyelidikan 2017, Penerima Anugerah Makalah Jurnal, Kluster Sains dan Teknologi, UPM.

Certificate of Appreciation, Supervisor for Nadlene Razali who has Successfully Graduated on Time in 2017, UPM.

Sijil Penghargaan, Anugerah Kecemerlangan dalam Pengajaran Tahun 2017, Fakulti Kejuruteraan, UPM.

Anugerah Fellowship Naib Canselor 2016, Pemenang Kategori Penyelidik Cemerlang, Kluster Sains dan Teknologi, UPM, disampaikan oleh **Duli Yang Maha Mulia Sultan Sharafuddin Idris Shah Alhaj Ibni Almarhum Sultan Salahuddin Abdul Aziz Shah Alhaj, Sultan Selangor.** (Hadiah Geran - RM 10,000)

Anugerah Fellowship Naib Canselor 2016, Pemenang Kategori Penerbitan Makalah Jurnal, Kluster Sains dan Teknologi, UPM, disampaikan oleh **Duli Yang Maha Mulia Sultan Sharafuddin Idris Shah Alhaj Ibni Almarhum Sultan Salahuddin Abdul Aziz Shah Alhaj, Sultan Selangor.** (Hadiah Geran - RM 5,000)

Majlis Apresiasi Penyelidikan 2016, Penerima Insentif Makalah Jurnal 2016, UPM.

Sijil Penghargaan, Anugerah Perkhidmatan Cemerlang 2016, UPM.

Silver Medal – For Invention – Sugar Palm-Based Products, Pameran Rekacipta, Penyelidikan dan Inovasi 2016 (PRPi2016), UPM.

Silver Medal – For Invention – Development of Post Conditioning Injection Process, Pameran Rekacipta,

Penyelidikan dan Inovasi 2016 (PRPi2016), UPM.

Sijil Penghargaan, Anugerah Perkhidmatan Cemerlang 2015, UPM.

Certificate of Appreciation, Supervisor for Muhd Ridhuan Mansor who has Successfully Graduated on Time in 2015, UPM.

Certificate of Appreciation, Supervisor for Ridwan Yahaya who has Successfully Graduated on Time in 2015, UPM.

Certificate of Appreciation, Supervisor for Mohd Azaman Md Deros Who has Successfully Graduated on Time in 2015, UPM.

Certificate of Appreciation, Supervisor for Faris Mohammed Khair Faris Al-Oqla Who has Successfully Graduated on Time in 2015, UPM.

Certificate of Appreciation, Supervisor for Faris Mohammed Khairul Azhar Mohammad Who has Successfully Graduated on Time in 2015, UPM.

Sijil Penghargaan, Anugerah Perkhidmatan Cemerlang 2014, UPM.

Certificate of Appreciation, The Co-Supervisor for Mehran Masoudi, Who has been Awarded a PhD with Distinction in 2013, UPM.

Sijil Penghargaan, Anugerah Penyelidik Cemerlang Tahun 2013 (Kategori Profesor), Fakulti Kejuruteraan, UPM.

Certificate of Achievement, In Recognition of Outstanding Achievement as a 5-Star Role Model Supervisor, 2013, UPM.

Sijil Penghargaan, Anugerah Perkhidmatan Cemerlang 2013, UPM.

Sijil Penghargaan, Anugerah Kecemerlangan dalam Pengajaran Tahun 2012, Fakulti Kejuruteraan, UPM.

Bronze Medal, For Invention – Reduction of Water Uptake of Composite through Hybridization, Pameran Reka Cipta, Penyelidikan dan Inovasi (PRPi11) UPM 2011.

Silver Medal, For Invention – Potential of Pineapple Leaves as a Substitute to Glass Fibre in Hybridized Composites, Pameran Reka Cipta, Penyelidikan dan Inovasi (PRPi11) UPM 2011.

Silver Medal, For Invention – High Moisture Durability of Molded Biocomposite, Pameran Reka Cipta, Penyelidikan dan Inovasi (PRPi11) UPM 2011.

Sijil Penghargaan, Anugerah Penyelidik Cemerlang Tahun 2011, Fakulti Kejuruteraan, UPM.

Sijil Penghargaan, Anugerah Kecemerlangan dalam Pengajaran Tahun 2011, Fakulti Kejuruteraan, UPM.

Sijil Penghargaan Perkhidmatan Cemerlang 2010, UPM.

Sijil Penghargaan, Anugerah Penyelidik Cemerlang 2010, Fakulti Kejuruteraan, UPM.

Silver Medal, For Invention – Design and Prototype of Ergonomic-Back Leaning Posture Support for Motorbike Riders, Pameran Reka Cipta, Penyelidikan dan Inovasi (PRPi10) UPM 2010.

Silver Medal, For Invention – Development of Ijuk (Arenga Pinnata) Fibre Biocomposite for Small Boat Application, Pameran Reka Cipta, Penyelidikan dan Inovasi (PRPi10) UPM 2010.

Bronze Medal, For Invention – Fabrication Functionally Graded Materials, Pameran Reka Cipta, Penyelidikan dan Inovasi (PRPi10) UPM 2010.

Sijil Penghargaan, Anugerah Perkhidmatan Cemerlang 2009, UPM.

Silver Medal, For Invention – Concurrent Decision Making of the Conceptual Design Stage using Analytical Hierarchy Process, Pameran Reka Cipta, Penyelidikan dan Inovasi (PRPi09) UPM 2009.

Bronze Medal – For Invention – Design and Fabrication of a Student Competition Based Racing Car, Pameran Reka Cipta, Penyelidikan dan Inovasi (PRPi09) UPM 2009.

Sijil Penghargaan, Kecemerlangan dalam Pengajaran Tahun 2009, Fakulti Kejuruteraan, UPM

Anugerah Penyelidik Cemerlang 2008, Penerima Insentif Penerbitan Kategori Profesor 2008, UPM

Anugerah Penyelidik Cemerlang 2008, Pemenang Anugerah Khas Antarabangsa 2008, ISESCO Science Prize 2008, UPM

Sijil Penghargaan, Memberi Perkhidmatan Cemerlang dalam Pengajaran dalam Pengajaran Tahun 2008, Fakulti Kejuruteraan, UPM.

Anugerah Kecemerlangan dalam Penyelidikan, Anugerah Kecemerlangan Fakulti, 2008.

Anugerah Hadiah Fellowship Naib Cancelor 2008, kerana Menunjukkan Kecemerlangan dalam Penyelidikan, UPM (Geran RM 10,000).

Anugerah Penyelidik Cemerlang 2007, Anugerah Insentif Penerbitan, UPM.

Sijil Penghargaan, Perkhidmatan Cemerlang Dalam Pengajaran Tahun 2007, Fakulti Kejuruteraan, UPM.

Sijil Perkhidmatan Cemerlang 2006, UPM.

Bronze Medal, For Invention - Design and Development of Fluidized Bed Gasifier Using Oil Palm Biomass for Energy Generation, Pameran Reka Cipta, Penyelidikan Dan Inovasi UPM, 2006.

Sijil Perkhidmatan Cemerlang 2005, UPM.

Sijil Penghargaan, Anugerah Penyelidik Cemerlang 2005, Anugerah Penerbitan Cemerlang bagi Penerbitan Jurnal Tertinggi Tahun 2005, UPM. *(Excellence Researcher Award, (Highest Number of Citation Indexed Journal Papers year 2025), UPM).*

Silver Medal, For Invention - Design and Fabrication of Filament winding Machine,, Pameran Reka Cipta, Penyelidikan & Inovasi, UPM 2005 Invention.

Bronze Medal, For Invention – Analysis and Fabrication of Injection Moulded Glass Reinforced

Polyamide Composite Automotive Clutch Pedal, Pameran Reka Cipta, Penyelidikan & Inovasi, UPM 2005.

Bronze Medal, For invention - Fretting Fatigue Test Rig, Pameran Reka Cipta, Penyelidikan & Inovasi, *(Invention, Research and Innovation Exhibition (PRPI2005)*), UPM.

Sijil Perkhidmatan Cemerlang 2004, UPM.

Sijil Perkhidmatan Cemerlang 2003, UPM.

Sijil Penghargaan, Kerana Kejayaan Cemerlang Fakulti Memenangi Anugerah Kualiti Ketua Setiausaha Negara 2003 dan Anugerah Kualiti Dato' Menteri Besar Selangor 2002.

Sijil Perkhidmatan Cemerlang 2002, UPM.

Anugerah Karyawan PUTRA Cemerlang, Anugerah Penerbitan 2002, UPM, (*Excellence Putra Author Award, Publication Award*) presented by **Duli Yang Maha Mulia Sultan Sharafuddin Idris Shah Alhaj Ibni Almarhum Sultan Salahuddin Abdul Aziz Shah Alhaj, Sultan Selangor.** (Prize - RM 10,000)

Certificate of Award, Bronze Medal, Invention and Research Innovation 2002, UPM, title - Woven Banana Fibre/Epoxy Composite.

Bronze Medal, R & D Exhibition, Faculty of Engineering 2002, UPM, 30 July - 1 August 2002.

Sijil Peghargaan Perkhidmatan Cemerlang 2001, UPM.

Sijil Penghargaan, Anugerah Perkhidmatan Berkualiti 1999, Fakulti Kejurureraan, UPM

Sijil Peghargaan, Perkhidmatan Cemerlang tahun 1998, Fakulti Kejuruteraan, Universiti Putra Malaysia (UPM)

FELLOWSHIPS

Fellow, The World Academy of Sciences, Italy, 2024

Fellow, Society of Automotive Engineers International, USA, 2015

Fellow, Institute of Materials Malaysia, 2004

Fellow, Plastic and Rubber Institute Malaysia, 2010

Fellow, Malaysian Scientific Association, 2012

Fellow, Academy of Sciences, Malaysia, 2021

Fellow, International Society for Development and Sustainability, Japan, 2022

Fellow of Industry Academy, International Artificial Intelligence Industry Alliance, Hong Kong, 2024

Research Fellow, Centre of Automotive & Motorsport Technology, (MOTECH), Universiti Malaysia Perlis, 2022

Research Fellow, Faculty of Engineering, Universiti Malaya, 2002

Associate Fellow, Centre of Academic Development and Leadership (CADE-Lead), Universiti Putra Malaysia, 2023.

Founding Fellow, International Academy of Bionic Science (IABC), Society of Bionic Engineering (ISBE), Jilin University, China, 2025.

WORKING EXPERIENCES 35 years

S. No.	Positions held	Name of the Institute	From	To
1	Visiting Professor	National Research and Innovation Agency (BRIN), Cibinong, Bogor Regency, West Java, Indonesia	2024	**2024**
2.	Honorary Adjunct Professor	National Textile University, Faisalabad, Pakistan	2023	**2026**
3.	Visiting Professor	Universiti Tenaga Nasional Malaysia	2023	**2025**
4.	Visiting Professor (World Class Professor)	Universitas Andalas, Padang, Indonesia	22 May 2023	**27 May 2023**
5.	Chief Executive Editor	Pertanika Journals,, Universiti Putra Malaysia	2022	**2024**
6.	Founding Head	Advanced Engineering Materials and Composites Research Centre (AEMC) Faculty of Engineering, Universiti Putra Malaysia	2018	**2025**
7.	Head	Biocomposite Technology Laboratory Institute of Tropical Forestry and Forest Product (INTROP) Universiti Putra Malaysia	May 2020	**2022**
8.	Visiting Professor	MJIIT, Universiti Teknologi Malaysia, Kuala Lumpur	2020	**2021**
9.	Professor of Composite Materials (A Grade (JUSA A – VK5).	Department of Mechanical and Manufacturing Engineering, Universiti Putra Malaysia, 43400 Serdang, Selangor, Malaysia	2019	**Till Now**

10.	Research Associate (Appointed by Deputy Vice Chancellor, Research and Innovation)	Biocomposite Technology Laboratory Institute of Tropical Forestry and Forest Product (INTROP) Universiti Putra Malaysia	2019	**2021**
11.	Visiting Professor	SUPMECA – Institut superior de mecanique de Paris, 3 Rue Fernand Hainaut, 93407 Saint-Ouen, Cedex, France	2 September 2019	**13 Sep 2019**
12.	Research Associate Research Advisor	Biocomposite Technology Laboratory Institute of Tropical Forestry and Forest Product (INTROP) Universiti Putra Malaysia	2017	**2019**
13.	Visiting Professor/ External Examiner	Mechanical Engineering Field Faculty of Information Sciences and Engineering (FISE) Management & Science University (MSU) Shah Alam, Selangor, Malaysia	2016	**2020**
14.	Head of Research Cluster (Materials Science and Technology)	Universiti Putra Malaysia	2015	**Till now**
15.	Head (Appointed by Vice Chancellor, UPM)	Laboratory of Biocomposite Technology, Institute of Tropical Forestry and Forest Products (INTROP), Universiti Putra Malaysia (Part of Higher Institution Centre of Excellence (HICoE) in Tropical Wood and Fiber))	2014	**2017**
16.	Principal Researcher	Aerospace Manufacturing Innovation Research Centre (AMRC), Faculty of Engineering, UPM	2014	**2017**
17.	Visiting Professor	Aligarh Muslim University, Aligarh, Uttar Pradesh, India	Feb 2014	**March 2014**
18.	Visiting Professor (Sabbatical leave)	Centre of Manufacturing Integration, Faculty of Engineering, Universiti Malaya, Kuala Lumpur	2013	**2014**

19.	Head of Research Program, UPM (Appointed by Deputy Vice Chancellor (Research and Innovation), UPM	Composites Technology Research Program, UPM • Engineering Composites Research Group • Bio-Composites Technology Research Group This Research Program is under the Cluster of Materials Science and Technology	2013	**2015**
20.	Research Advisor	Laboratory of Biocomposite Technology, Institute of Tropical Forestry and Forest Product (INTROP), Universiti Putra Malaysia	2013	**2015**
21	Research Associate	Aerospace Manufacturing Research Centre (AMRC), Faculty of Engineering, UPM	2012	**2014**
22.	Visiting Professor	Universitas Malahayati, Bandar Lampung, Indonesia	2012	**2012**
23.	Head	Postgraduate Program in Advanced Composite Materials, Department of Mechanical and Manufacturing Engineering, Universiti Putra Malaysia	2012	**2014**
24.	Professor of Composite Materials (B Grade (JUSA B – VK6).	Department of Mechanical and Manufacturing Engineering, Universiti Putra Malaysia, 43400 Serdang, Selangor, Malaysia Date of Interview: 29 September 2011	2011	**2019**
25.	Research Associate	Materials Technology and Processing Laboratory, Institute of Advanced Technology, UPM	2012	**2015**
26.	Research Associate	Laboratory of Advanced Materials and Nanotechnology, Institute of Advanced Technology, UPM	2011	**2013**
27.	Visiting Professor	Faculty of Mechanical Engineering, Universiti Teknikal Malaysia Melaka	2011	**2013**
28.	Research Coordinator	Department of Mechanical and Manufacturing Engineering, UPM	2011	**2013**
29.	Research Associate	Biocomposite Technology Laboratory, Institute of Tropical Forestry and Forest Product (INTROP) UPM	2010	**2014**
30.	Head of Program (Structural Composites)	Advanced Materials and Nanotechnology Laboratory, Institute of Advanced Technology (ITMA)UPM	2009	**2012**

31.	Head (Appointed by Vice Chancellor, UPM)	Department of Mechanical and Manufacturing Engineering, UPM	2008	**2011**
32.	Research Associate	Advanced Materials and Nanotechnology Laboratory, Institute of Advanced Technology (ITMA)UPM	2009	**2010**
33.	Research Coordinator	Department of Mechanical and Manufacturing Engineering, UPM	2008	**2008**
34.	Head of Program	Advanced Composite Materials, Advanced Materials and Nanotechnology Laboratory, Institute of Advanced Technology (ITMA), UPM	2008	**2009**
35.	Head	Field of Study with Thesis (Materials Engineering) Department of Mechanical and Manufacturing Engineering, UPM	2007	**2009**
36	Founding Head	Engineering Composites Research Group (ECRG) Faculty of Engineering, Universiti Putra Malaysia	2009	**2018**
37.	Head	Laboratory of Engineering Design Department of Mechanical and Manufacturing Engineering, UPM	2007	**2008**
38.	Head	Research Area (Materials Engineering) of Research Area (Materials Engineering) Department of Mechanical and Manufacturing Engineering, UPM	2007	**2008**
39.	Visiting Academic (Sabbatical Leave)	School of Engineering, Design and Technology, University of Bradford, Bradford, BD7 1DP, UK	2007	**2008**
40.	Professor of Composite Materials (C Grade (JUSA C – VK7).	Department of Mechanical and Manufacturing Engineering, UPM	2007	**2011**
41.	Coordinator	Laboratory of Engineering Design Department of Mechanical and Manufacturing Engineering, UPM	2006	**2006**
42.	Associate Professor	Department of Mechanical and Manufacturing Engineering, UPM	2002	**2007**
43.	Research Associate	Advanced Materials Laboratory Institute of Advanced Technology (ITMA), Universiti Putra Malaysia	2001	**2006**
44.	Visiting Lecturer (Sabbatical Leave)	Department of Engineering Design and Manufacture Universiti Malaya, Kuala Lumpur, Malaysia	2001	**2002**
45.	Head (Appointed by Vice Chancellor, UPM)	Advanced Materials Research Centre Institute of Advanced Technology (ITMA), UPM	Feb 2001	**August**

		(Dual appointment)		**2001**
46.	Acting Head	Advanced Materials Research Centre Institute of Advanced Technology (ITMA), UPM	2000	**2000**
47.	Lecturer (Founder Staff)	Advanced Materials Research Centre Institute of Advanced Technology (ITMA), UPM (Dual appointment)	1999	**2001**
48.	Coordinator of Final Year Project	Dept of Mechanical and Manufacturing Engineering, UPM	1998	**2000**
49.	Lecturer	Dept of Mechanical and Manufacturing Engineering, UPM	1998	**2002**
50.	Tutor	Dept of Mechanical and Manufacturing Engineering, UPM	1996	**1998**
51.	Tutor	Dept of Mechanical and Systems Engineering, UPM	1994	**1996**
52.	Executive Officer	R&D Department, Perusahaan Otomobil Nasional Berhad (PROTON), HICOM Industrial Estate, Batu 3, Shah Alam, Selangor, Malaysia	7 June 1993	**27 September 1993**
53.	Tutor	Department of Mechanical Engineering, Universiti Malaya	1993	**1993**
54.	Research Assistant	Department of Chemical Engineering, Universiti Malaya	1990	**1993**

MEMBERSHIP OF PROFESSIONAL SOCIETIES

Professional Engineer with Practicing Certificate, Board of Engineers, Malaysia (PEng)

Honorary Member and Founding Chairman, Society of Sugar Palm Development and Industry, Malaysia

Honorary Life Member and Vice President (2008-2017), Asian Polymer Association, IIT DeLhi, India

Life Member, Institute of Energy, Malaysia

Member, American Chemical Society (2021)

Member, International Association of Engineers

Member, National Professor Council

Member, Friends of Environments, Malaysia

Member, Malaysia Design Council

Member, International Society of Bionic Engineering

Member, International Network on Engineering Education

and Research (iNEER)

Member, Australian Materials Research Society

Member, Design Research Society (1995-1998)

Member, and Committee Member, Islamic Engineers Association, Malaysia (2003-2005)

Certified MyTRIZ Level 3 Practitioner

Bagan Datuk Doctorate Association

VISITING PROFESSOR/ RESEARCH ATTACHMENT

Sabbatical leave, Faculty of Engg, Univesiti Malaya, 2001-02, 2013-14

Visiting Researcher, Sabbatical Leave, University of Bradford, UK, 2007-08

Visiting Professor, Universitas Malahayati, Bandar Lampung, Indonesia, 2012

Aligarh Muslim University, India, 2014

Visiting Professor/Adjunct Professor, Management and Science University (MSU), Shah Alam, Selangor, 2016-2020, 2020- 2023

Visiting Professor, Universiti Teknikal Malaysia Melaka, 2011-2013

Universitas Abulyatama, Aceh, Indonesia, 2016, 2019

SUPMECA, St Ouen, Paris, France, 2019

Universitas Jember, Indonesia, 2019

Visiting Professor, MJIIT, Universiti Teknologi Malaysia, 2020

Research Fellow, Universiti Malaysia Perlis, 2022-2024

Visiting World Class Professor, Universitas Andalas, Indonesia, World Class University Program 2023

Visiting Professor, Universiti Tenaga Nasional (UNITEN), Kajang, Malaysia, 2023-2025

Honorary Adjunct Professor, National Textile University, Pakistan, 2023-2026

School of Mechanical and Aerospace Engineering, Queen's University, Belfast, Northern Ireland, UK, 2024

Visiting Professor, BRIN (National Research and Innovation Agency), Cibinong,

Bogor Regency, West Java, Indonesia, 2024

University of Kamalia, Pakistan, 2025

Institut Teknologi Batam, Indonesia, 2023

UCSI University, Kuala Lumpur 2016-2025

LANGUAGE SKILL Malay (Written and Spoken) Fluent

English (Written and Spoken) Fluent

Urdu (Spoken) Fluent (Written) Fair

Javanese (Spoken) Fluent

Arabic (Spoken) Fair

Bangladeshi (Spoken) Fair

Turkish (Spoken) Fair

Hindi (Spoken) Fair

Indonesia (Spoken) Good (Written) Good

MEMORANDUM OF UNDERSTANDING (MOU)/AGREEMENT (MOA)/NON DISCLOSURE AGREEMENT (NDA) SIGNED = 13 DOCUMENTS

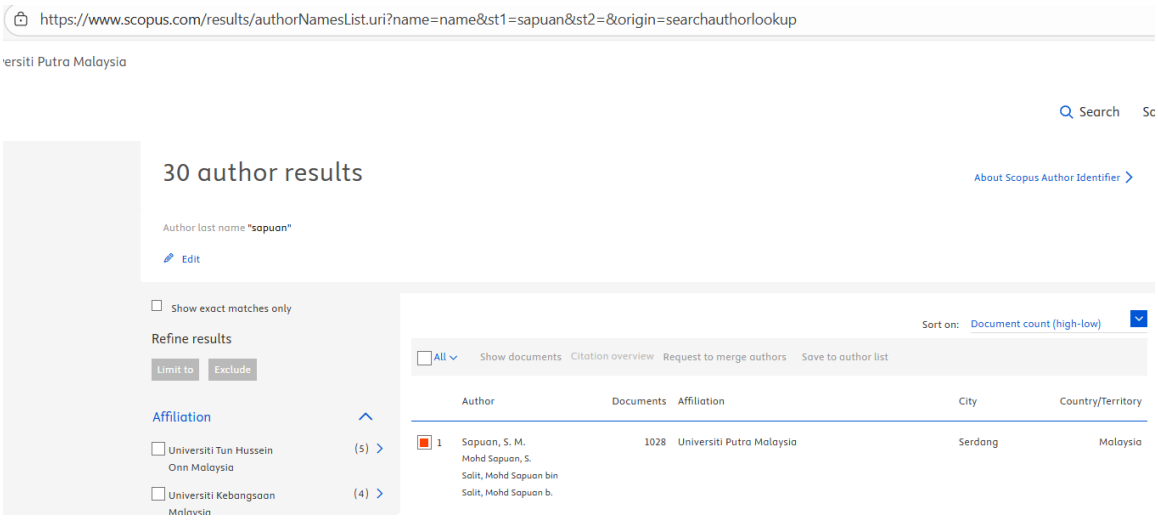
PUBLICATIONS

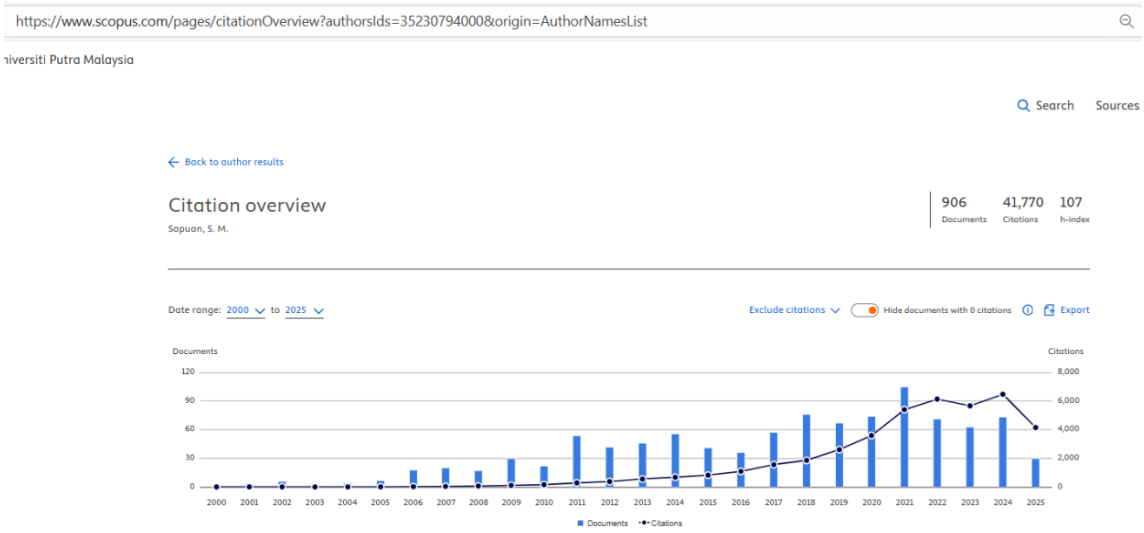
- Policy papers = 5
- Journal papers in total =1006
- Journal papers in Journal Citation Reports (JCR) with Impact factor > 530
- Journal papers in Scopus = 232
- Journal papers in other indexed databases =23
- Journal papers indexed (combined) = 826
- Non indexed journal papers = 178
- Journal special issues = 33
- Authored books published = 17

- Edited books published = 58
- Chapters in books =269
- Conference/Seminar Proceedings edited = 32
- Plenary and Keynote lectures = 84
- Distinguished Lecture = 2
- Inaugural Lecture = 1
- Public Lectures = 6
- Invited lectures = 89
- Invited Publication/motivation seminars = 90
- Papers published in proceedings = 450
- Papers presented in conferences with book of abstract = 118
- Papers presented in seminars/conferences = 85
- Posters/exhibition presented = 89
- TV interviews = 2
- Magazines/bulletins/newsletters = 61
- Reports = 55

H-INDEX, CITATIONS, EDITORSHIP OF ARCHIVAL JOURNALS

- Scopus, h-index = 107; number of citations = 41,770





- Google Scholar, h index = 128; number of citations = 59,886 - link S.M. Sapuan, PhD, FTWAS, FSAE, FASc - Google Scholar https://scholar.google.com/citations?user=unN9lzMAAAAJ&hl=en
- Journal Editorial board member (over 30 journals)
- Founding Editor-in-Chief, Journal of Natural Fibre Polymer Composites, (2022-now)
- Co-Editor in Chief, Functional Composites and Structures, IOP Publication, UK (Scopus, ESCI) (Impact factor = 3.1) (Q2) (2020-now)
- Chief Executive Editor, Pertanika journals, UPM (ESCI and Scopus) (Impact factor = 0.6) (Q3) for all three journals (till Nov 2024)
- Advisory Board Member for Semarak Ilmu Publishing, Malaysia (2024-now).
- Editorial Board Member, Journal of Reinforced Plastics and Composites, Sage Publication (Q2, JCR)
- Editorial Board Member, Journal of Renewable Materials, Tech Science Press, USA (Scopus)
- Associate Editor-in-Chief, Defence Technology, Elsevier/ KeAi Publishing (Impact factor = 5.0) (Q1, JCR) (2022-now)
- Section Editor, Polymers, MDPI (Q1, WoS) (2021-2024)
- Non-Linear Engineering, De Gruyter (Scopus, SCIE) (Impact factor 8.3)
- Current Materials Science, Bentham, UAE (Scopus)
- Section Editor ASM Journal, Academy of Science Malaysia (Scopus) (2024-now)
- Editor-In-Chief, International Journal of Engineering and Sciences, Universitas Malahayati, Lampung, Indonesia (till 2014)
- Editor-In-Chief, International Journal of Engineering and Applied Research, New Delhi, India (SCOPUS) (till 2012)
- Honorary Editorial Board Member, Pertanika Journal of Scholarly Research Reviews – JSRR, Journal Division, UPM Press, Universiti Putra Malaysia
- Member of Editorial Board, Malaysian Jornal on Composites Science and Manufacturing (MJCSM), (Scopus) 2025-2028.

- Editorial Board member, The Journal of Sustainable Smart Materials and Structural Systems (JSSMSS), UniKL, MIMET, Lumut, Perak, Malaysia, 2025-now.
- And organized over 31 special issues in journals as guest editor
- Reviewer of more than1500 journal papers and 52 book and book proposals

TEACHING EXPERIENCE Postgraduate and undergraduate teaching from 1998-2025; 75 times from 22 different courses

Teaching Portfolio of Professor Ir Dr Mohd Sapuan Sapuan bin Salit
Comprehensive Teaching Portfolio

Professor Mohd Sapuan Salit has been teaching 65 times for 16 different courses at undergraduate level and 10 times for six different courses at postgraduate level. Teaching evaluation from the students for majority of the courses were quite high with the average score of more than 4.5/5. He has won several teaching awards such as Certificate of Appreciation, Excellence Service in Teaching year 2007, Faculty of Engineering, UPM, Certificate of Appreciation, for Providing Excellent Service in Teaching year 2008, Faculty of Engineering, UPM, Certificate of Appreciation, Excellence in Teaching year 2009, Faculty of Engineering, UPM, Certificate of Appreciation, Excellence in Teaching year 2011, Faculty of Engineering, UPM, Certificate of Appreciation, Excellence in Teaching year 2012, Faculty of Engineering, UPM, Certificate of Appreciation, Excellence in Teaching year 2017, Faculty of Engineering, UPM, Certificate of Appreciation, Excellence in Teaching Semester II 2017/2018 (Undergraduate), Faculty of Engineering, UPM, Certificate of Appreciation, Excellence in Teaching Semester I 2018/2019 (Postgraduate), Faculty of Engineering, UPM, Certificate of Appreciation, For Excellence Performance in Teaching Assessment Score for Second Semester 2021/2022, Faculty of Engineering, UPM Certificate of Appreciation, For Excellence Performance in Teaching Assessment Score for Second Semester 2022/2023, Faculty of Engineering, UPM Certificate of Appreciation, For Excellence Performance in Teaching Assessment Score for First Semester 2023/2024, Faculty of Engineering, UPM, Certificate of Appreciation, For Excellence Performance in Teaching Assessment Score for Second Semester 2023/2024, Faculty of Engineering, UPM.

No.	Code and Name of Courses	Credit Hour	Number of Students	Teaching Assessment	Semester/Academic Year
Undergraduate levels					
1	KMP 3303 Applied Fluid Mechanics	3	80	Shared course	May 1998/1999
2	KMP 3403 Composite Material Technology	3	13	-	Nov. 1998/1999
3	KS 351/KMP 3603 Engineering Design 1	3	81	-	Nov. 1998/1999
4	KCEP 3301 Concurrent Engineering **(INVITED LECTURER AT**	3	20	-	Semester 2 1998/1999

	CAD/CAM UNIT, FACULTY OF ENGINEERING, UNIVERSITI MALAYA)				
5	KS 352 Engineering Design 11	3	5	-	May 1999/2000
6	KMP 3605 Engineering Design 11	3	84	-	May 1999/2000
7	KMP 3303 Applied Fluid Mechanics	3	83	3.5/5	May 1999/2000
8	KMP 3403 Composite Materials Technology	3	12	4.16/5	Nov. 1999/2000
9	KMP 3603 Engineering Design 1	3	82	3.68/5	Nov. 1999/2000
10	KMP 3603 Engineering Design 1 **(INVITED LECTURER AT KOLEJ IKRAM, KAJANG)**	3	20	-	Nov. 1999/2000
11	KMP 3303 Applied Fluid Mechanics	3	82	3.7/5	May 2000/2001
	KMP 3603 Engineering Design 1	3	80	3.8/5	Nov. 2000/2001
12	KMEB 2126 Composite Materials **(INVITED LECTURER AT DEPARTMENT OF MECHANICAL ENGINEERING, UNIVERSITI MALAYA)**	3	15	-	Semester 2, 2000/2001
13	KMP 3303 Applied Fluid Mechanics 1	3	81	3.9/5	May 2001/2002

NO TEACHING ASSIGNMENT – SABBATICAL LEAVE AT UNIVERSITI MALAYA DURING NOV 2001/2002 SEMESTER					
14	KMP 3303: Applied Fluid Mechanics	3	32	3.98/5	May 2002/2003
15	KAW 3911: Engineer and Society	3	82	4.30/5	May 2002/2003
16	KMP 3903 Industrial Management 1	3	30	3.83/5	Nov 2002/2003
17	KMP 3305 Advanced Fluid Mechanics	3	17	4.45/5	Nov 2002/2003
18	KMP 3303: Applied Fluid Mechanics	3	51	4.14/5	May 2003/2004
19	KAW 3911: Engineer and Society	3	40	4.34/5	May 2003/2004
20	KMP 3305 Advanced Fluid Mechanics	3	22	4.14/5	Nov 2003/2004
21	KMP 3303: Applied Fluid Mechanics	3	51	3.84/5	Semester 1 2004/2005
22	KMP 3405: Fabrication and Characterization of Composite Materials	3	14	4.14/5	Semester 1 2004/2005
23	KMP 3305: Advanced Fluid Mechanics	3	8	4.82/5	Semester 2 2004/2005
24	KMP 3307 Tribology	3	6	4.92/5	Semester 2 2004/2005
25	KMP 3405: Fabrication and Characterization of Composite Materials	3	43	4.25/5	Semester 1 2005/2006
26	KMP 3603: Engineering Design I	3	58	3.96/5	Semester 1 2005/2006
27	KMP 3305: Advanced Fluid Mechanics	3	28	4.29/5	Semester 2 2005/2006
28	KAW 3911: Engineers and Society	3	35	4.74/5	Semester 1 2006/2007

29	KMP 3405: Fabrication and Characterization of Composite Materials	3	32	4.32/5	Semester 1 2006/2007
30	KMP 3307: Tribology	3	38	4.15/5	Semester 2 2006/2007
31	KMP 3305: Advanced Fluid Mechanics	3	36	4.07/5	Semester 2 2006/2007
NO TEACHING ASSIGNMENT DURING SEMESTER 1 2007/2008 AND SEMESTER 2 2007/2008, SABBATICAL LEAVE AT UNIVERSITY OF BRADFORD, UK					
32	KMP 3405: Fabrication and Characterization of Composite Materials	3	29	4.64/5	Semester 1 2008/2009
33	EMM 3100: Engineering Materials	3	50	No assessment – half semester only, assigned to another lecturer as I was appointed Head of Department	Semester 1 2008/2009
34	ECV 3001: Engineers and Society	3	96	4.03/5	Semester 1 2009/2010
35	EMM 3402: Fabrication and Characterization of Composite Materials	3	63	4.36/5	Semester 2 2009/2010
36	ECV 3001: Engineers and Society	3	44	3.7/5	Semester 1 2010/2011
37	EMM 3402: Fabrication and Characterization of Composite Materials	3	50	3.95/5	Semester 2 2010/2011
38	EMM 3402: Fabrication and Characterization of Composite Materials	3	41	4.71/5	Semester 2 2011/2012
39	ECV 3001: Engineers and Society	3	47	4.31/5	Semester 1 2012/2013
40	EMM 3402: Fabrication and Characterization	3	41	3.42/5	Semester 2 2012/2013.

	of Composite Materials				
NO TEACHING ASSIGNMENT DURING SEMESTER 1 2013/2014 AND SEMESTER 2 2013/2014, WENT FOR SABBATICAL LEAVE AT UNIVERSITI MALAYA					
41	EMM 4404: Fabrication and Characterization of Composite Materials	3	40	4.3/5	Semester 1 2014/2015.
42	ECV 3001: Engineers and Society	3	41	4/5	Semester 2 2014/2015
43	EMM 4404: Fabrication and Characterization of Composite Materials	3	32	4.72/5	Semester 1 2015/2016.
44	EMM 4404: Fabrication and Characterization of Composite Materials	3	22	4.72/5	Semester 1 2016/2017.
45	EMM 3108: Strength of Materials 1	3	4	4.23/5	Semester 2 2016/2017
46	EMM 3409 Strength of Materials I	3	30	4.71/5	Semester 2 2016/2017
47	EMM 4404 Fabrication and Characterization of Composite Materials	3	20	4.56/5	Semester 1 2017/2018
48	ECV 3001 Engineers and Society	3	30	4.82/5	Semester 2 2017/2018
49	EMM 4404: Fabrication and Characterization of Composite Materials	3	19	4.72/5	Semester 1 2018/2019
50	EMM 3608 Industrial Safety and Health	3	56	3.79/5	Semester 1 2018/2019
51	ECV 3001 Engineers and Society	3	49	4.68/5	Semester 2 2018/2019
52.	EMM 4405 Fabrication and	3	20	4.8/5	Semester 1 2019/2020

	Characterization of Composite Materials				
51	ECV 3011 Engineers and Society	3	27	4.8/5	Semester 2 2019/2020
52	EMM 4405 Fabrication and Characterization of Composite Materials	3	19	4.89/5	Semester 1 2020/2021
53	ECV 3011 Engineers and Society	3	30	4.61/5	Semester 2 2020/2021
54	EMM 4947 Integrated Design Project		3		Semester 3 2020/2021
55	EMM 4405 Fabrication and Characterization of Composite Materials	3	20	4.7/5	Semester 1 2021/2022
56	EMM 4947 Integrated Design Project		3		Semester 1 2021/2022
57	ECV 3011 Engineers and Society	3	30	4.6/5	Semester 2 2021/2022
58	EMM 4405 Fabrication and Characterization of Composite Materials	3	19	4.74/5	Semester 1 2022/2023
59	ECV 3011 Engineers and Society	3	47	4.52/5	Semester 2 2022/2023
60	EMM 4405 Fabrication and Characterization of Composite Materials	3	18	4.84/5	Semester 1 2023/2024
61	ENG 3104 The Engineers and Society	3	44	4.53	Semester 2 2023/2024
62	ECV 3011 Engineers and Society	3	1	Not done	Semester 2 2023/2024
63	EMM 4405 Fabrication and Characterization	3	14	4.83	Semester 1 2024/2025

	of Composite Materials				
64	ENG 3104 The Engineers and Society	3	46	Not available yet	Semester 2 2024/2025
65	ECV 3011 Engineers and Society	3	1	Not available yet	Semester 2 2024/2025
TEACHING AT POSTGRADUATE LEVELS					
1	KMP 4901 Industrial Safety and Health	3	20	-	Nov. 2003/2004 Semester
2	KMP 5903 Industrial Marketing Management	3	25	-	Nov. 2003/2004 Semester
3	KMP 5908 Maintenance Management System	3	25	4.46/5	Semester 1 2004/2005
5	KMP 5908 Maintenance Management System	3	30e	4.75/5	Semester 2 2004/2005
6	KMP 5603 Product Design and Innovation	3	8	4.65/5	Semester 2 2005/2006
7	KMP 5603 Product Design and Innovation	3	10	3.84/5	Semester 2 2008/2009
8	EMM 5977 Independent Study	1	7	No lecture (only writing review papers)	Semester 2 2011/2012
9	EMM 5504 Product Design and Innovation	3	10	4.03/5	Semester 2 2015/2016
10	EMM5626 Technology Management	3	8	5.0/5.0	Semester 1 2023/2024

PLENARY AND KEYNOTE LECTURES

1. **S.M. Sapuan (PLENARY LECTURE),** Conceptual design of products from environmentally friendly biocomposite materials, Presented at *the 13th International Conference on environment, Ecosystems and Development (EED15)*, 23-25 April 2015, Renaissance Kuala Lumpur Hotel, Kuala Lumpur, Malaysia.

2. **S.M. Sapuan (PLENARY LECTURE),** Engineering applications of natural fibre composites, *Proceedings of International Conference on Science, Engineering and Innovative Technology*

(MICSEIT2016), 10-11 August 2016, Management Science & University (MSU), Shah Alam, Selangor, Malaysia, p. 13. & 21.

3. **S.M. Sapuan (PLENARY LECTURE)**, Pengembangan produk daripada pokok enau, *Prosiding Seminar Enau Kebangsaan*, 1-2 April 2019, Aroura Botique Hotel, Bahau, Negeri Sembilan, Malaysia, p.1. (**S.M. Sapuan**, Z. Leman, E.S. Zainudin, M.Y.M. Zuhri and R.A. Ilyas) (Editors), ISBN 978-983-44426-8-2, organized by PPIEM.

4. **S.M. Sapuan (PLENARY LECTURE),** Composite materials during COVID-19 pandemic, *International Forum on Future of Teaching and Education in Post COVID-19 Era, (IFFTE 2022),* 14 – 15 March 2022, Gulf University, Bahrain.

5. **S.M. Sapuan (PLENARY LECTURE)**, Characterization of nanocellulose fibre reinforced starch biopolymer composites, *International Conference on Applied Science, Technology and Engineering (ICASTE 2022),* Universitas Tarumanagara, Jakarta, Indonesia, 23-24 March 2022.

6. **S.M. Sapuan (PLENARY LECTURE)**, Review of biocomposites in defence industry, *2022 International Conference on Defence Technology (2022 ICDT),* 23-26 August 2022, Haidian, Beijing, China, Organized by China Ordnance Society, China.

7. **S.M. Sapuan (PLENARY LECTUR**E), Mechanical behavior of biocomposites, *The 2022 International Workshop on Intensive Loading and its Effects (ICLE),* Beijing Institute of Technology, Beijing, China, 3-4 November 2022.

8. **S.M. Sapuan (PLENARY LECTURE),** Design for sustainability: Innovation in sugar palm composite product development, *The International Conference on Sugar Palm and Natural Fibre Polymer Composites 2023 (SNPC2023),* 2-3 December 2023, Serdang, Selangor, Malaysia (online mode) organized by PPIEM.

9. **S.M. Sapuan (PLENARY LECTURE),** Design for sustainability, circular economy and life cycle assessment (LCA) focusing on biocomposites, *3rd International Conference on Knowledge-Based Textiles (ICKT2024)*, 5-6 March 2024, National Textile University, Faisalabad, Pakistan.

10. **SM. Sapuan (PLENARY LECTURE),** Research on biocomposites in Indonesia, *Proceedings of the 9th Postgraduate Seminar on Natural Fibre Composites 2024 (9NFC)*, Serdang, Selangor, Malaysia, pp. 1-2, Published by Department of Mechanical and Manufacturing Engineering, UPM, 30 December 2024.

11. **S.M. Sapuan (PLENARY LECTURE),** Extraction and isolation of nanocellulose from plants and their applications, *4th International Conference on Knowledge-Based Textiles (ICKT2024)*, 19-20 February 2025, National Textile University, Faisalabad, Pakistan.

12. **S.M. Sapuan (PLENARY LECTURE).** Natural fibre composites: Emerging engineering materials, Presented at *MacroFrontiers 2025: 3Rd International Conference on Macromolecular Compounds*, Azerbaijan State Oil and Industry University, Baku, Azerbaijan, 24-25 April 2025.

13. **S.M. Sapuan (PLENARY LECTURE),** Micro and nanocellulose composites for food packaging and other engineering applications - Characterization and fabrication, *MatSeries 2025, the Global Virtual Conference on Materials Science and Engineering*, 19–20 May 2025.

14. **S.M, Sapuan (PLENARY LECTURE),** The emerging economic values of sugar palm in bio-based industries, *International Conference on Sugar Palm and Natural Fibre Polymer Composites (SNPC 2025)*, Tenara Hotel, Bangi, Selangor, Malaysia, 28-29 October 2025.

KEYNOTE PRESENTATION

15. **S.M. Sapuan (KEYNOTE ADDRESS)**, Concurrent engineering manufacturing system for polymeric based composite automotive pedal box system, *Proceedings of Symposium on Concurrent Engineering Manufacturing System for Polymeric Based Composite Automotive Components*, 25th July 2003, Faculty of Engineering, UPM, Serdang, Malaysia, pp. 1-8, Published by Docuprint Enterprise, Kuala Lumpur, ISBN 983-2919-00-2.

16. **S.M. Sapuan (KEYNOTE ADDRESS)**, Polymer composites in automotive industry, *Proceedings of the International Conference on Composite Materials and Nano-structures*, 25 – 29 April 2006, Concorde Hotel, Shah Alam, Malaysia, pp. 19, ISBN 967-960-206-0.

17. **S.M. Sapuan (KEYNOTE ADDRESS)**, Writing and publishing scientific journal papers, *Proceedings of the Postgraduate Seminar on Natural Fibre Composites*, 10th June 2008, Faculty of Engineering, UPM, Serdang, Malaysia, pp. 7-18, Published by UPM Press, Serdang, ISBN 978-983-43995-0-4.

18. **S.M. Sapuan (KEYNOTE ADDRESS),** The effect of compatabilizing agents on tensile and flexural properties of pineapple leaf fibre reinforced high impact polystyrene composites, Presented at ,*the Second Annual International Conference on Green Technology and Engineering*, 15 – 17 April 2009, Universitas Malahayati, Bandar Lampung, Lampung, Indonesia.

19. **S.M. Sapuan (KEYNOTE ADDRESS)**, Concurrent engineering for polymer composite**,** the *9th National Symposium on Polymeric Materials*, 14-16 December 2009, Residence Hotel, UNITEN, Kajang-Putrajaya, Malaysia (Abstract published in Book of Abstract) (ISBN 978-967-960-255-5).

20. **S.M. Sapuan (KEYNOTE ADDRESS)**, Natural fibres: alternative fibres for polymer composites, *Proceedings of the UPM-UniKL Symposium on Polymeric Materials*, 2nd February 2012, UniKL-MICET, Alor Gajah, Melaka, Malaysia, pp. 1-10 (ISBN 978-983-2408-06-2)

21. **S.M. Sapuan (KEYNOTE ADDRESS),** An overview on the potential of Biodegradable composite in Malaysia, *Proceedings of the 2ND. UPM-UniKL Symposium on Polymeric Materials 2013*, 28th February 2013, UniKl City Campus, Kuala Lumpur, Malaysia, pp. 1-8, Kuala Lumpur, (ISBN 978-983-2408-09-3.

22. **S.M. Sapuan (KEYNOTE ADDRESS),** Pembangunan produk kejuruteraan berasaskan pokok enau (sugar palm), Presented during *Pelancaran Program Pemindahan Ilmu Bagi Pembangunan Produk Kejuruteraan Berasaskan Pokok Enau (Sugar Palm)*, 22 November 2015, Kampung Kuala Jempol, Bahau, Negeri Sembilan, Malaysia.

23. **S.M. Sapuan (KEYNOTE ADDRESS),** Recent development in sugar palm fibre reinforced composite research, Presented at *International Seminar on Strategy to Build Competitiveness in ASEAN Economic Community Era (SBC-MEA)*, 30-31 March 2016, Universitas Abulyatama, Banda Aceh, Indonesia.

24. **S.M. Sapuan (KEYNOTE ADDRESS),** Recycling of natural fiber composite materials, *Proceedings of the 1st Conference on Engineering, Technology and Education 2016 (CETEd2016)*,

4-5 October 2016, Politeknik Merlimau, Merlimau, Melaka, Malaysia, pp. 1-5 (ISBN 978-967-0189-76-5).

25. **S.M. Sapuan (KEYNOTE ADDRESS),** The importance of high impact publication and the impact of research on the society, Presented at *IEEE International Conference on System Modelling Advancement and Research Trends (SMART-2017),* 29th-30th December 2017, Teerthanker Mahaveer University (TMU), Moradabad, Uttar Pradesh, India.

26. **S.M. Sapuan, (KEYNOTE LECTURE)** Sharing experiences in writing article for international journals for beginners**,** Presented at *the Seminar of Writing Scientific Articles for Lecturers and Students,* 25th -26th January 2018, Indonesian College of Management, Informatics and Computer (STMIK Indonesia), Padang, Indonesia.

27. **S.M. Sapuan, (KEYNOTE ADDRESS),** Natural fibre composites: Malaysian perspective, *Proceedings of the International Polymer Conference of Thailand (PCT-8)*, 14th -15th June 2018, Amari Watergate Hotel, Bangkok, Thailand, pp. 12, Organized by Polymer Society of Thailand.

28. **S.M. Sapuan, (KEYNOTE ADDRESS),** Materials selection, conceptual design and design for sustainability for composites: Why they are unique?, *Proceedings of the 6th Postgraduate Seminar on Natural Fiber Reinforced Polymer Composites*, INTROP, UPM, Serdang, Selangor, Malaysia, 5th December 2018, Serdang, Selangor, Malaysia, pp. 1. ISBN: 978-983-44426-7-5.

29. **S.M. Sapuan, (KEYNOTE ADDRESS),** Sustainable bio-packaging from agricultural products toward environmentally benign society, Presented at *the Second International Conference on Chemistry, Industry and Environment,* 18-19 February 2019 Aligarh Muslim University, Aligarh, UP, India.

30. **S.M. Sapuan, (KEYNOTE ADDRESS),** Conceptual design, materials selection, and characterization of natural fibre reinforced polymer composites, Presented at *the 5th International Conference on Value Addition & Innovation in Textiles (COVITEX),* 20-21 March 2019, National Textile University, Faisalabad, Pakistan.

31. **S.M. Sapuan, (KEYNOTE ADDRESS),** Recent advances in natural fibre reinforced polymer composites, Presented at *The International Conference on Advances in Mechanical and Manufacturing Engineering 2019 (ICAM^{2}E2019)*, 21-23 October 2019, Adya Hotel, Langkawi, Malaysia.

32. **S.M. Sapuan, (KEYNOTE LECTURE),** Green composites and research developments on green composites in Malaysia, Presented at *MlPAnet School*, Faculty of Mathematics and Natural Sciences (FMIPA), 24-26 October 2019, Universitas Jember, Jember, East Java, lndonesia.

33. **S.M. Sapuan, (KEYNOTE ADDRESS),** New insights in natural fibre composites research: performance, conceptual design, materials selection, and design for sustainability, Presented at *the 3rd International Conference on Materials Science and Research*, 28-29, November 2019, Pullman Kuala Lumpur Bangsar, Kuala Lumpur, Malaysia.

34. **S.M. Sapuan, (KEYNOTE ADDRESS),** Advancement on natural fibre reinforced synthetic/biopolymer composites in engineering application, Presented at *the 2019 Third International Conference on Functional Materials and Chemical Engineereing (ICFMCE 2019),* 15-17 December 2019, Ballroom 2001, Floor 20, Chaloem Rajakumari 60 Building (Chamchuri 10), Thailand, Chulalongkorn University, Bangkok, Thailand.

35. **S.M. Sapuan**, **(KEYNOTE ADDRESS),** Performance evaluation and product development of textile and non-textile tropical biocomposites, Presented at *the 2nd International Conference on Technical Textiles (ICTT),*18-19 February 2020, National Textile University, Faisalabad, Pakistan.

36. **S.M. Sapuan, (KEYNOTE ADDRESS),** Natural fibres, biopolymers and biocomposites: development, characterization and Applications, Presented at *Sepang International Conference on multidisciplinary Sciences and Advanced Technologies 2020 (SICMSAT),*29-30 June 2020, organized by Higher National Youth Skill Institute (IKTBN) Sepang, Selangor, Malaysia (Online platform: ZOOM, You Tube and Facebook).

37. **S.M. Sapuan, (KEYNOTE ADDRESS),** Advanced applications of natural fibre reinforced polymer composites, *Proceedings of the 7th Postgraduate Seminar on Natural Fiber Reinforced Polymer Composites*, INTROP, UPM, Serdang, Selangor, Malaysia, 17th November 2020, Serdang, Selangor, Malaysia, ISSN 2735-1246, Published by Institute of Tropical Forestry and Forest Products (INTROP), Universiti Putra Malaysia, pp. 1 (online).

38. **S.M. Sapuan (KEYNOTE ADDRESS),** Characterization and product development of tropical textile biocomposites, Video recording presented at *The Third International Forum on Textiles for Graduate Students (IFTGS)*, 29 Nov. 2020, Tiangong University, Tianjin, P.R. China (video recording).

39. **S.M. Sapuan**, **(KEYNOTE ADDRESS),** Research on bioplastics in Malaysia, presented at *The International Conference on Marine and Fisheries Product Processing and Biotechnology 2020*, 8th December 2020, Jakarta, Indonesia, organized by Research and development Centre for Marine and Fisheries Products Processing and Biotechnology, Agency of Marine and Fisheries research and Human Resources, The Ministry of Marine and Fisheries, The Republic of Indonesia.(online)

40. **S.M. Sapuan**, **(KEYNOTE ADDRESS)** Performance and life cycle assessment of natural fibre composites, presented at *2020 3rd International Conference on Novel Functional Materials*, 21-22 December 2020, Xiamen, China (online).

41. **S.M. Sapuan, (KEYNOTE ADDRESS),** Composites from the aquatic environment, *Proceedings of the Seminar on Advanced Bio and Mineral Based Natural Fibre Composites (SBMC2021),* 25 January 2021, UPM Serdang, Selangor, Malaysia, p. 1, ISBN 978-983-44426-9-9 (online).

42. **S.M. Sapuan (KEYNOTE ADDRESS**), The contribution of biocomposites during Covid-19 Pandemics, Presented at *the 6th International Conference on Value Addition and Innovation in Textiles (6th COVITEX 2021),* National Textile University, Faisalabad, Pakistan, 2-3 March 2021 (online).

43. **S.M. Sapuan (KEYNOTE LECTURE**), Biocomposites: Performance, design and materials selection and their roles during Covid-19 pandemic, Presented at *the One Day International Webinar on Industrial Applications of Biotechnology and Biomaterials,* Government College Women University Faisalabad (GCWUF), Faisalabad, Pakistan, 18 March 2021.

44. **S.M. Sapuan (KEYNOTE LECTURE),** Materials selection and conceptual design in natural fibre composites, Presented at *International Webinar Series on Biopolymer Composites: Series 1*, Organized by INTROP, UPM, Serdang, Selangor, Malaysia, 2 April 2021.

45. **S.M. Sapuan (KEYNOTE LECTURE),** Recent development in biocomposite research in

Malaysia, presented at *the International Workshop From Waste to Advanced Materials and Products*, Organized by University of Minho, Portugal and Fibrenamics, Portugal, 21 April 2021.(online)

46. **S.M. Sapuan (KEYNOTE ADDRESS)**, Engineering biocomposites: Transforming towards circular economy, Presented at *the International Conference on Bioengineering and Technology 2021 (IConBET2021)*, 24-25 May 2021, Organized by Faculty of Bioengineering and Technology, Universiti Malaysia Kelantan, Jeli, Kelantan, Malaysia (online)

47. **S.M. Sapuan (KEYNOTE LECTURE),** Biocomposites for advanced applications, Presented at *Series of Webinar on Composites Research, Technology and Innovations*, 14 July 2021, Organized by Center for Advanced Composite Materials (CACM), Universiti Teknologi Malaysia and Universitas Padjadjaran Indonesia.

48. **S.M. Sapuan (KEYNOTE LECTURE)**, Performance of the aquatic based biopolymer composites, Presented at *International Webinar Series 2: Development of Marine Biodegradable Plastic/Polymer and its Applications*, 19 August 2021, Organized by the Centre of Foundation Studies for Agricultural Science, Universiti Putra Malaysia.

49. **S.M. Sapuan**, **(KEYNOTE LECTURE)**, Let me show you how you can easily write and publish a high impact journal paper, Presented at *Tea Talk Series 4, Universiti Putra Malaysia Kampus Bintulu, Sarawak, Malaysia*, 30 August 2021, Organized by Universiti Putra Malaysia, Kampus Bintulu, Sarawak, Malaysia (online).

50. **S.M. Sapuan**, **(KEYNOTE ADDRESS)**, Preparation and characterization of arrowroot fibre reinforced biopolymer composites, *Webinar on Materials Science & Nanotechnology***,** 17 – 18 September 2021, Organized by Inovine Meetings LLC, Clinton, Mississippi, USA.

51. **S.M. Sapuan (KEYNOTE LECTURE),** Advanced materials in precision engineering application, Presented at *MPE Webinar on Procession Engineering and Its Applications*, 27 September 2021, Organized by Department of Mechanical Precision Engineering, MJIIT, Universiti Teknologi Malaysia.

52. **S.M. Sapuan**, **(KEYNOTE ADDRESS),** Sugar palm (*Arenga pinnata (Wurmb*) Merr.): Fibres, biopolymers, biocomposites and other by-products, presented at *the 2nd World Conference on by-products of palms & their applications (ByPalma),* 28-29 September 2021, Egypt, (online).

53. **S.M. Sapuan, (KEYNOTE ADDRESS**), Recent engineering application of natural fibres, Presented at *International Conference on Green Engineering, Food and Agricultural Science and Technology (ICGEFAST 2021),* 10-11 November 2021, Organized by Payakumbuh Agricultural Polytechnic, West Sumatera, Indonesia.(online).

54. **S.M. Sapuan (KEYNOTE ADDRESS),** Performance of nanocellulose fibre reinforced starch biopolymercomposites incorporated with essential oil for food packaging**,** Presented at *International E-Conference on Nanomaterials and Nanotechnology*, UK, 18-19 November 2021, e-conference. Organized by United Research Forum, UK (online).

55. **S.M. Sapuan, (KEYNOTE LECTURE),** Writing and publishing a high impact journal paper: It's easy if you do it smart, to be presented at *Razak Research Week 2021*, 6 December 2021, Organized by Razak School, Universiti Teknologi Malaysia (online).

56. **S.M. Sapuan (KEYNOTE ADDRESS),** Preparation and characterization of ubi gadong fibre reinforced biopolymer composites, *International Conference on Polymers and Composites (ICPC),* 7-8 December 2021, Organized by National Textile University, Faisalabad, Pakistan (online).

57. **S.M. Sapuan (KEYNOTE ADDRESS**), Recent development in sugar palm composites, *Proceedings of The International Conference on Sugar Palm and Allied Fibre Polymer Composites 2021 (SAPC 2021)*, 11 December 2021, p. 1, Organized by Society of Sugar Palm Development and Industry Malaysia (PPIEM), ISBN 978-967-26474 (online).

58. **S.M. Sapuan (KEYNOTE LECTURE),** The next things you should know if you want to write and publish a high impact journal paper, *Webinar and Launching of International Journal,* organized by Green Engineering Society, Payakumbuh, Sumatera, Indonesia, 20 January 2022 (online).

59. **S.M. Sapuan (KEYNOTE ADDRESS**), Design for sustainability: Fully biodegradable biocomposites, *International Conference on Environmental Science and Green Technology (IC-EGT 2022)*, Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia, 14-15 March 2022 (online).

60. **S.M. Sapuan (KEYNOTE ADDRESS),** Natural fibre composites: Design for sustainability, design for circularity and damage and fracture, *The 6th Symposium on Damage Mechanism in Materials and Structures*, 16-17 August 2022, Swiss-Garden Beach Resort, Kuantan, Pahang, Malaysia, organized by Universiti Malaysia Pahang.

61. **S.M. Sapuan (KEYNOTE ADDRESS),** Characterization of black seed-based biopolymer composites, *Composite Science and Technology International Conference (COMSAT) 2022*, 22-23 August 2022, Organized by Universiti Teknologi Malaysia, Johor, Bharu, Malaysia (online),

62. **S.M. Sapuan (KEYNOTE ADDRESS),** Pentingnya K3 dalam proses produksi, *Seminar Keselamatan dan Kesehatan Kerja (K3)*, 22-23 September 2022, organized by Fakultas Ilmu-Ilmu Kesehatan, Universitas Abultama, Aceh Besar, Indonesia.

63. **S.M. Sapuan (KEYNOTE LECTURE),** *Stadium General*, Natural fibre composites for various applications: Product development and design for sustainability, 27 September 2022, organized by Universitas Negeri Semarang (UNNES), Indonesia (online),

64. **S.M. Sapuan (KEYNOTE ADDRESS),** Evaluation of performance of biocomposites using different microscopy and other testing methods, *Scientific Conference of Microscopy Society Malaysia (SCMSM Conference 2022)*, 30 Nov – 1 Dec 2022, Management and Science University (MSU), Shah Alam, Selangor, Malaysia organized by Management and Science University and Microscopy Society of Malaysia.

65. **S.M. Sapuan (KEYNOTE ADDRESS),** Mechanical performance of sugar palm fibre ash reinforced LM26 aluminium matrix composites, *International Conference on Polymers and Composites (ICPC-2022)***,** 6-7 December 2022, organized by National Textile University, Faisalabad, Pakistan (online).

66. **S.M. Sapuan (KEYNOTE ADDRESS),** Mechanical and thermal behaviours of woven kenaf/polyester fibre reinforced polylactic acid (PLA) hybrid composites, *Second International Conference on Knowledge Based Textiles*, 15-16 February 2023, National Textile University, Faisalabad, Pakistan.

67. **S.M. Sapuan (KEYNOTE ADDRESS**), Writing and publishing a high impact research journal paper, *Workshop on How to Write a Research for Funding and Publication*, 15-16 March 2023, Institut Teknologi Batam (ITEBA), Batam City, Kepulauan Riau, Indonesia.

68**.** **S.M. Sapuan (KEYNOTE ADDRESS),** Design for sustainability: the roles of biopolymer composites**,** *International Conference on Advances in Design and Mechanical Engineering (ICADME 2023),* 4-5 September 2023, World Trade Centre, Kuala Lumpur, Malaysia, Organized by Universiti Malaysia Perlis.

69. **S.M. Sapuan (KEYNOTE ADDRESS),** Nanocellulose-based biocomposite films for packaging applications, *the 7th International Conference of Bionic Engineering (ICBE 2023)*, 12-15 October 2023, Organized by International Society of Bionic Engineering (ISBE), Eurasia Convention International Hotel, Wuhan, China

70. **S.M. Sapuan (KEYNOTE ADDRESS)**, Design and characterization of bio-composites for the use in electric vehicle battery enclosure, *International Conference on Sustainable Environmental Science and Technology (ICESTech 2023),* 21-22 October 2023, Bangunan Canseleri Sultan Ibrahim, Universiti Teknologi Malaysia, Johor Bahru, Malaysia.

71. **S.M. Sapuan (KEYNOTE LECTURE),** Design and materials selection for composite materials, *Webinar for Staff and Students of Engineering Department, University of Technology and Applied Sciences*, Organized by Engineering Department, University of Technology and Applied Sciences, Nizwa, Sultanate of Oman, 24 October 2023 (online).

72. **S.M. Sapuan (KEYNOTE ADDRESS),** Approaches in sustainable biobased, multilayer packaging solution, *International Conference on Green Innovation 2023 (ICGI 2023),* 9-10 November 2023, Institut Teknologi Batam (ITEBA), Batam City, Kepulauan Riau, Indonesia.

73. **S.M. Sapuan (KEYNOTE ADDRESS),** Development of natural fiber composites from Malaysia's native natural fibers, *2023 Philippines Textile Congress: Futures Thinking for Philippine Textiles*, Organized the Philippine Textile Research Institute of the Department of Science and Technology (DOST-PTRI), Manila, Philippines, 7-24 November 2023 (online).

74. **S.M. Sapuan (KEYNOTE ADDRESS),** Nanocellulose-based biocomposites for packaging, electric vehicle and piezoelectric sensor application*, International Conference on Mechanical Engineering Ideas, Innovations & Initiatives (ICMEI3-2024)*, 24-25 February 2024, Aligarh, India (0nline).

75. **S.M. Sapuan (KEYNOTE ADDRESS),** Development and characterization of graphane nanoplatelet (GNP) reinforced polylactic acid (PLA) composites for electric vehicle battery packs, *3rd International Conference on Knowledge-Based Textiles (ICKT2024)*, 5-6 March 2024, Faisalabad, Pakistan.

76. **S.M. Sapuan (KEYNOTE ADDRESS),** Review of different aspects of roselle focusing on fibres and composites, *Roselle Nexus Initiatives Towards sustainability – A SULAM Symposium*, 24 June 2024. Serdang, Malaysia.

77. **S.M. Sapuan (KEYNOTE ADDRESS),** Natural fibre reinforced polymer composites in engineering applications: From packaging to defence industries, *2024 International Conference on Defence Technology (2024ICDT)*, 23-26 September 2024, Xi'an, China.

78. **S.M. Sapuan, (KEYNOTE ADDRESS),** Recent advances in biocomposites in engineering application: Piezoelectric sensor and electric vehicle battery casing, *The First International Conference on Advances in Mechanical, Materials, Mechatronics and Energy Engineering (ICAME-2024)*,17-18 October 2024, UET, Taxila, Pakistan.

79. **S.M. Sapuan (KEYNOTE ADDRESS),** Mechanical, physical and morphological properties of nanocellulose arrowroot fibre reinforced arrowroot starch biopolymer composites, *3rd International Conference on Science Engineering and Advanced Technology (ICSEAT 2024)*, 30 – 31 October 2024, Amwaj Islands, Kingdom of Bahrain.

80. **S.M. Sapuan, (KEYNOTE ADDRESS),** Sustainable advanced biocomposites: Design, characterization, processing and applications, *One Day International Seminar on Emerging Trends in Composite Materials and Microfluids*, 12 November 2024, Integral University, Lucknow, India.

81. **S.M. Sapuan (KEYNOTE ADDRESS)**, A comprehensive review on composites in additive manufacturing: advancements, applications and challenges, *4th International Conference on Knowledge-Based Textiles (ICKT2024)*, 19-20 February 2025, National Textile University, Faisalabad, Pakistan.

82. **S.M. Sapuan (KEYNOTE ADDRESS),** Performance of biocomposites: micro and nanoscales, *5th International Conference on Engineering, Social- Sciences, And Humanities (ICESSU – 2025*), 9-10 April 2025, Manila, Philippines.

83. **S.M. Sapuan (KEYNOTE LECTURE)**, Characterization, processing, and applications of tropical plant based nanocellulose starch biopolymer composites, Presented at *MacroFrontiers 2025: 3Rd International Conference on Macromolecular Compounds*, Azerbaijan State Oil and Industry University, Baku, Azerbaijan, 24-25 April 2025.

84. **S.M. Sapuan (KEYNOTE LECTURE),** Expanding horizons of natural fiber composites: From automotive to energy and packaging, *Composite Talk*, National Textile University, Faisalabad, Pakistan, 31 July 2-25.

DISTINGUISHED LECTURES

1. **S.M. Sapuan**, Biocomposites for engineering applications, *Distinguished Lecture* as Visiting Professor at the Energy Sphere (TES), Universiti Tenaga Nasional, 28 May 2024.

2. **S.M. Sapuan**, Editorial perspective: High quality paper, *Distinguished lecture* as Visiting Professor at the Energy Sphere (TES), Universiti Tenaga Nasional, 28 May 2024.

INAUGURAL LECTURE

1. **Mohd Sapuan Salit,** Concurrent engineering for composites, *Inaugural Lecture Series*, 30th July 2010, Auditorium Jurutera, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, Malaysia (A compulsory Lecture for C grade Professor for Promotion to B Grade Professor).

PUBLIC LECTURES

1. **S.M. Sapuan,** Recent development on Malaysia natural fibre composites, Strategies for publication in international journal (Q1 – ISI indexed), How to publish a good book in world class publisher, *A Public Lectures: A Half Day Talk on Recent Development of Natural Fibre Composites in Malaysia*, 7 October 2015, Dewan Seminar, FKM, Universiti Malaysia Pahang, Pekan, Pahang, Malaysia

2. **S.M. Sapuan**, Effect of microcrystalline cellulose reinforcement on mechanical and water barrier properties of sugar palm starch biocomposite films, *SEARCA Regional Professorial Chair Public Lecture*, Serdang, Selangor, Malaysia, 11 Feb. 2016.

3. **S.M. Sapuan***,* Journal paper publication for beginners. Natural fibre composites: Development and application**.** A concurrent conceptual design study of hybrid glass/sugar palm composite for automotive anti roll. Conceptual design of biocomposite products. *A Public Lectures: at Department of Mechanical Engineering, Universitas Andalas, Padang, Indonesia*, 26th January 2018, Padang, Sumatera, Indonesia.

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INVITED PRESENTATIONS

PART A - INVITED LECTURES IN CONFERENCES/WORKSHOPS/SEMINARS

1. **S.M. Sapuan**, Input-process-output: Malaysian Engineering Education Model, Presented at *a One Day Colloquium on Malaysian Engineering Education Model 2000: Educating Future*

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18. **S.M. Sapuan**, Design for manufacture for composites**,** *Seminar*, Universiti Teknikal Malaysia Melaka, Melaka, Malaysia, 14th December 2011.

19. **S.M. Sapuan**, Recent advances in concurrent engineering, design for Manufacture, design for assembly, design for sustainability and rapid prototyping**,** *Seminar,*Universiti Teknikal Malaysia Melaka, Melaka, Malaysia, 15th December 2011 (During Visiting Professorship visit).

20. R.Wirawan and **S.M. Sapuan**, Sugarcane bagasse-filled polyvinyl chloride composite: an alternative use of sugarcane bagasse, 1st May 2012, Presented at *the SugarAsia 2012 Conference*, Bangkok, Thailand.

21. **S.M. Sapuan**, Research on natural fibre composites at Universiti Putra Malaysia**,** Presented at *Universiti Putra Malaysia (UPM) – The Society of Materials Science, Japan (JSMS) Colloquium on Composite Materials 2012*, 9th November 2012, ITMA, UPM, Serdang, Selangor, Malaysia.

22. **S.M. Sapuan**, Sharing research experiences in advanced materials**,** Presented to staff of Advanced Materials and Renewable Energies Department, Iranian Research Organization for Science and Technology (IROST), Ministry of Science, Research and Technology, Iran, *26th Khwarizmi International Award*, Tehran, Iran, 5th February 2013.

23. **S.M. Sapuan** and Y. A. El-Shekeil, Properties of kenaf fiber-reinforced thermoplastic polyurethane composites**,** presented to government officers, Iran, *26th Khwarizmi International Award*, Tehran, Iran, 6th February 2013.

24. R.Yunus, A. H. Shaari, **S.M. Sapuan** and T.Y. Abdullah, Materials research at UPM, Presented at *Workshop to Explore Scientific Exchange and Collaboration with KTH Royal Institute of Technology, Sweden*, Istana Hotel, Kuala Lumpur, 23-24 April 2013.

25. **S.M. Sapuan** and Y.A. El-Shekeil, Engineering Composites Research Group, presented at *Materials Science and Technology Seminar 2013*, Serdang, Selangor, Malaysia, 24th June 2013.

26. **S.M. Sapuan**, Significance of modern instrumental methods in the characterization of polymer composites, *Invited Lecture* presented at Aligarh Muslim University, Aligarh, India, 12th March 2014.

27. **S.M. Sapuan,** Environmentally friendly tropical natural fibre composites: Development and characterization, *Invited Lecture* presented at Faculty of Mechanical and Aerospace Engineering, Institut Teknologi Bandung, Bandung, Indonesia, 15th September 2014.

28. **S.M. Sapuan,** Environmentally friendly tropical natural fibre composites: Development and characterization, *Invited Lecture* presented at Faculty of Engineering, Universitas Gadja Mada, Yogyakarta, Indonesia, 17th September 2014.

29. M.R. Mansor, **S.M. Sapuan**, E.S. Zainudin, A.A. Nuraini and A. Hambali, Conceptual design of biocomposite products, Presented at *Colloquium on Biocomposite Technology 2014*, Serdang, Selangor, Malaysia, 24 November 2014, Book of Abstract, p. 2.

30. S. Misri, M.R. Ishak, **S.M. Sapuan** and Z. Leman, Split disk properties of kenaf yarn fibre-reinforced unsaturated polyester composites processed by filament winding, Presented at *Colloquium on Biocomposite Technology 2014*, Serdang, Selangor, Malaysia, 24 November 2014, Book of Abstract, p. 5.

31. **S.M. Sapuan**, Design and fabrication of glass/sugar palm fibre reinforced polyurethane hybrid composites for automotive anti-roll bar, *Seminar*, 12th March 2015, Proton Sdn Bhd, Shah Alam, Selangor, Malaysia.

32. M. L. Sanyang, **S. M. Sapuan**, M. Jawaid, M. R. Ishak and J. Sahari, Effect of glycerol and sorbitol plasticizers on physical and thermal properties of sugar palm starch based films, Presented at*the 13th International Conference on environment, Ecosystems and Development (EED15),* 23-25 April 2015, Renaissance Kuala Lumpur Hotel, Kuala Lumpur, Malaysia.

33. M. R. Mansor, **S. M. Sapuan**, M. A. Salim, M. Z. Akop, and M. M. Tahir,Modeling of kenaf reinforced sugar palm Starch biocomposites mechanical behaviour using Halpin-Tsai model, Presented at *the 13th International Conference on environment, Ecosystems and Development (EED15)*, 23-25 April 2015, Renaissance Kuala Lumpur Hotel, Kuala Lumpur, Malaysia.

34. R. Yahaya, **S. M. Sapuan**, M. Jawaid, Z. Leman, E. S. Zainudin,Effect of moisture absorption on mechanical properties of natural fibre hybrid composite, Presented at *the 13th International Conference on environment, Ecosystems and Development (EED15)*, 23-25 April 2015, Renaissance Kuala Lumpur Hotel, Kuala Lumpur, Malaysia.

35. **S.M. Sapuan,** Recent development on Malaysia natural fibre composites, presented at *A Half-Day Talk on Recent Development of Natural Fibre Composites in Malaysia*, 7 October 2015, UMP, Pekan, Pahang, Malaysia.

36. **S.M. Sapuan**, Natural fibres and natural fibre composites: Candidate materials for textile industry? Presented during *Visit of Lectrurers in Textiles, UiTM Negeri Sembilan Branch*, 22nd March 2016, INTROP, UPM, Serdang, Selangor, Malaysia.

37. **S.M. Sapuan**, Natural fibres, biopolymers and biocomposites from sugar palm (*Arenga pinnata merr*.) tree: Traditional and advanced applications, (VIP Invited Speaker), *The Educational Workshop and Symposium on Polymer Science and Technology 2016 (PST 2016)*, 29-30th

March 2016, Bestari Lecture Hall, UNiKL City Campus, Kuala Lumpur, Malaysia.

38. **S.M. Sapuan**, Lecture series 1: Recent Advances in composite materials, *Lecture presented during External Examiner/Visiting Professor Visit at Management and Science University (MSU)*, Shah Alam, Malaysia, 26th – 30th May 2016.

39. **S.M. Sapuan**, Lecture series 2: Conceptual design (chapter in engineering design), *Lecture presented during External Examiner/Visiting Professor Visit at Management and Science University (MSU)*, Shah Alam, Malaysia, 26th – 30th May 2016.

40. **S.M. Sapuan**, and M.L. Sanyang, Natural fibre composites, Presented at *Workshop on Collaboration UMP & UPM - Fabrication of Natural Fiber Polymer Composites for Robot Structures*,10 March 2017, UMP, Pekan, Pahang, Malaysia.

41. **S.M. Sapuan**, Natural fibre composite research at UPM, seminar presented at *Ho Chi Minh City Technical University*, Ho Chi Minh City, Vietnam, 22 May 2017.

42. **S.M. Sapuan**, Application of biofiber and biocomposite materials, *Pre-Conference Workshop on Mechanical Characterizations of Biofiber and Biocomposites, (Wood and Biofiber Internatonal Conference (WOBIC2017)*, 15-16 November 2017, INTROP, Serdang, Selangor, Malaysia.

43. **S.M. Sapuan**, Injection moulding, *Training provided to staff RekaSihat Sdn. Bhd., Serdang*, 3rd October 2017, UPM, Serdang, Selangor, Malaysia.

44. **S.M. Sapuan**, Biocomposites for packaging and other application, Seminar presented *during research attachement at Faculty of Mechanical Engineering, Universiti Malaysia Pahang*, Pekan, Pahang, Malaysia, 18th January 2018.

45. **S.M. Sapuan**, Aktiviti khidmat komuniti (projek pokok enau), dibentangkan semasa *Penerangan Aktiviti Khidmat Komuniti,* INTROP, UPM, Serdang, Selangor, 2nd February 2018.

46. **S.M. Sapuan**, Introduction – Biocomposite materials and processing, presented at *Student Inbound Mobility Programme Malaysia-India*, 29 April – 3 May 2018, INTROP, Universiti Putra Malaysia, Serdang, Selangor, Malaysia.

47. **S.M. Sapuan**, Osama Alsaied, R.A. Ilyas and M.S.N. Atikah, Energy utilization and saving measures in composite industry: A review, Presented at *the 11th AUN/SEED-Net Regional Conference on Energy Engineering (RCEneE 2018)*, 27-28 September 2018, The Manila Hotel, Manila, Philippines.

48. **S.M. Sapuan**, Produk biokomposit daripada kenaf: "Putra Frame", Presented at *INTROP Innovation Open Day 2019,* 13th March 2019, OSH Hall, UPM, Serdang, Selangor, Malaysia.(also Press Conference).

49. **S.M. Sapuan**, Composites, and biocomposites: Materials Properties and Processing, Presented in *Workshop for Graduate and Postgraduate Students*, National trextile University, Faisalabad, Pakistan, 19th March 2019.

50. **S.M. Sapuan**, Research collaboration potential in composites, Presented in *Visit and Research*

Collaboration Networking Program, SUPMECA, St-Oeun, Cedex, Paris, France, 4th September 2019.

51. **S.M. Sapuan**, Kenaf fibre and composites, Presented in *Visit and Research Collaboration Networking Program*, SUPMECA, St-Oeun, Cedex Paris, France, 5th September 2019.

52. **S.M. Sapuan**, Research in natural fibre composites, Presented in *Visit and Research Collaboration Networking Program*, SUPMECA, St-Oeun, Cedex, Paris, France, 5th September 2019.

53. **S.M. Sapuan**, Potential joint publication between UPM and SUPMECA, Presented in *Visit and Research Collaboration Networking Program*, SUPMECA, St-Oeun, Cedex Paris, France, 9th September 2019.

54. **S.M. Sapuan**, TME 22103: Engineering design: System, *Guest Lecture*, presented during Visiting Professor/External Examiner Visit to Faculty of Information Sciences and Engineering, MSU, Shah Alam, Malaysia, 25th - 27th September 2019.

55. **S.M. Sapuan** and R.A. Ilyas, Recent advances in the application of natural fibre based composites, Presented at *the 2nd Wood & Biofibre International Conference (WOBIC2019),* The Premonade Hotel, Kota Kinabalu, Sabah, Malaysia, 3rd – 5th December 2019 (INVITED).

56. **S.M. Sapuan,** Fabrication of natural fibre reinforced polymer composites, Presented during *PUTRA® Celik (Cultural Engagement, Language Interaction and Knowledge) Programme*, organized by Centre for the Advancement of Language competence, Universiti Putra Malaysia, Serdang, Selangor, Malaysia, 20 January 2020.

57. H.N. Salwa, **S.M. Sapuan**, M.T. Mastura and M.Y.M. Zuhri, Life cycle assessment (LCA) of natural fiber reinforce biopolymer composite takeout food packaging: System boundary and Life cycle inventory (LCI), Presented at *Sepang International Conference on multidisciplinary Sciences and Advanced Technologies 2020 (SICMSAT),*29-30 June 2020, organized by Higher National Youth Skill Institute (IKTBN) Sepang, Selangor, Malaysia (Online platform: ZOOM, You Tube and Facebook) (INVITED).

58. **S.M. Sapuan**, Recent advances in natural fibre reinforced polymer composites: Characterization, design, fabrication and application. *Sharing Session as External Assessor of Bachelor of Mechanical Engineering Program*, 18th December 2020, (Online platform: Cisco Webex) (INVITED LECTURE). Organized by Department Mechanical and Precision Engineering (MPE), Malaysia-Japan International Institute of Technology (MJIIT), Universiti Teknologi Malaysia, Kuala Lumpur.

59. **S.M. Sapuan**, Natural fibre-based biocomposite products, Presented during *Kunjung Hormat to Malaysia Design Development Centre (DDEC*), Kuala Lumpur, Malaysia, 20 January 2022.

60. **S.M. Sapuan**, Natural fibre composites in energy, packaging, healthcare and automotive industries, *Research Talk by External Examiner, Department of Mechanical Engineering, Universiti Malaysia Perlis*, (INVITED LECTURE), Pauh, Perlis, Malaysia, 20 May 2022.

61. **S.M. Sapuan,** R.A. Ilyas and M.R.M. Asyraf, Safety and health in composite industry, *Program Wacana Bedah Buku*, Persatuan Pembangunan dan Industri Enau Malaysia (PPIEM), 25 May 2022.

62. **S.M. Sapuan**, Bioresource based biocomposites, *Seminar dibentangkan sebagai pemeriksa luar Program Teknologi Biosumber, Pusat Pengajian Teknologi Industri, USM bagi Sidang Akademik 2021/2022*, (INVITED LECTURE), 29 June 2022.

63. **S.M. Sapuan**, Green practice guideline for the manufacturing section training module, *Module Training Green Practices for RM12 Green Industry Programme*, 6 July 2022, Pullman Hotel, Kuala Lumpur, Malaysia.

64. **S.M. Sapuan**, Green practice guideline for the manufacturing section training module, *Module Training Green Practices for RM12 Green Industry Programme*, 8 September 2022, Zenith Hotel, Putrajaya, Malaysia.

65. **S.M. Sapuan**, Green practice guideline for the manufacturing section, *Seminar on Green practices for Malaysian industries*, 12 October 2022, Ru Ma Hotel and Residences, Kuala Lumpur, Malaysia.

66. **S.M. Sapuan**, Potential utilization of abundant natural resources of Sabah: Fully biodegradable biopolymer composites, *Seminar presented during the External Assessor Visit for Mechanical Engineering Program,* 27-28 October 2022, Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia.

67. **S.M. Sapuan,** Sembang santai: Menelusuri perjalanan kejayaan saintis negara, *Program Penyelidikan: Penulisan Buku dan Makalah di Fakulti Teknologi dan Pembuatan, Universiti Teknikal Malaysia Melaka*, Bilik Samsung IoT, Kampus Teknologi, UTeM, Melaka, 25 January 2023.

68. **S.M. Sapuan**, Writing and publishing a systematic review paper, *Kursus kepada Pegawai Penyelidik, UPM*, Mini Auditorium 1, Tingkat 3, Bangunan Pejabat TNCPI, UPM, Serdang, Selangor, 9 March 2023.

69. **S.M. Sapuan**, Kaedah penulisan 'edited book' and Kaedah penulisan 'authored book', *Bengkel Penulisan Buku dan Penerbitan Pertanika*, Dewan Utama Alam Sekitar (DUAS), Kompleks B, FHAS, UPM, Serdang, Selangor, 21 March 2023.

70. **S.M. Sapuan**, How to write quality article, *Pertanika Journals - Publishing a High Impact Research Article,* Auditorium Rashdan Baba, TNCPI, UPM, Serdang, Selangor, Malaysia, 11 May 2023.

71, **S.M. Sapuan**, Sharing experience in book publication, *Seminar Penerbitan, PPIEM*, Serdang, Selangor, Malaysia, 6 June 2023 (online).

72, **S.M. Sapuan**, Sesi perkongsian oleh penerima FRGS 2023, *Klinik Pemantapan Proposal Geran FRGS 2024*, Fakulti Kejuruteraan, UPM, Serdang, Selangor, Malaysia, 25 September 2023.

73. **S.M. Sapuan**, Be an outstanding researcher – Reality or fantasy**,** *Workshop on Enhancing Research Culture Among Lecturers*, Tower Regency Hotel & Apartments, Ipoh, Perak, Malaysia, organized by Universiti Kuala Lumpur (UniKL, MIMET). Lumut, Perak, 6-8 October 2023.

74. **S.M. Sapuan**, Writing a high quality paper – A to Z of journal paper writing, *Pertanika Journal Webinar on Publishing a High-Impact Research Article*, Organized by Penerbit UPM, Serdang, Selangor, Malaysia, 3 November 2023 (online).

75. **S.M. Sapuan**, Publishing in high impact journals – tips and tricks, Presented at *UPM Postgraduate Seminar 2023*, Faculty of Human Ecology, UPM, Organized by Sekretariat Siswazah, Majlis Perwakilan Pelajar dan Bahagian Hal Ehwal Pelajar, UPM, 26 October 2023.

76. **S.M. Sapuan,** How to publish in high impact journals, *presented at Faculty of Mechanical Engineering, Clean Room, UTeM*, Melaka, 20 December 2023.

77. **S.M. Sapuan**, R.A. Ilyas and M.R.M. Asyraf**,** Safety and Heath in Composite Industry, *Knowledge Exploration Webinar*, Universitas Jember, Indonesia, 23 April 2024.

78. **S.M. Sapuan**, Circular economy through research on tropical natural fibre composites, *Webinar by Esteem Guest Speaker*, Universidate do Minho, Campus de Azurem, Minho, Portugal, 2 May 2024.

79. **S.M. Sapuan**, R.A. Ilyas and M.R.M. Asyraf**,** Safety and Heath in Composite Industry, *Webinar on Forum on Intellectual Inquiry*, BRIN, Cibinong, Bogor Regency, West Java, Indonesia, 3 May 2024.

80. **S.M. Sapuan,** Sesi perkongsian motivasi sepanjang karier sebagap pensyarah dan penyelidik, *Majlis Apresiasi & Tautan Ahli 2024 (MATA 2024), Persatuan Pembangunan dan Industri Enau Malaysia*, Bangi Resort Hotel, 18 May 2024.

81. **S.M. Sapuan,** Overview of natural fibre composite research at Universiti Putra Malaysia, Presented during *A visit to School of Mechanical and Aerospace Engineering, Queen's University, Belfast*, Northen Ireland, UK, 3 July 2024.

82**.** **S.M. Sapuan,** Writing a good thesis, *Postgraduate Talk,* Presented at Fakulti Teknologi dan Kejuruteraan Mekanikal, Universiti Teknikal Malaysia Melaka, Alor Gajah, Melaka, 24 July 2024.

83. S. Hamat, M.R. Ishak, **S.M. Sapuan**, N. Yildris, M.S. Hussin and M. Ibrahim, Surface interaction strength effects in recycled PLA/PDA and kenaf fibre 3D printing filament composites through experimental and finite element analysis, *Proceedings of South East Asia-Japan Conference on Composite Materials (SEAJCCM 2024),* Royal Chulan Hotel, Kuala Lumpur, Malaysia, 13-15 August 2024, pp. 63-65 (e-ISBN 978-629-96647-2-7).

84. **S.M. Sapuan**, Application of biocomposites and nanocellulose biocomposites, Presented at *Webiner Series #93, Organisasi Riset Hayati dan Lingkungan, Pusat Riset Biomassa dan Bioproduk*, BRIN, Cibinong, Bogor Regency, Wet Java, Indonesia, 4 December 2024.

85. **S.M. Sapuan**, Nanocellulose biocomposites: Performance, fabrication and Application, *Sharing Session as External Examiner*, Universiti Malaysia Sabah, 18 December 2024.

86. **S.M. Sapuan**, Motivational speech (delivered in Urdu language), *presented to students of Government College of Technology,* Kamelia, Pakistan 21 February 2025.

87. **S.M. Sapuan**, Performance and applications of natural fibre biopolymer composites and

nanocellulose polymer composites, *A lecture presented as a requirement for the TWAS Award in Engineering Sciences 2024*, 12 March 2025.

88. **S.M. Sapuan**, Invited lecture, Composite materials in automotive industry including review in tyre application*, Technical Talk to Staff of Shandong Linglong Tyre Co. Ltd*, China, 15 March 2025.

89. **S.M. Sapuan**, Overview of SULAM projects, Presented at *Ecoplay and Glow: Grease and Greatness, SULAM program at Sekolah Kebangsaan Seri Serdang*, Selangor, 18 June 2025.

90. **S.M. Sapuan**, Fail forward: Finding strength, strategy and success in research – Unlocking the Researcher Within, *Invited Talk,* Faculty of Engineering, Universiti Putra Malaysia, 2 September 2025.

PART B - INVITED MOTIVATIONAL/PUBLICATION SEMINARS

1. **S.M. Sapuan**, Some notes on publication**,** Presented at *Mountainous Terrain Development Research Centre Seminar (MTD-RC), Universiti Putra Malaysia*, Serdang, Selangor, Malaysia, 28 November 2000.

The following four invited lectures were presented at Workshop on Journal Paper Writing Series 1 organized by IDRC, UiTM, Shah Alam, Malaysia**:**

2. **S.M. Sapuan**, Publication in journals: overview, Presented at *Bengkel Penulisan Jurnal UiTM Siri1,* Shah Alam, Selangor, Malaysia, 14 May 2002.

3. **S.M. Sapuan**, Publication in journals: some observation, Presented at *Bengkel Penulisan Jurnal UiTM Siri 1,* Shah Alam, Selangor, Malaysia, 14 May 2002.

4. **S.M. Sapuan**, Publication in journals: comments from referees, Presented at *Bengkel Penulisan Jurnal UiTM Siri 1*, Shah Alam, Selangor, Malaysia, 14 May 2002.

5. **S.M. Sapuan**, Publication in journals: hand-on training, Presented at *Bengkel Penulisan Jurnal UiTM Siri 1,* Shah Alam, Selangor, Malaysia, 14 May 2002.

The following three invited lectures were presented at Workshop on Journal Paper Writing Series 2 organized by IDRC, UiTM, Shah Alam, Malaysia**:**

6. **S.M. Sapuan**, An approach to publication in journals: part 1, Presented at *Bengkel Penulisan Jurnal UiTM Siri 2,* Shah Alam, Selangor, Malaysia, 24 October 2002.

7. **S.M. Sapuan**, An approach to publication in journals: part 2, Presented at *Bengkel Penulisan Jurnal UiTM Siri 2,* Shah Alam, Selangor, Malaysia, 24 October 2002.

8. **S.M. Sapuan**, An approach to publication in journals: part 3, Presented at *Bengkel Penulisan Jurnal UiTM Siri 2,* Shah Alam, Selangor, Malaysia, 24 October 2002.

9. **S.M. Sapuan**, Writing final year project report, Paper presented at *Bengkel Penulisan Laporan untuk Pelajar-Pelajar Tahun Akhir KMP*, 12 November 2002, Serdang, Selangor, Malaysia**.**

The following three invited lectures were presented at Workshop on Journal Paper Writing organized by

INTEC, UiTM, Shah Alam, Malaysia**:**

10. **S.M. Sapuan**, A motivation on publication in journal, Presented at *Bengkel Penulisan Jurnal untuk Pensyarah INTEC (International Education Center), UiTM Seksen 17, Shah Alam*, Selangor, Malaysia, 29 March 2003**.**

11. **S.M. Sapuan**, Guidelines to write paper in journal, Presented at *Bengkel Penulisan Jurnal untuk Pensyarah INTEC (International Education Center), UiTM Seksen 17, Shah Alam*, Selangor, Malaysia, 29 March 2003**.**

12. **S.M. Sapuan**, Issues related to publication in journal, Presented at *Bengkel Penulisan Jurnal untuk Pensyarah INTEC (International Education Center), UiTM Seksen 17, Shah Alam*, Selangor, Malaysia, 29 March 2003**.**

13. **S.M. Sapuan**, Writing final year project thesis, Paper presented at *Workshop on How to Write the Final Year Project Thesis*, 6 January 2004, Serdang, Selangor, Malaysia**.**

14. **S.M. Sapuan**, Journal paper publication, Paper presented at *Workshop on Journal Writing and Publication*, 2-4 July 2004, Melaka, Malaysia.

15. **S.M. Sapuan**, Ke arah kecemerlangan akademik: Bagaimana untuk memperbaiki CGPA anda? Paper presented at *Majlis Ramah Mesra bersama Pelajar Jabatan Kejuruteran Mekanikal dan Pembuatan, UPM*, Serdang, Selangor, Malaysia, 9 July 2004.

16. **S.M. Sapuan**, Kaedah pembelajaran berkesan, *Majlis Penasihat Akademik Bersama Pelajar Sempena Bulan Pensyarah*, 28 December 2004, Serdang, Selangor, Malaysia.

17. **S.M. Sapuan**, The importance of journal publication, *Journal Publication Workshop KMP*, Putrajaya, Malaysia, 11 -12 September 2012.

The following three invited lectures were presented at Seminar on Academic Writing organized by UiTM Perlis, Arau, Perlis, Malaysia**:**

18. **S.M. Sapuan**, A motivation on publication in journal, Presented at *Seminar in Academic Writing*, UiTM Perlis**,** Kampus Arau, Perlis, Malaysia, 9 April 2005.

19. **S.M. Sapuan**, Guidelines to write paper in journal, Presented at *Seminar in Academic Writing*, UiTM Perlis**,** Kampus Arau, Perlis, Malaysia, 9 April 2005.

20. **S.M. Sapuan**, Issues related to publication in journal, Presented at *Seminar in Academic Writing*, UiTM Perlis**,** Kampus Arau, Perlis, Malaysia, 9 April 2005.

21. **S.M. Sapuan**, Perkara-perkara yang merosakkan hubungan/kesatuan**,** *Kem Bina Semangat/Team Building of Faculty of Engineering, UPM,* 20-22 January 2006, Dusun Eco Resort, Bentong, Pahang, Malaysia.

The following three invited lectures were presented at Seminar on Writing Journal Papers and Proceedings organized by Universiti Kuala Lumpur (BMI), Gombak, Malaysia**:**

22. **S.M. Sapuan**, A motivation on publication in journal and proceedings, Presented at *Seminar on Writing Journal Papers and Proceedings*, Universiti Kuala Lumpur, British Malaysian Institute,

Gombak, Selangor, Malaysia, 8 March 2006.

23. **S.M. Sapuan**, Guidelines to write paper in journal and proceedings, Presented at *Seminar on Writing Journal Papers and Proceedings*, Universiti Kuala Lumpur, British Malaysian Institute, Gombak, Selangor, Malaysia, 8 March 2006.

24. **S.M. Sapuan**, Issues related to publication in journal and proceedings, Presented at *Seminar on Writing Journal Papers and Proceedings*, Universiti Kuala Lumpur, British Malaysian Institute, Gombak, Selangor, M*alaysia, 8 March 2006.*

25**.** **S.M. Sapuan**, Kerjaya dalam bidang Kejuruteraan, *Taklimat kepada Pelajar Tahun 5 Sekolah Bandar Baru Sri Petaling 1,* Fakulti Kejuruteraan, UPM, Serdang, 6 September 2006.

26. **S.M. Sapuan**, Writing a paper in scientific journal, *Workshop on Journal Paper Writing*, 14 December 2006, Serdang, Selangor, Malaysia.

The following two invited lectures were presented at Workshop on Journal Paper Writing organized by ITMA, UPM, Malaysia**:**

27. **S.M. Sapuan**, Publishing paper in scientific journal, *Workshop on Journal Paper Writing to Science Officers, Institute of Advanced Technology (ITMA), Universiti Putra Malaysia*, 21 February 2007, Serdang, Malaysia.

28. **S.M. Sapuan**, Motivation to journal publication, *Workshop on Journal Paper Writing to Science Officers, Institute of Advanced Technology (ITMA), Universiti Putra Malaysia*, 21 February 2007, Serdang, Malaysia.

29. **S.M. Sapuan,** Format and physical requirement of the report**,***Bengkel Penulisan Projek Tahun Akhir Bachelor Kejuruteraan (Mekanikal) dan Program Master Tanpa Tesis Sistem Pembuatan dan Pengurusan Kejuruteraan*, Serdang, Malaysia, 6 March 2007.

30. **S.M. Sapuan**, Writing and publishing paper in scientific journal**,** *Seminar* presented to Malay Postgraduate Students of University of Bradford, Bradford, UK, November 2007.

31. **S.M. Sapuan**, Publication in journal from student's thesis**,***Scientific Writing Workshop*, Invited lecture presented to Academic Staff of Faculty of Computer Science and Information Technology, Universiti Putra Malaysia, Serdang, Selangor, Malaysia, 6th May 2008.

32. **S.M. Sapuan**, New life in university**,** *Motivational Seminar*, presented to First Year KMP Students during orientation week (Minggu Perkasa Putra Sesi 2008/2009), Faculty of Engineering, UPM, Malaysia, 2 July 2008.

33. **S.M. Sapuan**, Strategic plan at KMP, UPM, *Bengkel Pelan Strategik dan Halatuju Jabatan Kejuruteraan Mekanikal dan Pembuatan, UPM*, Tiara Beach Resort, Port Dickson, Negeri Sembilan, 27-29 November 2008.

34. **S.M. Sapuan**, Effective journal writing: do's and dont's in writing and publishing journal papers, *Bengkel Penulisan Akademik (Academic Writing Workshop)*, ITMA, UPM, A Famosa Resort, Melaka, 22-24 December 2008.

35. **S.M. Sapuan**, Journal paper publication**,** *Bengkel Penulisan INTROP*, Tiara Beach Resorts, Port Dickson, 19th March 2009.

36. **S.M. Sapuan**, 'Selamat Datang': Taklimat Bersama Profesor Ir Dr Mohd Sapuan Salit, *Program Bersama Jabatan, Minggu Perkasa Putra 2009/2010, Faculty of Engineering, UPM*. Serdang, 1st July 2009.

37. **S.M. Sapuan**, Sharing effective habits for successful publication – a strategy**,** *Technical Talk,* Seminar Hall, Faculty of Engineering, UPM, Serdang, Selangor, 14 August 2009.

38. **S.M. Sapuan**, Journal paper publication**,** *Workshop on Research Publication*, Department of Mechanical Engineering, Universiti Pertahanan Nasional Malaysia, Kuala Lumpur, 7 June 2010.

39. **S.M. Sapuan**, Nurturing research icon**,** *Speech* during Competency Level Assessment Course (PTK 6), for Professional and Management Group (Academic), Series 1/2010, Universiti Putra Malaysia, Serdang, 22nd June 2010.

40. **S.M. Sapuan**,Effective study method**,** *Motivational Talk and Dialogue,* Sekolah Menengah Teknik, Ipoh, Perak, 8 July 2011 (Invited as a Guest of Honour to officiate School Curriculum Excellent Award Ceremony).

41. **S.M. Sapuan**, H index, Presented at *Bengkel Hala Tuju Jabatan Kejuruteraan Mekanikal dan Pembuatan 2012*, Palm Garden Hotel, IOI Resort, Putrajaya, 8 March 2012.

42. **S.M. Sapuan**, Publish and flourish**,** Presented during *Briefing for New Postgraduate Students Second Session 2011/2012*, Deputy Dean (Reseach) Office, Faculty of Engineering, UPM, Serdang, Malaysia, 16 March 2012.

43. **S.M. Sapuan**, Publish and flourish**,***SURERG/REFRAG/HIREFJournal Publication Workshop*, Energy Research Alliance, Universiti Teknologi Malaysia, Johor Bahru, Johor, Malaysia, 8-9 October 2012.

44. **S.M. Sapuan**, Knowledge sharing: techniques in preparing final examination questions**,** *Bengkel Penyelarasan Komponen OBE, Fakulti Kejuruteraan Mekanikal, Universiti Teknikal Malaysia Melaka (UTeM)*, Melaka, Malaysia, 23-24 November 2012.

45. **S.M. Sapuan**, Knowledge sharing in writing technical papers**,** *Workshop on Journal Paper Writing*, Universitas Malahayati, Bandar Lampung, Indonesia, 11 December 2012.

46. **S.M. Sapuan**, Penulisan tesis tahun akhir, presented at *Bengkel Penulisan Tesis Projek Tahun Akhir*, Universiti Teknikal Malaysia Melaka, 27 March 2013.

47. **S.M. Sapuan**, Knowledge sharing in writing journal papers, Seminar presented *during Visiting Professorship Visit*, Universiti Teknikal Malaysia Melaka, 28 March 2013.

48. **S.M. Sapuan**, How to publish in high impact journals, presented at *Bengkel Penulisan Kumpulan Penyelidikan 2013, Pusat Pengajian Teknologi Maklumat, Fakulti Teknologi dan Sains Maklumat*, *Universiti Kebangsaan Malaysia*, Bangi, 22 April 2013.

The following three invited lectures were presented at Bengkel Penulisan dan Penilaian Jurnal Berimpak, UTM KL, Hotel Seri Malaysia, Port Dickson, Negeri Sembilan, Malaysia, 4-5 June 2013**:**

49. **S.M. Sapuan**, "Publish and flourish", "publish or perish"! no more now "be found and perish".

50. **S.M. Sapuan**, Sharing experience in research and journal publication.

51. **S.M. Sapuan**, Hands-on tutorials on journal paper publication.

52. **S.M. Sapuan**, Menerobos cabaran di university penyelidikan, presented at *Minggu Perkasa Putra Sesi 2013/2014,* Universiti Putra Malaysia, 3rd September 2013.

The following three papers were presented in *Bengkel Penulisan Journal Siri 1/2013, Transportation Research Alliance, Universiti Teknologi Malaysia,* Melaka, 6 – 8 September 2013.

53. **S.M. Sapuan** and Y.A. El-Shekeil, How to publish in Impact Factor journal.

54. **S.M. Sapuan** and Y.A. El-Shekeil, Academic integrity/authorship/plagiarism.

55. **S.M. Sapuan** and Y.A. El-Shekeil, Journal clarification, selection, source and searching,

56. **S.M. Sapuan**,Perbincangan Penulisan Bersama Prof Mohd Sapuan Salit, *Workshop on High Impact Journal Writing 2013,* Kajang/Putrajaya, 30-31 October 2013.

The following two papers were presented in *Bengkel Penulisan Jurnal Berimpak Tinggi*, Dewan Konvensyen, UTeM Kampus Bandar, Melaka , 7 – 8 November 2013.

57. **S.M. Sapuan**, How to write high impact journal.

58. **S.M. Sapuan**, Manuscript submission process and journal selection.

59. **S.M. Sapuan**, Writing and publishing a journal paper: A guide, presented at *Workshop on High Impact Journal Writing*, 26-27 August 2014, Kompleks Perkhidmatan Makanan (L'Apprenti), UPM, Serdang, Selangor.

60. **S.M. Sapuan**, Writing and publishing a journal paper: A guide, presented at *Two-Day High Impact Journal Writing and Publishing Workshop*, 3-4 June 2015, Faculty of Engineering, UPM, Serdang, Selangor.

The following three topics were presented during *A Half Day Talk on Recent Development of Natural Fibre Composites in Malaysia*, 7 October 2015, Pekan, Pahang, Malaysia.

61. **S.M. Sapuan**, Strategies for publication in international journal (Q1 – ISI indexed).

62. **S.M. Sapuan**, How to publish a good book in world class publisher.

63. **S.M. Sapuan**, Thesis by publication, *Taklimat Thesis by publication, Faculty of Agriculture, UPM*, Dewan Pertanian, Faculty of Agriculture, UPM, Serdang, Selangor, Malaysia, 22 October 2015.

64. **S.M. Sapuan**, Journal paper publication: A guide, *Talk during External Examiner's Visit to Faculty of Engineering, Universiti Malaysia Sarawak*, Kota Samarahan, Sarawak, Malaysia, 29 October 2015.

65. **S.M. Sapuan**, Kata aluan mentor, Presented *at "Writing Cells" Workshop – Program to Increase High Impact Publication (Q1), UPM*, Hotel RHR@UNITEN, Universiti Tenaga Nasinal, Kajang, Selangor, 20 November 2015.

66. **S.M. Sapuan**, Strategies for writing and publishing in high impact journals, Presented at *'High-impact Journal Writing and Publishing Workshop Series 1/2016, Faculty of Environmental Studies, UPM,* , 16 – 17 February 2016, Serdang, Malaysia.

67. **S.M. Sapuan**, Review on the section of Methodology of the study and Results and Discussion Section, Presented at *'High-impact Journal Writing and Publishing Workshop Series 1/2016, Faculty of Environmental Studies, UPM,* , 16 – 17 February 2016, Serdang, Malaysia.

68. **S.M. Sapuan**, Review on the literature and introduction section, Presented at *'High-impact Journal Writing and Publishing Workshop Series 1/2016, Faculty of Environmental Studies, UPM,* , 16 – 17 February 2016, Serdang, Malaysia.

69. **S.M. Sapuan**, Review on the conclusions and further research, abstract and selecting a powerful title, Presented at *'High-impact Journal Writing and Publishing Workshop Series 1/2016, Faculty of Environmental Studies, UPM,* , 16 – 17 February 2016, Serdang, Malaysia.

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71. **S.M. Sapuan**, Plagiarism a persistent problem on campuses, Presented at *'High-impact Journal Writing and Publishing Workshop Series 1/2016, Faculty of Environmental Studies, UPM,* , 16 – 17 February 2016, Serdang, Malaysia.

72. **S.M. Sapuan**, Focus and aim of postgraduate studies at INTROP, UPM,.*Motivational..Talk for Postgraduate Students at INTROP, UPM*, Serdang, Selangor, Malaysia, 2nd March 2016.

73. **S.M. Sapuan**, Academic excellence though journal publication, presented at *Workshop on High Impact Journals: Writing and Publishing*, 10-11 August 2017, Serdang, Selangor, Malaysia.

74. **S.M. Sapuan**, Tanggung jawab dakwah peranan semua Muslim, *Ceramah Bulanan, Surau Uthman ibni Affan, Kondominium Gurney Height, Bukit Keramat*, 22 September 2017, Kuala Lumpur, Malaysia.

75. **S.M. Sapuan**, UPM author experience in publishing with Emerald, presented in *Guide to Getting Published Workshop 2017*, UPM Library, Serdang, Selangor, 26th October 2017.

76. **S.M. Sapuan**, Effective approach to journal paper publication, *Seminar presented during research attachment at Faculty of Mechanical Engineering, Universiti Malaysia Pahang*, Pekan, Pahang, Malaysia, 17th January 2018.

77. **S.M. Sapuan,** Publishing in Q1 and Q2 Journals in Clarivate Analytics, *Seminar presented*, Organized by Deputy Dean (Postgraduate) Division, Faculty of Engineering, UPM and Faculty of Engineering Postgraduate Students Committee (FEPSC), UPM, Dewan Seminar, Faculty of Engineering, Universiti Putra Malaysia, 14th February 2019.

78. **S.M. Sapuan**, Publishing in high impact journals, Presented during *Workshop for Graduate and Postgraduate Students*, National Textile University, Faisalabad, Pakistan, 19th March 2019.

79. **S.M. Sapuan**, Sharing session: Q1Q2 journal writing, presented at *Bengkel Penulisan Berimpak Q1 & Q2*, Organized by Division of Research and Innovation, Faculty of Engineering, Universiti Putra Malaysia, Dewan Seminar, Faculty of Engineering, Universiti Putra Malaysia, 27th March 2019.

80. **S.M. Sapuan**, Sharing experience in journal and other publications, presented at *Writing Scientific Research Publication Workshop*, Upper Tier Left Wing, Dewan Tun Chancellery,Multimedia University, Cyberjaya, Selangor, Malaysia, 4th April 2019.

81. **S.M. Sapuan**, Writing and publishing a journal paper, presented at *Workshop on Scientific Article Writing for High Impact Journal*, INTROP, Universiti Putra Malaysia, Serdang, Selangor, Malaysia, 28th November 2019.

82. **S.M. Sapuan**, Why a manuscript was rejected, presented at *Online Discussion on Publication*, ZOOM, Green Engineering Society, Payakumbuh, 50 Kota District, West Sumatera, Indonesia, 3rd June 2020.

83. **S.M. Sapuan,** High impact publication, *Sharing Session with Materials Technology Program researchers' group under the Field of Composite Materials and Polymers, Universiti Malaysia Kelantan Jeli Campus*, Jeli, Kelantan, Malaysia, 20 December 2020.

84. **S.M, Sapuan**, What you ought to know about KPI in publication and supervision? *Sharing Session*, Department of Mechanical and Manufacturing Engineering, Universiti Putra Malaysia, 3 December 2021.

85. **S.M. Sapuan**, The A-to-Z of writing and publishing a high impact journal paper, *Bengkel Penulisan dan Penerbitan Jurnal Berimpak untuk Staf Akademik UniMAP*, Pauh, Perlis, Malaysia, 17 February 2022.

86. **S.M. Sapuan**, Motivasi belajar, *Majlis Jalinan Kasih UPM-SMK (LKTP) Jengka 16*, Bandar Tun Razak, Jengka, Pahang, 9 August 2022.

87. **S.M. Sapuan**, What are the qualities of a good researcher? Universiti Sains Malaysia, 25 October 2022 (200 participants).

88. **S.M. Sapuan**, Becoming an outstanding researcher: Reality or fantasy? *Talk Series 3.* Research Management Centre, International Islamic University, 2 November 2022, Zoom (52 participants).

89. **S.M. Sapuan,** Akademia cemerlang: Stress ke anda? Presented at *Bengkel Persatuan Pegawai Akademik (PPA), UPM*, Putra Learning Space (PLS), UPM, Serdang, Malaysia, 21 November 2022.

90. **S.M. Sapuan**, Ceramah jemputan, *Program Pengimarahan Surau ADTAC untuk Pelajar-Pelajar*, Proton Institute (ADTEC Melaka), Alor Gajah, Melaka, 22 Julai 2025.

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2. H. Masjuki and **S.M. Sapuan**, Performance and wear analysis of small diesel engine fuelled by palm oil blends, *Proceedings of the Fourth International Conference on Small Engines and their Fuels*, 21-24 September 1993, Chiang Mai, Thailand, pp. 7-13, Published by University of Chiang Mai, Thailand, ISBN 07049 08332.

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41. **Mohd Sapuan Salit**, External Assessor Report for Diploma of Engineering (Material Science), UCSI University, Kuala Lumpur, October 2016, submitted to Head of Department.

42. Muhammad Ammar Ishak and **Mohd Sapuan Salit**, Engineering Product Development Based on Sugar Palm Tree in Kg. Kuala Jempol, Final Report Under UCTC NBOS Scheme, submitted to Director, UCTC Universiti Putra Malaysia, October 2016.

43. **S.M. Sapuan**, Board of Study Report, For the Program: Bachelor of Engineeering Technology (Hons) – Advanced Composite Structures, Universiti Kuala Lumpur Malaysian Institute of Aviation Technology, January 2017.

44. **S.M. Sapuan**, Report of External Assessor for Bachelor of Engineering with Honours in Mechanical Engineering, Department of Mechanical and Materials Engineering, Universiti Kebangsaan Malaysia, March 2017.

45. **S.M. Sapuan**, Report by External Examiner, Bachelor of Mechanical Engineering, Faculty of Engineering, UCSI University, 12th October 2017, submitted to Head of Department.

46. **Mohd Sapuan Salit**, External Assessor Report,Master of Philosophy in Engineering Programme (MPhil/Engineering), Faculty of Engineering & Built Environment, UCSI University Kuala Lumpur , 1st March 2018, submitted to Head of Postgraduate Program Department.

47 M.T. Shamsul Bahri, H.M.S.N. Dayana, **S.M. Sapuan**, A.R. Abdul Rahman, A.B. Shahriman, N.Y. Guan, S. Misri, M.K.F. Abd. Rahman, K.N.Abd. Wahib and N. Senin, Final Research Report,

Effectiveness of Improving Safety Helmet through a Holistic Integration of Practice, Ergonomic, and Engineering Among Oil Palm Plantation Harvesters, 1st March 2017- 31st August 2018, submitted to Sime Darby Plantation.

48. Mohd Adzir Mahdi, **Mohd Sapuan Salit** and Borhanuddin Mohd Ali, Investigation Taskforce Team Report, 23rd September 2019, submitted to Chairman of Board of Directors, UPM.

49. **Mohd Sapuan Salit,** External Assessor Report, Bachelor of Science (Mechanical Engineering), Faculty of Information System and Engineering, MSU, Shah Alam, Malaysia, 6th October 2019, submitted to Head of Program, FISE, MSU.

50. **Mohd Sapuan Salit,** External Assessor Report, Bachelor of Engineering (Mechanical Engineering) Programme, Faculty of Engineering & Built Environment, UCSI University Kuala Lumpur, 16th October 2019, submitted to Head of Department of Mechanical and Mechatronic Engineering, UCSI University, Kuala Lumpur.

51. **Mohd Sapuan Salit**, Ahmad Ilyas Bin Rushdan, Mohamad Omar Syafiq Bin Razali, Nazrin Nurarief Mardi Bin Asmawi, Shah Faisal Khan Sherwani and Mohammad Hazrol Bin Md Damiri, Proposal of kenaf reinforced PLA biocomposites submitted to Dr Abdul Azim Abdul Rahman, Ssteelcase Berhad, Puchong, Selangor, 29 November 2019 For Potential Collaboration in Chair From Fully 'Green Materials.

52. **Mohd Sapuan Salit**, M.H. Mokhlis, Khalina Abdan and Ahman Ilyas Rushdan, Sustainable green Technology by Way of Transforming Disinfected Covid-19 Non-Woven Polypropylene Wastes into Briquette Char Through A Pyrolysis System, Final Report Special Research Grant Post Covis-19 submitted to Ministry of Higher Education Malaysia, 23 April 2021.

53. **Mohd Sapuan Salit** and Ahmad Yasir Mohd Said, Accreditation Report, Swaakreditasi (Self-Accreditation), Master of Science in Corrosion Engineering, Full Accreditation, Universiti Teknologi Petronas and Malaysia Qualification Agency, June -July 2021.

54. Mat Naim Abdullah, Dzurllkanian Daud and **Mohd Sapuan Salit**, Laporan Audit Akreditasi Penuh B(O)-QRiM-LAAP.07, Pusat Kualiti dan Pengurusan Risiko (QRiM), Fakulti Teknologi dan Informatik Razak, Executive Diploma In Facility Management, Universiti Teknologi Malaysia, 15 November 2021.

55. **S.M. Sapuan,** M.R. Mansor and **S**yahibudil Ikhwan bin Abdul Kudus, Project Report Miswak Holder for Al-Imtinaan Sdn Bhd, Kajang, Selangor (Consultancy report), 31 March 2023.

INTELLECTUAL PROPERTY RIGHTS

PATENTS

Machine tool for processing of bevel gears with spiral tooth, Malaysian patent, 2005
Wind power station, Malaysian Patent, 2009
Lumbar support system, Malaysian Patent, 2012
Ergonomic lumbar support, Malaysian Patent, 2013
Post Conditioning Machine, Malaysian Patent, 2015
Post conditioning machine, Chinese Patent, 2018
Two-wheeler child safety seat assembly, Malaysian patent, 2018

Process for converting solid plastic wastes to briquettes, Utility Innovation, 2024
Rattan fibre reinforced biopolymer composites, Indonesian patent, 2025.
Nanocellulose filled bamboo fibre reinforced green epoxy composites, Indonesian patent, 2025.

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- Putra Frame, 2017
- Operation Manual for Fabrication of green composite food tray, 2019
- Safety helmet, 2019
- Development of Thermally Stable Polycrystalline Photovoltaic Module Based Biocomposite Materials, 2020
- Operation to fabricate of epoxy composite filled with recycled face masks (video), 2023
- Manual to produce biodegradable motorcycle battery housing part, 2023
- Operation manual to fabricate of epoxy composite filled with recycled face masks (Manual), 2023
- Manual to fabricate banana pseudo-stem (BPS)-UPVC composite square plate, 2024
- Power bank design for electric car battery, 2025

INDUSTRIAL DESIGNS

- Table, 2004
- Coffee Table, 2015

TRADEMARKS

- Sugar palm fibers® , 2017
- Sugar palm starch®, 2017

PRODUCTS COMMERCIALIZED

Putra Frame; Sugar palm starch; Sugar palm fibre; Palm sugar; Sugar palm fruits

TOTAL SALES Over RM 500,000

SPIN-OFF COMPANY = Hafiz Adza Enterprise, Kuala Jempol, Negeri Sembilan

MAIN COMMITTEE MEMBERSHIP

CONFERENCES/SEMINARS CHAIRED

1. Chairman of Technical Committee, Annual Workshop on National Science Foundation Research Scholarship, Ministry of Science, Technology and Environment, Malaysia, Sheraton, Kuala Lumpur, 2000.

2. Eight International Conference on Composite Science and Technology (ICCEST/8), Kuala Lumpur, 2011.

3. Postgraduate Symposium on Composites Science and Technology, Putrajaya, 2014.

4. INTROP Research Colloquium 2015, Kajang, Selangor, Malaysia

5. Postgraduate Symposium on Biocomposite Technology, Serdang, 2015.

6. Program Pemindahan Ilmu Bagi Pembangunan Produk Kejuruteraan Berasaskan Pokok Enau (Sugar Palm), Kampung Kuala Jempol, Bahau, Negeri Sembilan, Malaysia, 22 Nov. 2015.

7. National Sugar Palm Seminar, Negeri Sembilan, 2019

8. International Symposium on Polymeric Materials (ISPM 2022), Serdang, June 2022 (Upgrade from National Symposium)

9. Wood and Biofiber International Conference (WOBIC2021), Bangi, Malaysia, Nov 2021

10. International Conference on Advanced Engineering Materials and Composites 2024 (ICAEMC 2024), Serdang, Malaysia, May 2024.

11. Roselle Nexus Initiatives Towards Sustainability – A SULAM Symposium, Serdang, Malaysia, June 2024.

12. Chairman, Training on Life Cycle Assessment, INTROP, UPM, Serdang, Malysia, 29 April 2024.

13. The 9th Postgraduate Seminar on Natural Fibre Composites (9NFC), Serdang, Malaysia, December 2024

14. Advisor, International Conference on Sugar Palm and Natural Fibre Polymer Composites, 28-29 October 2025, Bangi, Malaysia.

15. Over 110 conference advisory/committee member

Duration	Main Committee Membership/Contribution
2025-now	International Expert Advisory Board, University of Kamalia, Pakistan.
2025	Founding Fellow, International Academy of Bionic Science, International Society of Bionic Engineering, China, the main responsibility is to select fellows.
2025	Invited Speaker, Technical Talk to Staff of Shandong Linglong Tyre Co. Ltd, China
2025	Round Table Program, Azerbaijan State Oil & Industry university, Baku, Azerbaijan, 25 April.
2024	Participated and Launching of my five books, Putrajaya Festival of Ideas (Putrajaya FOI) 27-29 November., PICC, Putrajaya, Malaysia.
2024	Moderator of Penal Discussion, Theme: New and Emerging Smart Sustainable Materials for the Tropics, 2nd International Conference on Tropical SciencesTropSc 2024: Harmonising Humanity with Nature, The Tropical Science Foundation and the Academy of Sciences Malaysia, 16-17 October 2024, Kuching, Sarawak.

2024	2024 Editorial Board Meeting, Defence Technology, Qujiang International Conference Center, Xian, China, 23 September 2024.
2024	Taskforce, Draft of Guidelines for Academic Staff Promotion, Ministry of Higher Education, Malaysia
2024	Member of the Independent Expert Committee for the Evaluation of The Candidates for the 2026 Award in Engineering & Computer Sciences, TWAS Award, Triesta, Italy
2024	Panel of Assessor for Monitoring Session Technical and Financial Performance for Research Project Under International Matching Research Grant *Spain Innovating Programme* (MySIP), Department of Higher Education, Ministry of Higher Education, Malaysia
2023	Interview Panel of Assessor, Federal Training Prize, Ministry of Higher Education Malaysia
2023 – now	Advisory Panel, Fillip Sdn. Bhd., Putrajaya, Malaysia
2023	Interview Panel for the Post Deputy Vice Chancellor, Universiti Putra Malaysia (UPM)
2023	Member of Delegation from Malaysia, Second Meeting of the D8 Network of Pioneers for Research and Innovation (D-8 NRPI), Islamabad, Pakistan
2022-2024	Committee Member for Research University (JKRU), Department of Higher Education, Ministry of Higher Education, Malaysia,
2022-2024	Member of Plastic Sustainability and Circularity Working Group Focussing on Biodegradable/ Alternative to Conventional Plastics, Division of Environmental Management, Ministry of Natural Resources and Environmental Sustainability, Malaysia
2022	The Trainer for the Development of Green, Industry Training and Seminar – Manufacturing Sector, Malaysian Green Technology and Climate Change Corporation (MGTC), Malaysia
2022- now	Selection Panel, CREAM Journal Award, Ministry of Higher Education Malaysia
2022- 2027	Technical Committee Member for Program of Malaysia's Research Star Award, Ministry of Higher Education Malaysia
2022 - 2027	Technical Committee Member for Assessment of MyCite Journal, Ministry of Higher Education Malaysia
2022- 2024	Committee Member for Publication, UPM
2022-2024	Panel of Assessor for Monitoring Session for Progress Reports and Financial Standings for Research Projects under International Matching Research Fund (Mypair) - Newton STFC: Use of The Isis Neutron and Muon Source, UK, Department of Higher Education, Ministry of Higher Education Malaysia
2022	Panel of Assessor, Vice Chancellor Fellowship Award, UPM
2022	Chairman, Special Committee for Inaugural Lecture, Faculty of Engineering, UPM
2022 – now	Certified TRIZ Level 3 Practitioner, MyTRIZ, Malaysia
2021-2023	Selection Panel, Top Research Scientists Malaysia (TRSM), Academy of Sciences Malaysia
2021-2022	Panel of Assessor, National Young Scientist Award, Ministry of Science, Technology and Innovation, Malaysia
2021-2022	Panel of Assessor, National Technician Award, Ministry of Science, Technology and Innovation, Malaysia
2021 - 2022	Editor-In-Chief, INTROPICA, INTROP, UPM

2021	Chairman of Working Group, Ecolabelling Product Criteria Document (PCD) for Air Conditioner, SIRIM STS Sdn Bhd, Shah Alam, Malaysia
2020- now	Technical Committee on Fire Properties of Building Materials Standard, Department of Standard, Malaysia
2020-2022	Patron, Society of Sugar Palm Development & Industry, Malaysia (PPIEM)
2019	Member, Investigation Taskforce, Under Universiti Board of Director Office, UPM
2019	Chairman, Open Day Malaysian Society of Sugar Palm Development & Industry (PPIEM), Bahau, Negeri Sembilan, Malaysia
2018-2019	Panel of Jury, Creation, Innovation, Technology & Research Exposition (CITREX), Universiti Malaysia Pahang.
2018	Committee Member for Assessment of Research And Innovation Award, UPM
2018	Certified Publon Academy Mentor, Publons Academy, USA
2017-2019	Non-Executive Board of Director, Hafiz Adha Enterprise, Kuala Jempol, Bahau, Negeri Sembilan, Malaysia
2017-2020, 2022- now	Founder Chairman, Society of Sugar Palm Development & Industry Malaysia (PPIEM)
2016-2018	Panel of Assessor, Study Program, UPM
2015- 2024	Head of Panel of Assessors for Various Grants in Material Science and Technology Cluster, UPM
2015-2016	External Examiner, Programme of Bachelor Degree in Mechanical and Manufacturing Engineering, Faculty of Engineering, Universiti Malaysia Sarawak (UNIMAS), Kota Samarahan, Sarawak, 2015-2016.
2015 – 2023	Judge, Materials Lecture Competition, Institute of Materials, Malaysia
2015-2017	Mentor, Writing Cells, Research Management Centre, UPM
a. 2014-2017 b. 2024-now	a) Funding Committee Member b) Auditor, Surau A-Muttaqeen, Bandar Nusaputra, Puchong, Selangor
2013-2014	Committee Member, Parents Teachers' Association (PIBG), SMK Putra Perdana, Puchong, Selangor
2013	Selection Committee Member, Young Scientist Award, Asian Polymer Association, India
2013	Member of Working Group, Workshop to Explore Scientific Exchange and Collaboration with KTH Royal Institute of Technology, Sweden, Academy of Science Malaysia
2012	Reviewer, Proposal for a K-Project of the Austrian Competence Centres for Excellent Technologies (COMET) Christian Doppler Research Association (CDG), Austria.
2012 – 2014	Judge, IIUM Research, Invention and Innovation Exhibition (IRIIE), International Islamic University, Jalan Gombak, Kuala Lumpur
2012	Committee Member for Student Investigation, School of Graduate Studies, UPM
2012	Mentor, English Language Immersion, Faculty of Engineering, UPM
2011	Panel of Assessor, Industrial PhD, Ministry of Higher Education, Malaysia
2010-2012	Management Committee Member, Plastics and Rubber Institute Malaysia
2009	Member of Selection Committee, Evaluation for the Nomination of Vice Chancellor Fellowship Prize (Excellence in Research), UPM

2009	Reviewer, Research Reports, Research Centre, King Saud University Riyadh, Saudi Arabia
2009-2014	External Examiner/Assessor, Bachelor of Engineering Technology (Hons) In Manufacturing Systems Programme, Universiti Kuala Lumpur, Institute of Product Design and Manufacturing (UNIKL IPROM).
2008-2010	External Academic Assessor, Department of Manufacturing Design, UTeM, Melaka, Malaysia.
2008	Technical Committee on Plastic Tank Standard, SIRIM Bhd., Shah Alam, Malaysia
2009-now	Associate Professor/Professor Promotion Assessor/Referee for the University of Western Australia, Australia, University of Southern Queensland, Toowoomba, Queensland, Australia, Science Division the Higher Colleges Of Technology, UAE, National Textile University, Pakistan, Hashemite University, Jordan, Public Authority of Applied Education And Training (PAAET), Kuwait, Qatar University, Government College Women University Faisalabad, Pakistan, Universiti Teknologi Brunei, Brunei Darus Salam, Kuwait University, King Fahd University of Petroleum and Minerals, Saudi Arabia, National University of Science and Technology (NUST), Islamabad, Pakistan, University of Engineering and Technology (UET) Taxila, Pakistan, Bahauddin Zakariya University, Pakistan, Botswana University of Science and Technology, and Al-Balqa Applied University, Jordan.
2008	Panel of Assessor, Engineering Research Award, Yayasan Perak, Malaysia
2008-2017	Vice President, Asian Polymer Association, New Delhi, India
2007-2012	National Point Contact Representative (NPCR), Regional Network for Energy Technology in South East and Pacific Under UNESCO, Putrajaya, Malaysia
2005-2007	Editor In Chief, PERINTIS, Faculty of Engineering Bulletin, UPM
2005-2007	Administrative Committee Member, Institute of Energy Malaysia
2009-2010	Committee Member, Masjid Putra Perdana, Puchong, Selangor
2005-2009	Founding Chairman, Surau Al-Falah, Taman Puncak Jalil, Seri Kembangan, Selangor
2005-2007	Deputy Chairman, Parents Teachers Association (PIBG), Sekolah Kebangsaan Sri Petaling 1, Kuala Lumpur
2004	Reviewer For Application of Industrial Research and Development Grant Scheme (IGS (R&D)), Research and Development of Manufacturing Hovercraft in Malaysia, Ministry of Science, Technology and Innovation, Malaysia (MOSTI), Putrajaya, Malaysia
2004	Focal Point, Issues related to Management of Production and Process Control, A Study on Level of Quality of Vendors Supplying Components to PROTON Bhd, National Productivity Corporation, Petaling, Jaya, Malaysia
2003	Technical Committee Member of Working Group, Malaysian Standard on "Steel Bars, Wire Rods and Wire Products", SIRIM Berhad, Shah Alam, Selangor, Malaysia
2003	Judge, Poster Exhibition and Oral Presentation, Seminar on Short Term Research, Universiti Malaya
2003-2007	Advisor, Mechanical Club, Faculty of Engineering, UPM

2003- now	External Assessor for 140 Candidates for Promotion to Associate Professors and Professors for Malaysian Universities
2003-2004	Member of Panel of Evaluators, Publication Quality Award, Universiti Malaysia Sabah, Kota Kinabalu, Sabah
1999-2000	Assistant Secretary, Study Team for Malaysian Engineering Education Model, Institution of Engineers, Malaysia, and Malaysian Council of Engineering Deans
1999 – now	Panel Of Assessor, Lembaga Akreditasi Negara (LAN) /Malaysian Qualification Agency (MQA)

CURRICULUM DEVELOPMENT

BACHELOR DEGREE/DIPLOMA IN ENGINEERING PROGRAM EXTERNAL ASSESSOR

Faculty of Engineering, Universitas Jember, Indonesia; Universiti Kuala Lumpur IPROM; Faculty of Engineering, Universiti Kebangsaan Malaysia; MJIIT, Universiti Teknologi Malaysia; Faculty of Engineering, Universiti Malaysia Sarawak; Faculty of Information Science and Engineering, Management Science University; Faculty of Engineering Technology and Built Environment, UCSI University; Faculty of Manufacturing Engineering, Universiti Teknikal Malaysia Melaka; ;Faculty of Mechanical Engineering, Universiti Teknikal Malaysia Melaka; School of Mechanical Engineering, Universiti Sains Malaysia; School of Industrial Technology, Universiti Sains Malaysia, Faculty of Mechanical Engineering Technology, Universiti Malaysia Perlis; Faculty of Engineering, Universiti Malaysia Sabah; Faculty of Science, Universiti Teknologi MARA.

MASTER/PHD/DENG PROGRAM EXTERNAL ASSESSOR

Universiti Teknikal Malaysia Melaka; Universiti Teknologi Petronas; Universiti Teknologi Malaysia; UCSI University; Universiti Kuala Lumpur, MFI, ICOLE; Universiti Malaysia Sarawak, Universiti Malaysia Sabah

MEMBER BOARD OF STUDIES/ADVISOR

University of Kamalia, Pakistan, Universiti Teknikal Malaysia Melaka; Universiti Malaya; International Islamic University Malaysia; Universiti Teknologi MARA; Universiti Teknologi Petronas; Universiti Kuala Lumpur, MIAT; Universiti Teknologi Malaysia; Universiti Malaysia Perlis; UCSI University; Universiti Malaysia Pahang

SCHOLARS SUPERVISION

EXAMINER FOR MSC AND PHD (NATIONAL)

Universiti Teknologi MARA; Universiti Malaysia Pahang; Universiti Teknologi Malaysia; Universiti Kebangsaan Malaysia; International Islamic University Malaysia; Multimedia University, Malaysia; UCSI University; Universiti Malaya; Uuniversiti Malaysia Terengganu; Universiti Tun Hussein Onn Malaysia; Universiti Teknikal Malaysia Melaka; Universiti Utara Malaysia; Universiti Kuala Lumpur; Universiti Teknologi Petronas; Universiti Tenaga Nasional; Universiti Malaysia Sarawak; Universiti Pertahanan Nasional Malaysia; Universiti Malaysia Sabah; 60 PhD Internal examiner and 51 MSc Internal examiner

for Universiti Putra Malaysia; 58 Chairman of viva MSc and PhD for Universiti Putra Malaysia

EXTERNAL EXAMINER FOR PHD (INTERNATIONAL)

Swinburne University of Technology, Australia; RMIT University, Australia; University of Western Australia; University of Southern Queensland; National Textile University Pakistan; Nanyang Technological University, Singapore; Aligarh Muslim University, India; Universitas Andalas, Indonesia; IIT Kharagpur, India; Anna University, India; Andhara University, India; National Institute of Technology, Rourkela, India; NIT Warangal, India; VIT University, Vellore, India; University of Madras, India; Pondicherry University, India; Sharda University, India; Noorul Islam Centre For Higher Education (Deemed to be University), India; Veer Surendra Sai University of Technology, Burla, Odisha, India; Sardar Vallabhbhai National Institute of Technology, India; Koneru Lakhmaiah Education Foundation, Deemed to be University, Guntur, India; Visvesvaraya Technological University, Karnataka State, India; Botswana International University of Science and Technology, Botswana; National University of Sciences and Technology, Islamabad, Pakistan; University of Karachi, Pakistan.

SUPERVISION AT UNDERGRADUATE LEVEL (FINAL YEAR PROJECTS) AND POSTGRADUATE LEVEL (MASTER'S DEGREE AND PHD STUDENTS) AND POSTDOCTORAL RESEARCHERS

Program Level	Name of Students and Title of Thesis/Project	Main Supervisor/Co-supervisor	Status (Completed/ Ongoing)	Year Graduated
PhD CANDIDATES SUPERVISED AS MAIN SUPERVISOR				
1.PhD	**Dr Addin Osman Mohamed Addin** (Sudanese) (Deceased) Bayesian Network Classifiers for Damage Detection in Engineering Materials	Main Supervisor	Completed	2007
2.PhD	**Associate Professor Dr Edi Syams Zainudin** (Malaysian) Effects of Banana Pseudostem Filler and Acrylic Impact Modifier on Thermo-Mechanical Properties of Unplasticized Polyvinyl chloride Composites	Main Supervisor	Completed	2009
3.PhD	**Associate Professor Dr Zulkiflle Leman** (Malaysian) Mechanical Properties of Sugar Palm Fibre-Reinforced Epoxy Composites	Main Supervisor	Completed	2009
4.PhD	**Prof. Dr Hambali Ariff** (Malaysian) Selection of Conceptual Design using Analytical Hierarchy Process for Automotive Bumper Beam Under Concurrent Engineering Environment	Main Supervisor	Completed	2009
5.PhD	**Dr Al Mabruk S. Mohamed** (Libyan) Development of Technology Transfer Model with Enabling Performance Factors for the Libyan Petroleum Industry	Main Supervisor	Completed	2010

	(Currently Associate Professor at Benghazi University, Libya)			
6.PhD	**Dr Abdalla A. Ab. Rashdi** (Libyan) Moisture Absorption Capacity of Kenaf Fibre-Reinforced Unsaturated Polymer Composites and Its Effect on Their Mechanical Properties	Main Supervisor	Completed	2010
7.PhD	**Associate Prof Dr Mohamed Abd. Rahman** (Malaysian) Physical, Mechanical and Thermal Properties of Pineapple Leaf Fibers and PALF-Reinforced Vinyl Ester Composites	Main Supervisor	Completed	2010
8.PhD	**Dr Januar Parlaungan Siregar** (Indonesian) Effects of Selected Treatments on Properties of Pineapple Leaf Fibre Reinforced High Impact Polystyrene Composites (Currently Senior Lecturer at Universiti Malaysia Pahang)	Main Supervisor	Completed	2011
9.PhD	**Dr Riza Wirawan** (Indonesian) Thermo-mechanical Properties of Sugarcane Bagasse-Filled Poly Vinyl Chloride Composites (Currently Lecturer at ITB, Indonesia)	Main Supervisor	Completed	2011
10.PhD	**Dr Agung Efriyo Hadi** (Indonesian) Characterization and Optimization of Mechanical, Physical and Thermal Properties of Short Abaca (Musa Textilis Nee) Fibre Reinforced High Impact Polystyrene Composites (Currently Rector, Universitas Abulyatama, Aceh, Indonesia).	Main Supervisor	Completed	2011
11.PhD	**Karmegam Karuppiah** (Malaysian) Conceptual Design, Development, and Fabrication of a Prototype Ergonomic Lumber Support for Motorcyclists (Currently Associate Professor at Faculty of Medicine, UPM)	Main Supervisor	Completed	2011
12.PhD	**Majid Davoodi Makinejad** (Iranian) Development of Thermoplastic Toughened Hybrid Kenaf-Glass Fibre-Reinforced Epoxy Composite for Automotive Bumper Beam (Currently at New York Institute of Technology)	Main Supervisor	Completed	2012
13.PhD	**Dandi Bachtiar** (Indonesian) Mechanical and Thermal Properties of Short Sugar Palm (Arenga Pinnata Merr.) Fibre-Reinforced High Impact	Main Supervisor	Completed	2012

	Polystyrene Composites (Currently Senior Lecturer at Universitas Shiah Kuala, Indonesia)			
14.PhD	**Yousuf Ali Gumaan El--Shekeil** (Yemeni) Properties of Short Kenaf Fiber-Reinforced Thermoplastic Polyurethane Composites (Currently Lecturer at Taibah University, Yanbu, Saudi Arabia)	Main Supervisor	Completed	2012
15.PhD	**Ahmad Baharuddin Abdullah** (Malaysian) Geometric and Dimensional Defect Evaluation of Cold Forged AA6061 Propeller Blade (Currently Associate Professor at USM)	Main Supervisor	Completed	2013
16.PhD	**Sahari Japar** (Malaysian) (Deceased) Characterization and Development of Biopolymer Derived from Arenga Pinnata and their Biocomposites	Main Supervisor	Completed	2013
17.PhD	**Yusriah Lazim** (Malaysian) Development and Characterization of Betel Nut Husk Fibre-Reinforced Vinyl Ester Composites (Currently Lecturer at Universiti Kuala Lumpur, MICET, Melaka).	Main Supervisor	Completed	2014
18.PhD	**Muhd Ridzuan Mansor** (Malaysia) Concurrent Conceptual Design of Hybrid Natural/Glass Fibre Reinforced Thermoplastic Composites for Automotive Parking Brake Lever Associate Professor at UTeM	Main Supervisor	Completed	2014
19.PhD	**Khairul Azhar Mohammad** (Malaysian) Effect of Dwell Period on Fatigue Life of 316l Stainless Steel Tube at High Temperature Under Creep Condition	Main Supervisor	Completed	2014
20.PhD	**Basher Ahmed Ali Ahmed** (Indian) Web-Based Expert System for Material Selection of Natural-Fiber-Reinforced Polymer Composites	Main Supervisor	Complete	2015
21.PhD	**Mohd Azaman Md Deros** (Malaysian) Injection Moulding Simulation of Wood-Filled Polypropylene Thin-Walled Composite Parts	Main Supervisor	Completed	2015
22.PhD	**Faris Mohammed Khair Faris Al-Oqla** (Jordanian) Enhancement of Evaluation Methodologies for Natural Fiber Composites Material Selection System Associate Professor at Hashemite	Main Supervisor	Completed	2015

	University, Jordan			
23.PhD	**Ridwan Yahaya** (Malaysian) Mechanical and Ballistic Properties of Natural Fibre-Aramid Hybrid Laminated Composites	Main Supervisor	Completed	2015
24.PhD	**Muhammed Lamin Sanyang** (Gambian) Biodegradable Composite Films from Modified Sugar Palm (Arenga Pinnata (Wurmb) Merr.)) Starch for Food Packaging Applications	Main Supervisor	Completed	2015
25.PhD	**Mohd Fairuz Abd Manab** (Malaysian) Mechanical Properties of Pultruded Kenaf Fibre-Reinforced Vinyl Ester Composite	Main Supervisor	Completed	2016
26.PhD	**Munir Faraj AlMabruk** (Libyan) Crushing Bahavior and Failure Modes of Kenaf Fibre-Reinforced Composite HexagonalTubes	Main Supervisor	Completed	2016
27.PhD	**Nadlene Razali** (Malaysian) Development and Characterization of Roselle Fibre Reinforced Vinyl Easter Composites	Main Supervisor	Completed	2016
28.PhD	**Lee Ching Hao** (Malaysian) (Jointly awarded degree with University of Sheffield, UK) Fire Retardant Behavior of Kenaf Fibre Reinforced Floreon Composite	Main Supervisor	Completed	2017
29.PhD	**Mastura Mohammad Taha** (Malaysian) A New Hybrid Approach for Conceptual Design of Sugar Palm Fibre-Reinforced Polyurethane Composites for Automotive Anti-Roll Bar	Main Supervisor	Completed	2017
30.PhD	**Ahmed Faraj Ibrahim Hissen Edhirej** (Libyan) Characterization and Development of Cassava (*Manihot esculenta* Crantz)z/ Sugar Palm (*Arenga pinnata* (Wurmb) Merr.) Fiber-Reinforced Cassava Starch Hybrid Composites	Main Supervisor	Completed	2017
31.PhD	**Mohd Ridhwan Jumaidin** (Malaysia) Development and Characterization of Thermoplastic Sugar Palm Starch/Agar Polymer Blend, Seaweed Waste and Sugar Palm Fiber Hybrid Composite	Main Supervisor	Completed	2017
32.PhD	**Mohamed Mohamed. M.Alkateb (Libyan)** Crushing Behaviour of Kenaf Fibre-Reinforced Epoxy Composite Elliptical	Main Supervisor	Completed	2018

	Tubes			
33.PhD	**Che Suhana Hassan** (Malaysian) Experimental Analysis of Unidirectional Oil Palm Empty Fruit Bunch Fibre-Reinforced Polymer Composites and Crash Performance Using Finite Element Method	Main Supervisor	Completed	2018
34.PhD	**Mahmood Ali (Malaysian)** Conceptual Design of Bio-composite Chair and Desk Based on Antropometric Data	Main Supervisor	Completed	2019
35.PhD	**Ahmad Ilyas Rushdan** (Malaysian) Development and Characterization of Sugar Palm Nanocellulose Fibre Reinforced Sugar Palm Starch Biopolymer Composite	Main Supervisor	Completed	2019
36.PhD	**Mohd Radzi Ali** (Malaysian) Mechanical and Thermal Properties of Polyurethane Reinforced with Roselle and Sugar Palm and Roselle Hybrid Composites	Main Supervisor	Completed	2019
37.PhD	**Muhammad Huzaifah Mohd Roslim** (Malaysian) Development and Characterization of Sugar Palm (Arenga Pinnata (Wurmb) Merr.)) Fibre Reinforced Vinyl Ester Composites	Main Supervisor	Completed	2019
38.PhD	**Noor Azammi Abdul Murat** (Malaysian) Kenaf Filled Thermoplastic Polyurethane (TPU)-Natural Rubber (NR) Polymer Composite for Automotive Engine Rubber Mounting	Main Supervisor	Completed	2019
39.PhD	**Alaaeddin M.H. Abed** (Palestinian) Development and Characterization of Sugar Palm Fiber-Reinforced Polymer Composites for Photovoltaic Backsheet Material	Main Supervisor	Completed	2019
40.PhD	**Noryani Muhammad** (Malaysian) Regression Analysis Framework for Material Selection of Natural Fibre-Reinforced Polymer Composites	Main Supervisor	Completed	2019
41.PhD	**Mohammed Ibrahim J Ibrahim** (Libyan) Characterization of Corn/Sugar Palm Fiber-Reinforced Corn Starch Biopolymer Hybrid Composites	Main Supervisor	Completed	2019
42.PhD	**Nik Syamsul Bahari Che Yusof** (Malaysian) Hybrid Techniques for Material and	Main Supervisor	Completed	2020

	Conceptual Design for Automotive Crash Box			
43..PhD	**Mohd Adrinata Shaharuzaman** (Malaysian) Conceptual Design of Kenaf Fibre Reinforced Thermoplastic Composites using Concurrent Engineering Method for the Side-Door Impact Beam	Main Supervisor	Completed	2020
44.PhD	**Mohd Supian Abu Bakar** (Malaysian) Effect of Winding Angles and Hybridization on Static and Quasi-Static Crushing Behavior of Kenaf-Fibreglass Hybrid Reinforced Composite Tubes	Main Supervisor	Completed	2020
45.PhD	**Nuzaimah Mustafa** (Malaysian) Development and Characterization of Polyester Composites with Waste Rubber Glove Particles as Fillers	Main Supervisor	Completed	2020
46.PhD	**Nor Salwa Hamdan** (Malaysian) Conceptual Design and Life Cycle Assessment (LCA) of Natural Fibre-Reinforced Biopolymer Composites for Takeout Food Container using Concurrent Engineering	Main Supervisor	Completed	2021
47. PhD	**Zatil Hazrati Kamaruddin** (Malaysian) Development and Characterization of Ubi Gadong (Dioscorea Hispada)/Sugar Palm Fibre AReinforced Ubi Gadong (Dioscorea Hispada) Starch Biocomposites	Main Supervisor	Completed	2021
48. PhD	**Faisal Shah Sherwani** (Indian) Development and Characterization of Sugar Palm (Arenga Pinnata (Wurmb.) Merr) and Glass Fiber Reinforced Poly(Lactic Acid) Hybrid and Non-Hybrid Composites for Potential Use in Modenas Kriss 110 Motorcycle Battery	Main Supervisor	Completed	2021
49. PhD	**Mohamad Omar Syafiq Razali** (Malaysian) Development and Characterization of Sugar Palm Starch-Nanocellulose Antimicrobial Films Incorporated with Plants Essential Oil	Main-Supervisor	Completed	2022
50. PhD	**Nazrin Norarief Mardi Aswami** (Malaysian) Development and Characterization of Sugar Palm (Arenga pinnata (Wurmb) Merr.) Nanocellulose/Thermoplastic Starch/ Poly (Lactic Acid) Biocomposites	Main-Supervisor	Completed	2022

51.PhD.	**Mohd Izwan Shaharuddin** (Malaysian) Performance of Kenaf/Sugar Palm Fibre Reinforced Polypropylene Hybrid Composites for Automotive Non Structural Components	Main Supervisor	Completed	2022
52. PhD	**Tarique Jamal** (Indian) Properties of Arrowroot Fibre Reinforced Arrowroot Starch Biopolymer Composites	Main Supervisor	Completed	2022
53. PhD	**Mohd Azlin Mohd Nor** (Malaysian) Development and Characterization of Woven Kenaf/Polyester Reinforced Polylactic Acid Composites	Main Supervisor	Completed	2023
54. PhD	**Fathi Masood** (Libyan) Investigation and Optimization of Cutting Parameters of Sugar Palm Fibre Reinforced Unsaturated Polyester Composites by Non-Traditional Cutting	Main Supervisor	Completed	2023
55. PhD	**Abotbina Walid A.M.** (Libyan) Development and Characterization of Cassava (Manihot esculenta) Bagasse/Black Seed (Nigella sativa) Fibre Reinforced Corn (Zea msys) Starch Hybrid Biocomposites	Main Supervisor	Completed	2023
56. PhD	**Nurul Ain Maidin** (Malaysian) Concurrent Conceptual Design of Sustainable Biocomposites Cyclist Helmet Using a New Integrated Approach	Main-Supervisor	Completed	2023
57. PhD	**Aliyu Isah** (Nigeria) Mechanical Properties of Sugar Palm Ash Fibre Reinforced Aluminium Matrix Composites	Main-Supervisor	Completed	2023
58. PhD	**Hazrol Damiri** (Malaysian) Development and Characterization of Corn/Kenaf Fiber Reinforced Corn Starch Hybrid Composites	Main Supervisor	Completed	2023
58.PhD	**Yusuf Jameel** (India) Nanocellulose/Graphene Reinforced Green Epoxy Hybrid Composites for Electric Car Battery Pack Enclosure	Main Supervisor	Submitted	2025
59.PhD	**Muhd Firdaus Abdul Halim** (Malaysian) Development and Characterization of Arrowroot Nanocellulose Reinforced Arrowroot Starch Biopolymer Composites	Main Supervisor	Ongoing	2025
60. PhD	**Abdul Habib** (Indonesia) Development and Characterization of	Main Supervisor	Ongoing	2025

	Carbon Nanotube Reinforced Arrowroot Starch Biopolymer Composites			
61. PhD	**Mohd Azrol Jailani** (Malaysian) Characterization of Roselle Nanocellulose / Graphene Nanoplatelets (GNPs) Reinforced Polyvinyl Alcohol (PVA) Hybrid Bio-Composites for Novel Piezoelectric Film Sensor	Main Supervisor	Ongoing	2025
PHD CANDIDATES SUPERVISED AS CO-SUPERVISOR				
1.PhD	**Mahmoud Hassan Onsa** (Sudanese) Elastohydrodynamic Analysis of Rolling Line Contact Using Boundary Element Method	Co-supervisor	Completed	2001
2.PhD	**Md. Syed Ali Molla** (Bangladeshi) Intake Valve Modelling of a Four-Stroke Internal Combustion Engine at Idling Speed	Co-supervisor	Completed	2002
3.PhD	**Lee Wah Peng** (Malaysian) Labour Productivity Measurement Model for Malaysian Housing Industry	Co-supervisor	Completed	2005
4.PhD	**Harimi Mohamed** (Algerian) (Deceased) Application of Theoretical Combustion Analysis in Determining the Optimum Fibre/Shell Ratio for Oil Mill Boiler	Co-supervisor	Completed	2006
5.PhD	**Kassim Ali Abbas** (Iraqi) (Deceased) Thermal Diffiusivity and Quality Deterioration Index of Malaysian of Fresh Water Pangasius Sutchi During Cold Storage	Co-supervisor	Completed	2005
6.PhD	**Dr Muthu Suresh Devanesan Jacob** (Indian) Characterization of Fretting Fatigue of 7075-T6 Aluminium Alloy	Co-supervisor	Completed	2006
7.PhD	**Saad A. Mutasher** (Iraqi) Evaluation of Mechanical Properties of Hybrid Aluminium/Fiber-Reinforced Composites	Co-supervisor	Completed	2006
8.PhD	**Mohd Khairun Anwar Uyup** (Malaysian) Impregnation of Bamboo (Gigantochloa scortechinii) with Phenolic Resin for the Production of Dimensionally Stable Plybamboo	Co-supervisor	Completed	2008
9.PhD	**Abdalla F. Hamed** (Libyan) Experimental and Finite Element Analysis of the Pressure Carrying	Co-supervisor	Completed	2009

	Capacity of Reinforced Composite Thick-Walled Material Tubes			
10.PhD	**Mohamad Zaihirain Mohamed Rasin** (Malaysian) Development of Early Order State Cost Estimation Models for Sheet Metal Components	Co-supervisor	Completed	2010
11.PhD	**Dr Ali Jahan** (Iranian) Improving Multi-Criteria Decision Making Algorithm for Material Selection	Co-supervisor	Completed	2011
12.PhD	**Dr Ali Shahrjerdi** (Iranian) Second Order Shear Deformation Theory for Response Analysis on Temperature-Dependent Functionally Graded Plates Due to Vibration and Mechanical Loading	Co-supervisor	Completed	2011
13.PhD	**Dr Isuwa Sulaiman Aji** (Nigerian) Mechanical and Thermal Characterization of Hybridized Short Kenaf/Pineapple Leaf Fibre Reinforced High Density Polyethylene Composites	Co-supervisor	Completed	2011
14.PhD	**Asghar Pishgahi** (Iranian) Numerical Investigation of Laminar Flow and Thermal Characteristics of Tangential Cooling Air Jet in A Sudden Expansion Channel	Co-supervisor	Completed	2012
15.PhD	**Mohamad Ridzwan Ishak** (Malaysian) Enhancement of Physical of Sugar Palm (*Arenga Pinnata Merr*.) Fibre-Reinforced Unsaturated Polyester Composites via Vacuum Resin Impregnation	Co-supervisor	Completed	2012
16.PhD	**Suriani Mat Jusoh** (Malaysian) Determination of Defects and Modes in Kenaf-Reinforced Epoxy Composites under Fatigue Loading Using Thermal Imaging and SEM Techniques	Co-supervisor	Completed	2012
17.PhD	**Mehran Masoudi** (Iranian) Synthesis and Characterization of Ni-Al2o3-Cr, Ni-Al2o3-SiC and Ni-SiC-Cr Nano Hybrid Composites	Co-supervisor	Completed	2013
18.PhD	**Nanang Fatchurrohman** (Indonesian) Manufacturing Process and Material Selection using Modified Multi Criteria Decision Making for Brake Disc	Co-supervisor	Completed	2013
19.PhD	**Mohd Uzair Mohd Rosli** (Malaysian) Development of Conceptual Design Support System Based on Integrated Theory of Inventive Problem Solving and Analytical Hierarchy Process	Co-supervisor	Completed	2014

20.PhD	**Yadollah Gharayebi** (Iranian) Preparation, Characterization and Thermal Degradation of Polyimide(4-Aminophenyl Sulfone/3.3', 4.4' – Benzophenonetecarboxylic Dianhydride) Nanocomposite with SiO2, Ag, and Montmorillonite Nanofillers	Co-supervisor	Completed	2014
21.PhD	**Hassan Zareei** (Iranian) Development of a Family Product Usability Model for Older Malaysians	Co-supervisor	Completed	2015
22.PhD	**Khairul Dahri Mat Aris** (Malaysian) A Structural Health Monitoring (SHM) of Composite Patch Repair for Aircraft Part and Structures using Principal Component Analysis	Co-supervisor	Completed	2015
23.PhD	**Nisreen N. Ali Al-Adnani** (Iraqi) Structural Health Monitoring and Damage Detection for Composite Panel Structures via Statistical Analysis	Co-supervisor	Completed	2015
24.PhD	**Ali Mohamed Wahhad** (Libyan) Development of Optimum Window Size in Tropical Climate Using Computational Fluid Dynamics and Experimental Works	Co-supervisor	Completed	2016
25.PhD	**Sairizal Misri** (Malaysian) Structural Behaviour of Filament Wound Kenaf Yarn Fibre-Reinforced Unsaturated Polyester Composites	Co-supervisor	Completed	2016
26.PhD	**Nawras Haidar Mostafa Al-Said Haidar** (Iraqi) Effect of Biaxial Prestressing on the Mechanical Properties of Plain-Weave E-Glass//Polyester Composites	Co-supervisor	Completed	2017
27.PhD	**Hammajam A. Abba** (Nigerian) Characterization of Millet-Husk Filled High Density Polyethyelene and Polylactic Acid Composites	Co-supervisor	Completed	2018
28.PhD	**Adnan Abbas Abdulnabi** (Iraqi) Effects of Particle Size and Weight Percentage of Waste Rubber Crumbs on the Performance of Compounded Tyres	Co-supervisor	Completed	2018
29.PhD	**Atiqah Mohd Afdzaluddin** (Malaysian) Properties of Sugar Palm/Glass Fibre-Reinforced Thermoplastic Polyurethane Composites	Co-supervisor	Completed	2018
30.PhD	**Mohd Nurazzi Norizan** (Malaysian)	Co-supervisor	Completed	2018

	Development of Sugar Palm Yarn and Woven Glass Fibre-Reinforced Unsaturated Polyester Composites			
31.PhD	**Chandrasekar Muthukumar** (India) Mechanical Properties of Fibre Metal Laminates reinforced with Carbon, Flax and Sugar Palm Fibre-Based Composites	Co-supervisor	Completed	2018
32.PhD	**Ramengmawii** (Indian) Characterization of Coir/Pineapple Leaf Fibre-Reinforced Polylactic Acid Hybrid Composites for Potential Food Tray Applications	Co-supervisor	Completed	2018
33.DEng.Industrial Doctorate	**Abdul Azim Abdul Rahman** (Malaysian) Development of Post Conditioning Injection Molding Process Control on Glass Filled Nylon (Polyamide 6) Composites for Global Product Engineering	Co-supervisor	Completed	2019
34.PhD	**Aisyah Humaira binti Alias** (Malaysian) Assessment of Kenaf as Material for Laminated Woven Kenaf/Carbon Fibre Epoxy Hybrid Composites	Co-supervisor	Completed	2019
35.PhD	**Sujith Bobba** (Indian) Mechanical Characterization of S-Glass and E-Glass Reinforced Epoxy Composite Elbow Pipe Joints Submerged in Sea Water	Co-supervisor	Completed	2019
36.PhD	**Nuruldiyanah Kamarudin** (Malaysian) Phenol Formaldehyde Resol Resins with Plant-Based Tannin for Composite Laminate Applications	Co-supervisor	Completed	2021
37. PhD	**Muhammad Asyraf Muhammad Rizal** (Malaysian) Creep Test Facility Development and Creep Analysis of Braced Composite Cross Arms in 132 kV Transmission Tower	Co-supervisor	Submitted	2021
38. PhD	**Sharaf Hussein Kadhim Sharaf** (Iraqi) Design and Development of 123kV 13l Cross-Arm with Bracing Structures for Application in Transmission Towers	Co-supervisor	Submitted	.2021
39.PhD	**Sity Ainy Nor Mohamed** (Malaysian) Characterization of Fatigue Crack Propagation of Rice Husk Polypropylene Composites under Constant Amplitude Loading	Co-supervisor	Completed	2021
40.PhD	**Huong Pei Zam** (Malaysian) New Humidity Control Material Prepared from the Sintering of Diatomite, waste	Co-supervisor	Completed	2022

	Glass and Cockle Shells to Balance Indoor Relative Humidity			
41. PhD	**Mohammad Azad Alam** (Indian) Synthesis and Investigation of AA7075 Hybrid Composites for Aircraft Application **Universiti Teknologi Petronas, Perak**	External Co-supervisor	Completed	2022
42.PhD	**Saleh Naji Musaed Alsubari** (Yemen) (Passed Comprehensive Examination in 2020) Quasi-Static and Fire Properties of Flax/Poly Lactic(acid) (PLA) Sandwich Composites	Co-supervisor	Completed	2023
43. PhD	**Sanusi Hamat** (Malaysian) Innovating Additive Manufacturing of Recycled Natural Fibre Composites for Fused Filament Fabrication: A Process Model, Microstructure and Multiscale Modelling	Co-supervisor	Completed	2025
44. PhD	**Wan Mohamad Haniffah Wan Hussin** (Malaysian) Effect of Fibre Heat Treatment on Mechanical and Hygroscopic Properties of Kenaf Polypropylene Composite	Co-supervisor	Completed	2025
45.PhD	**Muhammad Hafiz Kamarudin** (Malaysian) Fundamental Study on Direct Recycling of rHDPE in Concrete Structures Universiti Teknikal Malaysia Melaka	External Co-supervisor	Completed	2024
46. PhD	**Poon Jia Jun** Biodegradation mechanism of bioplastic derived from new resource of Kapok cellulose UCSI University, Kuala Lumpur	External Co-supervisor	Completed	2025
47. PhD	**Rahimian Koloor Seyed Saeid** (Iranian) Damage Mechanics of Curved Fibre Reinforced Polymer Composite Structures for Aerospace Applications	Co-supervisor	Ongoing	2025
48. PhD	**Nafeesa Mohd Kanafi** (Malaysian) Passed Comprehensive examination in 2022) Preparation and Characterization of Self-Healable Supramolecular Hybrid Network Based on Epoxidized Natural Rubber and Carboxymethyl Cellulose	Co-supervisor	Ongoing	2025
MASTER OF SCIENCE CANDIDATE SUPERVISED AS MAIN SUPERVISOR				
1. Master	**Edi Syams Zainudin** (Malaysian) (2002) A Prototype Knowledge-Based System for Ceramic Matrix Composites Material Selection of Automotive Engine Components	Main Supervisor	Completed	2002

2. Master	**Muthu Suresh Devanesan Jacob** (Indian) A Prototype Knowledge-Based System for Ceramic Matrix Composites Material Selection of Automotive Engine Components	Main Supervisor	Completed	2002
3. Master	**Mohd Nizam Sudin** (Malaysian) Design of Polymeric Based Composite Automotive Bumper Fascia	Main Supervisor	Completed	2003
4. Master	**Lee Ho Boon** (Malaysian) Comparison of Cost, Surface Roughness and Time using Stereolithography and 3D Printer for Design of Composite Pedal	Main Supervisor	Completed	2003
5. Master	**Mohd Noor Arib Md Rejab** (Malaysian) Mechanical Properties of Pineapple Fibre Reinforced Polypropylene Composites	Main Supervisor	Completed	2004
6. Master	**Sharifah Imihezri Syed Shaharuddin** (Malaysian) Design, Analysis and Fabrication of Glass Fiber-Reinforced PA 6,6 Composite Automotive Clutch Pedals	Main Supervisor	Completed	2006
7. Master	**Nik Mohd Zuki Nik Mohamed** (Malaysian) An Improved Method to Reduce Development Time for New Models of Proton	Main Supervisor	Completed	2006
8. Master	**Amirruddin Abdul Kadir** (Malaysian) Design, Analysis and Fabrication of a Hovercraft Hull Base Prototype	Main Supervisor	Completed	2007
9. Master	**Majid Davoodi Makinejad** (Iranian) Development of Fibre-Reinforced Epoxy Composite Energy Absorber for Automotive Bumper System	Main Supervisor	Completed	2007
10. Master	**Dandi Bachtiar** (Indonesian) Mechanical Properties of Alkali-treated Sugar Palm (Arenga Pinnata) Fibre-Reinforced Epoxy Composites	Main Supervisor	Completed	2008
11. Master	**Khairul Azmi Md Rezali** (Malaysian) Mechanical Properties of Untreted and Alkaline Treated-kenaf and Ramie-Fabric Reinforced Epoxy Composites	Main Supervisor	Completed	2008
12. Master	**Mohd Zuhri Muhamed Yusoff** (Malaysian) Mechanical Properties of Oil Palm Fibre-Thermoset Composites	Main Supervisor	Completed	2009
13. Master	**Sahari Japar** (Malaysian) (Deceased) Physio-Chemical and Mechanical Properties of Different Morphological	Main Supervisor	Completed	2011

	Parts of Sugar Palm Fibre Reinforced Polyester Composites			
14. Master	**Mohd Fairuz Abd Manab** (Malaysian) Development of Material Selection Expert System for Polymer-Based Composite Materials	Main Supervisor	Completed	2011
15. Master	**Wan Mohamad Haniffah Wan Hussin** (Malaysian) Effect of Repeated Water and Domestic Bleach Immersion on Kenaf-Fibre Reinforced Polypropylene Composites	Main Supervisor	Completed	2011
16. Master	**Mohd Shukri Ibrahim** (Malaysian) Physical and Thermomechanical Properties of Oil Palm Ash-Filled Unsaturated Polyester Composites.	Main Supervisor	Completed	2012
17. Master	**Nur Atirah Mohd Aridi** (Malaysia) Mechanical and Morphological Properties of Rice Husk-Filled Polypropylene Composites with Struktol Compatibiliser	Main Supervisor	Completed	2016
18. Master	**Nur Marliana Mohamad** (Malaysia) Effect of Immersion Treatment of Fibre on Mechanical Properties of Pultruded Kenaf Vinyl Ester Composites	Main Supervisor	Completed	2016
19. Master	**Muhammad Ammar Ishak** (Malaysian) Performance of Sugar Palm Fibre-Reinforced Vinyl Ester Composites at Different Fibre Arrangements	Main Supervisor	Completed	2017
20. Master	**Muhammad Harussani Moklis** (Malaysian) Development and Characterization of Polypropylene Waste-Derived Char Filled Sugar Palm [Arenga Pinnata (Wurmb) Merr.] Starch Biopolymer Composite Briquettes	Main Supervisor	Completed	2021
21. Master	**Abir Khan** (Bangladesh) Physical, Mechanical and Thermal Properties of Bamboo-Kenaf Fiber Reinforced Polylactic Acid Hybrid Composites	Main Supervisor	Completed	2024
22. Master	**Muhammad Adlan Azka** (Indonesian) Mechanical, Thermal and Physical Properties of Graphene Nanoplatelets Filled Bamboo/Kenaf Reinforced Poly Lactic Acid Hybrid Composites.	Main Supervisor	Completed	2025
23. Master	**Mohammad Zaid Hassan** (Indian) Manufacturing Process Selection and Life Cycle Assessment of Kenaf/Bamboo Fibre Reinforced Polylactic Acid (PLA)	Main Supervisor	Completed	2025

	Hybrid Composite Chair Components			
24. Master	**Mohd Hazim Hidzer** (Malaysia) Development and Characterization of Bamboo Fiber-Reinforced PLA Composites for Sustainable Structural Applications	Main Supervisor	Ongoing	2025
MASTER OF SCIENCE CANDIDATE SUPERVISED AS CO-SUPERVISOR				
1. Master	**Dr Harimi Mohamed** (Algerian) (Deceased) Development of Computer Program to Analyse Chemical Products Resulted from Incineration of Solid Fuels	Co-supervisor	Completed	2000
2. Master	**Abdul Hafid M. Elfaghi** (Libyan) Simulation of Turbine Blade Heat Transfer using Different Turbulent Models	Co-supervisor	Completed	2000
3. Master	**Dr Mohamad Awang** (Malaysian) Application of Quality Function Deployment (QFD) in a Locally Produced Knapsack Sprayer	Co-supervisor	Completed	2000
4. Master	**Zulkifli Yaakob** (Malaysian) Improvements in Design of Local Fluorescent Electronic Ballasts in Compliant to Related Local and International Standards	Co-supervisor	Completed	2001
5. Master	**Dr Mohamad Zaihirain Mohamed Rasin** (Malaysian) Development of a Prototype Scheduling and Sequencing Software for Jobshop Manufacturing in Sheet Metal Fabrication	Co-supervisor	Completed	2002
6. Master	**Lim Jee Gin** (Malaysian) Evaluation of Industrialized Building System	Co-supervisor	Completed	2002
7. Master	**Amir Ihsan Abdul Salam** (Malaysian) Techno-conomical Aspects of Thermal Energy Storage Integrated District Cooling System	Co-supervisor	Completed	2002
8. Master	**Eris Elianddy Haji Supeni** (Malaysian) Heating Value Evaluation of Palm Oil Waste	Co-supervisor	Completed	2004
9. Master	**Munir Faraj M. Alkbir** (Libyan) Energy Absorption capability of composite hexagonal tubes	Co-supervisor	Completed	2004
10. Master	**Sivakumar Dhar Malingam** (Malaysian) Application of Focus Improvement to Reduce Non Stick on Pad Problem in IC Packaging	Co-supervisor	Completed	2004
11. Master	**Abdul Malek Ya'acob** (Malaysian) Effect of Fibre Orientation of Tensile Properties of Short Glass Fibre	Co-supervisor	Completed	2004

	Reinforced Injection-Moulding Polypropylene Composites			
12. Master	**Januar Parlaungan Siregar** (Indonesian) Tensile and Flexural Properties of Arenga Pinnata Filament Reinforced Epoxy Composites	Co-supervisor	Completed	2005
13. Master	**Tariq Ramadan Abo-Alhol** (Libyan) Study of the Effectiveness of Quality Control Circles	Co-supervisor	Completed	2005
14. Master	**Lai Chin Yung** (Malaysian) Mechanical Properties and Dielectric Constant of Coconut Coir-Filled Propylene	Co-supervisor	Completed	2004
15. Master	**Mohammad Iqmal Mohd Ali** (Malaysian) Optimization of Drilling Process of Aircraft Composite Structure Using Design of Experiment	Co-supervisor	Completed	2006
16. Master	**Saleem Na'mi** (Germany) Finite Element Analysis of Hydraulic Bulging for Metal Tubes.	Co-supervisor	Completed	2007
17. Master	**Suriani Mat Jusoh** (Malaysian) A Case Study on Tensile Properties and Morphology of Arenga Pinnata Fiber Reinforced Epoxy Composites	Co-supervisor	Completed	2007
18. Master	**Amir Azizi** (Iranian) Ranking of Total Quality Management's Critical Techniques in Automotive Industry	Co-supervisor	Completed	2007
19. Master	**Zulkifli** (Indonesian) (Deceased during Tsunami in Acheh) (*posthumous honour*) Mechanical properties of wood composites	Co-supervisor	Completed	2007
20. Master	**Cheong Yoon Kwan** (Malaysian) Numerical Simulation of NO and CO Abatement in Catalytic Converter of CNG Engine	Co-supervisor	Completed	2008
21. Master	**Azali Awaluddin** (Malaysian) Design and Development of Oil Palm Fluidized Bed Gasifier	Co-supervisor	Completed	2008
22. Master	**Norhisham Seyajah** (Malaysian) Composite with Saw Dust and Chip Wood in an Epoxy Matrix for Furniture Industry	Co-supervisor	Completed	2008
23. Master	**Ali Mohamed Wahhad** (Libyan) Effect of Selected Laminating Materials on Temperature Distribution in an Office	Co-supervisor	Completed	2008
24. Master	**Mohamad Ridzwan Ishak** (Malaysian) Mechanical Properties of Treated and	Co-supervisor	Completed	2009

	Untreated Woven Sugar Palm Fibre-Reinforced Unsaturated Polyester Composites			
25. Master	**Zainb Shaker Radif** (Iraqi) Development of a Combat Armour from Ramie Fibre	Co-supervisor	Completed	2009
26. Master	**Hafizal Abu Bakar** (Malaysian) Development of an External Balance Device of Calibration and Validation for Wind Tunnel Testing	Co-supervisor	Completed	2012
27. Master	**Sairizal Misri** (Malaysian) Design and Fabrication of a Boat Using Sugar Palm Fibre Unsaturated Polyester Composite	Co-supervisor	Completed	2011
28. Master	**Mohd Yusoff Salleh** (Malaysian) Mechanical Properties of Sandwich Hybrid Sugar Palm Fibre/Glass Fibre Reinforced Unsaturated Polyester Composites	Co-supervisor	Completed	2012
29. Master	**Umar Abdul Hanan** (Malaysian) Effect of Accelerated Weathering on Kenaf High Density Polyethylene composite	Co-supervisor	Completed	2012
30. Master	**Nor Hanifawati Inai** (Malaysian) Mechanical and Physical Properties of Hybrid Banana Pseudostem/Glass Fibre Reinforced Polyester Composites	Co-supervisor	Completed	2013
31. Master	**Abu Hatim Ibrahim** (Malaysian) Effects of Flame-Retardant Agents on Mechanical Properties and Flammability of Impregnated Sugar Palm Fibre-Reinforced Polymer Composites	Co-supervisor	Completed	2013
32. Master	**Hammajam Alhaji Abba** (Nigeria) Mechanical Properties of Millet (Pennisetum Glaucum [Linn.]) Husk Filled High Density Polyethylene Composites	Co-supervisor	Completed	2014
33. Master	**Buthainah Ali Abed Al Tamimi** (Iraqi) Production of Polycarbonate and Multiwalled Carbon Nanotubes Nanocomposites at Low Filler Loadings	Co-supervisor	Completed	2015
34. Master	**Rao Muhammad Shahroze Ali** (Pakistani) Effect of Nanoclay and Silica Aerogel on Mechanical, Thermal and Physical Propertiesof Sugar Palm Fiber Reinforced Unsaturated Polyester Composites	Co-supervisor	Completed	2018
35.	**Rozilah Abdullah** (Malaysian)	Co-Supervisor	Completed	2021

Master	Effect of Nanoclay and Silica Aerogel on Mechanical, Thermal and Physical Properties of Sugar Palm Fiber Reinforced Unsaturated Polyester Composites			
36. Master	**Nur Diyana Ahmad Fazil** (Malaysian) Characterization and Properties of Miswak Fiber Reinforced Polylactic Acid (PLA) Composites	Co-Supervisor	Completed	2022
37. Master	**Pang Jing Shen** (Malaysian) Optimization, Machinability and Surface Morphology of Epoxy Matrix Reinforced with Halloysite Nanotube and Aluminium (HNT/Al/Ep Composite Board for Rapid Tooling Application.	External Co-supervisor Masters Degree in Mechanical Engineering by Full Research, Universiti Tenaga Nasional (UNITEN).	Completed	2013
MASTER DEGREE BY COURSE (WITHOUT THESIS) AS SUPERVISOR OF DISSERTATION				
1. Master	**Mohd Shafirol Mohammad Othman** (Malaysian) Failure Prediction using Fault Tree Analysis in Electrical and Electronic Appliances	Supervisor	Completed	2004
2. Master	**Mohd Maliki Abdul Ghani** (Malaysian) Cost Analysis of Thermal Energy Storage of Science and Technology Complex UiTM Shah Alam	Supervisor	Completed	2005
3. Master	**Wan Mohd Sufian Wan Husain** (Malaysian) Cost Consideration of Natural Fibre Composites	Supervisor	Completed	2005
4. Master	**Mohd Yuza Hj. Mohd Yusof** (Malaysian) The Limitation of Vehicle Packaging Development	Supervisor	Completed	2005
5. Master	**Mustofa Ibrahim Sheikh** (Somali), Design of sustainable manufacturing systems: for grains sachets in Somaliland	Supervisor	Completed	2017
6. Master	**Adila Ahmad Nazri** (Malaysian) Productivity Improvement in CAD Documentation of Antenna and Microweve Communication System	Supervisor	Completed	2018
7. Master	**Hazrol Damiri** (Malaysian) Electrical Properties of Sugar Palm Nanocellulose Fibre Reinforced Sugar Palm Starch Biopolymer Composites	Supervisor	Completed	2019

8. Master	**Nurul Maisara Amira Misman** (Malaysian) The Effect of Fibre Length on Mechanical Properties of Random Sugar Palm Fibre Reinforced Unsaturated Polyester Composites	Supervisor	Completed	2019
9. Master	**Aulia Hylaea Sarah** (Indonesian) Characterization of Basalt-Glass Fibre Reinforced Unsaturated Polyester Hybrid Composites	Supervisor	Completed	2019
10. Master	**Hemapriya a/p Genesan** (Malaysian) Natural Fibre Composite Product Development	Supervisor	Completed	2020
11. Master	**Sarwin Kumar (**Malaysian) Mechanical Properties of Sugar Palm PLA Composites	Supervisor	Completed	2020
12. Master	**Muhammad Arif Fahmi B. Abdul Wahab** (Malaysian) Conceptual Design of Glass/Natural Fibre Reinforced Polymer Hybrid Composite Motorcycle Side Cover	Supervisor	Completed	2020
13. Master	**Ndi Akum Delphine** (Cameroon) Selection Scheme For Natural Fibers As Reinforcement For Bio-Based Materials With Conflicting Criteria	Supervisor	Completed	2021
14. Master	**Amin Mahmoud Amin Shareedeh** (Jordanian) Conceptual Design of Natural Toothbrush Holder with Water Absorption System	Supervisor	Completed	2021
15. Master	**Alhatem Satta Seham Ismail** (Iraqi) Improvement of the Processes of Plastic Manufacturing Products by Six Sigma and DMAIC methods	Supervisor	Completed	2022
16. Master	**Nurul Husna Binti Rosli** (Malaysia) Fabrication Process and Properties of Arrowroot (Maranta Arundinacea) Fibre Reinforced Arrowroot Starch Composites	Supervisor	Completed	2022
17. Master	**Al Mehjani Tareq Mohammed Mohjani Hassan** (Yemani) Managing Isolation and Extraction of Cellulose from Pomegranate Peel	Supervisor	Completed	2022
18 Master	**Wan Muhamad Afiq Wan Md Zin (Malaysian)** Mechanical Properties of Sugar Palm Fibre Reinforced Epoxy/Unsaturated Polyester Blend Composites	Supervisor	Completed	2023
19 Master	**Albahrami Hamzah Hamood Hasan (Yemani)**	Supervisor	Completed	2023

	Conceptual Design of Biocomposite Spectacle Case Using TRIZ Methods			
20 Master	**AlShebyly Hussein Hayder Abdulateef (Iraqi)** Safety Assessment and Recommendations for the Advanced Engineering Materials and Composites Research Centre (AEMC) Laboratories at Universiti Putra Malaysia	Supervisor	Completed	2023
21 Master	**Hemmavathana Subramanian (Malaysian)** Selection of Sustainable Materials for Road Construction using Multi-Criteria Decision Making (MCDM) Technique	Supervisor	Completed	2024
22 Master	**Zhang Xiaoyi (China)** Circular Economy Model in Sustainable Supply Chain Management	Supervisor	Completed	2024
23 Master	**Hussein Hassan Abdullahi (Somali)** Issues and Challenges of Total Quality management Implementation in the Somali Building Sector	Supervisor	Completed	2025
24 Master	**Qiuna (China)** Management of the Operational Phase of Public-Private Partnership (PPP) Projects	Supervisor	Completed	2025
BACHELOR OF ENGINEERING FINAL YEAR PROJECT SUPERVISOR				
1. Bachelor	**Lim Chang Hooi** Concurrent Engineering Design System for Polymeric-Based Composite Automotive Air Intake Manifold	Main Supervisor	Completed	1999
2. Bachelor	**Saifulla Azizi bin Mohamad Saad** A Concurrent Engineering Design System for Polymeric-Based Composite Automotive Propeller Shaft	Main Supervisor	Completed	1999
3. Bachelor	**Norhayati binti Yahaya** The Improvement of Automotive Disk Brake using Concurrent Engineering Approach	Main Supervisor	Completed	1999
4. Bachelor	**Fahmi bin Awang** Application of Engineering Design Methods in Automotive Composite Leaf Spring Design	Main Supervisor	Completed	1999
5. Bachelor	**Tong Kam Faat** Study of Concurrent Engineering Practices in Malaysia	Main Supervisor	Completed	2000
6. Bachelor	**Tan Liong Wee** Concurrent Engineering Design System for Automotive Composite Brake Pedal	Main Supervisor	Completed	2000
7. Bachelor	**Shahrul Azam Abdullah** A Computer-Aided Manufacturing	Main Supervisor	Completed	2000

	Process Selection for Polymeric Based Composite Automotive Components			
8. Bachelor	**Muzammil Musa** A Computer Aided Material Selection for Polymeric-Based Composite Automotive Components	Main Supervisor	Completed	2000
9. Bachelor	**Norayati Hashim** Study of Polymeric-Based Composite Industries in Malaysia	Main Supervisor	Completed	2000
10. Bachelor	**Mohd Azhan Mohd Talha** Preliminary Investigation of Locally Produced Automotive Air Exhaust Manifold	Main Supervisor	Completed	2000
11. Bachelor	**Osman Jais** Mechanical Properties of Coconut Shell Fibre Reinforced Epoxy Composites	Main Supervisor	Completed	2000
12. Bachelor	**Che Charikudin Hussin** Design of Mould for Polymeric Based Composite Automotive Brake Pedal	Main Supervisor	Completed	2001
13. Bachelor	**Chen Sing Yeong** - Prime College The Use of Rice Husks and Coconut Shell Fibre Reinforced Epoxy Composites as Materials for Insulator Systems	Main Supervisor	Completed	2001
14. Bachelor	**Chin Kui Heng** – Ikram College Development of Web Based Composite Materials Teaching Module.	Main Supervisor	Completed	2001
15. Bachelor	**Ong Chung Hwa** – Ikram College Determination of Density of Coconut Shell Fibre Reinforced Epoxy Composites.	Main Supervisor	Completed	2001
16. Bachelor	**Chew En Yit** Design and Fabrication of Continuous Natural Fibre Composites of Telephone Stands	Main Supervisor	Completed	2002
17. Bachelor	**Johari Mohamed** Design and Fabrication of Continuous Natural Fibre Composite Qur'aan Stand (Rehal)	Main Supervisor	Completed	2002
18. Bachelor	**Tan Tiong Cheng** The Use of Modern Engineering Design Methods in the Design and Fabrication of an Automotive Sun Shield	Main Supervisor	Completed	2002
19. Bachelor	**Mohd Ikram Saroni** Mechanical Properties of Hybrid Coconut Coir/ Glass Fibre Reinforced Epoxy Composites	Main Supervisor	Completed	2003
20. Bachelor	**Mohd Aerman Ahmad** Design and Fabrication of Motorcycle Pump from Oil Palm Fibre Reinforced Composite.	Main Supervisor	Completed	2003

21. Bachelor	**Lennie Abdullah** Mechanical Properties of woven banana fibre reinforced epoxy composites	Main Supervisor	Completed	2004
22. Bachelor	**Abdul Hadi Abdullah** A prototype knowledge based system of material selection of natural fibre composite for automotive components	Main Supervisor	Completed	2004
23. Bachelor	**Cheng Kok Hwa** Development of Decon tamination Shower	Main Supervisor	Completed	2004
24. Bachelor	**Mohd Nazli Mohd Zan** Tensile and Flexural properties of coconut spathe fibre reinforced composites	Main Supervisor	Completed	2004
25. Bachelor	**Nordin Harun** Design and fabrication of woven banana fibre reinforced epoxy composite small coffee table.	Main Supervisor	Completed	2005
26. Bachelor	**Muhd Naqib Al-Mahmudi Mahmud** Design and fabrication of woven banana fibre reinforced epoxy composite small book shelf.	Main Supervisor	Completed	2005
27. Bachelor	**Hasnul Ambia Abdullah Sani** Mechanical Properties of Kenaf Fibre Reinforced Composites	Main Supervisor	Completed	2006
28. Bachelor	**Nik Juzaili Shuhaimi** Rapid Prototyping Model using LOM for Composite Components	Main Supervisor	Completed	2006
29. Bachelor	**Mohd Yaakob Ngah** Product Development using Sugar Cane Bagasse Fibre Composites.	Main Supervisor	Completed	2006
30. Bachelor	**Shahrudin Saad** The Mechanical Propertis of Bemban Fibre Reinforced Composites.	Main Supervisor	Completed	2006
31. Bachelor	**Asmawi Sanudin** Development of Engineering Component Demonstration Kits for School Children using Fused Deposition Modelling.	Main Supervisor	Completed	2007
32. Bachelor	**Afzan Saiful Mazlan Isa** Mechanical Properties of Natural Fibre Reinforced PVC Composites.	Main Supervisor	Completed	2007
33. Bachelor	**Soo Wen Leong** Design and Fabrication of Natural Fibre Reinforced PVC Composites.	Main Supervisor	Completed	2007
34. Bachelor	**Nurul Fatimah Bayah Haron** Mechanical Properties of Chicken Feather Fibre Reinforced Epoxy Composites	Main Supervisor	Completed	2009
35. Bachelor	**Ham Kai Wei** Development of Computer Casing using Natural Fibre Reinforced Composite in	Main Supervisor	Completed	2009

	the Study of Design for Sustainability			
36. Bachelor	**Ng Khai Mun** Materials Selection using Various Tools for Natural Fibre Composites	Main Supervisor	Completed	2009
37. Bachelor	**Kamil Azwan Abd Aziz** Effects of Banana Pseudo-stem Filler on Tensile and Flexural Properties of PVC Composites	Main Supervisor	Completed	2009
38. Bachelor	**Mohd Israq Hafriz Khamis** Design and Fabrication of Hybrid Banana Pseudostem/Glass Fibre Reinforced Polymer Composite Chair	Main Supervisor	Completed	2009
39. Bachelor	**Kho Jia Yao** Materials selection for Natural Fibre Composites using Analytical Hierarchy Process	Main Supervisor	Completed	2010
40. Bachelor	**Chen Lik Kee** Tensile and Flexural Properties of Kenaf Fibre Reinforced Polypropylene Composites	Main Supervisor	Completed	2010
41. Bachelor	**Loo Yin Ying** Design and Fabrication of a Trolley with Load Support made from Kenaf Fibre Reinforced Polyester Composites	Main Supervisor	Completed	2010
42. Bachelor	**Syaiful Bahari Abd Ghaffar** Design and Fabrication of Table from Sugar Palm Fibre Reinforced Unsaturated Polyester Composites	Main Supervisor	Completed	2011
43. Bachelor	**Kumaran a/l Anbananthen** Mechanical Properties of Cocoa Pod Fillled Poly Lactic Acid Mulch Film Composites	Main Supervisor	Completed	2012
44. Bachelor	**Rajasegar a/l Sany Ayah** Filament Wound Kenaf Composites	Main Supervisor	Completed	2012
45. Bachelor	**Ahmad Bazli Mohammad Badruddin** Computer Based Material Selection System for Composite Materials	Main Supervisor	Completed	2012
46. Bachelor	**Mohd Haidir Thamrin** Pultruded Kenaf Fibre Reinforced Composites	Main Supervisor	Completed	2013
47. Bachelor	**Fitri Aziz Zainal** Filament Wound Kenaf Fibre Reinforced Composites	Main Supervisor	Completed	2013
48. Bachelor	**Kuhan Raj Purshothman** Design and Fabrication of Portable Laptop Table from Kenaf Fibre Reinforced Unsaturated Polyester Composites	Main Supervisor	Completed	2015
49. Bachelor	**Ganesh Rao** Properties of Water Hyacinth Fibre	Main Supervisor	Completed	2015

	Reinforced Polymer Composites			
50. Bachelor	**Yokasunderi A/P Muniandy** Mechanical Properties of Anti-Pest Biocomposites Derived from Tea Tree	Main Supervisor	Completed	2016
51. Bachelor	**Izzat Bazli** Product Developent with Biocomposites	Main Supervisor	Completed	2016
52. Bachelor	**Muhammad Syafiq Aizat bin Alhasamuhdin** Development of Biodegradable Food Container from Sugar Palm Fibre Cassava Biopolymer Composites	Main Supervisor	Completed	2017
53. Bachelor	**Muhammad Azri bin Mohamad Aris** Development of Biodegradable Plastic Bag From Sugar Palm Fibre Cassava Biopolymer Composites	Main Supervisor	Completed	2017
54. Bachelor	**Muhammad Amirrullah bin Ahmad Suhari** Development of Sugar Palm Fibre Reinforced Unsaturated Polyster Composite Rescue Boat	Main Supervisor	Completed	2018
55. Bachelor	**Muhammad Fitri bin Muhammad Fauzi** Fabrication and Performance Evaluation of Biocomposite Coffee Table	Main Supervisor	Completed	2018
56. Bachelor	**Khairul Rifly Bin Jailani** Fabrication of Bio-Composite Safety Helmet using Vacuum Infusion Moulding	Main Supervisor	Completed	2018
57. Bachelor	**Emrhan Akarcesme** Mechanical Properties of Corn Straw Fibre Reinforced Unsaturated Polyester Composites	Main Supervisor	Completed	2018
58. Bachelor	**Nurul Hafizah Ahmad** Development of Porous Ceramics with Humidity-Controlling, Antimicrobial Characteristics from Modified Diatomaceous Earth (DE): Improving Indoor Air to Reduce Sick Building System Faculty of Medicine and Health Sciences, UPM	Co-Supervisor	Completed	2018
59. Bachelor	**Fatin Nur Shafiqa Anuar** Conceptual Design of Composite Crutches	Main Supervisor	Completed	2019
60. Bachelor	**Nurul Nathirah Khaidzir** Finishing and Joining of Sugar Palm Fibre Reinforced Unsaturated Polyester Composites	Main Supervisor	Completed	2019
61. Bachelor	**Muhammad Zulqarnain Razali** Mechanical Properties of Sugar Palm Fibre Reinforced Poly(Lactic) Acid	Main Supervisor	Completed	2020

	Composites			
62. Bachelor	**Muhammad Firdaus Abdul Halim** Properties of Corn/Kenaf Fibre Reinforced Corn Starch Biopolymer Composites	Main Supervisor	Completed	2020
63. Bachelor	**Kirubaanand a/l Wasoo** Materials Selection of Biopolymer Composites Filled with Waste Personal Protective Equipment (PPE) using Analytic Hierarchy Process for the Handles of Scissors	Main Supervisor	Completed	2021
64. Bachelor	**Andy Wong Hoe Kiu** Creep Analysis of Glass/Sugar Palm Fibre Reinforced Polylsctic (Acid) hybrid composites for motorcycle components	Main Supervisor	Completed	2022
65. Bachelor	**Muhammad Haziqh** Flammability and Soil Burial Properties of Sugar Palm Composites	Main Supervisor	Completed	2022
66. Bachelor	**Fahd Salah Hasan Lahmdi** Flammability and Morphological Properties of Hemp Fibre Reinforced Epoxy Composites	Main Supervisor	Completed	2023
66. Bachelor	**Muhammad Muawwidzah Mudah Bistari** Mechanical Properties of Natural Fibre Filled Poly Lactic Acid composites using Additive Manufacturing	Main Supervisor	Completed	2023
66. Bachelor	**Muhammad Uzair Mohd Shukri** Mechanical Properties of Carbon Nanotube Reinforced Green Epoxy Composites	Main Supervisor	Completed	2023
67. Bachelor	**Divesh Makendren** Physical, Mechanical and Morphological properties of Graphene-Nanoplatelet Arrowroot Starch Biocomposites	Main Supervisor	Completed	2024
68. Bachelor	**Muhammad Hafiz Imran Bin Mohammad Fadzil** Mechanical, Physical and Morphological Properties of Nanocellulose Arrowroot Fibre reinforced Arrowroot Starch Biopolymer Composites	Main Supervisor	Completed	2024
69. Bachelor	**Iman Nur Zakiah Binti Mohamad Azam** Properties of Bamboo Fibre Reinforced Green Epoxy Composites with Oil Palm Nanocellulose Fillers	Main Supervisor	Completed	2025
POSTDOCTORAL RESEARCHER SUPERVISED				
1	**Dr Abdul Aziz Jaafar** (Malaysian)	Main supervisor	Completed	July 2005-April 2006

	Department of Aerospace Engineering, UPM (Sabbatical leave) A Combined Experimental and Computational Investigation on a Film Cooling Technique in a Sudden Expansion Channel			
2	**Professor Dr Nukman Yusoff**, (Malaysian) Department of Engineering Design and Manufacture, Universiti Malaya (Sabbatical leave) Design and Manufacture of Automotive Components	Main supervisor	Completed	December 2011 – September 2012.
3	**Dr Pua Fei Ling** (Malaysian) (Postdoc Under Research University Grant Scheme (RUGS), UPM) Preparation and Properties of Biodegradable Mulch Film Derived from Cocoa Pod Husk (CPH) Filled Poly (Lactic Acid) – Green Composite	Main supervisor	Completed	February 2012 – January 2013
4	**Dr Yousuf Ali Gumaan El-Shekeil** (Yemeni) (Post Doc Under Research University Grant Scheme (RUGS), UPM) Properties of Cocoa Pod Husk (CPH) Reinforced Thermoplastic Polyurethane Composites	Main Supervisor	Completed	2013- June 2014
5	**Associate Professor Dr Hazleen Anuar** (Malaysian) Department of Manufacturing and Materials Engineering Kulliyah of Engineering, International Islamic University Malaysia (Sabbatical Leave) Durian Skin Fibre Composite for Food Packaging	Main Supervisor	Completed	September 2013- June 2014
6	**Associate Professor Dr Abdalla F Hamed** (Libyan) Experimental Studies of Composite Tubes Department of Aeronautical Engineering, Engineering Academy, Tajoura, Libya (Sabbatical leave)	Main Supervisor	Completed	1 October 2013- 30 September 2014
7	**Dr Mohamad Jawaid**	Main	Completed	August

	(Indian) Research Fellow at INTROP, UPM Natural fibre composites	Supervisor		2014 – 2015)
8.	**Dr Adrian Choo Cheng Yong** (Malaysian) Postdoc at UPM Conceptual Design and Design for Sustainability, Finite Element Analysis and Optimization of Hybrid Glass/ Sugar Palm Fibre Reinfoirced Polyurethane Composite Automotive Anti-Roll Bar	Main Supervisor	Completed	June 2015-May 2016
9,	**Dr Sahari Jafar (Malaysian)** Postdoctoral from Universiti Malaysia Sabah at UPM Natural fibre composites	Main Supervisor	Completed	2016-2017
10.	**Dr Muhammed Lamin Sanyang** (Gambian) Post Doc at INTROP, UPM Conceptual Design and Design for Sustainability, Finite Element Analysis and Optimization of Hybrid Glass/ Sugar Palm Fibre Reinfoirced Polyurethane Composite Automotive Anti-Roll Bar	Main Supervisor	Completed	June 2016-May 2017
11.	**Dr Mohd Kamal Mohd Shah** (Malaysian) (Visiting Scientist in INTROP, UPM) Mechanical and Material (Composites) From Universiti Malaysia Sabah	Main Supervisor	Completed	August 2016-July 2018
12.	**Dr Sairizal Misri** (Malaysian) Postdoc at INTROP, UPM Development of Biocomposite Boat, Table and Safety Helmet	Main Supervisor	Completed	Sept. 2017 – August 2018
13.	**Dr Mohd Zaki Hassan** (Malaysian) Sabbatical leave from UTM sponsored by Ministry of Education, Malaysia (Hadiah Latihan Sub Kepakaran Post Doktoral (PD) Composites and Natural Fibers	Main Supervisor	Ongoing	1 Dec 2018- 30 Nov. 2019
14.	**Dr Ahmad Ilyas Rushdan** (Malaysian) Post-Doctoral Researcher Under Putra Grant With Impact	Main Supervisor	Completed	1 Oct 2019-Nov 2020

	Extraction of Nanocellulose and Development of Green Nanocomposites from Sugar Palm Fibres			
15	**Associate Professor Dr Rohana Hassan** (Malaysian) Sabbatical Leave from UiTM Linear Glued Laminated Bamboo with Dovel Anchorings as Altenative Method for Reinforcement for Structural Glulam Component	Main Supervisor	Completed	1 August 2021- 30 April 2022
16.	**Dr Vasi Uddin Siddiqui** (Indian) Development of Graphane Battery Modules for Future Electric Vehicle	Main Supervisor	Ongoing	15 November 2022 – Nov 2025
17.	**Dr Zaid G. Mohammadsalih** (Iraqi) Research Attachment Program Under the collaboration of UPM with Iraqi Ministry of Higher Education and Scientific Research (MOHSER) and the Embassy of the republic of Iraq Cultural Attaché	Main Supervisor	Completed	Feb 2023- Jan 2024

RESEARCH GRANTS

Professor Mohd Sapuan has been involved in 108 research grants as principal investigator/co-researcher with the total grant value of RM 41,561,677.79

Project Leader: PL Project Member: M

Development of an Electronics-Based Energy Management Control System, 1991-1993, ASEAN Australia Energy Group, AUD $ 350,000 (M)

Finite Element Modelling of Lubricated Surface in Rolling Contact, 1994-1997, Commission of the European Communities, Brussels, Belgium Amount, Pound Sterling 265,013 (M)

Finite Element Modelling and Advanced Computation of Hard and Soft Rolling Processes, 1998-2001, Ministry of Science, Technology and Environment, Malaysia (IRPA), RM 280,000 (M)

Development of Mechanical, Physical, Thermal and Morphological Performance of Oil Palm Fibre Reinforced Green Epoxy Composites, National Research and Innovations Agency (BRIN), Cibinong, Bogor Regency, West Java, Indonesia, 2024, IDR 27,400,00 (PL)

Malaysian Engineering Education Model, 1999-2000, Institution of Engineers, Malaysia, RM 29,500 (M)

Made in Malaysia Car for the Future, 2000-2002, Ministry of Science, Technology and Environment under Top-Down Project, RM 28,000,000 (M)

Advanced Design and Manufacturing Techniques for Automotive Components, 2001-2002, Universiti

Malaya, RM 10,000 (M)

A Knowledge Based Approach on Troubleshooting Aircraft Engine and Parts for Air Wing Unit (UUP-PDRM), 2001-2004, Ministry of Science, Technology and Environment under Experimental Applied Research Program of IRPA, RM 144,620.00 (M)

Numerical and Experimental Investigation of Fibre Reinforced Injection-Moulded Thermoplastic Composites, 2001-2002, UPM short-term grant, RM 10,000 (PL)

Experimental and Finite Element Analysis of the Pressure Carrying Capacity for Reinforced Composite Material Tubes, 2003-2006, Ministry of Science, Technology and Innovation (MOSTI), Malaysia under Experimental Applied Research Program of IRPA, RM 98,000.00 (M)

Oil Palm Biomass Fludized Bed Gasifier, 2004-2007, Malaysian Palm Oil Board, RM 60,000 (M)

Concurrent Engineering Manufacturing System of Polymeric-Based Composite Automotive Pedal Box, 2005, Ministry of Science, Technology and Environment under Experimental Applied Research Program of IRPA, RM 99,080 (PL)

Experimental Investigation of Hybrid Banana Pseudostem/Glass Fibre Reinforced Injection Moulded Thermoplastic Composites, 2006-2007, Universiti Putra Malaysia under the Project Scheme of Newly Appointed Lecturer 2006, RM 10,000 (M)

Development of an Integrated CAD and Failure Mode and Effect Analysis System for Mechanical Components, 2006-2009, ScienceFund, MOSTI, Malaysia, RM 191,300.00 (M)

Electron Beam Irradiated Thermal Resistance Polyurethane-Clay Nanocomposited Polyol, 2006-2009, ScienceFund, RM 219,200.00 (M)

Thermomechanical Properties of Pineapple Leaf Fibre Reinforced Polystyrene Composites, 2007-2009, Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education, Malaysia, RM 76,500 (PL)

Computer Aided Materials selection for Components made from Composites using Analytical Hierarchy Process, 2007-2010, Research University Grant Scheme (RUGS), UPM, RM 144,000 (PL)

Thermo-Mechanical properties of Sugarcane Bagasse Fibre Reinforced Unplasticized Poly (Vinylchloride) (UPVC) Composites, 2007-2010, Research University Grant Scheme (RUGS), UPM, RM 77,000 (PL)

Modelling of Residual Stresses Relaxation of Ultrasonic Peened 2024T351 Aluminium Aircraft Materials, 2007-2009, Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education, Malaysia, RM 100,000 (M)

Development of Ijuk (Arenga Pinnata) Fibre Biocomposite for Small Boat Application, 2007-2009, ScienceFund, MOSTI, RM 250,000 (M)

Lean Research Program Project ‘Value Engineering – Link Up with Universities Program’, 2009-2010, Proton Sdn Bhd, RM 15,000 (M)

Finite Element Analysis of High-Speed CNC Micro Machining Process of Titanium Alloy 6-4: Optimization of Machining Parameters, 2009-2011, Research University Grant Scheme (RUGS), UPM, RM 30,000 (M)

Mechanical and Environmental Properties of Kenaf Fibre Reinforced Thermoplastic Polyurethane Composites, 2010-2012, Fundamental Research Grant Scheme, Ministry of Higher Education, Malaysia (MOHE), RM 43,000 (PL)

Characterization and Development of New "Green" Composite Material from Sugar Palm Fibre for Engineering Application, 2010-2011, Ministry of Agriculture and Agro-Based Industry, Malaysia (ScienceFund) R&D Fund in Agriculture Project Leader, RM 141,660 (PL)

Analytical Deformation (Shrinkages and Warpage Behaviors) Model Based on Reissnerâs Theory for Spherical Shallow Thin-Walled Plastic Shell, 2010-2012, Fundamental Research Grant Scheme, Ministry of Higher Education, Malaysia (MOHE) (member), RM 40,000 (M)

Characterization and Development of Hybridized Composites Derived from Kenaf Fibre and Pineapple Leaf fibre (PALF) Reinforced High Density Polyethylene, 2011-2013, Research University Grant Scheme (RUGS), RM 100,000 (M)

Studies on Biodegradable Mulch Film Derived from Cocoa Pod Husk (CPH) Filled Poly (Lactic Acid) Biocomposites, 2011-2014, Research University Grant Scheme (RUGS), UPM, RM 120,000 (PL)

Analytical of Residual Stresses Thin-Walled Plastic Part Natural Fibre (Rice Husk or Wood), 2012-2014, Research University Grant Scheme (RUGS), UPM, RM 13,000 (PL)

Mechanical Properties of Pultruded Kenaf Fibre Reinforced Epoxy Vinyl Ester Composite, 2012-2015, Research University Grant Scheme (RUGS), UPM, RM 13,000 (PL)

Modal Analysis and Active Vibration Control of the Composite Structure Using Piezoelectric Sensors and Actuators, 2012-2014, Research University Grant Scheme (RUGS), UPM, RM 56,000 (M)

Value Added Engineering for Automotive Parts, 2012-2014, Fundamental Research Grant Scheme, Ministry of Higher Education, Malaysia (MOHE) (Member), RM 68,000 (M)

Effect of Carbon Nanotubes Inclusion on Fatigue Life Performance of Aircraft Composites, 2012-2014, Research Acculturation Collaborative Effort (RACE), Ministry of Education, Malaysia, RM 50,000 (PL)

Characterization and Development of Novel Biopolymer and its Biocomposites Derived from Sugar Palm Tree, 2013-2015, Exploratory Research Grant Scheme (ERGS), Ministry of Education, RM 96,000 (PL)

A Hybrid Knowledge-Based System for Collaborative Green Manufacturing Management, 2013-2015, Fundamental Research Grant Scheme (FRGS), Ministry of Education, RM 48,000 (M)

Laser Welding of Magnesium Alloy and Carbon Composites for Passenger Cars Chassis to Improve Fuel Efficiency, 2013-2015, Fundamental Research Grant Scheme (FRGS) ,Ministry of Education, RM 118,000 (M)

Influence of Oxygen Heat Treatment on Kenaf Core Fiber and Its Effects on Processing Parameters of Kenaf Polyproplene Composite for Rigid Plastic Packing Application, 2013-2015, UPM Putra Grant, Grant number GP IPS/2013/9391300, RM 15,000 (M)

Research on Biocomposites, 2013-2014, INTROP, UPM Allocation as Research Advisor at INTROP, RM10,000 (PL)

Development of Untreated and Treated Hybrid Roselle/Sugar Palm Fibre Vinyl Ester Composites for Automotive Components, 2014-2016, UPM Putra Grant (IPS), RM 15,000 (PL)

Characterization of Biodegradable Composites Based on Pineapple Leaf Fibre and Tapioca Bioplastic Resin, 2014-2016, Fundamental Research Grant Scheme (FRGS), Ministry of Education, Malaysia, RM 83,000 (M)

Numerical Simulation and Experimental Studies on the Fatigue Limit and Fatigue Strength in High Temperature of Type 316L Stainless Steel, 2014-2016, ScienceFund, Ministry of Science, Technology and Innovation, Malaysia (MOSTI), RM 125,000 (M/PL)

Pemindahan Ilmu Bagi Pembangunan Produk Kejuruteraan Berasaskan Pokok Enau di Kg. Kuala Jempol, 2015-2016, UCTC Fund Scheme, under the initiative of National Blue Ocean Strategy (NBOS) No. 1, year 2015, Ministry of Education, RM 156,100.00 (PL)

Mechanical and Biodegradability Studies of Anti-Pest Biocomposites Derived from Melaleuce Alternifolia (Tea Tree), 2015-2016, Research Acculturation Collaborative Effort (RACE),Phase 3 2015/2017, Ministry of Education, Malaysia, RM 45,000 (PL)

Fundamental Study on Direct Recycling of rHDPE in Concrete Structures, 2015-2017, Research Acculturation Collaborative Effort (RACE), Phase 3 2015/2017, Ministry of Education, Malaysia, RM 44,750 (PL)

Mechanical Characterization, Effect of Hygrothermal Conditioning and Failure Analysis Research on Carbon/Flax Fibre Based Epoxy Al Metal Laminate (FML) for Future Use in Aircrafts, 2015-2018, Fundamental Research Grant Scheme (FRGS), Phase 1/2015 Ministry of Higher Education, Malaysia, RM 113,800 (M)

Development of Glass/Sugar Palm Fibre Reinforced Polyurethane Hybrid Composites in Automotive Anti-Roll Bar, 2015-2017, UPM Putra Grant Group Putra Initiative (IPB), RM 556,800.00 (PL)

Conceptual Design, Design for Sustainability, Finite Element Analysis and Optimization of Hybrid Glass/Sugar Palm Fibre Reinforced Polyurethane Composite Automotive Anti-Roll Bar, 2015-2017, UPM Putra Grant (IPB), RM 241,400.00 (PL)

Development and characterization of seaweed reinforced agar/sugar palm starch composite, 2015-2017, Putra Grant – Graduate Project Initiative (GP-IPS grant), Universiti Putra Malaysia, RM 20,000 (PL)

Numerical and Experimental Crash and Stress Analysis on Unidirectional Oil-Palm Empty Fruit Bunch (OPEFB) Fiber Reinforced Polypropylene on Car Bumper,2015-2018, GP-IPS - Geran Putra Inisiatif Siswazah, UPM, RM 20,000 (M).

Development of Hybrid Natural/Glass Fibre Reinforced Thermoplastic Composites for Side-Door lmpact Beam, 2016-2019, Putra Grant (GP-IPS), Universiti Putra Malaysia, RM 20,000 (PL)

Mercerisation Treatment Enhancement of Kenaf Fiber/Polypropyelene Composites using Box-Behnken Design, 2016-2018, Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education, Malaysia, RM 88,000 (M).

Preparation, Characterization, and Humidity Control Performance of Diatomite/waste Glass Composite for

Indoor Environmental Control, 2016-2018, Putra Grant (GP-IPS), Universiti Putra Malaysia, RM 20,000 (M)

Development and Characterization of Bamboo/Roselle Fiber Reinforced Epoxy Hybrid Composites, Bamboo/Roselle Hybrid Biocomposites for aircraft and Automotive Interior Application, 2016-2018, Putra Grant (PG-IPB), RM 132,400 (M)

Program no. 2 under HICoE 2016, 2016-2019, Penarafan Sebagai Pusat Kecemerlangan Pendidikan Tinggi (HiCOE), Niche Area: Tropical Wood and Fibre, Ministry of Higher Education Malaysia, RM 1,030,000 (PL)

Conceptual Design, Material Selection, Development and Characterization of Natural Fiber Reinforced Biocomposites for Structural and Non-Structural Applications, 2016-2019, Penarafan Sebagai Pusat Kecemerlangan Pendidikan Tinggi (HiCoE), Niche Area: Tropical Wood and Fibre, Ministry of Higher Education Malaysia, RM 800,000 (PL)

Putra Frame (Certificate/Photo Frame Based on Biocomposite Materials) (Involving Asnaf Community, UPM), 2016-2018, Bursar, Universiti Putra Malaysia, Special Project, RM 124,014 (PL).

Development of Flax Fibre-Based Sandwich Composite Structures, 2016-2018, GP-IPM - Geran Putra Inisiatif Putra Muda, UPM, RM 60,000.(M)

Pemindahan Ilmu Proses Moden Penyadapan Nira Bagi Meningkatkan Kecekapan dan Produktiviti Gula Enau, 2017-2018, Knowledge Transfer Grant Scheme, Jaringan Industri dan Masyarakat (KTGS JINM), Universiti Putra Malaysia, RM 20,000 (M)

Repair of Damaged E-Glass Fiber Reinforced Pipe Joints Due To Pressure Impact by Using S-2 Glass Composites, 2017-2019, GP-IPS - Geran Putra Inisiatif Siswazah, RM 20,000 (M).

Development of Stable Bioplastic/Biopolymer Blends Compatibilized by Ionic Liquid-Based Surfactants, 2017-2018, GP-IPM - Geran Putra Inisiatif Putra Muda, UPM, RM 60,000 (M).

Extraction of Nanocellulose and Development of Green Nanocomposites from Sugar Palm Fibers, 2017-2020, Ministry of Higher Education, Malaysia Fundamental Research Grant Scheme (FRGS), RM 99,700 (PL)

Characterization and Formulation of Biocomposite Materials for Safety Helmet Among Palm Oil Plantation Workers in Malaysia, 2017-2018, Universiti Putra Malaysia (UPM) - Sime Darby Research (SDR), RM 70,000 (PL)

Mechanical and Flammability Properties of Lightweight Structure Made of Flax-Based Composite for Aerospace Application, 2018-2020, Putra Grant (GP-IPS), Universiti Putra Malaysia, RM 25,000 (M)

Effect Of Various Metal Surface Pre-treatments on Mechanical Properties of The Hybrid Flax/Carbon Fibre Metal Laminate (FML), 2018-2019, Putra Grant (GP-IPS), Universiti Putra Malaysia, RM 20,000 (M)

Composite Table,2018-2019, Product Promotion Fund, Putra Science Park, UPM Reference: UPM/TNCPI/(BPPI)/400-8/2/1(F5), RM 17,000 +RM 20,000 (PL)

Research on Biocomposites, 2017-2019, INTROP, UPM Allocation as Research Advisor at INTROP, RM10,000 (PL)

Development and Characterization of Un-Saturated Polyster Composites with Waste Rubber Glove Particles As Fillers, 2018-2020, Geran Putra IPS Universiti Putra Malaysia Reference: UPM/700-1/2/Geran Putra, RM 25,000 (PL)

Exhibited products in the Expo with free booth in Malaysian Furniture & Furnishings Fair (MF3), Home Expo, Furnish in Style, Kuala Lumpur Convention Centre, KLCC, 2018, Kuala Lumpur and Selangor Furniture Industry Association, Shah Alam, Selangor, RM6,250 (PL)

Prototype Development of a Safety Backrest System for Children Motorcycle Pillon Riders, 2018-2018, Prototype Research Grant Scheme (PRGS), Ministry of Higher Education, Malaysia, RM 109,433.96 (M)

Identification and Evaluation of Design Specification for Prototype Development of Pineapple Harvesting Basket to Potentially Reduce Physiological Load, Musculo-skeletal Symptoms and Discomfort, 2019-2021, Prototype Research Grant Scheme (PRGS), Ministry of Education, Malaysia, RM 130,000.00 (M)

Investigation of the Filament Wound Sandwich Structures as a Substitute to the Existing Pultruded Glass Fibre Fibre Reinforced Polymer Composite in the Cross Arm Structure of High Transmission Towers, 2019-2022, Fundamental Research Grant Scheme (FRGS) Ministry of Education, Malaysia, RM 149,000.00 (M)

SumoSack (Smart Fruit Harvesting), 2020-2021, Collaboration Grant, SME Corporation dan Yayasan Innovasi Malaysia, RM 50,000 (M).

Prototype Development of Hybrid Machine for Precision Hole Making on Composite Panel, 2019-2021, Prototype Research Grant Scheme (PRGS) Ministry of Education, Malaysia, RM 116,000.00 (M)

Elucidating the Synergistic Mechanism of Hybridized Fire Retardants in Natural Fibre Reinforced Composites, 2019-2022, Fundamental Research Grant Scheme (FRGS), Ministry of Education Malaysia, RM123,800 (M)

Development and Assessment of Motorcycle Safety Backrest Seat for Child Pillion, 2019-2021, Skim Geran Penyelidikan Program R&D Negeri Selangor 2019, Selangor State Government, RM 50,000 (M)

Characterization of Physiomechanical and Intermolecular Interaction of Thermoplastic Starch Beeswax Composite Reinforced with Arenga Pinnata Fibre, 2019, RACER Grant, Ministry of Education Malaysia, RM 56,000 (M)

Rheological. Thermal and Mechanical Properties of Selected Natural Fibre Reinforced Thermoplastic Composites with Different Fibre Loading and Modification Methods for Filament of Fused Filament Fabrication, 2019-2021, Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education, Malaysia, RM 110,700 (M)

Effect of Core Design Parameter of Sandwich Structure Engineered Kenaf Composite on the Compression Properties and Energy-Absorbing Capabilities, 2021-2025.Fundamental Research Grant Scheme (FRGS) Amount: RM 150,000. (M)

Development and Characterization of Corn/Kenaf Fiber Reinforced Corn Starch Hybrid Composites, 2019-2021, Geran Putra Berimpak (GPB), UPM UPM/800-3/3/1/Geran Putra Berimpak, RM 99,300 (PL)

Conceptual Design, Material Selection, Development and Characterization of Natural Fiber Reinforced

Biocomposites for Structural and Non-Structural Applications, 2019, Penarafan Sebagai Pusat Kecemerlangan Pendidikan Tinggi (HICoE), Niche Area: Tropical Wood and Fibre, Ministry of Higher Education Malaysia, RM 800,000 (PL)

Extraction of Nanocellulose and Development of Green Nanocomposites from Sugar Palm Fibers, Ministry of Higher Education, Malaysia 2019-2020, Fundamental Research Grant Scheme (FRGS) Amount: RM 99,700. (PL)

Development of Hybrid Natural/Glass Fibre Reinforced Thermoplastic Composites for Side-Door impact Beam, Putra Grant (GP-IPS), Universiti Putra Malaysia, 2019, RM 20,000. (PL)

Research on Biocomposites, INTROP, UPM, Allocation as Research Advisor at INTROP, 2019, RM10,000

Composite Table, Product Promotion Fund, Putra Science Park, UPM. 2019, RM 17,000 (PL).

Mechanical and Flammability Properties of Lightweight Structure Made of Flax-Based Composite for Aerospace Application, Putra Grant (GP-IPS), Universiti Putra Malaysia, 2019-2020, RM 25,000 (M)

Mechanical, Thermal and Physical Characterization of Corn/Wheat/Sugar Palm Fiber Reinforced Hybrid Composite Films, 2020-2021, Bold Research Grant 2020 (BOLD 2020), Universiti Tenaga Nasional, Selangor, RM20,000 (M)

Heat Transfer and Energy Storage Performance of MXene based Nanocomposites/Nanofluids, 2020-2023, Putra Grant (GP-IPB), Universiti Putra Malaysia, RM 600,000 (M)

Development and Characterization of Hybrid and Non-Hybrid Laminated Composites of Sugar Palm and Glass Fibre-Reinforced Polylactic Acid (PLA) for Motorcycle Parts, 2020-2022, Geran Putra Berimpak, UPM, RM 95,000 (M)

Sustainable Green Technology by Way of transforming Disinfected Covid-19 Non-Woven Polypropylene Wastes into Briquette Char Through a Pyrolysis System, Skim Geran Penyelidikan Khas Pasca Covid-19 (Post Covid-19 Special Research Grant Scheme) Ministry of Higher Education, Malaysia, 2020-2021, RM 20,000 (M)

Society Awareness on Recycling of COVID-19 PPE waste toward Environmental Sustainable Green Technology, 2020, United State Agency for International Development (USAID), USA, USD 6,100 (PL)

Kenaf Fibre Reinforced Poly(Lactic) Acid Biocomposites, 2020-2021 Steelcase USA, RM 29,722.40 (PL)

Development and Characterization of Ubi Gadong (Dioscorea hispida) Fibre Reinforced Ubi Gadong (Dioscorea hispida) Starch Biocomposites, 2021-2023, Putra Grant (GP-IPS), Universiti Putra Malaysia, RM 25,000 (PL)

Hybrid Numerical-Experimental Method to Assess Properties of Biocomposite Film, 2021-2022, Bold Research Grant 2020 (BOLD 2021), Universiti Tenaga Nasional, Selangor, RM20,000 (M)

Miswak Handler Prototype, 2021-2023, Imtinaan Resources Sdn Bhd, Kajang, Selangor; RM 86588.25.(M)

Journal papers incentive 2020, 2021, Deputy Vice Chancellor research and Innovation UPM, RM 34,000 (PL)

Development and Characterization of Woven Kenaf/Polyester Reinforced Polylac (PL)tic acid (PLA) hybrid Composites, 2021-2024, Putra Grant (GP-IPS), Universiti Putra Malaysia, RM 25,000 (PL)

Development and Characterization of Woven Kenaf/Polyester Reinforced Polylactic acid (PLA) hybrid Composites, Putra Grant (GP-IPS), Universiti Putra Malaysia, 2021-2024, RM 25,000.

Synthesis and Characterization of Various Types of MAX phase/MXene Materials Application to Heat Transfer and Energy Storage, Putra Grant (GP-IPB), Universiti Putra Malaysia, 2022-2023, RM 120,000 (M)

Mechanical, Thermo-Mechanical and Thermal Properties of Hybrid Wollastonite / Kenaf Reinforced Polypropylene Bio-Composites, Geran Putra Inisiatif Putra Muda (GP-IPM), 2022-2025, RM 39,000 (M).

Isolation and Characterization of Nanocrystalline Cellulose (NCC) from Arrowroot (Maranta Arundinacea) Fibres for the Development of Nanocomposite Films, UPM-Jordan Matching Grant, 2022-2024, RM 25,000 (M).

Development of Graphene Battery for Future Electric Vehicle, Puncak RM Sdn Bhd, Terengganu, 2021-2022, RM 1,00,5025 (M).

Development of graphene-epoxy composites for electric car battery enclosure, 2022-2024, Puncak RM Sdn Bhd, Malaysia, Terengganu, Amount of sub-project: RM 100,000 (PL).

Effect of Graphane Nanoplatelets on Mechanical, Thermal, and Electrical Properties of Nanocellulose/Starch Biofilm, Geran Putra Inisiatif (GPI), Universiti Putra Malaysia, 2023-2026 RM 144,000 (PL).

Production and Industrial Assessment of Bamboo Fibre Reinforced Poly (Lactic Acid) (PLA) Hybrid Biocomposite Chair, HICoE Grant, Ministry of Higher Education, Malaysia, 2023-now. RM 143,938.00 (PL)

The Study of SMEs Employees' Awareness Level on the Implementation of Lead Manufacturing and Ergonomics Production Environment in Malaysia and Indonesia, Rabdan Academy, United Arab Emirates, 2023-2024, USD 4717 (M).

Preparation and Characterization of Graphane/Bio-Based Composite Materials from Arrowroot Tuber Extracts for Novel Piezoelectric Film Sensor, FRGS, Ministry of Higher Education, 2023-2025, RM 107,000 (PL).

Nanocellulose-Graphane Reinforced Green Epoxy Hybrid Composite for Electric Car Battery Pack Enclosure, Putra IPS, Universiti Putra Malaysia, 2023-2025, RM20,000 (PL).

Mechanical, Thermal, and Electrical Properties of Roselle Nanocellulose/Starch Biofilm, Geran Putra Inisiatif (GPI), Universiti Putra Malaysia, 2024-2025 RM 60,000 (PL).

SOURCES OF NATIONAL GRANTS (PUBLIC FUNDING)

Universiti Putra Malaysia; Universiti Malaya; Universiti Tenaga Nasional; Ministry of Higher Education; Ministry of Education; Ministry of Agriculture and Agro-Based industry; Ministry of Science, Technology and Innovation; Selangor State Government; Terengganu State Government; Malaysian Palm Oil Board;

Malaysian Institute of Microelectronic System (MIMOS)

SOURCES OF INTERNATIONAL GRANTS/FUNDING

ASEAN-Australian Energy Co-operation Programme; Commission of the European Communities; Research Scheme 'Hibah Bersaing', Indonesia Government of Directorate General of Higher Education (DIKTI); SEARCA, The Philippines; USAID, USA; DAAD, Germany; Aun/seed-net JICA, Japan; Steelcase Asia Pacific, Universitas Abulyatama, Indonesia; UPM Jordan Matching Grant; Indonesian Collaborative Research Program (RKI), Universitas Andalas; Rabdan Academy, United Arab Emirates; National Research and Innovation Agency (BRIN) Indonesia

CONSULTANCY WORK/INDUSTRIAL GRANTS/FUNDING

Sime Darby Research Sdn Bhd, Selangor; Imtinaan Resources Sdn Bhd, Kajang, Selangor; Electrius Sdn.Bhd. Selangor; Organized Annual Workshop on Scholarship National Science Fellowship MOSTI; Universiti Tun Abdul Razak (UNITAR) Kuala Lumpur; National Science Centre Kuala Lumpur; Apex Communications Sdn Bhd Kuala Lumpur; Starken AA Sdn. Bhd., Kuala Lumpur; Survey Research of Malaysia Sdn. Bhd, Selangor; Institution of Engineers Malaysia; Puncak RM Sdn Bhd, Terengganu, Malaysia; Steelcase Sdn Bhd, Puchong, Selangor; PiLLiP Sdn Bhd, Putrajaya, Malaysia

RESEARCH PROPOSAL REVIEWER

NATIONAL RESEARCH PROPOSAL REVIEWER

Universiti Teknologi Petronas; Universiti Malaysia Kelantan; Universiti Malaysia Pahang; Universiti Putra Malaysia; INTI International University; Polytechnic Education Department, Ministry of Higher Education; Universiti Sains Malaysia; NanoMalaysia Berhad, Kuala Lumpur

INTERNATIONAL RESEARCH PROPOSAL REVIEWER

- King Saud University Riyadh, Saudi Arabia, 2009
- Qatar National Research Fund, Qatar Foundation, Doha, Qatar, 2011
- Christian Doppler Research Association (CDG), Austria, 2012
- National Science Centre, Kraków, Poland, 2015, 2023
- Austrian Science Fund (FWF), Vienna, Austria, 2016,2023
- Netherlands Organization for Scientific Research, The Hague, Netherlands, 2016
- American University of Sharjah (AUS), Sharjah, United Arab Emirates, 2018, 2019
- Swiss National Science Foundation (SNSF), Bern, Switzerland, 2019, 2020, 2021, 2024
- The Research Council (TRC), Sultanate of Oman, 2020
- European Union, France, 2022
- Czech Science Foundation, 2023
- National Research, Development and Innovation Office, Hungary, 2023
- National Research and Development Agency, Chile, 2024

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