



PERSONAL DETAILS

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Expertise : STEM Education, Physics Education, Environmental Education, Educational Research (Qualitative), Inquiry-Based Learning, Engineering Education
H-Index (WOS) : 8
H-Index (SCOPUS) : 12
H-Index (G. Scholar) : 22

ACADEMIC QUALIFICATIONS

NO	LEVEL OF EDUCATION	COURSE	UNIVERSITY	STARTING DATE	ENDING DATE
1.	Ph.D.	Education	University of Cambridge, UK	Oct 2007	July 2009
2.	M.Phil.	Educational Research	University of Cambridge, UK	Oct 2005	Aug 2006
3.	M.Ed.	Physics	Universiti Teknologi Malaysia	Jun 2003	Aug 2005
4.	B Sc & Comp. with Ed.	Physics	Universiti Teknologi Malaysia	Jun 1999	May 2003

AWARD AND HONORS RECEIVED

Summary	
International Awards/Honors	5
National Awards/Honors	7
UTM Awards/Honors	30
Faculty Awards/Honors	15
Exhibition Awards	45

Special Awards & Honors

No.	Event	Award	Level	Year
1.	Okayama ESD Award 2018	Global Prize (First) – “Iskandar Malaysia Ecolife Challenge”	International	2018

No.	Event	Award	Level	Year
2.	World Intellectual Property Organization (WIPO) Medal of Creativity	Gold – “Iskandar Malaysia Ecolife Challenge”	International	2018
3.	United Nations University (UNU) Global RCE Award 2015	Outstanding Flagship Project (Climate Change) – “Iskandar Malaysia Ecolife Challenge”	International	2016
4.	Universitas Sebelas Maret	Visiting Professor	International	2021
5.	Universitas Negeri Malang	Adjunct Professor	International	2024-2028
6.	Society of Engineering Education Malaysia	SEEM Outstanding Member Award	National	2024
7.	Society of Engineering Education Malaysia	Fellow	National	2024
8.	UK Alumni Awards 2021-2022	Malaysian Finalist – Science and Sustainability	National	2022
9.	Tokoh Hari Wanita (Yayasan Dakwah Islamiah Malaysia)	Anugerah Saidantina Safiyyah	National	2021
10.	Academy of Sciences Malaysia (ASM) - Top Research Scientists Malaysia (TRSM) & Fellowship 2019	Top Research Scientists Malaysia (TRSM) 2019	National	2019
11.	Anugerah Harta Intelek Negara (Hak Cipta) 2018	Gold – “Iskandar Malaysia Ecolife Challenge”	National	2018
12.	Pertandingan “Duniaku Dakwahku” Saudara Kita Peringkat Negeri Johor	Silver	National	2015
13.	UTM Citra Karisma 2022	Vice Chancellor Innovation Award – “Iskandar Malaysia Ecolife Challenge”	University	2023
14.	UTM Citra Karisma 2022	CoE Indexed Publication Award	University	2023
15.	UTM Citra Karisma 2021	Innovator Award	University	2022
16.	UTM Citra Karisma 2021	CoE Indexed Publication Award	University	2022
17.	UTM Citra Karisma 2020	CoE Indexed Publication Award	University	2021
18.	UTM Citra Karisma 2019	Best Community Project Award – “Problem-Based Learning for Low Carbon Society”	Univeristy	2020
19.	UTM Citra Karisma 2019	CoE Indexed Publication Award	Univeristy	2020
20.	UTM Citra Karisma 2018	Best Community Project Award – “Iskandar Malaysia Ecolife Challenge”	University	2019
21.	UTM Citra Karisma 2018	CoE Indexed Publication Award	University	2019
22.	UTM Citra Karisma 2018	Excellent Service Award	University	2019
23.	UTM Citra Karisma 2017	CoE Indexed Publication Award	University	2018
24.	UTM Citra Karisma 2016	CoE Indexed Publication Award	University	2017
25.	UTM Citra Karisma 2012	Excellent Service Award	University	2013
26.	Teaching Excellence 2024	Active Blended Learning Course Award	University	2024
27.	Teaching Excellence 2023	Active Blended Learning Course Award	University	2023

No.	Event	Award	Level	Year
28.	Teaching Excellence 2022	Active Blended Learning Course Award	University	2022
29.	Teaching Excellence 2021	Active Blended Learning Course Award	University	2021
30.	Teaching Excellence 2020	Active Blended Learning Course Award	University	2020
31.	Teaching Excellence 2019	Active Blended Learning Course Award	University	2019
32.	Teaching Excellence 2018	Active Blended Learning Course Award	University	2018
33.	Teaching Excellence 2017	Active Blended Learning Course Award	University	2017
34.	Teaching Excellence 2016	Active Blended Learning Course Award	University	2016
35.	Teaching Excellence 2015	Active Blended Learning Course Award	University	2015
36.	UTM Staff Games 2023	Bronze (800m Women) – 4th place	University	2023
37.	UTM Staff Games 2023	Top 25 (5km Women) – 4th place	University	2023
38.	UTM Staff Games 2022	Bronze (800m Women)	University	2022
39.	UTM Staff Games 2022	Bronze (Badminton Women)	University	2022
40.	UTM Staff Games 2019	Silver (Badminton Women)	University	2022
41.	UTM Staff Games 2019	Top 15 (5km Women)	University	2022
42.	UTM Staff Games 2010	Gold (Netball)	University	2022
43.	Majlis Apresiasi FSSH 2024	Anguerah Tokoh Penerbitan	Faculty	2024
44.	Majlis Apresiasi FSSH 2024	Excellent Service Award	Faculty	2024
45.	Majlis Apresiasi FSSH 2023	Researcher Award	Faculty	2023
46.	Majlis Apresiasi FSSH 2023	Excellent Service Award	Faculty	2023
47.	Majlis Apresiasi FSSH 2022	Anugerah Gaya Hidup Sihat	Faculty	2022
48.	Majlis Apresiasi FSSH 2022	Excellent Service Award	Faculty	2022
49.	Majlis Apresiasi FSSH 2022	Innovation & Commercialisation Award	Faculty	2022
50.	Majlis Apresiasi FSSH 2021	Supervision Award (Finalist)	Faculty	2021
51.	Majlis Apresiasi FSSH 2021	Excellent Service Award	Faculty	2021
52.	Majlis Apresiasi FSSH 2020	Excellent Service Award	Faculty	2020
53.	Majlis Apresiasi CEE 2022	Researcher Award	CEE	2022
54.	Anugerah Kecemerlangan & Penghargaan FSSH 2018	Research Award	Faculty	2019
55.	Anugerah Kecemerlangan & Penghargaan FSSH 2018	Industrial Engagement Award	Faculty	2019
56.	Anugerah Kecemerlangan & Penghargaan FSSH 2018	Innovation & Product Commercialisation Award	Faculty	2019
57.	Anugerah Kecemerlangan & Penghargaan FSSH 2018	Excellent Service Award	Faculty	2019

Exhibition Awards

No.	Event	Award	Level	Year
1.	International University Carnival on E-Learning (IUCLE) 2021	Silver	International	2021
2.	International Innovation, Design and Articulation (i-IDEA) 2020	1 Silver, 1 Bronze	International	2020
3.	International Putra Innocreative Carnival in Teaching & Learning (PicTL) 2020	Silver	International	2020
4.	PECIPTA 2019	2 Golds	International	2019
5.	ITEX (International, Invention, Innovation & Technology Exhibition) 2017	Silver	International	2017
6.	PECIPTA 2017	Bronze	International	2017
7.	I-PHEX (Innovative Practices in Higher Education Exhibition) 2017	1 Gold, Best in Engineering Education	International	2017
8.	I-PHEX (Innovative Practices in Higher Education Exhibition) 2015	2 Golds, 1 Bronze, Best of the Best, Best in Engineering Education	International	2015
9.	I-PHEX (Innovative Practices in Higher Education Exhibition) 2014	5 Golds, Best of the Best	International	2014
10.	ITEX (International, Invention, Innovation & Technology Exhibition) 2012	Silver	International	2012
11.	New Academia and Learning Innovation (NALI) 2022	3 Bronzes	National	2022
12.	New Academia and Learning Innovation (NALI) 2021	2 Golds	National	2021
13.	New Academia and Learning Innovation (NALI) 2020	2 Golds, 2 Silvers, 1 Bronze, 1 NALI Award Finalist	National	2020
14.	Teaching Enhancement and Learning Innovation Carnival (eTeLIC) 2020	Gold	National	2020
15.	INATEX (Industrial Art and Technology Exhibition) 2024	1 Gold, 1 Special Award	University	2024
16.	INATEX (Industrial Art and Technology Exhibition) 2023	1 Gold, 1 Bronze, 1 Special Award	University	2023
17.	INATEX (Industrial Art and Technology Exhibition) 2022	Bronze	University	2022
18.	INATEX (Industrial Art and Technology Exhibition) 2020	Bronze	University	2020
19.	INATEX (Industrial Art and Technology Exhibition) 2018	Gold	University	2018
20.	INATEX (Industrial Art and Technology Exhibition) 2017	Silver	University	2017
21.	INATEX (Industrial Art and Technology Exhibition) 2016	Silver	University	2016
22.	INATEX (Industrial Art and Technology Exhibition) 2012	Silver	University	2012
23.	INATEX (Industrial Art and Technology Exhibition) 2011	Bronze	University	2011

WORKING EXPERIENCE

NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT/ORGANISATION
1.	Prof.	17 Mac 2020	Present	Faculty of Educational Sciences and Technology / School of Education, Faculty of Social Sciences and Humanities, UTM
2.	Assoc. Prof.	25 September 2014	16 March 2020	Faculty of Education, UTM, Malaysia
3.	Senior Lecturer	13 May 2010	24 September 2014	Faculty of Education, UTM, Malaysia
4.	Lecturer	12 May 2005	12 May 2010	Faculty of Education, UTM, Malaysia
5.	Tutor	8 Dec 2003	11 May 2005	Faculty of Education, UTM, Malaysia
6.	Trained Graduated Teacher	16 Sept 2003	7 Dec 2003	SMK Bandar Baru Uda, Johor Bahru, Johor
7.	Demonstrator	2001	2002	Faculty of Education, UTM, Malaysia
8.	Industrial Training	3 Jun 2013	2 Jun 2014	Sekolah Menengah Islam Hidayah, Johor Bahru

PROFESSIONAL MEMBERSHIP / QUALIFICATIONS / RECOGNITION

Summary	
International Professional Membership / Qualifications / Recognition	9
National Professional Membership / Qualifications / Recognition	6

NO	NAME OF PROFESIONAL MEMBERSHIP	LEVEL	ROLE	YEAR
1.	Research in Engineering Education Network	International	Board Member (Asian Region)	2018-2020
2.	Science Education Working Group, European Federation of Academies of Sciences and Humanities (ALLEA)	International	Associate	2021-present
3.	Global Young Academy (GYA)	International	Member	2018-2022
4.	Malaysian Education Deans Council (MEDC)	National	Member	2021-2022
5.	Akademi Profesor Malaysia	National	Member	2020-present
6.	Majlis Profesor Negara	National	Member	2022-present
7.	Academy of Sciences Malaysia	National	Associate	2017-2022
8.	Young Scientists Network - Academy of Sciences Malaysia (YSN-ASM)	National	Member	2016-2022
9.	Society of Engineering Education Malaysia (SEEM)	National	Fellow Member	2023-present 2011-present
10.	Persatuan Pendidikan Sains & Matematik Johor	State	Member	2004-present
11.	New Hall Society	International	Member	2009-present
12.	Cambridge Alumni	International	Member	2009-present
13.	American Society for Engineering Education (ASEE)	International	Member	2011-2013
14.	Association for Science Education (ASE)	International	Member	2011-2013

15.	Japanese Society for Environmental Education	International	Member	2014-2015
16.	European Science Education Research Association (ESERA)	International	Member	2011-2013

ADMINISTRATIVE EXPERIENCE

NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT/ FACULTY/ DIVISION
1.	Chair	1 Feb 2020	31 Jan 2023	School of Education, FSSH UTM
2.	Academic Manager	1 Oct 2011	31 May 2013	Centre for Engineering Education, School of Graduate Studies, UTM
3.	Research Fellow	1 Jul 2014	present	Centre for Engineering Education, UTM
4.	Deputy Director	1 Sept 2023	present	Centre for Engineering Education, UTM

CONSULTATION WORKS

Summary	
Consultation Project-UTM	16 projects (RM5,387,002.54)
Consultation Project- Others	1 projects (RM160,170.00)

No.	Year	Title	Value (RM)	Vot
1.	2024	Iskandar Malaysia Ecolife Challenge (IMELC) - Review of IMELC Impacts, Modules, and Methods	30,000.00	UTSB 2524
	2024	Carbon Accounting Exercise for Iskandar Malaysia Ecolife Challenger	20,000.00	UTSB 2370
	2024	Geran Komuniti Iskandar Puteri Rendah Karbon 4.0	40,000.00	UTSB 2529
	2023	Iskandar Malaysia Ecolife Challenge X Combat Plastic Pollution (IMELC) Programme	230,700.00	UTSB 2340
	2023	Geran Iskandar Puteri Rendah Karbon 3.0	19,990.00	UTSB 2261
	2023	Carbon Accounting Exercise For Iskandar Malaysia Ecolife Challenge (IMELC)	10,000.00	UTSB 2174
	2023	Pembangunan Manual Penyampaian Modul Keluarga Sejahtera Negeri Johor (MKS NJ)	39,375.00	UTSB 2419
	2023	Projek Mampan Iskandar Puteri Rendah Karbon	12,559.60	UTSB 2304
2.	2021	Pembangunan Kaedah Pengiraan Merit Baharu Kemasukan Ke Institusi Pendidikan Tinggi Awam (IPTA) Dan Institusi Latihan Kemahiran Awam (ILKA) Bagi Program Pengajian Lulusan Spm Mulai Sesi Akademik 2022/2023 (KPT)	18,436.00	UTSB 1927
3.	2021	Kajian Pelan Tindakan Pusat Pertumbuhan Neutral Karbon Wangsa Maju 2050 (DBKL)	434,851.73	UTSB 1907
4.	2021	The Appointment of Subject Matter Expert of Iskandar Malaysia Ecolife Challenge (IRDA)	10,000.00	UTSB 1800
5.	2021	Kembara Keluarga Sejahtera Negeri Johor (MKS NJ) Fasa 1 (YPKDT)	29,000.00	UTSB 1748

6.	2021	Pembangunan Infografik Modul Keluarga Sejahtera Negeri Johor (YPKDT)	19,800.00	UTSB 1708
7.	2020	Perundingan Webinar Modul Keluarga Sejahtera Negeri Johor (MKS NJ)	15,000.00	UTSB 1804
8.	2020	Kajian Pelan Hala Tuju Kebun Komuniti di Peringkat Pihak Berkuasa Tempatan (PBT) Negeri Johor (SUK Johor)	101,124.00	UTSB 1766
9.	2020	Outcome Based Education For Engineering And Vocational Education: From Planning To Assessment	9,570.47	UTSB 1730
10.	2019	Pembangunan Modul Keluarga Sejahtera Negeri Johor (YPKDT)	7,547.17	UTSB 1507
11.	2019	Kajian Keperluan dan Konsep Universiti Johor (BPENJ)	496,843.62	UTSB 1465
12.	2019	Seminar Dakwah Dalam Masyarakat Majmuk (DDMM) Fasa 1 (HCJ)	2,000.00	UTSB 1467
13.	2018	Pelan Tindakan Pendidikan Kelestarian Johor 2019–2023 (JPNJ)	50,000.00	UTSB 1360
14.	2018	International Conference of Low Carbon Asia & Beyond	92,091.75	UTSB 1197
15.	2016	Modernizing Afghanistan Higher Education (World Bank)	603,852.00	UTSB 987
16.	2016	Kuala Lumpur Low Carbon Society 2030 (DBKL)	1,997,898.60	UTSB 1020
17.	2016	Prevalence and Pattern of E-cigarette and Vape Use among Malaysian Adults (MoH / IIUM)	160,170.00	S.J130000.7331.4 X147
18.	2011	Evaluation of National Policy in the Environment (NPE) and Environmental Performance Index (EPI) (NRE)	1,096,362.60	UTSB 623

INTERNATIONAL/NATIONAL/UNIVERSITY COMMITTEE

Summary	
International Committee	32
National Committee	29
University Committee	37
Faculty Committee	43
Community Committee	22

International

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1.	Science Education Working Group, European Federation of Academies of Sciences and Humanities (ALLEA)	STEM Education Working Group committee member	2021	present

2.	Global Young Academy (GYA)	Science Excellence Working Group committee member	2018	2023
3.	Regional Centre of Expertise on Education for Sustainable Development (RCE ESD) – RCE Iskandar	Secretariat	2014	Present
4.	Research in Engineering Education Network	Board Member (Asian Region)	2018	2020
5.	Indonesian Review of Physics	Editor-in-Chief	2020	present
6.	Creative Education	Editorial Board	2021	present
7.	Research Journal of Education	Editorial Board	2021	present
8.	ASEAN Journal of Engineering Education	Editorial Board	2012	present
9.	EDUCATUM Journal of Science, Mathematics and Technology	Editor	2017	Present
10.	International Journal of Engineering Education – Special Issue	Guest Editor	2015	2016
11.	AIESEC Global Volunteer Programme	Coordinator	2018	2018
12.	Research in Engineering Education Symposium 2025	Treasurer	2024	2025
13.	I-PHEX (Innovative Practices in Higher Education Exhibition) 2024-2025	Committee	2024	2025
14.	World Engineering Education Forum 2017 (WEEF)	Treasurer	2016	2017
15.	International Education Colloquium (UTM-UNM)	Advisor	2021	2021
16.	9th International Research Symposium on PBL (IRSPBL 2023)	International Scientific Committee	2022	2023
17.	IEEE EDUCON 2022	Programme Committee	2021	2022
18.	International Conference on STEM Education 2018	Treasurer	2018	2018
19.	Regional Conference of Engineering Education (RCEE) & Research in Higher Education (RHed) 2020	Committee	2020	2020
20.	2 nd International Conference on Low Carbon Asia 2016	Scientific Committee	2016	2016
21.	Regional Conference of Engineering Education (RCEE) & Research in Higher Education (RHed) 2016	Treasurer, Scientific Committee	2015	2016
22.	2nd International Seminar on Science and Mathematics Education 2016	Committee	2015	2016
23.	I-PHEX (Innovative Practices in Higher Education Exhibition) 2014-2017	Committee	2014	2017
24.	International Conference on Higher Order Thinking Skills 2016	Committee	2015	2016
25.	Doctoral Consortium – Latice & RCEE RHed 2014	Chair	2013	2014
26.	Research in Engineering Education Symposium (REES) 2013	Treasurer	2012	2013

27.	4 th International Research Symposium on Problem-Based Learning (IRSPBL) 2013 (UNESCO)	Treasurer	2012	2013
28.	5th International Conference on Postgraduate Education (ICPE-5 2012)	Committee	2012	2012
29.	International Seminar on Science & Mathematics Education (ISSME) 2012	Committee	2012	2012
30.	Oxbridge Postgraduates in Faculty of Education Exchange Programme (OC-WIP)	Committee	2008	2008
31.	2nd International Biennial Conference of the Metacognition Special Interest Group (SIG 16) of the European Association of Research in Learning and Instruction (EARLI)	Committee	2006	2006
32.	The 3 rd International Qualitative Research Conference	Committee	2005	2005

National

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1.	Malaysian Education Deans Council	Chair	1 Sept 2021	31 Jan 2023
2.	Young Scientists Network - Academy of Sciences Malaysia (YSN-ASM)	Chair of Science Education Working Group	2016	2018
3.	Young Scientists Network - Academy of Sciences Malaysia (YSN-ASM)	Co-Chair of Science Education Working Group	2018	2019
4.	Society of Engineering Education Malaysia (SEEM)	Committee	2011	present
5.	Akademi Profesor Malaysia	Timbalan Ketua Kluster Pendidikan & Pembangunan Modal Insan	2021	2023
6.	GUCI SEMINAR 2024: Synergistic Government-University-Community-Industry (GUCI) Sustainable Collaboration	Director	2023	2024
7.	UM Bachelor of Science with Education Accreditation	Lead Auditor	2025	2025
8.	IIUM PhD in Education	External Advisor	2024	2025
9.	USM Undergraduate Program Full Accreditation	External Auditor	2023	2023
10.	UiTM Undergraduate Academic Program Examination	External Examiner	1 Apr 2023	31 Mac 2025
11.	Penilaian Projek Dana R&D MOSTI	Panel Pakar	1 Jan 2021	31 Dec 2023
12.	TRSM Award Selection Panel	Committee	2020	2020
13.	Jawatankuasa Pemandu Pelan Induk Masyarakat Rendah Karbon Untuk Iskandar Malaysia 2030 – Pelan Tindakan Iklim	Committee	2022	2022
14.	Seminar Kebangsaan Majlis Dekan Pendidikan Universiti Awam 2022	Advisor	2022	2022

15.	Minggu Kreativiti Pendidikan 2022	Advisor	2022	2022
16.	ASM The Science Outlook 2020 Working Group (Societal Impact Pillar)	Committee	2019	2021
17.	ASM Special Interest Group (SIG) on Robotics	Committee	2020	2021
18.	Minggu Sains Negara	Committee	2018	2022
19.	National Science Challenge 2018	Committee	2018	2018
20.	National Taskforce on the Establishment of National STEM Centre	Committee	2017	present
21.	Drone Edu Challenge IR 4.0	Committee	2020	present
22.	Standard Kompetensi Digital Murid, KPM	Reviewer	2023	2023
23.	Penterjemahan Kerangka Literasi Sains Interaktif PISA 2025, KPM	Reviewer	2023	2023
24.	Panel Penggubal Kurikulum Sains Tambahan KSSM	Panel	2016	2016
25.	Ministry of Higher Education Malaysia	Karyawan Tamu	2010	2010
26.	Persatuan Pendidikan Sains & Matematik Johor	Vice Secretary	2011	2013
27.	Persatuan Pendidikan Sains & Matematik Johor	Committee	2011	present
28.	ICTLHE, Regional Conference of Engineering Education (RCEE) & Research in Higher Education (RHed) 2012	Treasurer	2011	2012
29.	National Seminar of Education Deans Council (MEDC) 2012	Committee	2012	2012

University

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1.	University Research Ethics Committee	Committee	1 Jul 2022	present
2.	Taskforce LPPT V3.0	Head	2023	2023
3.	University Senate	Member	1 Feb 2020 1 Apr 2025	31 Jan 2023 13 Jan 2026
4.	Majlis Profesor UTM	Exco	1 Jan 2024	31 Dec 2025
5.	Taskforce Rise Above Covid-19 Challenge – Graduate Employability	Committee	2021	2022
6.	Taskforce Kajian Keberkesanan Pelaksanaan DCP & LPPT Staf Akademik	Committee	2022	2023
7.	Task Force Penentuan Halatuju Sekolah Kejuruteraan Bioperubatan dan Sains Kesihatan (SKBSK) UTM	Committee	1 Aug 2022	31 Jan 2023
8.	Jawatankuasa Penilaian Penarafan Bintang Projek Libat Sama Komuniti Universiti	Evaluator	2019	present
9.	Jawatankuasa Tetap Senat (Penyelidikan & Inovasi)	Committee	1 Jun 2021	31 Jan 2023
10.	Jawatankuasa Induk Persediaan Audit RU UTM	Committee	3 Feb 2021	2 Feb 2022

11.	Penilaian Geran FRGS, PRGS, MyLab, dan Geran Dalam UTM	Evaluator	2015	present
12.	Panel Penilaian Anugerah Citra Karisma	Evaluator	2022	2022
13.	NALI 2020	Deputy Director	2020	2020
14.	Mentor Latihan Industri	Mentor	2020	present
15.	Chat Time 2021	Mentor	2021	2021
16.	Jawatankuasa Pengurusan Akademik Prasiswazah Universiti	Committee	1 Sept 2021	31 Jan 2023
17.	Taskforce Semakan Atribut Siswazah UTM	Committee	1 May 2021	31 Dec 2021
18.	Taskforce Work Based Learning	Committee	1 Dec 2021	31 Jan 2023
19.	Taskforce Semakan Peraturan Akademik Program Sarjana Muda Sepenuh Masa UTM	Committee	1 Jul 2021	30 Apr 2022
20.	Jawatankuasa Pemantauan Pergerakan Pelajar LM di KDSE	Committee	2021	2021
21.	Jawatankuasa Pro-Tem Konsortium STEM	Committee	2021	2021
22.	e-LPPT DCP Task Force	Committee	2018	2019
23.	DCP Monitoring Task Force	Committee	2018	2019
24.	4 Track Academic Promotion Task Force	Committee	2016	2018
25.	Growing Talent Development	Committee / Advisor / Mentor	2021	2022
26.	Kumpulan Sokongan Pembelajaran dan Pengajaran Abad Ke-21 (KSPP21) UTM	Committee	1 Feb 2021	31 Jan 2023
27.	Johor STEM Centre Task Force	Committee	2018	2019
28.	Institut Inovasi Strategik Johor (IISJ) Technical Committee	Committee	2016	2016
29.	AKA Academic Quality Committee	Auditor	2014	2014
30.	Policy & Code for Teaching & Learning Task Force	Committee	2014	2014
31.	New Academia – Learning Innovation Task Force	Committee	2013	2013
32.	University Postgraduate Studies Committee (JAPSU)	Committee	2013	2013
33.	University Transformation Programme Key Focus Area: Enhancing Postgraduate Education	Committee	2012	2013
34.	BLOSSOMS MIT	Committee	2012	2013
35.	College 9, UTM Skudai	Fellow	2009	2009
36.	The Fellowship Development Institute	Committee	2003	2004
37.	Kolej 13, UTM Skudai	Assistant Fellow	2003	2004

Faculty

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1.	Mentor for TRSM	Mentor	2022	2023
2.	Alumni Committee	Committee	2025	present
3.	Talent Development Committee	Committee	2025	present

4.	Research Talent Development Committee	Head	2024	2024
5.	Mentor for FRGS	Mentor	2022	2022
6.	Mentor for YSN-ASM Faculty of Management	Mentor	1 Oct 2022	present
7.	Mentor Focus Group Penerbitan Jurnal Artikel Q1 & Q2	Mentor	1 Jan 2021	31 Dec 2021
8.	UTM Gold	Mentor	1 Nov 2022	present
9.	Taskforce Persediaan Kertas Kerja Program Sarjana Pendidikan Sains Kerja Kursus Mod ODL	Committee	2023	2023
10.	Executive Management Committee	Committee	1 Feb 2020	31 Jan 2023
11.	Academic Committee	Committee	1 Feb 2020	31 Jan 2023
12.	Finance Committee	Committee	1 Feb 2020	31 Jan 2023
13.	Talent Development & Management Committee	Committee	1 Feb 2020	31 Jan 2023
14.	Strategy & Risk Management Committee	Committee	1 Feb 2020	31 Jan 2023
15.	Academic Quality Committee	Committee	1 Feb 2020	31 Jan 2023
16.	Curriculum Committee	Committee	1 Feb 2020	31 Jan 2023
17.	Committee for Choosing Administrators	Committee	1 Feb 2020	31 Jan 2023
18.	Income Generation Committee	Committee	1 Feb 2020	31 Jan 2023
19.	Research & Innovation Committee	Committee	1 Feb 2020	31 Jan 2023
20.	Taksforce Pemantauan & Pelaksanaan Blueprint @ enVision	Committee	1 Jan 2022	31 Dec 2022
21.	Majlis Apresiasi FSSH	Committee	2020	2022
22.	Jawatankuasa NESSA	Committee	2022	2022
23.	Review Committee of TES DCP	Verifier	2021	2023
24.	Faculty of Education Academic Committee	Postgraduate Program Coordinator (Physics Education)	2011	2019
25.	Faculty Accreditation Task Force (SARS, COPPA, COPPIA, MQA, AKA)	Committee	2011	Present
26.	SDG Taskforce	Head	2019	2021
27.	Self-Assessment Report (SAR) for accreditation of PhD in Engineering Education programme at CEE	Committee	2013	2013
28.	Spirit of Togetherness Camps	Committee	2014	2014
29.	Faculty of Education Postgraduate Short Course Committee	Committee	2010	2011
30.	Undergraduate students	Academic Advisor	2009	present
31.	Faculty of Education Postgraduate Society (FEPS)	Advisor	2009	2011
32.	Education Postgraduate Research Seminar (EDUPRES) – 2009-2011	Secretary	2009	2011
33.	Curriculum Review of Undergraduate Programmes at Faculty of Education	Committee	2009	2010
34.	Ph.D Thesis Abstract Review Panel	Panel	2009	2011

35.	Internationalisation Committee	Committee	2009	2011
36.	Publication Committee	Committee	2009	2011
37.	Welfare Committee	Committee	2009	2011
38.	ICT Committee	Committee	2009	2011
39.	Faculty of Education Family Day	Committee	2009	2011
40.	University of Cambridge FERSA (Faculty of Education Research Students' Association)	Founding committee	2007	2008
41.	Student Lunchtime Seminar, Faculty of Education, University of Cambridge	Committee	2006	2008
42.	4 th Annual Postgraduate Symposium in Education – Kaleidoscope 2007 University of Cambridge	Committee	2007	2007
43.	JPSM Laboratory	Lab Manager	2009	2011

Community

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1.	Program Pandu Lalu @ Iskandar Puteri Rendah Karbon	Volunteer	2023	2023
2.	Kelas Pengajian al-Quran	Teacher	2012	present
3.	Majlis Iftar Perdana Jaringan Harmoni	Committee	2022	2023
4.	Majlis Hari Raya Jaringan Harmoni	Committee	2022	2023
5.	Sembang Harmoni (Interfaith dialogue)	Committee	2016	2023
6.	Program Pandu Lalu @ Iskandar Puteri Rendah Karbon	Advisor	2021	2022
7.	Pertandingan Kalendar Rendah Karbon MBIP	Advisor	2021	2022
8.	Geran Komuniti Iskandar Puteri	Head Jury	2022	2022
9.	Johor State Islam Religion Department	Certified Quranic Teacher	2019	present
10.	Iskandar Malaysia Ecolife Challenge	Coordinator	2013	2020
11.	RCE Iskandar Sustainable & Low Carbon School Exhibition	Director	2015	present
12.	Problem-Based Learning for Low Carbon Society Final Presentation	Director	2016	2019
13.	Seminar Iskandar Malaysia towards Low Carbon Society	Committee	2018	2019
14.	STEM Day – Iskandar Learning Festival	Committee	2017	2018
15.	Seminar Dakwah Dalam Masyarakat Majmuk	Committee	2016	2016
16.	Mosque Open Day	Committee	2016	2016
17.	Ummah Awakening Seminar (Fasa 1) 2014	Committee	2014	2014
18.	Ummah Awakening Seminar 2013	Committee	2013	2013
19.	Zakir Naik Malaysia Tour	Committee	2012	2012
20.	Seminar TOT ROSE (CRS) Why Islam: A Journey to the Believers	Committee	2011	2011

21.	Program Mukhayyam Tunas Remaja 2010	Committee	2010	2010
22.	Jawatankuasa Saudara Kita Masjid Sultan Ismail UTM	Volunteer	2004	2004

SELECTED ACTIVITIES / WORKSHOPS / SEMINARS / COURSES

As Trainer / Facilitator

NO	NAME OF ACTIVITIES	PLACE OF ACTIVITIES	STARTING DATE	ENDING DATE
1.	AS102 Supervisory Course	UTM	2017	present
2.	Commercialisation of Training Module	UTM	2019	present
3.	Training Module Development: Commercialize Your Training Products	UTM	12 Jun 2022	13 Jun 2022
4.	Wacana Akademi Profesor – Guru Tunjang Sekolah Sejahtera	Online	27 Mei 2022	27 Mei 2022
5.	Pendidikan Pasca Pandemik	Kolej Matrikulasi Melaka	7 Jan 2022	7 Jan 2022
6.	Pedagogi Generasi Z	Kolej Matrikulasi Selangor	11 Feb 2022	11 Feb 2022
7.	UTM Teaching Champions Program (TorCH)	UTM	2022	2022
8.	Inquiry-Based Science Education	SMK Seri Pulai Perdana	24 Sept 2022	24 Sept 2022
9.	Scholarship of Teaching & Learning	IIUM	9 Apr 2021	9 Apr 2021
10.	Pendidikan STEM Pencetus Pembelajaran Bermakna	IPG Ipoh	8 Apr 2021	8 Apr 2021
11.	Environment for Future	Jabatan Alam Sekitar	8 Oct 2020	8 Oct 2020
12.	OBE Workshop	Universitas Sebelas Maret, Indonesia (Online)	19 Aug 2020	20 Aug 2020
13.	Pendidikan Kelestarian	Jabatan Pendidikan Negeri Johor & PPD	2019	2019
14.	Training of Research Methodology in STEM and Engineering Education (Part 1)	Johor Bahru	14 Feb 2019	16 Feb 2019
15.	Training of Research Methodology in STEM and Engineering Education (Part 2)	Johor Bahru	11 Apr 2019	13 Apr 2019
16.	TOT Active Learning	UTP	8 Aug 2018	10 Aug 2018
17.	Iskandar Malaysia Ecolife Challenge 2018 Teacher Briefing	Whole Johor	2013	present
18.	Taklimat PBL LCS untuk Ibubapa	SMK Seri Pulai Perdana, SMK Sultanah Ungku Tun Aminah (SETA)	Feb 2018	Mac 2018
19.	TOT Industrial Training Level 3 (Part 2)	Politeknik Kuching	3 May 2017	4 May 2017

20.	Introduction to Research in Engineering Education	UTP	6 Mac 2017	7 Mac 2017
21.	Anjakan Paradigma dari Pengajaran Berpusatkan Guru ke Pembelajaran Berpusatkan Pelajar	UTM	4 Jan 2017	4 Jan 2017
22.	Introduction to e-Learning	UTM	3 Nov 2016	4 Nov 2016
23.	TOT Industrial Training Level 3 (Part 1)	Politeknik Kuching	1 Sept 2016	2 Sept 2016
24.	Introduction to Research in STEM Education	UTM KL	9 Aug 2016	9 Aug 2016
25.	Simple Guide to Action Research	UTM	13 April 2016	13 April 2016
26.	Action Research	Bandar Penawar	9 Mac 2016	9 Mac 2016
27.	Inquiry Based Learning & HOTS for Science Communicator (Physics Master Class)	Petrosains KL	2014	2016
28.	TOT Industrial Training & Practicum	AKEPT	2014	2015
29.	TOT Project Oriented Problem-Based Learning (POPBL)	AKEPT	2014	2015
30.	Kursus Penghayatan Islam (Bahasa Mandarin)	Johor & Pahang	2015	present
31.	Qualitative Research Methods & Techniques	UTM	5 April 2015	7 April 2015
32.	How to Write a Meaningful Thesis	UTM	21 December 2014	21 December 2014
33.	Solid Waste Management	Johor Bahru	5 Dec 2014	5 Dec 2014
34.	Constructing Questionnaire	UTM	25 Nov 2013	25 Nov 2013
35.	Qualitative Research Methods	UTM	2012	2013
36.	Inquiry Learning Workshop	MRSM Pontian	21 Jan 2012	21 Jan 2012
37.	Kursus Introduction to Designing Educational Research	UTM	12 Apr 2011	13 Apr 2011
38.	Kursus Analyzing Qualitative Data Using NVivo 8	UTM	17 Mar 2011	18 Mar 2011
39.	Kursus Introduction to Qualitative Research and Research Design	UTM	27 Jan 2011	28 Jan 2011
40.	Kursus Qualitative Data Collection Methods and Organizing Qualitative Data Manually	UTM	10 Jan 2011	11 Jan 2011
41.	Bengkel Kajian Tindakan	SMK Taman Rinting 2	3 Feb 2010	3 Feb 2010

As Participant

NO	NAME OF ACTIVITIES	PLACE OF ACTIVITIES	STARTING DATE	ENDING DATE
1.	STEM Programme: Using Science Resources Meaningfully in the Thematic Approach to Science Teaching	National Institute of Education, Singapore	7 Apr 2025	11 Apr 2025
2.	Delivery Teaching and Learning for ODL	Online	12 Aug 2024	12 Aug 2024
3.	Alternative Assessment for ODL	Online	15 Aug 2024	15 Aug 2024

4.	CDIO Workshop	Johor Bahru (Kristina Edstrom)	27 Feb 2023	2 Mac 2023
5.	Patents for Social Sciences	Johor Bahru	13 Mac 2023	13 Mac 2023
6.	Designing Open & Distance Learning (ODL) Program	Online	5 Apr 2021	5 Apr 2021
7.	Leadership in Time of Crisis	Online	8 Jul 2021	8 Jul 2021
8.	Enculturation of ISES: The Role of Leaders	Online	10 Mac 2021	10 Mac 2021
9.	Preparing Future Leaders Visions, Diverse Voices and Reality	Online	18 Feb 2021	18 Feb 2021
10.	Agile Leadership in the COVID-19 Era (ALiVE 2021)	AKEPT	24 Mac 2021	25 Mac 2021
11.	Lesson in Divine Unity	Online (Sheikh Imran Anguilia)	7 Nov 2020	2 Jan 2021
12.	21st Century Learning for Engagnig Millenials: Designing and Supporting Team-based Learning using Cooperative Learning	Johor Bahru	29 Jul 2019	1 Aug 2019
13.	'A 2 Day Workshop on Active Learning & "Storytelling" : Innovating Science & Engineering Lectures	Johor Bahru	10 Jan 2018	11 Jan 2018
14.	Social Return on Investment (SROI) Analysis	Johor Bahru (Albert Teo)	13 Mac 2017	13 Mac 2017
15.	The Ship to Salvation	Online (Sheikh Imran Anguilia)	2 Feb 2017	12 May 2017
16.	How to Publish Scholarly Educational Based Article in Journal for STEM Areas	Kuala Lumpur (Jeffrey Froyd)	11 Aug 2016	11 Aug 2016
17.	Case Writing Workshop Level 1	Johor Bahru (CWAM)	12 Jun 2016	13 Jun 2016
18.	Developing Quality Engineering Education using PBL and CDIO as Complementary Curriculum Models	Johor Bahru (Anette Kolmos)	12 Mac 2015	12 Mac 2015
19.	Critical Factors in Initiating and Implementing Successful Curriculum Change	Johor Bahru (Anette Kolmos)	15 Mac 2015	15 Mac 2015
20.	Enhancing Training Using Interactive Web 2.0 Tools	AKEPT	3 Mac 2015	3 Mac 2015
21.	TRIZ Level 1	Johor Bahru	30 Mac 2015	31 Mac 2015
22.	Industrial Training	SM Islam Hidayah	3 Jun 2013	2 Jun 2014
23.	ESQ Leadership Training (Basic)	Johor Bahru	5 Aug 2011	7 Aug 2011
24.	ESQ Leadership Training (Mission & Character Building)	Johor Bahru	3 Dec 2011	4 Dec 2011
25.	Daei' Development Workshop with Dr Zakir Naik	Shah Alam	4 Oct 2014	4 Oct 2014
26.	Effective Teaching for Outcome-based Higher Education	Johor Bahru (Richard Felder)	20 May 2014	21 May 2014
27.	Friendly Comparative Religion Training Phase 2	Kuala Lumpur	17 Sept 2011	18 Sept 2011
28.	Petrosains Fundamental of Inquiry	Johor Bahru	27 Jun 2011	29 Jun 2011
29.	Bengkel Kaedah Penyeliaan & Penilaian Pasca Siswazah	Johor Bahru	26 May 2010	27 May 2010

30.	Towards High Impact Publication and ISI Publications for Arts and Social Scientists	Cyberjaya	13 Oct 2010	14 Oct 2010
31.	Making Science Content Meaningful Through Fun and Creative Activities	Penang	13 Apr 2010	15 Apr 2010
32.	Kursus Kepimpinan Pensyarah Muda Siri 1/2009	Sungai Petani	21 Oct 2009	26 Oct 2009
33.	Teaching Portfolio Development Course	Johor Bahru	24 Jun 2009	25 Jun 2009
34.	Developing Your Writing	Cambridge	12 Mar 2008	12 Mar 2008
35.	Publishing Your Research	Cambridge	7 Mar 2008	7 Mar 2008
36.	Rihla 2007	Saudi	6 Jul 2007	26 Jul 2007

RESEARCH ACTIVITIES

Summary	
Principal Investigator- International Grants	2 projects (RM30,000.00)
Principal Investigator- National Grants	14 projects (RM991,762.50)
Principal Investigator- UTM Grants	12 projects (RM306,786.30)
Member- International Grants	9 projects (RM8,634,288.40)
Member- National Grants	28 projects (RM2,148,990.00)
Member- UTM Grants	29 projects (RM1,207,700.00)

As a principal investigator

BIL	NAME OF GRANT	CATEGORY OF GRANT	TYPE OF GRANT	AMOUNT (RM)	STARTING DATE	ENDING DATE	VOTE NO
1.	STEM Body of Knowledge in Drone Technology for School Students	Others (FRGS)	National	80,000.00	Oct 2023	Sept 2025	R.J1300 00.7853. 5F609
2.	KKP_3_Program : Learning & Teaching for 4IR (TnL4IR)	Other	National	500,000.00	Jan 2021	Jun 2023	R.J1300 00.7809. 4L93, 4L935, 4L937, 4L941
3.	Design Thinking in STEAM Education for Achieving Sustainable Development Goals	UTM	Institutional	14,748.00	Dec 2021	Feb 2023	R.J1300 00.7753. 4J537
4.	Kajian Pelan Tindakan Transformasi Program Ijazah Sarjana Muda Pendidikan (ISMP) Universiti Awam Malaysia 2022 - 2030	Other	National	55,000.00	Nov 2021	Jan 2023	R.J1300 00.7353. 4B741
5.	The Effect of Drone Simulations in Learning STEM Knowledge	Others	Industry	10,000.00	Nov 2020	Apr 2022	R.J1300 00.7653. 4C440

6.	A Malaysian model of inquiry-based learning for STEM teachers	Others (FRGS)	National	60,000.00	Sept 2019	Nov 2021	R.J1300 00.7853. 5F140
7.	Epistemology of STEM Knowledge in Learning Using Drones	UTM	Institutional	10,000.00	Jul 2019	Dec 2021	Q.J1300 00.3053. 01M59
8.	SGSHINE1.3: Pro-Environmental Behaviour Change Framework Towards Dyes Effluent Treatment Using Adsorption Unit For Johor Batik SMEs	UTM	Institutional	50,000.00	Apr 2019	Sept 2021	Q.J1300 00.2453. 07G81
9.	Research on Drone Users' Knowledge and Skills on Science, Technology, Engineering and Mathematics (STEM)	Others (Industry)	International	10,000.00	Apr 2019	Jan 2021	R.J1300 00.7653. 4C249
10.	Mengkaji Keberkesanan Pendidikan Saudara Kita Secara Atas Talian Melalui Edu-Muallaf	UTM	Institutional	12,038.30	Feb 2019	Jan 2020	R.J1300 00.7753. 4J385
11.	Carbon Accounting Research for Iskandar Malaysia Ecolife Challenge (IMELC) and Kawan Iskandar Malaysia (KIM) Green Elements	Others (Government Agency)	National	30,000.00	Dec 2018	Aug 2021	R.J1300 00.7353. 4B369
12.	The Effectiveness of Iskandar Malaysia Ecolife Challenge Version 2 on Low Carbon Education	UTM	Institutional	10,000.00	Feb 2018	Jan 2019	Q.J1300 00.3031. 01M07
13.	Framework for Creating Low Carbon Society among School Community	UTM	Institutional	RM50,000.00	Nov 2017	Nov 2019	Q.J1300 00.2431. 03G77
14.	Capacity Building and Community Development for Low Carbon Society	Others (JICA)	International	20,000.00	Jan 2017	Dec 2018	R.J1300 00.7331. 4B311
15.	Problem-Based Learning in STEM Education to develop 21st century skills and low carbon awareness	UTM	Institutional	40,000.00	Jul 2017	Jun 2019	Q.J1300 00.2531. 16H50
16.	Creating Low Carbon Society among School Students through	Others (KTP)	National	39,462.50	Jan 2017	Dec 2017	R.J1300 00.7831. 4L518

	Iskandar Malaysia Ecolife Challenge						
17.	e-Pembelajaran untuk Mualaf bagi Institut Latihan Saudara Baru	Others (IISJ)	National	50,000.00	Jan 2017	Dec 2018	R.J1300 00.7331. 4B281
18.	Study the Impact of Iskandar Malaysia Ecolife Challenge 2016 Implementation	Others (Government Agency)	National	8,400.00	Nov 2016	Apr 2017	R.J1300 00.7331. 4B256
19.	Scientific Epistemological Framework for Inquiry-Based Science Communicators in Malaysian Science Museums	Others (FRGS)	National	98,900.00	Nov 2015	Nov 2017	R.J1300 00.7831. 4F754
20.	Development of International Engineering Service-Learning Module in Inculcating Global Engineer Attributes	UTM	Institutional	15,000.00	June 2015	May 2017	R.J1300 00.7731. 4J145
21.	Current Scenario of the Teaching of Complex Problem Solving among Engineering Lecturers in UTM	UTM	Institutional	40,000	Oct 2014	Sept 2016	Q.J1300 00.2409. 02G61
22.	Students' and Teachers' Epistemological Beliefs in Learning and Teaching Science	Others (FRGS)	National	60,000.00	Apr 2013	Sept 2015	R.J1300 00.7810. 4F162
23.	Students' and Teachers' Epistemological Beliefs In Learning And Teaching Science As Predictors Of Students' Tendency Towards Enrolling Science Stream	UTM	Institutional	40,000.00	Apr 2011	Aug 2012	Q.J1300 00.2631. 02J97
24.	Developing Interactive Teaching Guide of Cooperative Problem-based Learning (CPBL) for Engineering Lecturers	UTM	Institutional	15,000.00	April 2011	Mac 2012	R.J1300 00.7731. 4J026
	Pattern of Physics problem-solving and Metacognition among Secondary School Students: A Comparative Study	UTM	Institutional	10,000.00	Sept 2009	Aug 2010	R.J1300 00.7731. 3P042

	between the UK and Malaysian Cases						
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As a scientific member

BIL	NAME OF GRANT	CATEGORY OF GRANT	TYPE OF GRANT	AMOUNT (RM)	STARTING DATE	ENDING DATE	VOTE NO
1.	Carbon Accounting Exercise for Green Community Carbon Reduction Programme (GCCR) and Iskandar Malaysia Ecolife Challenge (IMELC)	Others	National	20,000.00	Jan 2024	Dec 2025	R.J1300 00.7353 .1R014
2.	Combat Sports Scoring Device On-The-Go (OTG)	UTM	Institutional	50,000.00	Mac 2025	Feb 2026	Q.J1300 00.4423 .4J767
3.	Intellectual Property Law And Policy Development On Innovation In Malaysia And Vietnam	Others	International	5,340.00	Sept 2022	Mac 2025	R.J1300 00.7653 .4C733
4.	Portable Visual Signal Device (YSD) For Deaf Sports Athletic	UTM	Institutional	50,000.00	Jul 2023	Jun 2024	Q.J1300 00.4423 .4J648
5.	Tanggungjawab Sosial Universiti (University Social Responsibility): Model Dan Pelaksanaan Bagi Menyokong Matlamat Pembangunan Lestari (Sustainable Development Goals)	UTM	Institutional	70,000.00	Jan 2020	Jun 2023	Q.J1300 00.2509 .21H20
6.	Development of a Framework for Problem Solving Embedded With Visual Programming Language in Improving Problem Solving Skill in STEM Teaching and Learning	Others	FRGS	64,000.00	Sept 2022	Aug 2024	R.J1300 00.7853 .5F544
7.	Halatuju Program Kejuruteraan Universiti Awam Malaysia dalam Mendepani Era Industri 4.0	Others	National	60,000.00	Apr 2022	Jun 2023	R.J1300 00.7351 .4B778
8.	Teaching Conception of STEM teachers on IBSE and IBME towards Fostering	Others	National	5,000.00	Apr 2022	Sept 2023	R.J1300 00.7353 .4B766 / Q.J1300

	Higher Order Thinking Skills among Students						00.3053 .04M01
9.	Examining Epistemic Cognition through Personal Reflexivity among Student Teachers of Malaysian Public Universities	Others	National	5,000.00	Apr 2022	Sept 2023	R.J1300 00.7353 .4B767 / Q.J1300 00.3053 .03M89
10.	Mengkaji Kemahiran Pemikiran Komputasional dikalangan bakal guru sebagai Kemahiran Utama untuk Pemikiran Abad ke 21 berdasarkan Model Penerimaan Teknologi	Others	National	5,000.00	Apr 2022	Sept 2023	R.J1300 00.7353 .4B774 / Q.J1300 00.3053 .04M06
11.	Strengths Based Education Program Based on Solution Focused Brief Therapy	UTM	Institutional	30,000.00	Dec 2022	Nov 2023	Q.J1300 00.4453 .4J599
12.	Augmented Reality-Based Drone Certification & Competency	UTM	Institutional	50,000.00	Dec 2021	Dec 2022	Q.J1300 00.4451 .4J539
13.	Raising the Quality of Engineering Education in Indonesia	Others	International	275,000.00	Oct 2020	Sept 2022	R.J1300 00.7309 .4B620
14.	Peranan Sultan Dalam Memperkembangkan Islam Di Kepulauan Riau, Indonesia	Others	International	5,000.00	Oct 2020	Dec 2022	R.J1300 00.7353 .4B605
15.	Investigation on Effectiveness of Systematic Training on Engineering Lecturers in Indonesia	UTM	Institutional	20,000.00	Jun 2021	May 2022	Q.J1300 00.3651 .03M53
16.	Quadruple Helix Partnership Model in the Establishment of University Johor	UTM	Institutional	10,000.00	Aug 2019	Jan 2022	Q.J1300 00.2653 .17J29
17.	Kerjasama Industri Dan Institusi Pengajian Tinggi (IPT) Dalam Meningkatkan Kebolehpasaran pelajar Aliran Teknikal	UTM	Institutional	10,000.00	Aug 2019	Jan 2022	Q.J1300 00.2653 .16J07
18.	Investigation of Students' Epistemology Belief in Programming Course	Others	Contract	10,000.00	Dec 2020	Nov 2021	R.J1300 00.7651 .4C458

19.	Pembangunan Modul Keluarga Sejahtera Negeri Johor	UTM	Institutional	15,000.00	Aug 2019	Jan 2022	Q.J1300 00.2653 .16J89
20.	Automatic Feedback using Natural Language Processing in Formative Assessments	Others	National	20,000.00	Dec 2020	Nov 2021	UTeM
21.	Expressing the Experience of Malaysian Women Engineers through a Virtual Reality Setting	Others	International	6,224.00	Jun 2020	Dec 2021	R.J1300 00.7353 .4B604
22.	Kajian Peranan Dan Inisiatif MBIP Dalam Mewujudkan Masyarakat Rendah Karbon	Others	National	6,500.00	Nov 2019	Apr 2021	R.J1300 00.7653 .4C395
23.	Q STEM Virtual Reality / Augmented Reality Self Learning Module for Appreciation of al Quran and Critical Thinking	Others	PRGS	84,600.00	Dec 2019	Feb 2022	R.J1300 00.7853 .4L711
24.	Analisis Literasi Sains Siswa SMP pada mata pelajaran IPA melalui Strategi Pembelajaran berbasis Masalah	Others	International	22,200.00	Mac 2019	Nov 2019	S.J1300 00.7653 .4X527
25.	Women in Engineering: A study on why women in Malaysia become engineers	Others	International	16,318.70	Jul 2019	Dec 2020	R.J1300 00.7309 .4B399
26.	Model Pedagogi Sains Berorientasi elemen Sekolah Rimba Malaysia (eSRM) ke arah Peningkatan Kompetensi Murid Orang Asli	Others	FRGS	80,000.00	Sept 2019	Aug 2021	IPG Temeng gong Ibrahim
27.	Elemen-Elemen Utama Pembangunan Modul Keluarga Harmoni Negeri Johor	Others	National	11,800.00	Jun 2019	Nov 2019	R.J1300 00.7653 .4C272
28.	Sports Performance Analysis using Visual Light System for Track & Field SUKMA 2020	UTM	Institutional	10,000.00	Sept 2019	Aug 2020	Q.J1300 00.3051 .01M70
29.	Multirotor High Speed Flight Test for Compact Flight Controller	UTM	Institutional	10,000.00	Sept 2019	Aug 2020	Q.J1300 00.3051 .01M77

30.	Prototype Development of Micro Flight Controller	Others	International	12,300.00	Apr 2019	Mac 2021	R.J1300 00.7351 .4B391
31.	SGSHINE 1: Design, Optimization And Impacts Assessment of Adsorption Unit for Effluent Treatment at Batik SME in Johor	UTM	Institutional	158,000.00	Apr 2019	Mac 2021	Q.J1300 00.2409 .07G74
32.	Teachers-Students' Scientific Epistemology Model Through Critical Theory As Social Innovation Mechanism In STEM Education	Others	FRGS	64,140.00	Jan 2019	Dec 2020	R.J1300 00.7853 .5F067
33.	Transdisciplinary Body of Knowledge Framework in Engineering Education to Support Students Learning in Industry 4.0	Others	FRGS	69,200.00	Jan 2019	Dec 2021	R.J1300 00.7809 .5F112
34.	Exploring Nature of Science (NOS) understanding among physics teachers	Others	Industry	5,000.00	Nov 2018	Oct 2019	R.J1300 00.7653 .4C226
35.	Exploratory study on empathy development in CPBL	Others	Industry	40,000.00	Nov 2018	Oct 2021	R.J1300 00.7609 .4C220
36.	UTM-TDR 29.2(T1): Artificial Intelligence for Solid Particle Flow Identification	UTM	Institutional	70,000.00	Dec 2018	Nov 2021	Q.J1300 00.3551 .06G17
37.	UTM-TDR 29.3(T2): Aligning engineering education and industries expectation in deploying AI in tomography to meet the needs of industry 4.0	UTM	Institutional	40,000.00	Dec 2018	Nov 2021	Q.J1300 00.3553 .07G37
38.	HIR 9.5 : Eco-Based Stewardship Towards Enhancing Pro-Environmental Behavior Among UTM Students	UTM	Institutional	59,200.00	Apr 2018	Mac 2021	Q.J1300 00.2446 .04G27
39.	Women's engineering participation in the US: What can the US learn from women's decision to pursue engineering from diverse cultural contexts?	Others	International	17,438.29	Feb 2017	Jan 2018	R.J1300 00.7309 .4B295

40.	Innovative teaching and learning strategies in open modelling and simulation environment for student-centered engineering education / InMotion	Others	International	474,467.41	Oct 2016	Oct 2019	R.J1300 00.7624 .4C118
41.	Compact Flight Controller for High Speed Drone Maneuver	Others	PRGS	20,000.00	Jul 2018	Jul 2019	R.J1300 00.7345 .4J328
42.	Visual Light System for Deaf Sports Athletes	Others	Industry	21,200.00	Apr 2018	Apr 2020	R.J1300 00.7645 .4C185
43.	21st Century Learning in Engineering Education for Industrie 4.0	UTM	Institutional	50,000.00	Feb 2018	Jan 2020	Q.J1300 00.2426 .03G99
44.	Development of a Compact Flight Controller for Unmanned Aerial Vehicle	UTM	Institutional	20,000.00	Aug 2017	Jul 2018	Q.J1300 00.2745 .02K97
45.	Enhance Student-Centered Pedagogy Skills among UTM Students Through Service Learning	UTM	Institutional	10,000.00	July 2016	Jun 2018	R.J1300 00.7731 .4J248
46.	Infrastruktur Luar Bandar Perancangan Fasiliti Pengurusan Sisa Ke Arah Kesejahteraan Masyarakat	UTM	Institutional	39,000.00	July 2016	April 2017	Q.J1300 00.2546 .15H25
47.	Development Scenarios of Low Carbon Society for Asian Regions	Others	National	971,000.00	Jan 2013	Dec 2016	R.J1300 00.7301 .4B145
48.	Pembangunan Portal E-Dakwah Negeri Johor	Others	National	39,500.00	July 2016	Apr 2017	Q.J1300 00.2533 .15H23
49.	Technical Competencies, Professional Skills, and Motivation among Undergraduate Student: Multidisciplinary Engineering Service in Community (MESIC)	UTM	Institutional	50,000.00	July 2016	Jun 2018	Q.J1300 00.2522 .14H43

50.	Integration of Meeting-Flow (MF) Approach In Generic Project-Oriented Problem-Based Learning (POPBL) Framework to Support Collaborative Learning in Teaching Requirements Engineering Course	UTM	Institutional	20,000.00	July 2016	July 2018	R.J1300 00.7728 .4J237
51.	Change In Teaching Paradigm and Developing Skills from Teacher-Centred to Student-Centred towards Implementing Problem Based Learning	UTM	Institutional	15,000.00	Jun 2015	May 2017	R.J1300 00.7709 .4J155
52.	Module Development for International Service Learning Program (ISLP) in Inculcating Global Engineer Attributes	UTM	Institutional	40,000.00	Oct 2014	Sept 2016	Q.J1300 00.2409 .02G63
53.	Engineering Academic Staff Development in Effective Teaching and Learning: Determining the Status Quo to Identify Actions for Impactful Transformation	UTM	Institutional	50,000.00	Oct 2014	Sept 2016	Q.J1300 00.2409 .02G57
54.	Capturing experiences of UTM adoption process of CDIO programmes and to identifying factors that make up successful implementation of the initiatives	UTM	Institutional	40,000.00	Oct 2014	Sept 2016	Q.J1300 00.2409 .02G45
55.	Framework for Developing Academic Change Agent among Engineering Lecturers in Malaysia	UTM	Institutional	40,000.00	Oct 2014	Sept 2016	Q.J1300 00.2424 .02G64
56.	Impact of Introduction to Engineering Course on Preparing Engineering Students to be a Future Engineer	UTM	Institutional	50,000.00	Oct 2014	Sept 2016	Q.J1300 00.2409 .02G56

57.	On-Campus Bio-Recycling of Food and Green Wastes into Compost	UTM	Institutional	120,000.00	Apr 2014	Mar 2015	Q.J1300 00.2401 .01G67
58.	Transforming learning and teaching in higher education: Developing innovative evidence-based techniques for transferring skills in effective implementation of Cooperative Problem-Based Learning (CPBL) among lecturers	Others	ERGS	50,000.00	Sept 2011	Aug 2013	4L017
59.	Table Top ECT Training Package	UTM	Institutional	10,000.00	Sep 2015	Nov 2016	Q.J1300 00.2609 .11J62
60.	Development of Model for Learning Science Using Cognitive Conflict Video Based Instruction to Overcome Student Misconception	Others	FRGS	68,200.00	July 2014	June 2016	R.J1300 00.7831 .4F456
61.	Development of Low Carbon Society for Asian Regions	Others	International	7,800,000.00	Jan 2012	Jun 2016	S.J1300 00.7631 .4X076
62.	Inculcating Scientific Reasoning Skills for Science, Technology, Engineering And Mathematics (STEM) Using Robotic Approach in Physics Experiment in School	Others	FRGS	67,200.00	Dec 2013	Dec 2015	R.J1300 00.7831 .4F411
63.	Kerangka Pemikiran Saintifik Berpaksikan Penyepaduan Domain Afektif, Kognitif dan Psikomotor bagi Membangunkan Pelajar Beradab Mithali	Others	FRGS	52,200.00	Dec 2013	Dec 2015	R.J1300 00.7831 .4F414
64.	Kajian Keberkesanan Modul TOT Latihan Industri / Praktikum AKEPT	Others	National	15,000.00	Oct 2103	Sept 2014	S.J1300 00.7809 .4X103
65.	Curriculum Design for Cooperative Problem-Based Learning (CPBL) to Enhance Complex Problem Solving Skills	UTM	Institutional	34,000.00	Oct 2013	Oct 2015	A.J1600 00.7724 .4J112

	Among Engineering Students						
66.	Model Kurikulum Sains Berasaskan Karakter Nobel Saintis Muda Islam Masa Hadapan	Others	FRGS	60,000.00	Apr 2013	March 2015	R.J1300 00.7831 .4F199
67.	Review of the Effectiveness of the Malaysian Educators Selection Inventory (MEdSI)	Others	National	176,850.00	June 2011	Dec 2011	Q.J1300 00.7731 .4B038
68.	Integrating engineering elements in school science and mathematics	Others	FRGS	37,600.00	Apr 2010	Mac 2012	78652
69.	Status of Science and Mathematics Education in Malaysia	Others	National	20,000.00	Nov 2010	Feb 2011	73752
70.	Metacognitive skills among the Malaysian secondary schools' students in solving Physics problems.	UTM	Institutional	17,500.00	Sept 2004	Oct 2005	75161

COLLABORATION / MOU

NO	NAME OF MOU	PARTY	LEVEL OF MOU	STARTING DATE	ENDING DATE
1.	Memorandum of Understanding	Universitas Kristen Satya Wacana, Salatiga, Indonesia	International	2024	2028
2.	Memorandum of Understanding	Majlis Bandaraya Iskandar Puteri, Iskandar Regional Development Authority, Jabatan Pendidikan Negeri Johor, SWM Environment Sdn Bhd	National	2024	2028
3.	Memorandum of Understanding	Institut Pendidikan Guru Malaysia, Ministry of Education	National	2022	2027
4.	Memorandum of Agreement: My Digital Maker	Malaysia Digital Economy Corporation Sdn Bhd	National	2022	2022
5.	Letter of Cooperation	Universitas Kristen Satya Wacana, Salatiga, Indonesia	International	2021	2023
6.	Letter of Cooperation: The Implementation of Iskandar Malaysia Eco Life Challenge	SWM Environment Sdn. Bhd., Iskandar Regional Development Authority (IRDA), Johor State	National	2017	2019

		Education Department (JPNJ)			
7.	Memorandum of Agreement: Pelan Tindakan Pendidikan Kelestarian Johor 2017-2021	Johor State Education Department (JPNJ)	National	2018	2018
8.	Letter of Agreement: STEM Day 2018	Tanah Sutera Sdn. Bhd.	National	2018	2018
9.	Letter of Agreement: RCE Iskandar Sustainable & Low Carbon Schools Exhibition 2018	Tanah Sutera Sdn. Bhd.	National	2018	2018
10.	Memorandum of Agreement: E-Pembelajaran Untuk Mualaf Bagi Institut Latihan Saudara Baharu Johor	Johor State Economic Planning Division (BPENJ)	National	2016	2018
11.	Letter of Cooperation: The Implementation of Iskandar Malaysia Eco Life Challenge	Iskandar Regional Development Authority (IRDA), Johor State Education Department (JPNJ)	National	2016	2018
12.	Letter of Cooperation: Academic Collaboration through Mevlana Program	Karamanoglu Mehmetbey University, Turkey	International	2015	2019

TEACHING ACTIVITIES

Summary	
Total Credit Hours	228

UNDERGRADUATES

Session	Sem	Subject Code	Subject	Credit Hour	No of Student
2004/2005	1	SPN 2221	Physics Laboratory Education	1	15
2004/2005	1	SPN 2421	Science Laboratory Education	1	15
2004/2005	1	SPA 3008	Teaching Practicum	0	4
2009/2010	2	SPN 3431	Science Education Laboratories II	1	17
2009/2010	1	SPA 2001	Microteaching	1	12
2009/2010	1	SPN 2221	Physics Education Laboratory I	1	12
2009/2010	2	SPN 3231	Physics Education Laboratory II	1	12
2010/2011	1	SPA 3008	Teaching Practicum	0	4
2022/2023	1	SHPA 2001	Microteaching	1	7
2022/2023	2	SHPA 3008	Teaching Practicum	0	4
2023/2024	1	SHPA 2001	Microteaching	1	5
2023/2024	1	SHPN4243	Physics Education	3	25
2023/2024	1	SHPF5113	Teaching & Learning in Physics	3	18
2023/2024	2	SHPA 3008	Teaching Practicum	0	4
2024/2025	1	SHPN4243	Physics Education	3	28
2024/2025	1	SHPA 2001	Microteaching	1	5

2024/2025	2	SHPA 3008	Teaching Practicum	0	3
Total credits				18	

POSTGRADUATES

Session	Sem	Subject Code	Subject	Credit Hour	No of Student
2009/2010	1	MPS 1113	Problem Solving in Physics Education	3	7
2009/2010	1	MPS 1053	Testing & Evaluation in Science & Mathematics Education	3	32
2009/2010	2	MPS 1343	Computer in Chemistry Education	3	8
2009/2010	2	MPS 1143	Computer in Physics Education	3	7
2009/2010	2	MPS 1053	Testing & Evaluation in Science & Mathematics Education	3	8
2010/2011	1	MPS 1053	Testing & Evaluation in Science & Mathematics Education	3	20
2010/2011	1	MPS 1113	Problem Solving in Physics Education	3	4
2010/2011	2	MPS 1343	Computer in Chemistry Education	3	12
2010/2011	2	MPS 1053	Testing & Evaluation in Science & Mathematics Education	3	29
2010/2011	2	MPS 1143	Computer in Physics Education	3	11
2011/2012	1	MPS 1113	Problem Solving in Physics Education	3	5
2011/2012	2	MPS 1143	Computer in Physics Education	3	9
2011/2012	2	MPS 1053	Testing & Evaluation in Science & Mathematics Education	3	26
2011/2012	2	PPS 2193	Current Issues in Physics Education	3	4
2012/2013	1	MPS 1113	Problem Solving in Physics Education	3	7
2012/2013	1	MPS 1053	Testing & Evaluation in Science & Mathematics Education	3	27
2012/2013	2	PPS 2193	Current Issues in Physics Education	3	2
2012/2013	2	PLT 6143	Current Issues in Engineering Education	3	8
2012/2013	2	MPS 1053	Testing & Evaluation in Science & Mathematics Education	3	25
2013/2014	2	PLPT 6133	Data Analysis Techniques	3	5
2014/2015	1	PLPT 6133	Data Analysis Techniques	3	5
2014/2015	1	MPPS 1023	Measurement & Evaluation in Science Education	3	7
2014/2015	1	MPPM 1223	Assessment in Mathematics Education	3	14
2014/2015	1	MPS 1053	Testing & Evaluation in Science & Mathematics Education	3	8
2014/2015	1	MPS 1113	Problem Solving in Physics Education	3	1
2014/2015	2	MPPU 1080	Academic Writing	0	53
2014/2015	2	MPS 1143	Computer in Physics Education	3	3
2014/2015	2	MPPF 1343	Technology in Physics Education	3	8
2015/2016	1	MPPU 0020	Research Methods in Education	0	2
2015/2016	1	MPPU 1080	Academic Writing	0	87
2015/2016	1	PLPT 6123	Research Methodology in Engineering Education	3	1
2015/2016	1	MPPU 1060	Research Methods and Data Analysis	0	42
2015/2016	1	MPPU 1074	Research Methods and Data Analysis in Education	4	22

2015/2016	1	MPPF 1333	Problem Solving in Physics Education	3	6
2015/2016	1	UCP 0010	Research Methodology	0	60
2015/2016	1	MPPU 0020	Research Methods in Education	0	2
2015/2016	2	PLPT 6133	Data Analysis Techniques	3	2
2015/2016	2	MPPF 1343	Technology in Physics Education	3	2
2015/2016	2	MPPU 1080	Academic Writing	0	15
2015/2016	2	PPS 2193	Current Issues in Physics Education	3	1
2015/2016	2	MPPF 1323	Current Issues in Physics Education	3	10
2016/2017	1	MPPU 1074	Research Methods and Data Analysis in Education	4	28
2016/2017	1	PLPT 6123	Research Methodology in Engineering Education	3	3
2016/2017	1	MPPF 1333	Problem Solving in Physics Education	3	7
2016/2017	1	MPPU 1060	Research Methods and Data Analysis	0	44
2016/2017	2	PLPT 6133	Data Analysis Techniques	3	1
2016/2017	2	MPPF 1343	Technology in Physics Education	3	8
2016/2017	2	MPPF 1323	Current Issues in Physics Education	3	8
2017/2018	1	PLPT 6123	Research Methodology in Engineering Education	3	1
2017/2018	2	MPPK 1343	Technology in Chemistry Education	3	2
2017/2018	2	PLPT 6133	Data Analysis Techniques	3	2
2017/2018	2	MPPF 1343	Technology in Physics Education	3	2
2017/2018	2	MPPU 1080	Academic Writing	0	50
2018/2019	1	PLPT 6123	Research Methodology in Engineering Education	3	2
2018/2019	1	MPPF 1333	Problem Solving in Physics Education	3	2
2018/2019	1	MPPU 1060	Research Methods and Data Analysis	0	65
2018/2019	1	MPPU 1074	Research Methods and Data Analysis in Education	4	14
2018/2019	2	MPPF 1343	Technology in Physics Education	3	4
2019/2020	1	MPPF 1333	Problem Solving in Physics Education	3	2
2019/2020	1	PLPT 6123	Research Methodology in Engineering Education	3	6
2019/2020	2	MPPF 1343	Technology in Physics Education	3	3
2020/2021	1	PLPT 6123	Research Methodology in Engineering Education	3	1
2020/2021	2	MPPF 1343	Technology in Physics Education	3	2
2021/2022	1	MHPF 1133	Assessment & Evaluation in Physics Education	3	1
2021/2022	1	PLPT 6123	Research Methodology in Engineering Education	3	4
2021/2022	1	MHPF 1113	Teaching & Learning in Physics Education	3	1
2021/2022	2	MHPF 2243	Technology, Creativity & Innovation in Physics Education	3	1
2022/2023	1	MHPF 2233	Environmental Education & Sustainability	3	6
2022/2023	1	PLPT 6123	Research Methodology in Engineering Education	3	3
2022/2023	2	MHPF 1133	Assessment & Evaluation in Physics Education	3	2
2022/2023	2	MHPF 1113 (ODL)	Teaching & Learning in Physics Education	3	4
2023/2024	1	MHPF 1113	Teaching & Learning in Physics Education	3	1

2023/2024	2	MHPF 1113 (ODL)	Teaching & Learning in Physics Education	3	5
2024/2025	1	MHPF 1133	Assessment & Evaluation in Physics Education	3	11
2024/2025	1	MHPF 2243	Technology, Creativity & Innovation in Physics Education	3	11
2024/2025	1	PLPT 6123	Research Methodology in Engineering Education	3	1
2024/2025	2	MHPF 2263	Problem Solving in Physics Education	3	6
2024/2025	2	PLPT 6123	Research Methodology in Engineering Education	3	5
2024/2025	2	YEET 1023	Data Analysis Techniques	3	2
Total credits				210	

SUPERVISION

Summary	
Main Supervisor – PhD (Graduated)	15
Co-Supervisor – PhD (Graduated)	6
Main Supervisor – PhD (Ongoing)	8
Co-Supervisor – PhD (Ongoing)	5
Main Supervisor- Master by Research (Graduated)	3
Main Supervisor- Master by Research (On-Going)	1
Main Supervisor- Master by Mixed-Mode (Graduated)	15
Main Supervisor- Master by Mixed-Mode (On-Going)	2
Main Supervisor- Master by Taught Course (Graduated)	38
Main Supervisor- Master by Taught Course (On-Going)	3

PhD Student

No.	Name	Status (Graduated/ On-Going)	Title	Roles of Supervision
1.	Farha Mohamed Yasin	On-going	Pembinaan Kandungan Ilmu Fizik Teknologi Dron Dalam Kokurikulum Pendidikan Menengah	Main Supervisor
2.	Siti Nazirah Butai	On-going	Penggunaan Peta Minda Sebagai Scaffolding Bagi Proses Metakomponen Dalam Penyelesaian Masalah Fizik Sebenar Dalam Kalangan Pelajar Pra Universiti	Main Supervisor
3.	Chin Chia Yuan	On-going	Framework of Engineering Educator Training for 4IR Ready Engineering Graduates	Main Supervisor
4.	Anis Nadirah Roslan	On-going	Model Inkuiri Berdasarkan Penyoalan dalam Pembelajaran fizik	Main Supervisor
5.	Shariza Shahari	Graduated (2024) GOT	Kerangka Pembinaan Makna Secara Multimodal Melalui Pembelajaran Inkuiri Bagi Perubahan Kerangka Alternatif Konsep Daya	Main Supervisor
6.	Lai Chin Siong	Graduated (2024) GOT	Electricity Concept Cartoons for Overcoming Misconceptions and Enhancing Scientific Argumentation Skills among Pre-Service Physics Teachers	Main Supervisor

7.	Alexa Ray Fernando	On-going	Engineering Education 5.0: An Industry 5.0-Ready Curriculum Framework Based on Holistic Engineering Competency Model	Co-Supervisor
8.	Abdelrahim Mohamed Minalla	Graduated (2024)	A Transformational Framework for the Development of Undergraduate Engineering Education Programs in Sudan	Co-Supervisor
9.	Irwan Shah Mohd Ghanny	On-going	Miskonspesi dalam Pembelajaran Fizik	Co-Supervisor
10.	Erni Yulianti	Graduated (2024) GOT (UTM Chancellor Award & Best Student Award)	Framework of Design Thinking-STEAM Learning for Scientific Creativity and Understanding in Physics among Indonesian Students	Main Supervisor
11.	Vita Ria Mustikasari	On-going	The Role of Socially Shared Metacognition in Collaborative Physics Problem Solving	Main Supervisor
12.	Victor Kayode Ojomoh	On-going	Effects of Virtual Laboratory on the Conceptual Understanding of Thermal Physics and Self-Efficacy among Undergraduates	Main Supervisor
13.	Prateesh Ben	On-going	Engineering Laboratory Learning	Co-Supervisor
14.	Norwati Haji Mohamad Ali	On-going	Relationship Between Individual Empathy and Contextual Understanding, An Exploration of Engineers' Social Empathy	Main Supervisor
15.	Nur Shahira Samsuri	Graduated (2024) GOT	The Teaching and Learning Environment for Activating First-Year Engineering Students' Conation	Main Supervisor
16.	Izzah Mardhiya Mohammad Isa	Graduated (2024) GOT	Kerangka Khazanah Pengetahuan Pendidikan Fizik Luar Bandar Di Sabah Daripada Perspektif Murid, Guru Dan Ibu Bapa	Co-Supervisor
17.	Siti Hajar Ramzan	On-going	Heuristic Inquiry on Teachers' Habit of Mind Enacted in Inquiry Physics Lessons	Co-Supervisor
18.	Marlina Ali	On-going	Penyelesaian Masalah dalam Pendidikan Fizik	Co-Supervisor
19.	'Asma Mohamed Nyan	On-going	Inquiry-Based Learning for Science Communicators	Main Supervisor
20.	Mazlan Setapa	Graduated (2024)	Strategi Pembelajaran Daya Dan Gerakan Berasaskan Projek Robotik Bagi Meningkatkan Kreativiti Saintifik	Main Supervisor
21.	Nur Fazirah Jumari	Graduated (2024)	Metacognitive Skills Development Using Constructive Learning Environment	Main-Supervisor
22.	Umi Solehah Radzali	Graduated (2022)	Transition Process of Teaching Conception among New Engineering Lecturers to Implement Student Centred Learning	Co-Supervisor
23.	Mazlena Murshed	Graduated (2022)	Model Mental Transformasi Perwakilan Pelbagai Bagi Penyelesaian Masalah Daya Dan Gerakan Dalam Kalangan Pelajar Cemerlang	Main Supervisor

24.	Hafzan Ibrahim	Graduated (2021)	Kesan Amali Robotik Berasaskan Model Needham Terhadap Kemahiran Berfikir Aras Tinggi Dan Proses Sains Bersepadu Tingkatan Empat	Co-Supervisor
25.	Aliyu Bako	Graduated (2021) GOT	An Inquiry-Based Learning Framework of Nigerian Physics Teachers from the Perspective of Teaching Conception and Critical Thinking Skills	Main Supervisor
26.	Anis Diyana Halim	Graduated (2020)	Perwakilan Multimodal Dalam Perubahan Konsep Haba Bagi Pembelajaran Fizik	Main Supervisor
27.	Wong Wai Yoke	Graduated (2020)	Lesson Study among Physics Teachers	Main Supervisor
28.	Nor Farahwahidah Ab Rahman	Graduated (2017) GOT (Best student award)	Science Discourse and Epistemic Practices Norms for the Development of Scientific Epistemology in Physics Lessons	Main Supervisor
29.	Nur Hazwani Zakaria	Graduated (2017) GOT (Best student award)	The Impact of Mobile Computer-Based Physics Laboratory in Learning Forces and Motion	Main Supervisor
30.	Adnan Kaus	Graduated (2018) GOT (Best student award)	Model Sumbangan Sokongan Sosial Bagi Meningkatkan Motivasi Pelajar Dalam Pembelajaran Fizik	Co-Supervisor
31.	Lee Yee Ying	Graduated (2018)	Visual Persuasion in Increasing Energy Awareness and Fostering Energyconservation Behaviour among Government Office Building Users	Co-Supervisor
32.	Noorzana Khamis	Graduated (2019)	Kerangka Epistemologi Saintifik Pelajar Dalam Pembelajaran Amali Fizik	Main Supervisor
33.	Lee Ween Shin	Graduated (2015) Best student award	Physics Learning Context and Learners' Epistemological Beliefs	Main Supervisor
34.	Fariba Mirzaei	Graduated (2014) GOT (Best student award)	Reflective Thinking Skills of Experienced and Inexperienced Physics Teachers	Main Supervisor

MSc. Student

No.	Name	Status (Graduated/ On-Going)	Title	Mode (Research / Taught-course/ Mixed Mode)	Roles of Supervision
1.	Abdul Hannan Abd Halim	On-going	Modul Dron	Research	Main supervisor
2.	Khairuddin Helmy Kamaruzaman	On-going	Miskonsepsi Guru Fizik dalam Konsep Fizik Kuantum	Mixed Mode	Main supervisor
3.	Nur Anissha Najwa	On-going	Minat Murid terhadap Fizik	Mixed Mode	Main supervisor
4.	Ivy Sia	Graduated (2025)	Kesediaan guru sains dalam inkuiri	Mixed Mode	Main supervisor
5.	Mohd Fadhli Zakaria	Graduated (2015)	Keberkesanan Modul Nilai Kelestarian Dalam Topik Daya Tingkatan 4	Research	Main supervisor
6.	Zarirah Abdul Hamid	Graduated (2015)	Pengetahuan Teknologi Pedagogi Kandungan Guru Cemerlang Fizik	Research	Main supervisor
7.	Nor Farahwahidah Ab Rahman	Graduated (2013)	Epistemologi Sainifik Guru Dan Pelajar Tehadap Mata Pelajaran Fizik	Research	Main supervisor
8.	Nor Azlinda Azmi	Graduated (2019)	Difficulty among Engineering Students in Learning Computer Programming	Research	Co- Supervisor
9.	Zulaili Yaacob	Graduated (2017)	Kesan Pembelajaran Berasaskan Projek terhadap Kemahiran Regulasi Kendiri pelajar bagi tajuk haba	Mixed Mode	Main supervisor
10.	Rosmainy Gulam	Graduated (2017)	Corak dan Tahap Pembelajaran Autentik Guru Cemerlang Fizik Tingkatan Empat	Mixed Mode	Main supervisor
11.	Shariza Shahari	Graduated (2015) (Best Student Award)	Pengajaran Dialogik Guru Cemerlang Fizik Tingkatan Empat	Mixed Mode	Main supervisor
12.	Lee Jun Hung	Graduated (2013)	Aplikasi Konsep Fizik Dalam Menyelesaikan Masalah Yang Berasaskan Stem Bagi Murid Tingkatan Enam	Mixed Mode	Main supervisor
13.	Mazlena Murshed	Graduated (2013)	Pemindahan Pembelajaran Antara Konsep Dan Aplikasi Keseimbangan Daya Serta Trigonometri Dalam Kalangan Pelajar Tingkatan Empat	Mixed Mode	Main supervisor
14.	Zulkefli Hashim	Graduated (2013)	Pengetahuan Teknologi Pedagogi Kandungan Guru Fizik Tingkatan Enam –	Mixed Mode	Main supervisor
15.	Nur Salwani Mat Noor	Graduated (2014)	Hubungan Antara Tahap Kepercayaan Kendiri Fizik Dan Orientasi Pembelajaran Fizik	Mixed Mode	Main supervisor

			Pelajar Di Daerah Pasir Gudang		
16.	Lilia Ellany Mohtar	Graduated (2012)	Ciri-Ciri Kreativiti Bakal Guru Fizik Dalam Latihan Amali Fizik Dan Projek Inovasi Fizik	Mixed Mode	Main supervisor
17.	Azzahyiruddin Ahyannuddin	Graduated (2012)	Pembinaan Ujian Diagnostik Objektif Dan Kupasan Jawapan Bagi Mengesan Kesalahan Pelajar Dalam “Graf Gerakan Linear”	Mixed Mode	Main supervisor
18.	Izzyan Salleh	Graduated (2012)	Kajian Tindakan Pengajaran <i>Free-Body Diagram</i> (FBD) Dalam Meningkatkan Kemahiran Menyelesaikan Masalah Daya Tingkatan Empat	Mixed Mode	Main supervisor
19.	Fakhrur Razi Ahmad	Graduated (2012)	Mengkaji Hubungan Antara Tahap Penaakulan Saintifik Dengan Tahap Pencapaian Fizik Pelajar Tingkatan Empat	Mixed Mode	Main supervisor
20.	Salawati Sahar	Graduated (2011)	Penguasaan Kemahiran Proses Sains Bersepadu Dalam Ujian Amali Dan Ujian Bertulis Fizik Tingkatan 4	Mixed Mode	Main supervisor
21.	Muhammad Abd Hadi Bunyamin	Graduated (2011)	Pengetahuan Teknologi Pedagogi Kandungan Bakal Guru Fizik Universiti Teknologi Malaysia	Mixed Mode	Main supervisor
22.	Norlly Mohd Isa	Graduated (2011)	Penilaian Pelaksanaan Komponen Fizik Dalam Kurikulum Sains Gunaan Menggunakan Model CIPP	Mixed Mode	Main supervisor
23.	Noor Adilah Ab Aziz	On-going	Penggunaan GeoGebra dalam Pembelajaran Hukum Kirchhoff	Taught Course (ODL)	Main supervisor
24.	Ge Shiyue	On-going	The effectiveness of AI-powered virtual laboratory assistants in physics experiment courses	Taught Course	Main supervisor
25.	Zulaikha Yacob	On-going	Game-Based Learning in Physics Education	Taught Course (ODL)	Main supervisor
26.	Liang Jianing	Graduated (2025)	Relationships between Misconceptions on Force and Motion and Teaching Self-Efficacy among Pre-Service Physics Teachers at Universiti Teknologi Malaysia	Taught Course	Main supervisor
27.	Anis Nadirah Roslan	Graduated (2020)	Physics Teacher's Self-Efficacy in Using Inquiry-Based Learning to Teach Physics	Taught Course	Main supervisor

28.	Aliah Fatin Irwani Abd Razak	Graduated (2020)	Tahap Kesedaran Metakognitif Guru Fizik Di Daerah Johor Bahru	Taught Course	Main supervisor
29.	Nur Erra Fadzira Rosli	Graduated (2021)	Hubungan Kreativiti Saintifik dan Penyelesaian Masalah Fizik Pelajar Tingkatan Empat	Taught Course	Main supervisor
30.	Mastura Hussin	Graduated (2018)	Pembelajaran Aktif Dalam Topik Haba Tingkatan Empat	Taught Course	Main supervisor
31.	Nurul Ain Ibrahim	Graduated (2018)	Kajian Tindakan Melalui Pengajaran Berasaskan Inkuiri Bagi Tajuk Prinsip Archimedes Tingkatan Empat	Taught Course	Main supervisor
32.	Siti Nor Syuhaidah Mohamad Sufandi	Graduated (2017)	Penggunaan Simulasi Dalam Pembelajaran Topik Litar Elektrik	Taught Course	Main supervisor
33.	Nurul Adni Nik Hassan	Graduated (2017)	Hubungan Antara Pemikiran Matematik Dan Pencapaian Penyelesaian Masalah Fizik Pelajar Sekolah Menengah	Taught Course	Main supervisor
34.	Nordiana Jamiran	Graduated (2017)	Minat Terhadap Fizik Dan Epistemologi Saintifik Fizik Dalam Kalangan Pelajar Tingkatan Enam	Taught Course	Main supervisor
35.	Nur Shuhadah Zahari	Graduated (2017)	Tahap Visualisasi Spatial Dan Pemahaman Konsep Daya Dan Gerakan Pelajar Tingkatan Empat	Taught Course	Main supervisor
36.	Nur Izzaty Rahim	Graduated (2017)	Pembelajaran Regulasi Kendiri Pelajar Terhadap Fizik Di Institusi Pengajian Tinggi	Taught Course	Main supervisor
37.	Nurhusna Safariah Nawi	Graduated (2017)	Kesan Pembelajaran Kooperatif Terhadap Tahap Penguasaan Kemahiran Berfikir Aras Tinggi (KBAT) Bagi Topik Daya Dan Gerakan	Taught Course	Main supervisor
38.	Nur Hamizah Mawardi	Graduated (2017)	Tahap Pencapaian, Minat Dan Gaya Pembelajaran Pelajar Fizik Tingkatan Empat Di Daerah Ampang Jaya	Taught Course	Main supervisor
39.	Lai Chin Siong	Graduated (2017) Best student award	The Use of Concept Cartoons in Teaching Force and Motion Concepts	Taught Course	Main supervisor
40.	Seri Haini Sulastri Zulkepli	Graduated (2017)	Salah Tanggapan Pelajar Dan Pengetahuan Pedagogi Kandungan (PPK) Guru Dalam Topik Haba	Taught Course	Main supervisor
41.	Noor Liyana Shamsudin	Graduated (2017)	Tinjauan Penerapan Elemen Kbat Dalam Proses Pembelajaran Dan Pengajaran	Taught Course	Main supervisor

			Bagi Mata Pelajaran Fizik Dalam Kalangan Guru Fizik Daerah Pasir Gudang		
42.	Noor Sarah Akmal Abu Bakar	Graduated (2017)	Perbandingan Jenis Salah Konsep Guru Dan Pelajar Dalam Daya Dan Gerakan	Taught Course	Main supervisor
43.	Faezah Fazal	Graduated (2017)	Faktor-Faktor Yang Mempengaruhi Pemilihan Subjek Fizik Dalam Kalangan Pelajar Di Johor Bahru	Taught Course	Main supervisor
44.	Putri 'Amirah 'Izzatul Iman Mohamed Zuhaini	Graduated (2016)	Kemahiran Berfikir Secara Kritis Dan Pencapaian Fizik Pelajar Sekolah Luar Bandar Dan Bandar Di Johor Bahru	Taught Course	Main supervisor
45.	Hamizah Adnan	Graduated (2016) Best student award	Keberkesanan Penggunaan Microcomputer-Based Learning (MBL) melalui Mobile Science Laboratory (MSL) berdasarkan minat dan persepsi pelajar terhadap Amali Fizik	Taught Course	Main supervisor
46.	Nur Shahadah Abdul Rahim	Graduated (2017)	Problem Representation Skills in Solving Physics Problems	Taught Course	Main supervisor
47.	Siti Zubaidah Zainal Abidin	Graduated (2017)	Tahap Pencapaian Pelajar Tingkatan 4 Di Daerah Kota Tinggi, Johor Dalam Menjawab Soalan Kemahiran Berfikir Aras Tinggi (KBAT) Bagi Topik Daya Dan Gerakan	Taught Course	Main supervisor
48.	Fatemah Rabihah Hayati Ramli	Graduated (2015)	Tahap Kesiediaan Guru Fizik dalam Pelaksanaan Peperiksaan Berpusat Amali Fizik di Daerah Johor Bahru	Taught Course	Main supervisor
49.	Siti Nazirah Butai	Graduated (2014)	Dimensi Metakognisi Dalam Penyelesaian Masalah Fizik Melibatkan Penggunaan Free-Body Diagram	Taught Course	Main supervisor
50.	Siti Zubaidah Md Isa	Graduated (2014)	Kaedah Mini Pengajaran, Penyiasatan Dan Perbincangan Dalam Tajuk Gerakan Linear	Taught Course	Main supervisor
51.	'Asma Mohamed Nyan	Graduated (2014)	Hubungan antara Tahap Kreativiti Saintifik dengan Keupayaan Penyelesaian Masalah dalam kalangan Pelajar di Johor Bahru	Taught Course	Main supervisor
52.	Yong Xiu Hui	Graduated (2014)	Scientific Epistemological Beliefs of Science and Arts Streams Students	Taught Course	Main supervisor
53.	Lee Kwan Howe	Graduated (2014)	The Effectiveness of Peer Instruction in Enhancing Physics Conceptual Understanding	Taught Course	Main supervisor

54.	Siti Nor Hidayah Ismail	Graduated (2013)	Penggunaan Gambar Rajah Dalam Menyelesaikan Masalah Tajuk Gerakan Linear Tingkatan Lima	Taught Course	Main supervisor
55.	Ting Fang Ling	Graduated (2013)	Persepsi Dan Tahap Kesediaan Guru Fizik Dalam Melaksanakan Peka Di Sekolah Menengah Daerah Pontian	Taught Course	Main supervisor
56.	Noorzana Khamis	Graduated (2013)	Minat, Sikap Dan Persepsi Pelajar Tingkatan Tiga Terhadap Fizik	Taught Course	Main supervisor
57.	Rohiza Husain	Graduated (2014)	Miskonsepsi Bagi Tajuk Cahaya Dalam Kalangan Pelajar Sekolah Menengah Daerah Johor Bahru	Taught Course	Main supervisor
58.	Wong Wai Yoke	Graduated (2012)	The Level of Awareness on Low Carbon Society Concept among Upper Secondary School Students	Taught Course	Main supervisor
59.	Abubakr Ishiyaku Mbela	Graduated (2012)	The Level of Readiness in the Use of e-Learning in Teaching among Physics Teachers at Tertiary Institutions in Nigeria	Taught Course	Main supervisor
60.	Azadeh Bazooband	Graduated (2012)	Social Networking in Physics Homework Completion	Taught Course	Main supervisor
61.	Siti Hidayana Nassirin	Graduated (2012)	Kajian Kes Terhadap Amalan PTPK Dalam Kalangan Guru Fizik Di Daerah Johor Bahru	Taught Course	Main supervisor
62.	Mohammad Mubarak Mohd Yusof	Graduated (2012)	Tahap Pemahaman Pelajar Dan Guru Dalam Konsep Daya Dan Gerakan	Taught Course	Main supervisor
63.	Lee Ween Shin	Graduated (2010) Best Student Award	Development of UTM Physics Graduate's Generic Attributes from the Perspectives of Undergraduates, Lecturers and Employers	Taught Course	Main supervisor
64.	Hanisah Yassin	Graduated (2020)	Kajian Tindakan Pelaksanaan Pembelajaran Berasaskan Inkuiri Topik Cahaya Dalam Kalangan Pelajar Sekolah Menengah	Taught Course	Co-Supervisor

UTM POSTGRADUATE EXAMINATION/ VIVA

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PhD Internal Examiner

No.	Role	Name of Student	Title	Year
1.	Internal Examiner	Ataolla Zarei	Mobile Multimedia Instructional Design Principles for Teaching and Learning the First Law of Thermodynamics	2022
2.	Internal Examiner	Zulhelmi Zulkpli	Strategi Pembelajaran Ungkapan Algebra Berasaskan Penyelesaian Pemikiran Bagi Mempertingkatkan Pemikiran Kritis Dan Kreatif Matematik	2020
3.	Internal Examiner	Jenny Cheng Oi Lee	Student Interactions in Collaborative Inquiry Learning in Chemistry Practical Works	2018
4.	Internal Examiner	Nur Ayuni Shamsul Bahri	Development and Validation of Rubrics in Assessing Student Problem-Solving Process in Project-Based Laboratory Course	2016
5.	Internal Examiner	Mohd Fadzil Daud	Conceptual Knowledge in Three Dimensional Computer Aided Design (3D CAD): Assessment of Mechanical Engineering Undergraduates' Conceptual Understanding and Relative Comparison as Perceived by Manufacturing Industries	2012
6.	Internal Examiner	Abu Hassan Hussin	Development of an Enriched Method for Introductory Physics Laboratory Work and Its Effects on Students Learning Outcomes	2011

Master Internal Examiner

NO	ROLE	STUDENTS NAME	TITLE	YEAR
1.	Internal Examiner	Siti Hamizah Aspin	Pembinaan Dan Keberkesanan Modul Pembelajaran Fizik Berasaskan Projek Berintegrasikan Stem Dalam Meningkatkan Kemahiran Abad Ke-21	2023
2.	Internal Examiner	Hafiza Ibrahimi	Afghan Students' Alternative Conceptions in Astronomy and Cosmology	2021
3.	Internal Examiner	Mohd Razip Bajuri	Tahap Pemikiran Divergen terhadap Sikap Kreatif dan Pencapaian Fizik Pelajar Sekolah Berasrama Penuh Negeri Johor	2014
4.	Internal Examiner	Norhafizah Nasiron	Pola Kecerdasan Pelbagai dalam kalangan Pelajar Fizik Berpencapaian Tinggi, Sederhana dan Rendah di Daerah Kulai	2011
5.	Internal Examiner	Rashimah Abu Kasim	Hubungan Kemahiran Berfikir Kritis dan Kreatif (KBKK) dengan Kemahiran Menyelesaikan Masalah Fizik Model Heller dalam kalangan Pelajar Fizik	2011
6.	Internal Examiner	Hafzan Ibrahim	Gaya Kognitif dan Kemahiran Saintifik dalam kalangan Pelajar Fizik bagi Tajuk Daya dan Gerakan	2010
7.	Internal Examiner	Sim Sze Kiong	Epistemological Beliefs, Attitudes and Conceptual Understanding towards Learning Physics among Physics Education Undergraduates	2010

8.	Internal Examiner	Fariba Mirzaei	The Relationship between Academic Success Goal, Metacognition and Students' Belief about Physics and Learning Physics	2010
9.	Internal Examiner	Noor Aniszah Baijan	Tahap Pemahaman Pelajar Bagi Tajuk Asid dan Bes Mengikut Aras Makroskopik, Mikroskopik dan Persimbolan	2010
10.	Internal Examiner	Nurulhamizah Azman	Tahap penguasaan kemahiran membuat hipotesis dan mendefinisi secara operasi di kalangan pelajar kimia Fakulti Pendidikan, Universiti Teknologi Malaysia, Skudai, Johor	2009

EXTERNAL EXAMINATION/ VIVA

Summary	
PhD External Examiner	15
Master External Examiner	8
Others Examiner	2

PhD External Examiner

No.	Role	Name of Student	Title	Year
1.	External Examiner (UUM)	Mohd Nizar Mohd Najib	Kajian Kuasi-Eksperimen Ke Atas Pembelajaran Secara Simulasi Bagi Topik Keseimbangan Daya Dalam Subjek Fizik Tingkatan Empat	2023
2.	External Examiner (Unimas)	Heng Kiat Sing	Knowledge Building through Group Work among Students Taking Economic Subjects at Tertiary Level	2022
3.	External Examiner (UPSI)	Wan Nurul Huda Wan Ab Kadir	Pembangunan Modul Makmal Interaktif (i-Lab) Fizik Tingkatan Empat Berteraskan STEM dan Keberkesanannya Terhadap Pencapaian, Kemahiran Penyelesaian Masalah dan Perbezaan Gaya Kognitif	2021
4.	External Moderator (USM)	Tan Mei Hooi	EdD	2021
5.	External Moderator (USM)	Lim Sheue Hui	EdD	2021
6.	External Examiner (Monash University, Australia)	Fui Chin Hiew	Modelling Seamless Learning Experience in Higher Education – A Study from an IT Faculty	2020

No.	Role	Name of Student	Title	Year
7.	External Examiner (USM)	Noor Fadzilah Aris	Pembangunan dan Penilaian Modul Pembelajaran Integrasi STEM Berkonsepkan Sains Forensik (PISTEM FORENSIK) Dalam Meningkatkan Pemikiran Kritis dan Kreativiti Saintifik Murid Sekolah Menengah	2019
8.	External Examiner (UPSI)	Kalaiselvi Shanmugam	Pembinaan Kerangka Panduan ICT bagi Mata Pelajaran Sains untuk Guru-guru SJK(T) di Luar Bandar di Negeri Perak	2019
9.	External Examiner (UMS)	Amnah Abdullah	The Culture of Learning Science at a Sabah Islamic Religious Secondary School Science Classroom	2019
10.	External Examiner (UKM)	Lilia Ellany Mohtar	Model Sumbangan Kreativiti, Sikap, Efikasi Kendiri dan Motivasi Terhadap Pencapaian Fizik Pelajar Tingkatan Empat	2019
11.	External Examiner (UPSI)	Badariah Hashim	Membangun Dan Menguji Manual Pengajaran Menggunakan Kaedah Pengajaran Berasaskan Pemikiran Mengkonsepsikan Dalam Tajuk Haba	2018
12.	External Examiner (UKM)	Shahril Sabudin	Amalan Pedagogi Produktif Guru Sains Sekolah Menengah dan Pengaruhnya terhadap Budaya Sains dan Teknologi Murid	2018
13.	External Examiner (USM)	Azlina Mazlan	Pembangunan dan Penilaian Keberkesanan Modul Pendekatan Pengajaran Berasaskan Otak dengan Integrasi i-Think dan Brain Gym bagi Meningkatkan Kefahaman Konseptual dan Motivasi Belajar Fizik Pelajar Matrikuasi	2017
14.	External Examiner (UNIMAS)	Mansoor Ahmed Channa	An Investigation of Scaffolding and Metacognitive Strategies in Reading Comprehension of Engineering Students	2017
15.	External Examiner (UKM)	Zulirfan	Pembangunan dan Keberkesanan Modul Pembelajaran Take Home Experiment Bagi Meningkatkan Kemahiran dan Sikap Saintifik Pelajar Sekolah Menengah	2016
16.	External Examiner (Andhra University, India)	P V Ramani	Influence of Epistemological Beliefs on Student Success in Basic Physics Courses: An International Comparison & The Possible Influence of Teachers' Epistemological Beliefs on Student's Epistemological Belief	2016
17.	External Examiner (UKM)	Muhammad Syukri	Pembinaan Dan Keberkesanan Modul pengajaran Dan Pembelajaran Fizik Berasaskan Reka Bentuk Kejuruteraan Terhadap Kreativiti Saintifik Pelajar	2015

Master External Examiner

No.	Role	Name of Student	Title	Year
1.	External Examiner (UMS)	Stephanie Sungkim	Influence of Content Knowledge and Teacher's Attitude towards the Teacher's Readiness to Teach Secondary Schools Quantum Physics in Sabah	2022
2.	External Examiner (UPSI)	Mohd Taufek Harun	Pembangunan Modul FZ-STEM dalam Tajuk Daya dan Gerakan dan Kesannya Terhadap Kemahiran Abad Ke-21 dan KBAT	2021
3.	External Examiner (UPSI)	Hazimah Ashamuddin	Pembangunan dan Kesan Modul Interaktif Elektromagnet (MI-EM) melalui Aplikasi MOODLE terhadap Pencapaian Pelajar Matrikulasi yang Berbeza Sikap	2020
4.	External Examiner (UPSI)	Nor Faralina Asrab Ali	Relationshbetween Pre-Class Task Scores and Academic Performance in Physics	2018
5.	External Examiner (USM)	Tay Ai Jing	A Comparative Study of Science Teachers' Instructional Practices and Their Conceptions of Science Teaching in Malaysian and Germany Secondary Schools	2019
6.	External Examiner (USM)	Kelvineh Kalianon & Kaliun	Effectiveness of Coupled Inquiry Learning on the Understanding and Critical Thinking in Meiosis among Pre-Service Teachers	2017
7.	External Examiner (USM)	Tay King Eng	Effects of Process Oriented Guided Induiy Learning (POGIL) on the Misconception of Mole Concept among Form Four Students	2017
8.	External Examiner (UMS)	Azlinah Ispal	Learning Progression of Energy in Secondary School Physics	2016

PUBLICATIONS

Summary	
ISI Journal Articles	25
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Journal Articles

No.	Article Title	Journal Title	ISS N	Vol.	No.	Pg.	Pub. year	IF	Type of Pub.	Categor y of Pub.	Quartile Ranking	Category Author
1.	Environmental Awareness in Batik Making Process	Sustainability	2071 - 1050	14	10	609 4	2022	3.2 51	Journal	ISI Indexed Journal	Q2	Correspon ding author
2.	Integrating Drone Technology in Service Learning for Engineering Students	International Journal of Emerging Technologies in Learning	1868 8799	16	15	79- 90	2021	-	Journal	ISI Indexed Journal	-	Correspon ding author
3.	Engineering Students Learning Experience Through a Unique Global Project-Based Learning	International Journal of Emerging Technologies in Learning	1868 8799	16	15	236 - 243	2021	-	Journal	ISI Indexed Journal	-	Co-Author
4.	A Study of Magnetic Induction Tomography (MIT) for Calcium Oxalate Renal Screening	Malaysian Journal of Fundamental and Applied Sciences (MJFAS)	2289 - 5981	17	4	485 - 494	2021	-	Journal	ISI Indexed Journal	-	Co-Author
5.	Physics on the Go: A Mobile Computer-Based Physics Laboratory for Learning Forces and Motion	International Journal of Emerging Technologies in Learning	1868 8799	14	24	167 - 183	2019	-	Journal	ISI Indexed Journal	-	UTM First Author
6.	Instilling Low Carbon Awareness through Technology-Enhanced Cooperative Problem Based Learning	International Journal of Emerging Technologies in Learning	1868 8799	14	24	152 - 166	2019	-	Journal	ISI Indexed Journal	-	Co-Author
7.	The introduction to engineering course: A case study from Universiti Teknologi Malaysia	Education for Chemical Engineers	1749 7728	28	1	45- 53	2019	-	Journal	ISI Indexed Journal	-	Co-Author
8.	Learning Physics Through Practical Work at School Laboratories	Advanced Science Letters	1936 6612	24	1	41- 43	2018	1.2 53	Journal	ISI Indexed Journal	Q2	UTM First Author
9.	Comparing Multi Modal Representations of Latent Heat Concepts Among Physics Teachers	Advanced Science Letters	1936 6612	24	1	15- 17	2018	1.2 53	Journal	ISI Indexed Journal	Q2	Correspon ding author
10.	The Relationship Between Mentoring in Students' Perception Towards STEM Education	Advanced Science Letters	1936 6612	24	1	72- 73	2018	1.2 53	Journal	ISI Indexed Journal	Q2	Co-Author
11.	Item and Person Reliability Analysis for the Development of	Advanced Science Letters	1936 6612	24	1	54- 56	2018	1.2 53	Journal	ISI Indexed Journal	Q2	UTM First Author

No.	Article Title	Journal Title	ISS N	Vol.	No.	Pg.	Pub. year	IF	Type of Pub.	Categor y of Pub.	Quartile Ranking	Category Author
	Physics Scientific Epistemological Measurement for Teacher (PSET) Instrument											
12.	Image Reconstruction Enhancement Using Convolution Back Projection Method for Electrical Tomography Application	International Journal of Integrated Engineering	2229 838 X	10	8	103 - 106	2018	-	Journal	ISI Indexed Journal	Q3	Co-Author
13.	Sensitivity Mapping for Electrical Tomography Using Finite Element Method	International Journal of Integrated Engineering	2229 838 X	10	8	64- 67	2018	-	Journal	ISI Indexed Journal	Q3	Co-Author
14.	Design and Development of a Microscopic Electrical Impedance Tomography System	International Journal of Integrated Engineering	2229 838 X	9	4	27- 31	2017	-	Journal	ISI Indexed Journal	-	Co-Author
15.	Finite Element Analysis for Acoustic Wave Transmission in Ultrasonic Tomography Application	International Journal of Integrated Engineering	2229 838 X	9	4	43- 48	2017	-	Journal	ISI Indexed Journal	-	Co-Author
16.	Single-Plane Dual-Modality Tomography for Multiphase Flow Imaging by Integrating Electrical Capacitance and Ultrasonic Sensors	IEEE Sensors Journal	1530 437 X	17	19	636 8- 637 7	2017	2.5 12	Journal	ISI Indexed Journal	Q2	Co-Author
17.	Iskandar Malaysia Ecolife Challenge: Low carbon education for teachers and students	Clean Technologies and Environmental Policy	1618 954 X	18	8	252 5- 253 2	2016	3.3 31	Journal	ISI Indexed Journal	Q2	Correspon ding Author
18.	Enhancement of team-based problem solving skills in engineering students through cooperative problem-based learning	International Journal of Engineering Education	0949 149 X	32	6	240 1- 241 4	2016	0.5 8	Journal	ISI Indexed Journal	Q3	Co-Author
19.	Instilling Professional Skills and Sustainable Development through Problem-Based Learning	International Journal of Engineering Education	0949 149 X	32	1	333 - 347	2016	0.5 8	Journal	ISI Indexed Journal	Q3	Co-Author

No.	Article Title	Journal Title	ISS N	Vol.	No.	Pg.	Pub. year	IF	Type of Pub.	Categor y of Pub.	Quartile Ranking	Category Author
	(PBL) among First Year Engineering Students											
20.	Hardware Development of Electrical Capacitance Tomography (ECT) System with Capacitance Sensor for Liquid Measurements	Jurnal Teknologi	2180 3722	73	6	13-22	2015	-	Journal	ISI Indexed Journal	Q3	Co-Author
21.	Mobile Electrical Capacitance Tomography (ECT) Development for Liquid-Gas Flow Measurement	Jurnal Teknologi	2180 3722	73	3	29-33	2015	-	Journal	ISI Indexed Journal	Q3	Co-Author
22.	3D Modelling of Electrical Capacitance and Ultrasonic Sensor Integration Using Finite Element Method	Jurnal Teknologi	2180 3722	77	17	31-35	2015	-	Journal	ISI Indexed Journal	Q3	Co-Author
23.	Finite Element Analysis on Electrical Capacitance Sensor Guard	Jurnal Teknologi	2180 3722	77	28	61-65	2015	-	Journal	ISI Indexed Journal	Q3	Co-Author
24.	Image fusion using fuzzy logic pixel fusion for dual modality tomography system.	Jurnal Teknologi	2180 3722	70	3	41-44	2014	-	Journal	ISI Indexed Journal	Q3	Co-Author
25.	Edge Detection Algorithm for Enhancement of Linear Back Projection Tomographic Images	Jurnal Teknologi	2180 3722	69	8	31-34	2014	-	Journal	ISI Indexed Journal	Q3	Co-Author
26.	Exploring Students' Creativity Using Steam-Based Reading Texts	Journal of Advanced Research in Applied Sciences and Engineering Technology	2462 1943	44	1	181 - 187	2025	-	Journal	SCOPUS Indexed Journal	-	Correspon ding Author
27.	State-Of-The-Art of STEAM Education in Science Classrooms: A Systematic Literature Review	Open Education Studies	2544 7831	6	1	1-17	2024	-	Journal	SCOPUS Indexed Journal	-	Correspon ding Author
28.	Problematization of the Sudanese Engineering Education	Journal of Advanced Research in Applied Sciences and Engineering Technology	2462 1943	39	1	102 - 116	2024	-	Journal	SCOPUS Indexed Journal	-	Co-Author

No.	Article Title	Journal Title	ISS N	Vol.	No.	Pg.	Pub. year	IF	Type of Pub.	Categor y of Pub.	Quartile Ranking	Category Author
29.	Drone EDU Challenge IR 4.0: Expanding Skills Sets of Malaysian STEM Talent Pool	Journal of Advanced Research in Applied Sciences and Engineering Technology	2462 1943	37	1	162 - 170	2024	-	Journal	SCOPUS Indexed Journal	-	Correspon ding Author
30.	The Use of Concept Cartoons in Overcoming the Misconception in Electricity Concepts	Participatory Educational Research	2148 - 6123	10	1	310 - 329	2023	-	Journal	SCOPUS Indexed Journal	-	UTM First Author
31.	Bridging Culture and Science Education: Implications for Research and Practice	International Journal of Learning, Teaching and Educational Research	1694 - 2116	21	10	362 - 380	2022	-	Journal	SCOPUS Indexed Journal	-	Co-Author
32.	Developing rigor with critical discourse analysis to examine educators' transition toward active learning	Procedia Computer Science	1877 0509	172	-	49- 54	2020	-	Journal	SCOPUS Indexed Journal	-	Co-Author
33.	Sensitivity Maps Preparation for Electrical Capacitance Tomography Using Finite Element Approach	Lecture Notes in Electrical Engineering	1876 1100	632	202 0	67- 75	2020	-	Journal	SCOPUS Indexed Journal	-	Co-Author
34.	Investigating secondary school physics teacher's competency in using inquiry-based learning in Kebbi state, Nigeria	Journal of Advanced Research in Dynamical and Control Systems	1943 023 X	12	3	435 - 440	2020	-	Journal	SCOPUS Indexed Journal	-	Correspon ding Author
35.	Framework to Develop Low Carbon Society among School Community	International Journal of Recent Technology and Engineering	2277 3878	7	6S5	773 - 776	2019	-	Journal	SCOPUS Indexed Journal	-	Correspon ding Author
36.	Student self-development through cooperative problem based learning (CPBL)	International Journal of Recent Technology and Engineering	2277 3878	8	2S9	872 - 877	2019	-	Journal	SCOPUS Indexed Journal	-	Co-Author
37.	Sustainable impact of Iskandar Malaysia Ecolife Challenge (IMELC) on the low carbon awareness and practice among students	Indian Journal of Public Health Research and Development	0976 5506	10	6	143 1- 143 6	2019	-	Journal	SCOPUS Indexed Journal	-	Co-Author

No.	Article Title	Journal Title	ISS N	Vol.	No.	Pg.	Pub. year	IF	Type of Pub.	Categor y of Pub.	Quartile Ranking	Category Author
38.	Action Research to Improve Students' Problem Solving using Multiple Modes of Representation	International Journal of Recent Technology and Engineering	2277 3878	7	6S5	953 - 957	2019	-	Journal	SCOPUS Indexed Journal	-	UTM First Author
39.	Student Self-Regulated Learning in Physics at a Higher Education Institute	International Journal of Recent Technology and Engineering	2277 3878	7	6S5	162 0-162 3	2019	-	Journal	SCOPUS Indexed Journal	-	Correspon ding Author
40.	Changing the conception of teaching from teacher-centred to student-centred learning among engineering lecturers	Global Journal of Engineering Education	1328 3154	20	2	120 - 126	2018	-	Journal	SCOPUS Indexed Journal	-	Co-Author
41.	Fostering Higher Order Thinking Skills among Primary Students through Iskandar Malaysia Ecolife Challenge	Man in India	0025 1569	97	17	1- 14	2017	-	Journal	SCOPUS Indexed Journal	-	Correspon ding Author
42.	Achieving Low Carbon Society through Primary School Ecolife Challenge in Iskandar Malaysia	Chemical Engineering Transactions	2283 - 9216	56	1	415 - 420	2017	-	Journal	SCOPUS Indexed Journal	-	Correspon ding Author
43.	The roles of parents in their children's physics problem-solving ability	Advanced Science Letters	1936 6612	23	8	751 7-752 0	2017	-	Journal	SCOPUS Indexed Journal	-	Co-Author
44.	How Do first Year Malaysian Chemical Engineering Students Approach Learning?	Chemical Engineering Transactions	2283 - 9216	56	1	100 9-101 4	2017	-	Journal	SCOPUS Indexed Journal	-	Co-Author
45.	Sustainable and Low Carbon Practices at Schools in Iskandar Malaysia	Chemical Engineering Transactions	2283 - 9216	56	1	313 - 318	2017	-	Journal	SCOPUS Indexed Journal	-	UTM First Author
46.	How to Motivate Chemical Engineering Undergraduates to Learn Programming?	Chemical Engineering Transactions	2283 - 9216	56	1	130 3-130 8	2017	-	Journal	SCOPUS Indexed Journal	-	Co-Author
47.	Implementation of lesson study among physics teachers: A preliminary study	Man in India	0025 - 1569	97	13	265 - 274	2017	-	Journal	SCOPUS Indexed Journal	-	UTM First Author
48.	Scientific epistemology in learning physics	Man in India	0025 - 1569	97	13	297 - 306	2017	-	Journal	SCOPUS Indexed Journal	-	UTM First Author

No.	Article Title	Journal Title	ISS N	Vol.	No.	Pg.	Pub. year	IF	Type of Pub.	Categor y of Pub.	Quartile Ranking	Category Author
	through practical work											
49.	Teacher's talk in physics classroom.	Man in India	0025 - 1569	97	13	159 - 170	2017	-	Journal	SCOPUS Indexed Journal	-	UTM First Author
50.	Problem solving and social supports: The roles of parents	Man in India	0025 - 1569	97	12	279 - 287	2017	-	Journal	SCOPUS Indexed Journal	-	Correspon ding Author
51.	Low carbon awareness among primary school students through Iskandar Malaysia Ecolife Challenge Competition	Man in India	0025 - 1569	96	1	387 - 395	2016	-	Journal	SCOPUS Indexed Journal	-	Correspon ding Author
52.	The effectiveness of inculcating education for sustainable development (ESD) in physics learning module	Man in India	0025 - 1569	96	1	325 - 335	2016	-	Journal	SCOPUS Indexed Journal	-	UTM First Author
53.	Patterns of dialogic teaching for physics excellent teachers	Man in India	0025 - 1569	96	1	589 - 598	2016	-	Journal	SCOPUS Indexed Journal	-	UTM First Author
54.	Comparing teachers' scientific epistemological stances and development.	Man in India	0025 - 1569	96	1	501 - 512	2016	-	Journal	SCOPUS Indexed Journal	-	UTM First Author
55.	A Correlation Analysis Between Sentimental Comment and Numerical Response in Students' Feedback	ARPJ Journal of Engineering and Applied Sciences	1819 6608	10	23	180 54-180 60	2015	-	Journal	SCOPUS Indexed Journal	-	Co-Author
56.	Science and Arts Streams Students' Scientific Epistemological Beliefs	International Education Studies	1913 9020	8	13	88- 92	2015	-	Journal	SCOPUS Indexed Journal	-	Correspon ding Author
57.	Hardware Development of Electrical Capacitance Tomography (ECT) System with Capacitance Sensor for Liquid Measurements	Jurnal Teknologi	2180 3722	73	6	13- 22	2015	-	Journal	SCOPUS Indexed Journal	-	Co-Author
58.	Mobile Electrical Capacitance Tomography (ECT) Development for Liquid-Gas Flow Measurement	Jurnal Teknologi	2180 3722	73	3	29- 33	2015	-	Journal	SCOPUS Indexed Journal	-	Co-Author

No.	Article Title	Journal Title	ISS N	Vol.	No.	Pg.	Pub. year	IF	Type of Pub.	Categor y of Pub.	Quartile Ranking	Category Author
59.	Image fusion using fuzzy logic pixel fusion for dual modality tomography system	Jurnal Teknologi	2180 3722	70	3	41-44	2014	-	Journal	SCOPUS Indexed Journal	-	Co-Author
60.	Edge Detection Algorithm for Enhancement of Linear Back Projection Tomographic Images	Jurnal Teknologi	2180 3722	69	8	31-34	2014	-	Journal	SCOPUS Indexed Journal	-	Co-Author
61.	Comparison Between Characteristics of Creativity in Physics Practical Work and Physics Innovative Project Among Pre-service Physics Teacher	Jurnal Teknologi	2180 3722	63	2	85-89	2013	-	Journal	SCOPUS Indexed Journal	-	UTM First Author
62.	Preferred Communication Channels to Foster Energy Conservation Behaviour among Public Office Building Users: A Study in Kota Iskandar	Jurnal Teknologi	2180 3722	64	1	77-84	2013	-	Journal	SCOPUS Indexed Journal	-	Co-Author
63.	Study on Single Plane Ultrasonic and Electrical Capacitance Sensor for Process Tomography System	Sensors and Transducers	1726 5479	150	3	40-45	2013	-	Journal	SCOPUS Indexed Journal	-	Co-Author
64.	A Novel Electrical Capacitance Sensor Design For Dual Modality Tomography Multiphase Measurement	Jurnal Teknologi	2180 3722	64	5	45-47	2013	-	Journal	SCOPUS Indexed Journal	-	Co-Author
65.	Ultrasonic Tomography Imaging for Liquid-Gas Flow Measurement	Sensors and Transducers	1726 5479	148	1	33-39	2013	-	Journal	SCOPUS Indexed Journal	-	Co-Author
66.	Patterns of Physics Problem-solving and Metacognition among Secondary School Students: A Comparative Study between the UK and Malaysian Cases	International Journal of Interdisciplinary Social Sciences	1833 1882	5	8	309 - 324	2010	-	Journal	SCOPUS Indexed Journal	-	Corresponding Author
67.	Inquiry-Based Learning Model for Teaching the	International Journal of Academic	2226 6348	13	4	225 2-	2024	-	Journal	ERA Indexed Journal	-	UTM First Author

No.	Article Title	Journal Title	ISS N	Vol.	No.	Pg.	Pub. year	IF	Type of Pub.	Categor y of Pub.	Quartile Ranking	Category Author
	Concept of Force in Malaysian Matriculation Colleges	Research in Progressive Education and Development				2260						
68.	Empowering Student with Drone: A DDR Approach to Expanding the Physics Body of Knowledge and Enhancing STEM Education	International Journal of Academic Research in Progressive Education and Development	2226 6348	13	4	199 5-200 7	2024	-	Journal	ERA Indexed Journal	-	UTM First Author
69.	Multimodal Inquiry Learning Framework in Meaning-Making of the Concept of Force	International Journal of Academic Research in Business and Social Sciences	2222 - 6990	13	1	961 - 967	2023	-	Journal	ERA Indexed Journal	-	UTM First Author
70.	Perkembangan Dan Corak Penyelidikan Kompetensi Pengajaran Guru Fizik: Analisis Bibliometrik	International Journal of Education, Psychology and Counselling	0128 - 164 X	9	53	174 - 190	2024	-	Journal	Non-Indexed Journal	-	UTM First Author
71.	The Effect of the Virtual Laboratory Method on the Conceptual Understanding of Thermal Physics among Undergraduates	International Journal of Advanced Research in Future Ready Learning and Education	2462 - 1951	34	1	124 - 130	2024	-	Journal	Non-Indexed Journal	-	Correspon ding Author
72.	Exploring Science Teachers' Perspectives on Steam Learning	International Journal of Advanced Research in Future Ready Learning and Education	2462 - 1951	34	1	131 - 142	2024	-	Journal	Non-Indexed Journal	-	UTM First Author
73.	Critical Thinking and Teaching Conception of Nigerian Physics Teachersin Inquiry-Based Learning Classroom	International Journal of Advanced Research in Future Ready Learning and Education	2462 - 1951	34	1	77- 92	2024	-	Journal	Non-Indexed Journal	-	UTM First Author
74.	Trend of Engineering Education Research among ASEAN Engineering Faculty Members	International Research Journal on Innovations in Engineering, Science and Technology	0115 - 8228	9	-	1-5	2024	-	Journal	Non-Indexed Journal	-	Correspon ding Author
75.	Developing Theoretical Framework for Evaluation of Engineering Education in Sub-	International Journal of Advanced Research in Future Ready	2462 - 1951	35	1	52- 74	2024	-	Journal	Non-Indexed Journal	-	Co-Author

No.	Article Title	Journal Title	ISS N	Vol.	No.	Pg.	Pub. year	IF	Type of Pub.	Categor y of Pub.	Quartile Ranking	Category Author
	Saharan African Countries	Learning and Education										
76.	Drone Technology in Education: A Bibliometric Analysis	International Journal of Education, Psychology and Counselling	0128 - 164 X	9	55	576 - 591	2024	-	Journal	Non-Indexed Journal	-	UTM First Author
77.	A Scaffolding Framework Using Mind Maps and Metacomponents to Improve Real-World Physics Problem-Solving Skills	Bitara International Journal of Civilizational Studies and Human Sciences	2600 9080	7	4	29-39	2024	-	Journal	Non-Indexed Journal	-	UTM First Author
78.	Design and Development an Oral Questioning (P-Lisan) Model: A Need Analysis	International Journal of Education, Psychology and Counselling	0128 - 164 X	9	55	868 - 877	2024	-	Journal	Non-Indexed Journal	-	UTM First Author
79.	Tahap Kefahaman Konsep Daya Dan Kerangka Alternatif Pelajar Matrikulasi Melalui Ujian Penilaian Konsep Daya	Jurnal Pendidikan Bitara UPSI	2821 - 3173	16	1	54-66	2023	-	Journal	Non-Indexed Journal	-	Correspon ding Author
80.	Electrical Impedance Tomography Signal Conditioning for Lung Imaging Applications	Journal of Human Centered Technology	2821 - 3467	2	2	78-87	2023	-	Journal	Non-Indexed Journal	-	Co-Author
81.	Keberkesanan Modul Kreatif Fizik Berasaskan Projek Robotik Dalam Meningkatkan Tahap Kreativiti Saintifik Pelajar	Innovative Teaching and Learning Journal	2600 - 8572	7	1	12-27	2023	-	Journal	Non-Indexed Journal	-	Co-Author
82.	Kajian Tinjauan Trait Profesionalisme Mahasiswa Pendidikan Universiti Awam	Sains Humanika	2289 - 6996	15	2	1-13	2023	-	Journal	Non-Indexed Journal	-	Co-Author
83.	Keberkesanan Penggunaan Inovasi Top Assistant Dalam Mempelajari Perakaunan Di Kolej Vokasional	Innovative Teaching And Learning Journal	2600 8572	6	1	61-71	2022	-	Journal	Non-Indexed Journal	-	UTM First Author
84.	Pengaruh Pemilihan Aliran Dengan Minat, Sikap Dan Persepsi Pelajar Tingkatan Tiga	Sains Humanika	2289 - 6996	13	3	61-69	2021	-	Journal	Non-Indexed Journal	-	Co-Author

No.	Article Title	Journal Title	ISS N	Vol.	No.	Pg.	Pub. year	IF	Type of Pub.	Categor y of Pub.	Quartile Ranking	Category Author
	Terhadap Mata Pelajaran Fizik											
85.	Tahap Kesedaran Metakognitif Guru Fizik Johor Bahru	Jurnal Pendidikan Sains Dan Matematik Malaysia	2232 0393	11	2	95-109	2021	-	Journal	Non-Indexed Journal	-	UTM First Author
86.	Teaching Conceptions of Inquiry-based Learning among Nigerian Secondary School Physics Teachers	International Journal of Psychosocial Rehabilitation	1475 7192	24	5	547 5-548 2	2020	-	Journal	Non-Indexed Journal	-	UTM First Author
87.	Transformation of Multiple Representations in Understanding Real-World Physics Problems	International Journal of Psychosocial Rehabilitation	1475 7192	24	5	541 3-542 5	2020	-	Journal	Non-Indexed Journal	-	Correspon ding Author
88.	The Reliability Analysis for Force Concept Inventory	International Journal of Psychosocial Rehabilitation	1475 7192	24	5	143 - 151	2020	-	Journal	Non-Indexed Journal	-	UTM First Author
89.	Critical Thinking Skills of Physics Teachers for Inquiry Based Learning Practices	International Journal of Psychosocial Rehabilitation	1475 7192	24	5	486 - 496	2020	-	Journal	Non-Indexed Journal	-	Correspon ding Author
90.	Comparing Reflective Teaching Skills of Experienced and Inexperienced Physics Teachers at Different Reflection Levels	International Journal of Physics & Chemistry Education	2589 - 8876	12	1	9-17	2020	-	Journal	Non-Indexed Journal	-	UTM First Author
91.	Current Density - Mini Pencil Emergency Light	Journal of Tomography System & Sensor Application (TSSA)	2636 9133	3	2	60-64	2020	-	Journal	Non-Indexed Journal	-	Co-Author
92.	TIMSS 2019 Science Grade 8: Where is Malaysia Standing?	ASEAN Journal of Engineering Education	2586 9159	4	2	37-43	2020	-	Journal	Non-Indexed Journal	-	Correspon ding Author
93.	Improvement of Non-Electrical Engineering Student Knowledge Content and Motivation to Learnt Electronic Circuit and System through Implementation of Hands on Learning	ASEAN Journal of Teaching And Learning In Higher Education (AJTLHE)	1985 5826	12	1	22-30	2020	-	Journal	Non-Indexed Journal	-	Co-Author

No.	Article Title	Journal Title	ISS N	Vol.	No.	Pg.	Pub. year	IF	Type of Pub.	Categor y of Pub.	Quartile Ranking	Category Author
94.	Impact of multi-disciplinary international engineering service learning in instilling global engineer attributes among undergraduates	ASEAN Journal of Engineering Education	2586 9159	3	9	96-108	2019	-	Journal	Non-Indexed Journal	-	Co-Author
95.	Visual Signal Device (VSD) For Deaf Sports Athletics Malaysia	Journal of Tomography System & Sensors Application	2636 9133	2	2	55-58	2019	-	Journal	Non-Indexed Journal	-	Co-Author
96.	Relationship between Dimension Metacognition and Students' Ability Level in Physics Problems Solving Involving the Use of Free-Body Diagram	The International Journal of Humanities & Social Studies	2321 - 9203	6	7	252 - 257	2018	-	Journal	Non-Indexed Journal	-	UTM First Author
97.	An Overview of Ultrasound Testing for Lesion Detection in Human Kidney	Journal of Tomography System & Sensor Application (TSSA)	2636 9133	1	1	29-34	2018	-	Journal	Non-Indexed Journal	-	Co-Author
98.	Pembelajaran Aktif dalam Topik Haba	Buletin Persatuan Pendidikan Sains dan Matematik Johor	0128 - 4290	27	1	32-40	2018	-	Journal	Non-Indexed Journal	-	UTM First Author
99.	Students' Perception toward Mobile Computerbased Physics Laboratory (MCPL)	Sains Humanika	2289 6996	9	1-4	15-19	2017	-	Journal	Non-Indexed Journal	-	Correspon ding Author
100.	Kesan Pembelajaran Kooperatif terhadap Kemahiran Berfikir Aras Tinggi (KBAT) dalam Topik Daya dan Gerakan	Malaysian Journal of Higher Order Thinking Skills in Education	2462 - 2397	2	1	78-102	2017	-	Journal	Non-Indexed Journal	-	UTM First Author
101.	Pola Penyelesaian Masalah Fizik dalam kalangan Pelajar Sekolah Menengah di Pasir Gudang.	Malaysian Journal of Higher Order Thinking Skills in Education	2462 - 2397	2		103 - 121	2017	-	Journal	Non-Indexed Journal	-	UTM First Author
102.	Kemahiran Berfikir Secara Kritis dan Pencapaian Fizik Pelajar Sekolah Luar Bandar dan Bandar di Johor Bahru	Buletin Persatuan Pendidikan Sains dan Matematik Johor	0128 - 4290	27	1	2-13	2017	-	Journal	Non-Indexed Journal	-	Correspon ding Author

No.	Article Title	Journal Title	ISS N	Vol.	No.	Pg.	Pub. year	IF	Type of Pub.	Categor y of Pub.	Quartile Ranking	Category Author
103.	Conducting Non-Participant Observation as a Method for Data Collection	Jurnal Pendidikan Nusantara	2745 - 8342	Apr	2016	192 - 203	2016	-	Journal	Non-Indexed Journal	-	Correspon ding Author
104.	Pembelajaran Sains Secara Tidak Formal Melalui Lawatan Ke Pusat Sains.	Jurnal Pendidikan Nusantara	2745 - 8342	Jun	2016	211 - 222	2016	-	Journal	Non-Indexed Journal	-	Correspon ding Author
105.	The Effectiveness of Physics Learning Module in Inculcating Higher Order Thinking Skills (HOTS)	Malaysian Journal of Higher Order Thinking Skills in Education	2462 - 2397	2		1- 18	2016	-	Journal	Non-Indexed Journal	-	Correspon ding Author
106.	The Effect of Mobile Computer-Based Laboratory (MCPL) on Students' Higher Order Thinking Skills in Learning Forces and Motion	Malaysian Journal of Higher Order Thinking Skills in Education	2462 - 2397	2		55- 75	2016	-	Journal	Non-Indexed Journal	-	Correspon ding Author
107.	The Mobile Science Laboratory (MSL): A Systematic Review	Buletin Persatuan Pendidikan Sains dan Matematik Johor	0128 - 4290	26	1	30- 38	2016	-	Journal	Non-Indexed Journal	-	Correspon ding Author
108.	A Successful Model to Inculcate Low Carbon Awareness among School Students and Teachers	Journal of Advanced Research Design	2289 - 7984	12	1	21- 34	2015	-	Journal	Non-Indexed Journal	-	Correspon ding Author
109.	The development and establishment of the Centre for Engineering Education (CEE) Universiti Teknologi Malaysia	Engineering Education Letters	2310 - 516 X	6		1- 18	2015	-	Journal	Non-Indexed Journal	-	Correspon ding Author
110.	Future Directions in Engineering Education: Educating Engineers of the 21st Century	ASEAN Journal of Engineering Education	2586 9159	2	1	8- 13	2015	-	Journal	Non-Indexed Journal	-	Correspon ding Author
111.	Faktor Penyumbang Kepada Kemerosotan Penyertaan Pelajar Dalam Aliran Sains: Satu Analisis Sorotan Tesis	Sains Humanika	2289 6996	2	4	63- 71	2014	-	Journal	Non-Indexed Journal	-	Correspon ding Author
112.	Iskandar Malaysia Ecolife Challenge 2013: Modul Alam Sekitar Melalui	Buletin Persatuan Pendidikan Sains dan	0128 - 4290	24		13- 18	2014	-	Journal	Non-Indexed Journal	-	Correspon ding Author

No.	Article Title	Journal Title	ISS N	Vol.	No.	Pg.	Pub. year	IF	Type of Pub.	Categor y of Pub.	Quartile Ranking	Category Author
	Mata Pelajaran Sains Darjah Enam	Matematik Johor										
113.	Exploration of Images Stimulation in Raising Energy Awareness and Fostering Energy Conservation Behaviour	International Journal of Real Estate Studies	2231 - 7643	8	1	43-49	2013	-	Journal	Non-Indexed Journal	-	Co-Author
114.	Pola Penyelesaian Masalah Fizik Dalam Kalangan Pelajar Sekolah Menengah	Buletin Persatuan Pendidikan Sains dan Matematik Johor	0128 - 4290	23	1	1-8	2013	-	Journal	Non-Indexed Journal	-	UTM First Author
115.	Collaborative Efforts in Developing the PhD in Engineering Education Program in UTM	ASEAN Journal of Engineering Education	2586 9159	1	1	54-57	2012	-	Journal	Non-Indexed Journal	-	UTM First Author
116.	Perbandingan Pola Penyelesaian Masalah Fizik dan Metakognisi Pelajar Sekolah Menengah England dan Malaysia	Jurnal Pendidikan Universiti Teknologi Malaysia	1394 - 1801	15		80-89	2011	-	Journal	Non-Indexed Journal	-	Correspon ding Author
117.	Pengajaran Sains dengan Praktikum Laboratorium: Perspektif dari Guru-guru Sains SMPN di Kota Cimahi	Jurnal Pengajaran MIPA	1412 - 0917	15	2	120 - 127	2010	-	Journal	Non-Indexed Journal	-	Co-Author
118.	Penguasaan Konsep Keapungan dalam kalangan Bakal Guru Fizik	Buletin Persatuan Pendidikan Sains dan Matematik Johor	0128 - 4290	20	1	1-9	2010	-	Journal	Non-Indexed Journal	-	Co-Author
119.	Implikasi Pemansuhan PPSMI Terhadap Pengajaran & Pembelajaran di IPTA	Buletin Persatuan Pendidikan Sains dan Matematik Johor	0128 - 4290	19	1	75-83	2009	-	Journal	Non-Indexed Journal	-	Individual Author
120.	The scientific inquiry in the standard of primary science curriculum in China – the intended and the reality	Journal of Cambridge Studies	1747 - 5392	3	1	6-12	2008	-	Journal	Non-Indexed Journal	-	Correspon ding Author
121.	The patterns of Physics problem solving in the topic of linear movement analysis across gender and ethnics groups among the	Bulletin of the Johor Association of Science and Mathematics Education	0128 - 4290	13	1	14-30	2004	-	Journal	Non-Indexed Journal	-	Correspon ding Author

No.	Article Title	Journal Title	ISS N	Vol.	No.	Pg.	Pub. year	IF	Type of Pub.	Categor y of Pub.	Quartile Ranking	Category Author
	Form 4 science students											
122.	Metacognitive skills in assisting Physics problem solving among the Form 4 science students: A pilot testing	Bulletin of the Johor Association of Science and Mathematics Education	0128 - 4290	13	1	41-52	2004	-	Journal	Non-Indexed Journal	-	Correspon ding Author

Other Publication

NO.	TYPE	TITLE	YEAR	CATEGORY AUTHOR
1.	Indexed Proceeding / Conference	Smart Electronic Health Monitoring System (SEHMOS) (SCOPUS)	2024	Co-Author
2.	Indexed Proceeding / Conference	Automated Smart Dustbin (AUDUST) Concept Design for Sport Arena (SCOPUS)	2024	Co-Author
3.	Indexed Proceeding / Conference	A Basic Optical Lidar-Based FPV Drone Sport Configuration (SCOPUS)	2024	Co-Author
4.	Indexed Proceeding / Conference	Taekwondo Combat Sports Wireless Scoring System (WSS) (SCOPUS)	2024	Co-Author
5.	Indexed Proceeding / Conference	An Augmented Reality-Based Science Book for Junior High School Students: Case Study on Environmental Pollution And Global Warming Topics (SCOPUS)	2023	Corresponding Author
6.	Indexed Proceeding / Conference	Challenges In Implementing Inquiry-Based Learning (IBL) In Physics Classroom (SCOPUS)	2023	UTM First Author
7.	Indexed Proceeding / Conference	21st Century Engineering Learning and Teaching: Malaysia Perspective and Direction (SCOPUS)	2022	Co-Author
8.	Indexed Proceeding / Conference	Success Factors in Developing Metacognitive Skills among Engineering Students (SCOPUS)	2022	Co-Author
9.	Indexed Proceeding / Conference	Maintaining the Quality of the Master's Degree Programme in Physics Education at Universiti Teknologi Malaysia (SCOPUS)	2022	Co-Author
10.	Indexed Proceeding / Conference	Discovery of Multiple Representation Created by Secondary School Students in Real-World Problem Solving (SCOPUS)	2022	UTM First Author
11.	Indexed Proceeding / Conference	Relationships Between Teaching Conceptions and Critical Thinking of Inquiry-Based Nigerian Physics Teachers (SCOPUS)	2022	UTM First Author
12.	Indexed Proceeding / Conference	Drone Technology for Primary School Students in Learning STEM (SCOPUS)	2022	Corresponding Author
13.	Indexed Proceeding / Conference	Exploring Student Perception on the Implementation of Collaborative Learning in Electronic Circuit and System Course (SCOPUS)	2022	Co-Author
14.	Indexed Proceeding / Conference	Service Learning Implementation: Empowering Engineering Students via Drone Tech for EDU-4IR Program (SCOPUS)	2022	Co-Author
15.	Indexed Proceeding / Conference	Exploring Metacognitive Skills among Engineering Students through Global Project-Based Learning	2022	Co-Author

16.	Indexed Proceeding / Conference	Transformation of multiple representation in real world physics problem solving (ISI)	2021	UTM First Author
17.	Indexed Proceeding / Conference	The implementation of PjBL-STEM model to improve eight graders' scientific literacy (SCOPUS)	2020	UTM First Author
18.	Indexed Proceeding / Conference	Finite element approach using electrical tomography for bioassay application (ISI)	2019	Co-Author
19.	Indexed Proceeding / Conference	Ultrasound Tomography Hardware System for Multiphase Flow Imaging (ISI)	2019	Co-Author
20.	Indexed Proceeding / Conference	Cooperative Problem-Based Learning: How Does It Foster Metacognitive Skills (ISI & SCOPUS)	2019	UTM First Author
21.	Indexed Proceeding / Conference	Portable Electrical Capacitance Tomography Device for Teaching and Learning of Engineering Instrumentation in Electrical Engineering Laboratory (ISI & SCOPUS)	2018	Co-Author
22.	Indexed Proceeding / Conference	Cooperative Problem-Based Learning to Develop 21st Century Skills among Secondary School Students through STEM Education (ISI & SCOPUS)	2018	Corresponding Author
23.	Indexed Proceeding / Conference	Physics Practical Works using Microcomputer-Based Learning through Mobile Science Laboratory (ISI & SCOPUS)	2017	UTM First Author
24.	Indexed Proceeding / Conference	Metacognitive Development In Engineering Students Through Cooperative Problem Based Learning (CPBL) (ISI & SCOPUS)	2018	Co-Author
25.	Indexed Proceeding / Conference	Impact of Effective Assessment towards Students' Motivation in Computer Programming Course (ISI & SCOPUS)	2018	Co-Author
26.	Indexed Proceeding / Conference	Enrichment of Problem Solving Skills Among Engineering Students through Cooperative Problem Based Learning (ISI & SCOPUS)	2018	Co-Author
27.	Indexed Proceeding / Conference	Determining the Effect of an Engineering Overview Assignment on Students (ISI)	2014	Co-Author
28.	Indexed Proceeding / Conference	Assessing and Improving Reflective Thinking of Experienced and Inexperienced Teachers (ISI)	2014	UTM First Author
29.	Indexed Proceeding / Conference	Measuring Teachers Reflective Thinking Skills (ISI)	2014	UTM First Author
30.	Indexed Proceeding / Conference	Postgraduate Supervision: Supervisors versus Students. 2014 International Conference on Teaching and Learning in Computing and Engineering (ISI & SCOPUS)	2014	Corresponding Author
31.	Indexed Proceeding / Conference	Engineering Elements in School Science and Mathematics (SCOPUS)	2013	Corresponding Author
32.	Indexed Proceeding / Conference	Malaysian Engineering Students' Perception on Industrial Training (SCOPUS)	2013	Corresponding Author
33.	Indexed Proceeding / Conference	Taking the "Guess-work" Out of Engineering Education: Establishing the Virtuous Cycle of Research (ISI)	2013	Corresponding Author
34.	Indexed Proceeding / Conference	Preliminary Study to Determine the Current Status of Engineering Programmes at the Malaysian Public Universities (ISI)	2013	Corresponding Author
35.	Indexed Proceeding / Conference	Engineering Elements between First Year and Final Year Engineering Students in Malaysia (ISI)	2013	Corresponding Author

36.	Indexed Proceeding / Conference	Scientific Skills among Pre-Service Science Teachers at Universiti Teknologi Malaysia (ISI)	2013	Corresponding Author
37.	Indexed Proceeding / Conference	Mastery Goals, Performance Goals, Students' Beliefs and Academic Success: Metacognition as a Mediator (ISI)	2013	UTM First Author
38.	Indexed Proceeding / Conference	Physics Studies and Graduate Attributes (ISI)	2013	UTM First Author
39.	Indexed Proceeding / Conference	Technological Pedagogical and Content Knowledge among Undergraduate Education Degree Students at Universiti Teknologi Malaysia (ISI)	2013	UTM First Author
40.	Indexed Proceeding / Conference	Student Perceptions Change in a Chemical Engineering Class Using Cooperative Problem-Based Learning (CPBL) (ISI)	2013	UTM First Author
41.	Indexed Proceeding / Conference	Creating a Constructively Aligned Learning Environment using Cooperative Problem-based Learning (CPBL) for a Typical Course (ISI)	2013	Co-Author
42.	Indexed Proceeding / Conference	Are Math-Oriented Critical Thinking Elements in Civil Engineering Workplace Problems Significant?: Insights from Preliminary Data and Analysis (ISI)	2013	Co-Author
43.	Indexed Proceeding / Conference	Engineering Educators' Perception on Changing Teaching Approach (SCOPUS)	2013	Co-Author
44.	Indexed Proceeding / Conference	Inculcating Team-based Problem Solving Skills, Part 1: Enhancing Problem Solving Elements (SCOPUS)	2013	Co-Author
45.	Indexed Proceeding / Conference	Inculcating Team-based Problem Solving Skills, Part 2: Enhancing Team Working Skills (SCOPUS)	2013	Co-Author
46.	Indexed Proceeding / Conference	Engineering Students' Perception on Learning through CPBL for the First Time (ISI)	2012	Corresponding Author
47.	Indexed Proceeding / Conference	Persistent Gender Inequity in U.S. Undergraduate Engineering: Looking to Jordan and Malaysia for Factors to their Success in Achieving Gender Parity (SCOPUS)	2012	UTM First Author
48.	Indexed Proceeding / Conference	Engineering Elements Profile among First- and Final-Year Engineering Students in Malaysia (SCOPUS)	2011	Corresponding Author
49.	Non-Indexed Proceeding / Conference	Inculcating Food Insecurity Empathy among University Students via Service-Learning: The Free-Meal By Bunga Lawang Project	2024	Co-Author
50.	Non-Indexed Proceeding / Conference	The Alternative Frameworks of Force Concept among Matriculation College Students	2023	UTM First Author
51.	Non-Indexed Proceeding / Conference	Transforming School Innovation Competition to Empower Holistic Graduates for Cultivating Young Innovative Sustainability Advocates	2023	Co-Author
52.	Non-Indexed Proceeding / Conference	Examining Epistemic Cognition During Teaching Experience among Malaysian Pre-Service Teachers: Work in Progress	2023	Co-Author
53.	Non-Indexed Proceeding / Conference	Supporting Engineering Student Learning through Collaborative Assignment Hands-On Simulation	2023	Co-Author
54.	Non-Indexed Proceeding / Conference	Issues Facing Engineering Education in Sudan	2022	Co-Author

55.	Non-Indexed Proceeding / Conference	Iskandar Puteri Rendah Karbon: Build Agile Community of Practice from Within Through Strategic Synergization	2022	Co-Author
56.	Non-Indexed Proceeding / Conference	Driving Learning Innovation through Drone for Edu Challenge 4IR	2022	Co-Author
57.	Non-Indexed Proceeding / Conference	Tackling Climate Change by Advancing the Environmental Education Technology Integration via Iskandar Malaysia Ecolife Challenge	2022	Co-Author
58.	Non-Indexed Proceeding / Conference	Active Learning Activity in Electronic Circuit and System Course	2021	Co-Author
59.	Non-Indexed Proceeding / Conference	Strategy to Implement Cooperative Learning in Asynchronous Online Classes Using E-Learning Platform	2021	Co-Author
60.	Non-Indexed Proceeding / Conference	Hands-On Demonstration in Electronic System Course Remote Teaching Class	2021	Co-Author
61.	Non-Indexed Proceeding / Conference	Drone for Edu Challenge 4IR: The Quantum Leap for STEM Talent Pool	2021	Co-Author
62.	Non-Indexed Proceeding / Conference	Memacu Masa Depan STEM Malaysia Melalui Pesntrukturan Kurikulum Pendidikan Fizik Yang Dimanik Dan Inklusif	2021	Co-Author
63.	Non-Indexed Proceeding / Conference	Establishing Climate Changemaker Community through Iskandar Malaysia Ecolife Challenge	2021	Co-Author
64.	Non-Indexed Proceeding / Conference	The Power of Avengers in Chemical Process Design Heuristics	2020	Co-Author
65.	Non-Indexed Proceeding / Conference	Design of Asynchronous Active Learning Class Using Bookend Approach in Moodle Lesson Activity	2020	Co-Author
66.	Non-Indexed Proceeding / Conference	New Paradigm on Schools Co-Curricular via Drone for Edu Challenge 4IR	2020	Co-Author
67.	Non-Indexed Proceeding / Conference	Reinvigorate Low Carbon Education & Awareness via Iskandar Malaysia Ecolife Challenge (IMELC) 2020 Breakthrough	2020	Co-Author
68.	Non-Indexed Proceeding / Conference	Kursus Pengurusan Jenazah Online (KUPJO)	2020	Co-Author
69.	Non-Indexed Proceeding / Conference	Pembelajaran Interaktif Berasaskan Buku Infografik	2020	Co-Author
70.	Non-Indexed Proceeding / Conference	Pembelajaran Interaktif Berasaskan Buku Infografik Tentang Kesedaran Kanak-Kanak Terhadap Kepentingan Menjaga Kebersihan Sungai	2020	Co-Author
71.	Non-Indexed Proceeding / Conference	Service Learning to Enhance Graduate Attributes and Perception towards Science; Jelajah Sains Siri Hijau	2020	Co-Author

72.	Non-Indexed Proceeding / Conference	Program Pendidikan Kimia: Pembelajaran Abad Ke 21 Dan Revolusi Perindustrian Keempat	2020	Co-Author
73.	Non-Indexed Proceeding / Conference	Perbandingan Program Sarjana Pendidikan Campuran Di Beberapa Universiti Awam Malaysia	2020	Co-Author
74.	Non-Indexed Proceeding / Conference	Edu-Muallaf: Platform Atas Talian Pembelajaran Asas Fardhu Ain bagi Saudara Kita di Johor	2019	Corresponding Author
75.	Non-Indexed Proceeding / Conference	Exploring the epistemic equity among physics teachers' agency to support inclusivity in learning	2019	Co-Author
76.	Non-Indexed Proceeding / Conference	Reasons for Students to Continue Study Physics	2019	Corresponding Author
77.	Non-Indexed Proceeding / Conference	Modeling Educational Background and Teaching Experienced of Physics Teachers with the Nature of Science (NOS) Understanding	2019	Co-Author
78.	Non-Indexed Proceeding / Conference	Applying Multiple Representations in Physics Problem Solving	2019	UTM First Author
79.	Non-Indexed Proceeding / Conference	Developing Metacognitive Skills Using CPBL: Crucial Elements in Developing 21st Century Skills	2019	Co-Author
80.	Non-Indexed Proceeding / Conference	Developing the 21st Century Skills through STEM Education using Cooperative Problem-Based Learning among School Students	2019	Co-Author
81.	Non-Indexed Proceeding / Conference	The Framework of Mobile Computer-based Physics Laboraroty (MCPL) on Teaching and Learning Forces and Motion for Secondary Schools	2019	UTM First Author
82.	Non-Indexed Proceeding / Conference	Crafting STEM Problems for Problem-Based Learning Classes	2019	UTM First Author
83.	Non-Indexed Proceeding / Conference	UTM Engineering Service Learning Program to Address 21st Century Curriculum for Enhancing Collaborative Skills among Multidiscipline Undergraduates	2019	Co-Author
84.	Non-Indexed Proceeding / Conference	"Jelajah Sains" Program to Enchance Science Learning through Informal Science Learning	2019	Co-Author
85.	Non-Indexed Proceeding / Conference	Kepentingan Metakognitif untuk Kecemerlangan Pelajar Abad Ke-21	2019	Co-Author
86.	Non-Indexed Proceeding / Conference	Disseminating Low Carbon Society Awareness to School Teachers through Iskandar Malaysia Ecolife Challenge	2017	Corresponding Author
87.	Non-Indexed Proceeding / Conference	What are Complex Engineering Problems in the Eyes of Engineering Lecturers?	2016	Corresponding Author
88.	Non-Indexed Proceeding / Conference	Impact of an Introduction to Engineering Course on First Year Students' View on Engineering	2016	Co-Author

89.	Non-Indexed Proceeding / Conference	Engineering Undergraduates' Motivation towards Learning Computer Programming	2016	Co-Author
90.	Non-Indexed Proceeding / Conference	Instilling Global Attributes Among Engineering Undergraduates Through A Community-Based Service Learning	2016	Co-Author
91.	Non-Indexed Proceeding / Conference	Towards Low Carbon Society in Iskandar Malaysia: Implementation and Feasibility of Community Food Waste Composting	2015	Co-Author
92.	Non-Indexed Proceeding / Conference	Designing a Reflection Tool for Evaluation of Student's Learning Experiences from Global Engineering Service Learning	2015	Co-Author
93.	Non-Indexed Proceeding / Conference	Qualitative Assessment of Student's Learning Outcomes of a Global Engineering Service Learning Program - Creativity Station 2015	2015	Co-Author
94.	Non-Indexed Proceeding / Conference	Instilling Global Attributes through a Community Based Engineering Service Learning Program	2015	Co-Author
95.	Non-Indexed Proceeding / Conference	Enhancing Education for Sustainable Development through Iskandar Malaysia Ecolife Challenge in RCE Iskandar	2015	Corresponding Author
96.	Non-Indexed Proceeding / Conference	Iskandar Malaysia Children's Eco-Life Challenge 2014	2014	Corresponding Author
97.	Non-Indexed Proceeding / Conference	Iskandar Malaysia Challenge to be Low Carbon Society Eco-Life Challenge education program from Japan to Malaysia	2014	Corresponding Author
98.	Non-Indexed Proceeding / Conference	Across Majors, Across Borders: Inculcating Global Skills of Engineering Students through Engineering Service Learning Program	2014	Co-Author
99.	Non-Indexed Proceeding / Conference	Iskandar Malaysia Eco-Life Challenge Promotes Low Carbon Awareness among Primary School Students	2014	Corresponding Author
100.	Non-Indexed Proceeding / Conference	The perceptions of Engineering Students on Industrial Training in Malaysia	2013	Corresponding Author
101.	Non-Indexed Proceeding / Conference	How to develop engineering students' problem solving skills using Cooperative Problem Based Learning (CPBL)	2013	Co-Author
102.	Non-Indexed Proceeding / Conference	Kajian Senario Latihan Industri / Praktikum di Institut Pengajian Tinggi di Malaysia	2013	Co-Author
103.	Non-Indexed Proceeding / Conference	Development of Profession Skills through CPBL among First Year Engineering Students	2013	Co-Author
104.	Non-Indexed Proceeding / Conference	Motivation and Learning Strategies: Promising Outcomes of Cooperative Problem-based Learning	2013	Co-Author
105.	Non-Indexed Proceeding / Conference	Inculcating Sustainable Development among Engineering Students, Part 1: Designing Problems and Learning Environments with Impact	2013	Co-Author

106.	Non-Indexed Proceeding / Conference	Aplikasi Konsep Fizik Dalam Menyelesaikan Masalah Yang Berasaskan STEM Bagi Pelajar Tingkatan Enam Atas	2013	Corresponding Author
107.	Non-Indexed Proceeding / Conference	Amalan Pengetahuan Teknologi Pedagogi Kandungan Guru Fizik Tingkatan Enam	2013	Corresponding Author
108.	Non-Indexed Proceeding / Conference	Pemindahan Pembelajaran Antara Konsep Dan Aplikasi Keseimbangan Daya Serta Aplikasi Trigonometri	2013	Corresponding Author
109.	Non-Indexed Proceeding / Conference	Promoting Scientific and Technological Literacy among the Postgraduate Students at Faculty of Education UTM	2013	Co-Author
110.	Non-Indexed Proceeding / Conference	Revisiting and Relating Learners' Epistemological Beliefs Models	2013	Corresponding Author
111.	Non-Indexed Proceeding / Conference	The Importance of Reflective Thinking Skills for Physics Teachers	2013	Corresponding Author
112.	Non-Indexed Proceeding / Conference	Ciri-Ciri Kreativiti Bakal Guru Fizik Semasa Menjalankan Dua Aktiviti Pembelajaran Fizik Berasaskan Amali	2013	Corresponding Author
113.	Non-Indexed Proceeding / Conference	Acoustic Wave Finite Element Analysis Study For Ultrasonic Tomography	2013	Co-Author
114.	Non-Indexed Proceeding / Conference	Collaborative Efforts in Developing the PhD in Engineering Education Program in UTM	2012	Co-Author
115.	Non-Indexed Proceeding / Conference	Pengajaran Free-Body Diagram (FBD) Dalam Menyelesaikan Masalah Tajuk Daya Tingkatan Empat	2012	Corresponding Author
116.	Non-Indexed Proceeding / Conference	Technological Pedagogical Content Knowledge among Pre-Service Physics Teachers at Universiti Teknologi Malaysia	2011	Co-Author
117.	Non-Indexed Proceeding / Conference	The Effectiveness of Cooperative Problem-Based Learning (CPBL) Towards Lecturer's Conducts	2011	Co-Author
118.	Non-Indexed Proceeding / Conference	Level of Awareness on Low Carbon Society Concept among Secondary School Students	2011	Co-Author
119.	Non-Indexed Proceeding / Conference	Konsepsi Alternatif bagi Topik Prinsip Archimedes dalam Kalangan Bakal Guru Fizik Universiti Teknologi Malaysia	2011	Corresponding Author
120.	Non-Indexed Proceeding / Conference	Penguasaan Kemahiran Proses Sains Bersepadu dalam Ujian Amali dan Bertulis Fizik Tingkatan 4	2010	Co-Author
121.	Non-Indexed Proceeding / Conference	Penilaian Mata Pelajaran Sains Gunaan (Applied Science) bagi Bidang Fizik kepada Pelajar Aliran Vokasional di Sekolah Menengah Vokasional	2010	Co-Author
122.	Non-Indexed Proceeding / Conference	Graduate's Generic Attributes Through UTM Physics Education	2010	Co-Author

123.	Non-Indexed Proceeding / Conference	Pembinaan Ujian Diagnostik bagi Mengesan Kesalahan Pelajar dalam Tajuk Graf Gerakan Linear	2010	Co-Author
124.	Non-Indexed Proceeding / Conference	Patterns of Physics problem-solving among secondary school students – a metacognitive perspective	2009	Individual Author
125.	Book Chapter	Smart Thermometer	2024	Co-Author
126.	Book Chapter	A Simple DIY Punching Bag for Sports Martial Art Training	2024	Co-Author
127.	Book Chapter	Health Oxy-Pulse Digital Electronic Simulation Using Quartus Prime Software	2023	Co-Author
128.	Book Chapter	Basic Combinational Logic Gate for Toddlers Fever Alarm	2023	Co-Author
129.	Book Chapter	Smart Clinical Waste Bin	2023	Co-Author
130.	Book Chapter	DIY Lifemed (Pulse Oximeter)	2023	Co-Author
131.	Book Chapter	Temperature Sensor and Regulator for Premature Birth Babies	2022	Co-Author
132.	Book Chapter	Inductive Mechcharger: Mechanical Phone Charging Dock Using Faraday's Law	2022	Co-Author
133.	Book Chapter	Medicine Sorting and Storage System for Alzheimer's Patients	2022	Co-Author
134.	Book Chapter	Dangerous Drug Smart Lock Cupboard	2022	Co-Author
135.	Book Chapter	Smart Blind Stick	2022	Co-Author
136.	Book Chapter	The Future of Science Labs: Choosing Virtual Laboratory for Hands-On Instruction in Physics Education	2021	Corresponding Author
137.	Book Chapter	Internet Of Things (IOT) Patient Monitoring System	2021	Co-Author
138.	Book Chapter	Smart Electronic Health Monitoring System (SEHMOS)	2021	Co-Author
139.	Book Chapter	Automated Smart Dustbin (AUDUST) Concept Design	2021	Co-Author
140.	Book Chapter	The Principle Of Relay In Electromagnetic Field Theory Using ARDUINO	2021	Co-Author
141.	Book Chapter	Online Learning Through SKYPE	2021	Co-Author
142.	Book Chapter	Managing Asynchronosu Learninf Using E-Learning Lesson Activity in Electronic System Course: Exploration of Student Perception	2021	Co-Author
143.	Book Chapter	CDIO Project On Mavico Heat Compress For Taekwondo Player	2021	Co-Author
144.	Book Chapter	Making Iskandar Malaysia a sustainable and low carbon society	2020	Corresponding Author
145.	Book Chapter	A Multi-platform Application for Low Carbon Education (SCOPUS)	2020	Co-Author
146.	Book Chapter	Lesson study among engineering lecturers as a way to plan, implement, and improve an industry-integrated course	2019	Co-Author
147.	Book Chapter	DASS-21 for the benefits of counseling centre of UTM	2019	Co-Author
148.	Book Chapter	Ultrasonic Transmission for Renal Lesion Screening	2019	Co-Author
149.	Book Chapter	Visual Signal Device (VSD) for Deaf Sports	2019	Co-Author

150.	Book Chapter	Perception of complex engineering problem solving among engineering educators (SCOPUS)	2018	Corresponding Author
151.	Book Chapter	Characteristics of student centred learning from the perspective of engineering lecturers (SCOPUS)	2018	Co-Author
152.	Book Chapter	Metacognitive development in engineering students through cooperative problem based learning (SCOPUS)	2018	Co-Author
153.	Book Chapter	Motivating engineering students to engage in learning computer programming (SCOPUS)	2018	Co-Author
154.	Book Chapter	Iskandar Malaysia Ecolife Challenge (IMELC)	2017	Individual Author
155.	Book Chapter	Low Carbon Schools	2017	Individual Author
156.	Book Chapter	Overview of An Unmanned aircraft system (UAS) for Healthcare Industry)	2017	Co-Author
157.	Book Chapter	The Scientific Epistemological Beliefs between Science and Art Streams Students	2016	Corresponding Author
158.	Book Chapter	Technological Pedagogical and Content Knowledge (TPACK) Practice among Expert Physics Teachers	2016	Corresponding Author
159.	Book Chapter	Fostering Higher Order Thinking Skills (HOTS) in Physics Learning using Microcomputer-Based Physics Laboratory (MPL)	2016	Corresponding Author
160.	Book Chapter	Engineering Education in Southeast Asia: Practice and research (SCOPUS)	2015	Co-Author
161.	Book Chapter	Development of Profession Skills through CPBL among First Year Engineering Students	2013	Co-Author
162.	Book Chapter	Motivation and Learning Strategies: Promising Outcomes of Cooperative Problem-based Learning	2013	Co-Author
163.	Book Chapter	The problems of physics problem-solving models – past & present	2013	Individual Author
164.	Book Chapter	Metacognition and Science Education	2013	Corresponding Author
165.	Book Chapter	Science education policy in Malaysia	2012	
166.	Book Chapter	TPCK among pre-service physics teachers at UTM	2012	Co-Author
167.	Book Chapter	Kemahiran metakognitif dan penyelesaian masalah fizik	2008	Co-Author
168.	Book	Kajian Tindakan Dalam Pengajaran Dan Pembelajaran Fizik Sekolah	2024	Corresponding Author
169.	Book	Kaedah Kajian Menggunakan Protokol Pemikiran Bersuara	2023	Corresponding Author
170.	Book	Epistemologi Saintifik Amali Fizik dan Kefahaman	2023	Co-Author
171.	Book	Iskandar Sayangi Ekosistem Paya Bakau	2022	Co-Author
172.	Book	Puteri	2020	Co-Author
173.	Book	Research Methodology in Engineering Education	2019	Corresponding Author
174.	Book	<i>Outcome Based Education (OBE): An Overview</i>	2016	Co-Author
175.	Book	Book Series: 3rd International Innovative Practices In Higher Education Expo	2016	Co-Author
176.	Book	Projek Alam Sekitar di Sekolah-Sekolah RCE Iskandar	2016	Individual Author

177.	Book	I-PHEX 2015 Innovative Practices In Higher Education Expo	2015	Co-Author
178.	Book	PBL Across Cultures	2013	Co-Author
179.	Policy Paper	Wangsa Maju Carbon Neutral Growth Centre 2050 Action Plan	2022	Co-Author
180.	Policy Paper	Pelan Tindakan Pendidikan Kelestarian Johor (2019-2023)	2019	Corresponding Author
181.	Policy Paper	Pengerang Low Carbon Society Blueprint 2030 Final Draft	2018	Co-Author
182.	Policy Paper	70 By 30: A Greener Better Kuala Lumpur - Kuala Lumpur Low Carbon Society Blueprint 2030 Summary For Policymakers - 2nd Edition	2017	Co-Author
183.	Policy Paper	70 By 30 : A Greener Better Kuala Lumpur - Kuala Lumpur Low Carbon Society Blueprint 2030	2017	Co-Author
184.	Policy Paper	Low Carbon Society Blueprint For Iskandar Malaysia 2025 With 10 Implementation Plans-Summary For Policymakers, Third Edition	2014	Co-Author
185.	Policy Paper	Low Carbon Society Blueprint For Iskandar Malaysia 2025-Summary For Policymakers.Second Edition	2013	Co-Author
186.	Policy Paper	Low Carbon Society Blueprint for Iskandar Malaysia 2025	2013	Co-Author
187.	Policy Paper	Internationalisation of Higher Education Policy	2011	Co-Author
188.	Classified /Technical/ Expert Report	Pelan Tindakan Transformasi Program Ijazah Sarjana Muda Pendidikan (ISMP) Universiti Awam (UA) Malaysia 2022-2030	2024	Corresponding Author
189.	Classified /Technical/ Expert Report	Iskandar Malaysia Ecolife Challenge (IMELC) - Review of IMELC Impacts, Modules and Methods	2024	Corresponding Author
190.	Classified /Technical/ Expert Report	Laporan Kajian Hala Tuju Program Kejuruteraan Di Universiti Awam Malaysia Dalam Mendepani Revolusi Industri 4.0	2024	Co-Author
191.	Classified /Technical/ Expert Report	Carbon Accounting Exercise for Iskandar Malaysia Ecolife Challenge (IMELC) 2023	2024	Co-Author
192.	Classified /Technical/ Expert Report	Pembangunan Kaedah Pengiraan Merit Baharu Kemasukan (MERIT 2.0) Ke Institusi Pendidikan Tinggi Awam (IPTA) Dan Institusi Latihan Kemahiran Awam (ILKA) Bagi Program Pengajian Lulusan SPM Mulai Sesi Akademik 2022/2023	2022	UTM First Author
193.	Classified /Technical/ Expert Report	Laporan Akhir Kajian Keperluan Dan Konsep Universiti Johor	2020	Co-Author
194.	Classified /Technical/ Expert Report	Kajian Keperluan Dan Konsep Universiti Johor	2019	Co-Author
195.	Classified /Technical/ Expert Report	Pengerang Low Carbon Society Blueprint 2030 Interim Report	2018	Co-Author
196.	Classified /Technical/ Expert Report	Pengerang Low Carbon Society 2030 Preliminary Baseline Study : Clean, Green, Safe & Smart City 2030	2017	Co-Author
197.	Classified /Technical/ Expert Report	Pengerang Low Carbon Society Blueprint 2030 Inception Report	2017	Co-Author
198.	Classified /Technical/ Expert Report	Kuala Lumpur Low Carbon Society Blueprint 2030 Interim Report	2016	Co-Author
199.	Classified /Technical/ Expert Report	Kuala Lumpur Low Carbon Society Blueprint 2030 Baseline Study	2016	Co-Author

200.	Classified /Technical/ Expert Report	Developing Interactive Teaching Guide of Cooperative Problem-based Learning (CPBL) for Engineering Lecturers	2013	Corresponding Author
201.	Classified /Technical/ Expert Report	Students' And Teachers' Epistemological Beliefs In Learning And Teaching Science As Predictors Of Students' Tendency Towards Enrolling Science Stream	2012	Corresponding Author
202.	Classified /Technical/ Expert Report	Kompilasi dan Reviews ke atas Dapatan Kajian Penyelidikan Berkaitan Pendidikan Sains dan Matematik di Malaysia	2011	Co-Author
203.	Classified /Technical/ Expert Report	Kemahiran Metakognitif Dalam Kalangan Pelajar Sekolah Menengah di Negeri Johor Dalam Menyelesaikan Masalah Fizik	2007	Co-Author
204.	Classified /Technical/ Expert Report	Kajian Mengenai Kemahiran Metakognitif di Kalangan Pelajar-pelajar Sekolah Menengah di Malaysia dalam Menyelesaikan Masalah Fizik	2005	Co-Author
205.	Module / Manual	Modul Pendekatan Pengajaran dan Pembelajaran Konstruktivis	2025	Corresponding Author
206.	Module / Manual	Panduan Ibu Bapa Untuk Pembelajaran Di Rumah	2021	Co-Author
207.	Module / Manual	Buku Panduan Kebun Komuniti Johor 2021-2025	2021	Co-Author
208.	Module / Manual	Modul Keluarga Sejahtera Negeri Johor (MKSJN)	2020	Co-Author
209.	Newspaper Article	Wujudkan Ekosistem Mendukung Agenda Pendidikan STEM	2023	Individual Author
210.	Newspaper Article	Perkongsian Telus KPM, Universiti Selesaikan Isu Lambakan	2023	Individual Author
211.	Newspaper Article	Masa Terbaik Asah Kemahiran Pembelajaran Sepanjang Hayat	2021	Individual Author
212.	Newspaper Article	Lahirkan Lebih Ramai Guru Cemerlang, Tingkatkan PdPR	2021	Co-Author
213.	Newspaper Article	Pendidikan Sebagai Solusi Jangka Panjang Pencemaran	2019	Individual Author
214.	Newspaper Article	Pendidikan untuk Pembangunan Lestari	2019	Individual Author
215.	Newspaper Article	STEM boleh jayakan agenda TN50	2017	Individual Author
216.	Newspaper Article	Dasar e-Learning IPT pemangkin pembelajaran sepanjang hayat	2011	Individual Author
217.	Newspaper Article	Changing Religion, Not Ethnicity	2011	Individual Author
218.	Magazine	Drone for Edu Challenge	2020	Co-Author

**PLENARY/CHAIRPERSON/ORAL POSTER PRESENTER/KEYNOTE ADDRESS / INVITED GUEST
SPEAKER**

NO	ROLE	TITLE OF PROGRAMME	DATE	LOCATION
1.	Keynote Speaker	8th International Conference on Mathematics and Science Education (ICoMSE 2024)	5-6 July 2024	Malang, Indonesia
2.	Keynote Speaker	Seminar Majlis Dekan Pendidikan Universiti Awam 2022	10-11 Dec 2022	UPSI, Perak, Malaysia

3.	Keynote Speaker	Meja Bulat Pembangunan Kerangka Kurikulum	29-30 Mac 2022	Perak, Malaysia
4.	Keynote Speaker	Seminar Pendidikan Sains dan Matematik Kebangsaan 2021	12-13 Oct 2021	Perak, Malaysia (Online)
5.	Keynote Speaker	Virtual International Conference on Ubiquitous Education and Learning (VICUEL 2020)	5 Oct 2020	Johor Bahru, Malaysia (Online)
6.	Keynote Speaker	International Graduate Conference on Engineering, Science and Humanities 2020	18-19 Aug 2020	Johor Bahru, Malaysia (Online)
7.	Keynote Speaker	The 3rd International Conference on Science and Science Education 2019	20-21 Jun 2019	Salatiga, Indonesia
8.	Invited Speaker	Guest Lecture	20 Oct 2022	Universitas Negeri Malang
9.	Invited Speaker	International Future Scientists Conference 2022	13-15 Sept 2022	UKM, Malaysia (Online)
10.	Invited Speaker	International Linkages Week 2021	25 Oct 2021	Manila, Philippines (Online)
11.	Invited Speaker	YSN-ASM International Scientific Virtual Conference	31 Mac 2021	Kuala Lumpur, Malaysia (Online)
12.	Invited Speaker	18th IEOM Global Engineering Education	10-14 Aug 2020	Detroit, Michigan, USA (Online)
13.	Invited Speaker	Guest Lecture	27 Nov 2019	Universitas Negeri Malang
14.	Invited Speaker	Seminar in Creativity & Innovation in Science Education	25 Nov 2019	Perdana University
16.	Invited Speaker	10th World Environmental Education Congress 2019	4-6 Nov 2019	Bangkok, Thailand
15.	Invited Speaker	Simposium Kebangsaan Amalan Inkuiri Saintifik	22 Oct 2019	Shah Alam, Malaysia
17.	Invited Speaker	ESD Forum 2018	27 Oct 2018	Okayama, Japan
18.	Invited Speaker	2nd International Conference on STEM Education 2019	2-3 Oct 2018	Kuala Lumpur, Malaysia
19.	Invited Speaker	Konvensyen Saudara Muslim Peringkat Kebangsaan 2018	13 Mac 2018	Kuala Lumpur, Malaysia
20.	Invited Speaker	7th World Engineering Education Forum 2017	13-16 Nov 2017	Kuala Lumpur, Malaysia
21.	Invited Speaker	Singapore-Iskandar Malaysia Capacity Building Workshop on Environmental Education	22 May 2017	Johor Bahru, Malaysia
22.	Invited Speaker	10th Global Congress and Conferment Ceremony (GCCC)	16 July 2017	Johor Bahru, Malaysia
23.	Invited Speaker	Konvensyen Pembelajaran Abad Ke-21 (PAK21) Negeri Johor Tahun 2017	15 Apr 2017	Batu Pahat, Malaysia
24.	Invited Speaker	Global Engineering Education Leader Conference (GEELeC)	5-7 Dec 2016	Shenzhen, China
25.	Invited Speaker	6th Regional Conference on Engineering Education 2016	9-10 Aug 2016	Kuala Lumpur, Malaysia
26.	Invited Speaker	Leading Academic Institution through Education for Sustainable Development (ESD)	27 Apr 2016	AKEPT, Malaysia

27.	Invited Speaker	Seminar on Development of Low Carbon Society Scenario and ESD in Asia	14 Mac 2016	Okayama, Japan
28.	Invited Speaker	International Conference on Education and Higher Order Thinking Skills 2016	11-13 Apr 2016	Johor Bahru, Malaysia
29.	Invited Speaker	Sesi Perkongsian Ilmu, KPM	13 Mac 2015	Putrajaya, Malaysia
30.	Invited Speaker	Expert Talk on Solid Waste Management	12 Nov 2013	Johor Bahru, Malaysia
31.	Invited Speaker	Research Seminar on Low Carbon Education in Malaysia and Japan	10 Sep 2012	Japan Science & Technology (JST), Tokyo, Japan
32.	Invited Speaker	18th Korean Society for Engineering Education (KSEE) Annual Conference	24-25 Nov 2011	Jeju Island, Korea
33.	Chairperson	Seminar Majlis Dekan Pendidikan Universiti Awam 2022	10-11 Dec 2022	UPSI, Perak, Malaysia
34.	Chairperson	Seminar Majlis Dekan Pendidikan Universiti Awam 2021		UKM, Malaysia (Online)
35.	Chairperson	Seminar Kebangsaan Keluarga Sejahtera Negeri Johor 2019	25-26 Sept 2019	Johor Bahru, Malaysia
36.	Chairperson	2nd International Seminar on Science and Mathematics Education	11-13 Apr 2016	Johor Bahru, Malaysia
37.	Chairperson	1st International Conference on Educational Studies	3-4 Jun 2015	Johor Bahru, Malaysia
38.	Chairperson	International Conference on Learning and Teaching in Computing and Engineering (LaTiCE 2014)	11-13 Apr 2014	Kuching, Malaysia
39.	Oral Presenter	4 International Conference on Science and Science Education (IConSSE) 2021	7-8 Sept 2021	Salatiga, Indonesia (Online)
40.	Oral Presenter	Seminar Kebangsaan Keluarga Sejahtera Negeri Johor	25-26 Sept 2019	Johor Bahru, Malaysia
41.	Oral Presenter	2nd International Conference on STEM Education 2018	2-3 Oct 2018	Kuala Lumpur, Malaysia
42.	Oral Presenter	2nd ASIA International Multidisciplinary Conference	12-13 May 2018	Johor Bahru, Malaysia
43.	Oral Presenter	2nd International Conference of Low Carbon Asia & Beyond 2016	23-25 Nov 2016	Kuala Lumpur, Malaysia
44.	Oral Presenter	6th Regional Conference on Engineering Education 2016	9-10 Aug 2016	Kuala Lumpur, Malaysia
45.	Oral Presenter	2nd International Seminar on Science and Mathematics Education	11-13 Apr 2016	Johor Bahru, Malaysia
46.	Oral Presenter	1st International Conference on Educational Studies	3-4 Jun 2015	Johor Bahru, Malaysia
47.	Oral Presenter	7th Asia Pacific RCE Meeting and International Symposium	26-28 Aug 2014	Penang, Malaysia
48.	Oral Presenter	25th Japan Society of Environmental Education (JSEE) Annual Conference	2-3 Aug 2014	Tokyo, Japan
49.	Oral Presenter	International Conference on Learning and Teaching in Computing and Engineering (LaTiCE 2014)	11-13 Apr 2014	Kuching, Malaysia

50.	Oral Presenter	Seminar Pembangunan Kepimpinan Pembelajaran dan Pengajaran Pengajian Tinggi (AKEPT)	28 Feb – 1 Mac 2013	Bandar Enstek, Malaysia
51.	Oral Presenter	World Congress of Engineering Education (WCEE)	7-9 Jan 2013	Doha, Qatar
52.	Oral Presenter	Seminar Majlis Dekan Pendidikan IPTA 2012	7-9 Oct 2012	Johor Bahru, Malaysia
53.	Oral Presenter	International Seminar on Science and Mathematics Education (ISSME 2012)	5-8 Sept 2012	Johor Bahru, Malaysia
54.	Oral Presenter	EDUCON 2011	4-6 Apr 2011	Amman, Jordan
55.	Oral Presenter	15th International Conference on Interdisciplinary Social Sciences	2-5 Aug 2010	Cambridge, UK
56.	Oral Presenter	3th Regional Conference on Engineering Education 2010	7-9 Jun 2010	Kuching, Malaysia
57.	Oral Presenter	Redesigning Pedagogy International Conference 2009	1-3 Jun 2009	Singapore
58.	Oral Presenter	Excellence in Education 2008	1-4 Jul 2008	Paris. France
59.	Oral Presenter	4th International Qualitative Research Convention 2007	3-5 Sept 2007	Kuala Lumpur, Malaysia
60.	Oral Presenter	Kaleidoscope: Perspectives on Educational Research Symposium 2007	1 Jun 2007	Cambridge, UK
61.	Oral Presenter	Kaleidoscope: Perspectives on Educational Research Symposium 2006	2 Jun 2006	Cambridge, UK
62.	Poster Presenter	The Asia Pacific Conference on Curriculum Studies and Instructional Design	1-3 Oct 2021	Online
63.	Poster Presenter	World Engineering Education Forum 2017	13-16 Nov 2017	Kuala Lumpur, Malaysia
64.	Poster Presenter	International Conference of Low Carbon Asia (ICLCA 2015)	11-13 Oct 2015	Johor Bahru, Malaysia

PROFESSIONAL SERVICES

Consultation and Training

NO	ROLE	TITLE OF PROGRAMME	DATE	LOCATION	TOTAL INCOME GENERATED (RM)
1.	Leader & Trainer	Pengajaran dan Pembelajaran STEM Konstruktivis	25 Feb 2025	New York Hotel, Johor	RM5,000.00
2.	Committee, Trainer	Bengkel : Outcome-Based Education Workshop - Pakistan	10-12 Oct 2024	Online	RM2,970.00
3.	Leader	Synergistic Government-University-Community-Industry Sustainable Collaboration Seminar 2024 (GUCI 2024)	22-23 Sept 2024	Sunway Hotel, Johor Bahru	RM46,040.90
4.	Leader & Trainer	Research Methodology in STEM Education for PhD	30 Nov 2023	UTM	RM826.80

		students of Universitas Negeri Malang			
5.	Leader & Trainer	Scholarship of Teaching & Learning for Engineering Educators for UTeMASA members	22-23 Aug 2023	UTeM, Melaka	3,000.00
6.	Committee	Training Workshops CEE 2023	1 Jan – 31 Dec 2023	Johor, Malaysia	25,000.00
7.	Committee	Minggu Sains Negara Keluarga Malaysia (MSNKM 2022)	18 Apr 2022 – 31 Dec 2022	Johor, Malaysia	60,000.00
8.	Speaker, Committee	Drone Edu Challenge IR 4.0 (DEC4IR)	1 Jun – 31 Dec 2021	Malaysia (Online)	10,000.00
9.	Committee	Drone Edu Challenge IR 4.0 (DEC4IR)	1 Jul – 31 Dec 2021	MRSB Bentong	8,480.00
10.	Committee	Seminar Iskandar Puteri Towards Low Carbon Society & Johor SDGs School Challenge 2021 Secara Atas Talian	1 Sept 2021 – 31 Jan 2022	Johor, Malaysia	6,000.00
11.	Committee	Regional Conference on Engineering Education (RCEE) 2021	30 Nov – 1 Dec 2021	Johor, Malaysia	22,884.45
12.	Advisor, Speaker	Virtual International Conference on Ubiquitous Education and Learning (VICUEL 2020)	5 Oct 2020	Online	57,600.00
13.	Treasurer	Regional Conference on Engineering Education (RCEE) & Research in Higher Education (RHED) 2020	29-30 Sept 2020	Johor, Malaysia	49,530.52
14.	Speaker, Facilitator	Outcome Based Education For Engineering and Vocational Education: From Planning To Assessment	19 Aug -31 Oct 2020	Universitas Sebelas Maret, Indonesia	9,570.47
15.	Project Leader, Speaker	Training of Research Methodology in STEM and Engineering Education	14-16 Feb 2019 11-13 Apr 2019	UTM	26,610.34
16.	Project Leader (Malaysia), Facilitator	Capacity Building & Community Engagement for Low Carbon Society (JICA)	2016-2018	Johor Bahru, Malaysia Kyoto, Japan	160,170.00
17.	Treasurer	2nd International Conference on STEM Education 2018	2-3 Oct 2018	Kuala Lumpur, Malaysia	205,750.00
18.	Treasurer	World Engineering Education Forum (WEEF) 2017	13-16 Nov 2017	Kuala Lumpur, Malaysia	1,078,006.12
19.	Treasurer	Regional Conference on Engineering Education	9-10 Aug 2016	Kuala Lumpur, Malaysia	109,490.00

		(RCEE) 2016 & I-PHEX 2016			
20.	Facilitator	Training and Curriculum Design	2014-2015	Pandawas Academy Malaysia	4,200.00
21.	Module developer / trainer	Development of Modules for Training of Trainers (ToT) in Practicum and Industrial Training	2012	AKEPT	170,000.00
22.	Module developer	Development of Modules for Training of Trainers (ToT) in Project-Oriented Problem-Based Learning (POPBL)	2012	AKEPT	170,000.00

Community Projects

NO	ROLE	NAME OF PROJECT	DATE	TOTAL VALUE OF PROJECT (RM)	VOTE NO.
1.	Leader	RCE Iskandar Sustainable & Low Carbon Schools Exhibition 2019	May-Jul 2019	47,780.00	S.J130000.7353.4X486
2.	Leader	Problem-Based Learning for Low Carbon Society 2019	Jan-Oct 2019	37,208.00	S.J130000.7353.4X487
3.	Leader	Seminar Iskandar Puteri towards Low Carbon Society	Aug-Oct 2019	65,800.00	S.J130000.7353.4X488
4.	Leader	Seminar Iskandar Malaysia towards Low Carbon Society 2018	Sep-Oct 2018	82,580.00	S.J130000.053.4X484
5.	Leader	RCE Iskandar Sustainable & Low Carbon Schools Exhibition 2018	May-Aug 2018	42,150.00	S.J130000.7653.4X423
6.	Member	Drone Edu Challenge IR 4.0 Malaysia	Mac-Oct 2020	24,540.00	S.J130000.7351.4X607
7.	Member	Program Matlamat Pembangunan Mampan Iskandar Puteri 2020 Bersempena Seminar Iskandar Puteri Towards Low Carbon Society 2020 Secara Atas Talian	Oct-Nov 2020	17,984.00	S.J130000.7353.4X604
8.	Member	Pertandingan Kalendar MBIP 2020	Oct 2019 – Feb 2021	36,675.00	S.J130000.7753.4X589
9.	Member	Kembara Modul Keluarga Sejahtera Negeri Johor	Jan-Dec 2021	29,300.00	S.J130000.53.4X650
10.	Member	Pemindahan Ilmu Teknologi Dron kepada Komuniti Taman Sri Pulai	Jan-Oct 2019	8,684.00	S.J130000.7351.4X501
11.	Member	Online STEM Educational Program : Johor STEM 2020 – A Service Learning	Jan 2020 – Jan 2021	13,310.00	S.J130000.7354.4X605
12.	Member	IMELC 2020	Feb 2020 – Feb 2021	148,750.00	S.J130000.7353.4X590
13.	Member	Kesedaran Pelajar Terhadap Kepentingan Menjaga Kebersihan Sungai	Nov 2019 – Nov 2020	15,000.00	S.J130000.7352.4X577

14.	Member	STEM Day 2018	May-Oct 2018	35,518.00	S.J130000.0854.4Y136
15.	Member	Jelajah Sains 2018	Jan-Oct 2018	9,200.00	S.J130000.0854.4Y135
16.	Member	National Science Challenge 2018	Jan-Aug 2018	23,012.00	S.J130000.0809.4Y131
17.	Member	Projek Pembangunan Pusat Tapak Baja Kompos	Dec 2015 – May 2017	111,000.00	S.J130000.0846.4Y042

Community and University Services

NO	ROLE	TITLE OF PROGRAMME	DATE	LEVEL	LOCATION
1.	Treasurer	Erth ul Mustafa Organization	2018-2019	Community	Johor
2.	Quranic Teacher	New Muslim Quran Classes	2011-present	Community	Johor
3.	Speaker	Ceramah & Forum Agama di Masjid & Surau	2011-present	National	Malaysia
4.	Volunteer / Committee	Pertubuhan Jaringan Harmoni, Malaysian Chinese Muslims Association (MACMA), PERKIM, BKSK JB, Hidayah Centre Johor	2011-present	Community	Johor
5.	Tutor	Cambridge Quranic Classes	2006-2009	Community	Cambridge
6.	Committee	Cambridge University Islamic Society	2007-2009	University	Cambridge
7.	Player	Inter-Department Sports Tournament UTM (Tennis, Table-tennis, Netball, Badminton, Volleyball, 5km Run, Track)	2004-present	University	UTM
8.	Committee	Kelab Kebajikan Fakulti Pendidikan	2004-2011	Faculty	UTM
9.	Quranic Teacher	Kelas Bimbingan al-Quran MSI UTM	2016-2018	University	UTM
10.	Committee	Majlis Iftar, Majlis Raya (Pertubuhan Jaringan Harmoni)	2021-present	Community	Johor
11.	Quranic Teacher	Kelas Pengajian al-Quran Mualaf	2021-present	Community	Malaysia (Online)
12.	Teasurer	Kelab CEE	2013-present	Centre	UTM

Endowment and Wakaf to University

NO	NAME OF ENDOWMENT AND WAKAF	TOTAL CONTRIBUTION (RM)
1.	Endowmen SoE (Free Meal Project)	2,256.00
2.	Sumbangan Banjir 2021	300.00
3.	Plat nombor UTM	935.00
4.	Endowmen SoE (Projek Tuisyen B40)	210,000.00

Commercialisation

NO	ROLE	NAME OF PRODUCT COMMERCIALISATION	DATE	TOTAL INCOME GENERATED (RM)
1.	Main inventor	Modul Pendekatan Pengajaran & Pembelajaran Konstruktivis	25 Feb 2025	5,000.00
2.	Main inventor	Research Methodology in Engineering Education Training Module	22 Aug 2023	3,000.00

3.	Main inventor	Research Methodology in Engineering Education Training Module	30 Nov 2023	826.80
4.	Main inventor	Eco Life Workbook	15 Aug 2019	20,000.00
5.	Main inventor	Research Methodology in Engineering Education Training Module	Feb-Apr 2019	26,610.34
6.	Co-inventor	Outcome-Based Education (OBE): An Overview	2018-2019	6,600.00
7.	Main inventor	Low Carbon Society Workbook	1 Jun 2018	20,001.00
8.	Main inventor	Iskandar Malaysia Ecolife Challenge 2017 Workbook	12 Apr 2017	20,001.00
9.	Main inventor	Iskandar Malaysia Ecolife Challenge 2015 Workbook	1 Jan 2015	100.00

Grant based on innovation and University Commercialisation Product

NO.	NAME OF GRANT	ROLE	CATEGORY OF GRANT	TYPE OF GRANT	AMOUNT (RM)	STARTING DATE	ENDING DATE	VOTE NO
1.	Combat Sports Scoring Device On-The-Go (OTG)	Member	UTM	Institution al	50,000.00	Mac 2025	Feb 2026	Q.J13000 0.4423.4J 767
2.	Portable Visual Signal Device (YSD) For Deaf Sports Athletic	Member	UTM	Institution al	50,000.00	Jul 2023	Jun 2024	Q.J13000 0.4423.4J 648
3.	Strengths Based Education Program Based on Solution Focused Brief Therapy	Member	UTM	Institution al	30,000.00	Dec 2022	Nov 2023	Q.J13000 0.4453.4J 599
4.	Augmented Reality-Based Drone Certification & Competency	Member	UTM	Institution al	50,000.00	Dec 2021	Dec 2022	Q.J13000 0.4451.4J 539
5.	Compact Flight Controller for High Speed Drone Maneuver	Member	UTM	Institution al	20,000.00	Jul 2018	Jul 2019	R.J13000 0.7345.4J 328

Copyrights

NO	NAME OF COPYRIGHT	STATUS OF COPYRIGHT	YEAR
1.	Modul Pendekatan Pengajaran & Pembelajaran Konstruktivis	Granted	2025
2.	Drone Block Coding 101 Workbook	Granted	2025

3.	Modul Plastik : Kearah Plastik Sekali Guna	Granted	2024
4.	Visual Signal Device (VSD) for Deaf Sports Athletic	Granted	2024
5.	Workbook on Systematic Innovation for Solving Sustainability Problems	Granted	2024
6.	Drone Edu Challenge Simulator (DEC-SIM)	Granted	2023
7.	Drone Edu Simulator (DEC-SIM)	Granted	2023
8.	AR.Drone Workbook	Granted	2022
9.	Soal Selidik Tahap Kesedaran Kanak-Kanak Terhadap Kepentingan Menjaga Kebersihan Sungai	Granted	2021
10.	Rubrik Penilaian Pembentangan Laporan Projek Sarjana Muda 2	Granted	2021
11.	Rubrik Penilaian Laporan Projek Sarjana Muda 2 (SPPU4904)	Granted	2021
12.	Drone Edu Challenge IR 4.0 (DEC4IR)	Granted	2021
13.	AR-DRONE 4.0	Granted	2021
14.	Panduan Ibu Bapa Untuk Pembelajaran Di Rumah	Granted	2021
15.	Online Modul for Outcome-Based Education (OBE) Training for Academic Staff	Granted	2020
16.	Model for On-Site Effluent Treatment Process	Granted	2020
17.	Drone Edu 4.0	Granted	2020
18.	Buku Panduan Pelaksanaan Latihan Industri Dalam Tempoh Perintah Kawalan Pergerakan Pemulihan 2020 Sekolah Pendidikan	Granted	2020
19.	A Report on FSSH UTM'S Experience Towards Digitizing Education	Granted	2020
20.	Eco Life Workbook	Granted	2019
21.	Research Methodology in Engineering Education Training Module	Granted	2019
22.	Low Carbon Society Workbook	Granted	2018
23.	International Innovative Practices in Higher Education Expo 2018 (I-PHEX 2018) Judging Criteria and Judging Form	Granted	2018
24.	Lumba Tracker	Granted (IC)	2018
25.	Iskandar Malaysia Ecolife Challenge 2017 Workbook	Granted	2017
26.	Unmanned Aerial System Flight Controller	Granted (IC)	2017
27.	Instrument on Assessing Environmental Sustainability Knowledge and Behaviour	Granted	2017
28.	Outcome-Based Education (OBE): An Overview	Granted	2016
29.	Problem-Based Learning for Low Carbon Education at Secondary Schools in Johor	Granted	2016
30.	Iskandar Malaysia Ecolife Challenge 2016 Workbook	Granted	2016
31.	Document and Guideline for Implementation of Iskandar Malaysia Ecolife Challenge	Granted	2016
32.	Iskandar Malaysia Ecolife Challenge 2015 Workbook	Granted	2015
33.	Iskandar Malaysia Ecolife Challenge 2015 Online Workbook	Granted	2015
34.	Iskandar Malaysia Ecolife Challenge 2014 Workbook	Granted	2015
35.	Slide Ceramah Kesedaran Alam Sekitar FELDA Taib Andak	Granted	2014
36.	Buku Panduan Kitar Semula Felda Taib Andak 2014	Granted	2014
37.	Framework of Postgraduate Supervision for Graduate on Time	Granted	2014
38.	Pengukuran Epistemologi Saintifik dalam Fizik bagi Pelajar (PESP) / Physics Scientific Epistemological Measurement for Students (PSEMS)	Granted	2013

39.	Pengukuran Epistemologi Saintifik dalam Fizik bagi Guru (PESG) / Physics Scientific Epistemological Measurement for Teachers (PSEPT)	Granted	2013
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