



PERSONAL DETAILS

Name	:	SHARIFAH BINTI OSMAN
Gender	:	FEMALE
Nationality	:	MALAYSIA
Correspondent Address	:	G16, KOLEJ RAHMAN PUTRA, UNIVERSITI TEKNOLOGI MALAYSIA, 81310 SKUDAI, JOHOR, MALAYSIA
Tel	:	013 6926600
E-mail	:	sharifah.o@utm.my
Website	:	https://people.utm.my/sharifah/
ID Staff	:	14590
Expertise	:	Mathematics Education, Engineering Education, Grounded Theory, Mathematical Thinking, Critical Thinking, Educational Research (Qualitative)
H-Index (WOS)	:	7 (WoS ResearcherID: AAD-7931-2019)
H-Index (SCOPUS)	:	9 (Scopus ID: 57058673700)
H-Index (G. Scholar)	:	14
H-Index (Researchgate)	:	13

ACADEMIC QUALIFICATIONS

NO	LEVEL OF EDUCATION	COURSE	UNIVERSITY	STARTING DATE	ENDING DATE
1.	Doctor of Philosophy (Thesis Title: Emerging Math-Related Critical Thinking Theory in Civil Engineering Practice)	Engineering Education	Universiti Teknologi Malaysia	Sept 2013	May 2016 (GOT-Best Student Award)
2.	Diploma of Education [KPLI]	Chemistry Studies	Maktab Perguruan Batu Pahat, Johor	Jan 2005	Nov 2005 (Excellent)
3.	Bachelor of Science (Honours)	Chemistry	Universiti Kebangsaan Malaysia	Sept 1989	Aug 1993 (Second Class - Upper Division)
4.	Certificate of Matriculation	Science	Maktab Rendah Sains Mara, Kulim, Kedah	Jan 1988	Nov 1988 (Passed)
5.	Sijil Pelajaran Malaysia [SPM]	Science Stream	Maktab Rendah Sains Mara, Seremban, NS	Jan 1986	Nov 1987 (Aggregate: 12)

Note: No master degree (fast-track based on first-degree qualification and field-related teaching profession and industrial working experience)

WORKING EXPERIENCE

NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT/ORGANISATION
1.	Associate Professor	2017	Present	Universiti Teknologi Malaysia
2.	Lecturer	2006	2016	Politeknik Merlimau/Pagoh
3.	Assistant Manager [Quality Control]	1996	2004	Kotra Pharmaceutical (M) Sdn. Bhd. Cheng, Melaka
4.	Research Officer [Chemistry Lab Analysis]	1993	1995	Rubber Research Institute of Malaysia (RRIM), Kuala Lumpur

TEACHING ACTIVITIES

Summary	
Total Credit Hours	144

UNDERGRADUATES

Semester	Sem	Subject Code	Subject	Credit Hour	No of Student
2017/2018	1	UHAK1012	Atribut Kejayaan Graduan	2	30
2017/2018	2	UHAK1012	Atribut Kejayaan Graduan	2	40
2018/2019	1	UHAK1012	Atribut Kejayaan Graduan	2	59
2018/2019	1	SHAY2053	Statistik Dalam Psikologi	3	37
2018/2019	2	SHAR2053	Statistik Untuk Sains Sosial	3	31
2018/2019	2	UHAK1012	Atribut Kejayaan Graduan	2	35
2019/2020	1	SHAY2053	Statistik Dalam Psikologi	3	34
2019/2020	2	SHAR2053	Statistik Untuk Sains Sosial	3	33
2020/2021	1	SHAY2053	Statistik Dalam Psikologi	3	47 [sec 01]
2020/2021	1	SHAY2053	Statistik Dalam Psikologi	3	42 [sec 02]
Total credits				26	

POSTGRADUATES

Semester	Sem	Subject Code	Subject	Credit Hour	No of Student
2016/2017	2	MPPM1113	Design And Implementation Of Mathematics Curriculum	3	12
2017/2018	1	MPPM1113	Design And Implementation Of Mathematics Curriculum	3	13
2017/2018	1	MPPM1323	Problem Solving In Mathematics	3	5
2017/2018	2	MPPM1113	Design And Implementation Of Mathematics Curriculum	3	10
2017/2018	2	MPPM1103	Teaching And Learning Models Of Mathematics	3	12
2017/2018	2	MPPU1060	Research Methods And Data Analysis	0	38
2017/2018	2	MPPU1074	Research Methodology And Data Analysis In Education	4	14
2018/2019	1	MPPM1113	Design And Implementation Of Mathematics Curriculum	3	4
2018/2019	1	MPPU1060	Research Methods And Data Analysis	0	50
2018/2019	1	MPPU1074	Research Methodology And Data Analysis In Education	4	15
2018/2019	2	MPPM1113	Design And Implementation Of Mathematics Curriculum	3	8
2018/2019	2	MPPU1060	Research Methods And Data Analysis	0	42
2018/2019	2	MPPU1074	Research Methodology And Data Analysis In Education	4	24
2019/2020	1	MPPM1113	Design And Implementation Of Mathematics Curriculum	3	10
2019/2020	1	UHPP0010	Research Methods And Data Analysis	0	50
2019/2020	1	MPPU1074	Research Methodology And Data Analysis In Education	4	13
2019/2020	2	MPPM1113	Design And Implementation Of Mathematics Curriculum	3	8
2019/2020	2	MPPU1080	Academic Writing	0	33
2020/2021	1	MPPM1113	Design And Implementation Of Mathematics Curriculum	3	5
2020/2021	1	MPPU1070	Critical Analysis	0	14
2020/2021	1	MPPU1074	Research Methodology And Data Analysis In Education	4	4
2020/2021	1	MPPU1080	Academic Writing	0	16
2020/2021	1	UHPP0010	Research Methodology And Data Analysis	0	11
2020/2021	2	MPPM1113	Design And Implementation Of Mathematics Curriculum	3	10

2020/2021	2	MPPU1034	Application Of Statistics In Educational Research	4	20
2020/2021	2	MPPU1070	Critical Analysis	0	19
2020/2021	2	MPPU1074	Research Methodology And Data Analysis In Education	4	1
2020/2021	2	MPPU1080	Academic Writing	0	18
2020/2021	2	UHPP0010	Research Methodology And Data Analysis	0	19
2021/2022	1	MPPM1113/ MHPM1123	Design And Implementation of Mathematics Curriculum	3	4
2021/2022	1	MPPU1034	Application Of Statistics In Educational Research	4	17
2021/2022	1	MPPU1070	Critical Analysis	0	47
2021/2022	1	MPPU1074	Research Methodology And Data Analysis In Education	4	3
2021/2022	1	MPPU1080	Academic Writing	0	47
2021/2022	1	UHPP0010	Research Methodology And Data Analysis	0	48
2021/2022	2	MPPM1113/ MHPM1123	Design And Implementation of Mathematics Curriculum	3	6
2021/2022	2	MPPU1034	Application Of Statistics In Educational Research	4	14
2021/2022	2	MPPU1070	Critical Analysis	0	34
2021/2022	2	MPPU1074	Research Methodology And Data Analysis In Education	4	11
2021/2022	2	MPPU1080	Academic Writing	0	35
2021/2022	2	UHPP0010	Research Methodology And Data Analysis	0	34
2022/2023	1	MPPU1034	Application of Statistics in Educational Research	4	21
2022/2023	1	MPPU1070	Critical Analysis	0	43
2022/2023	1	MPPU1074	Research Methodology And Data Analysis In Education	4	4
2022/2023	1	MPPU1080	Academic Writing	0	43
2022/2023	1	UHPP0010	Research Methodology And Data Analysis	0	44
2022/2023	2	MPPU1034	Application of Statistics in Educational Research	4	15
2022/2023	2	MHPM1123	Design And Implementation of Mathematics Curriculum	3	7
2022/2023	2	MHPU1014	Research Methodology And Data Analysis In Education	4	4
2022/2023	2	UHPP6013	Research Methodology	3	26

2023/2024	1	MHPM1113	Models in Teaching and Learning Mathematics	3	12
2023/2024	1	MHPS1133	Testing And Evaluation In Science Education	3	1
2023/2024	1	MHPU1014	Research Methodology And Data Analysis In Education	4	9
2023/2024	1	UHPP6013	Research Methodology	3	22
Total credits				118	

RESEARCH ACTIVITIES

Summary	
Principal Investigator- International Grants	1 project (RM5100)
Principal Investigator- National Grants	1 project (RM101,826)
Principal Investigator- UTM Grants	4 projects (RM216,997.25)
Member- International Grants	3 project (RM25100)
Member- National Grants	16 projects (RM605,296)
Member- UTM Grants	15 projects (RM491,500)

As a Principal Investigator (PI)

NO.	PROJECT TITLE	CATEGORY OF GRANT (UTM/ OTHERS)	TYPE OF GRANT	AMOUNT (RM)	STARTING DATE	ENDING DATE	COST CENTER NO.
1.	Twenty-first Century-STEM Education Framework for Secondary School in Malaysia	UTM	UTMFR	107075	Oct 2023	Sept 2026	J130000.38 53.23H12
2.	Comparative Study of Elementary School Students' Numerical Literacy Ability in Solving Mathematical Story Problem through Contextual Teaching and Learning in Indonesia and Malaysia	Other (International)	Non Government Agency	5100	May 2023	April 2024	J130000.73 53.4B847
3.	Model Pembentukan Minat dan Efikasi Kendiri Pelajar dalam STEM menerusi Pembelajaran Geometri berasaskan Teknologi Augmentasi Realiti	Other (National)	FRGS	101826	Sept 2022	Aug 2025	J130000.78 53.5F529
4.	Framework of Critical and Creative Thinking in Complex Engineering Problem-Solving	UTM	UTMFR	84922.25	Jan 2020	Jun 2023	J130000.25 53.20H86
5.	Penguasaan Kemahiran Berfikir Aras Tinggi dalam Matematik menerusi Strategi Pembelajaran Kooperatif Think-Talk-Write	UTM	Tier 2	15000	Aug 2019	Jan 2022	J130000.26 53.16J38
6.	Math-Related Critical Thinking in Complex Problem Solving for Engineering Education	UTM	PAS	10000	Oct 2017	Oct 2018	Q.J130000. 2731.03K06

As a Research Member

NO.	PROJECT TITLE	CATEGORY OF GRANT (UTM/ OTHERS)	TYPE OF GRANT	AMOUNT (RM)	STARTING DATE	ENDING DATE	COST CENTER NO.
1	Analisis Higher Order Thinking Skills (HOTS) Mahasiswa Dalam Blended Learning Berbasis Diskus	Other (international)	Networking Grant	15000	Apr 2023	Nov 2023	S.J130000.7 653.4X807
2	The Development of Socio-scientific Issue Oriented Argumentative Assessment Using the Rasch Model Analysis in Environmental Physics Course (Comparative Study of Indonesia and Malaysia)	Other (International)	Non Government Agency	5100	May 2023	April 2024	R.J130000.7 353.4B852
3	Kepimpinan Autentik Pengetua dan Motivasi Kerja Guru Di Sekolah Kluster Kecemerlangan	Other (National)	Non Government Agency	5100	Dec 2022	Dec 2024	R.J130000.7 353.4B827
4	Development of a Framework for Problem Solving Embedded with Visual Programming Language in Improving Problem Solving Skill in STEM Teaching and Learning	UTM	FRGS	64000	Sept 2022	Aug 2024	R.J130000.7 853.5F544
5	Analysing The Effects of Anthropomorphism For Emotional Design In Multimedia Learning Using Emotional Recognition Systems.	Other (National)	Networking Grant	119505	Nov 2020	Oct 2023	S.J130000.7 353.4X675
6	Kerangka Kemahiran Teknikal Berteraskan Digital 4.0 Pelajar Kejuruteraan Elektrik Dan Elektronik Di Institusi PTV Di Malaysia	UTM	UTMER	15000	Oct 2021	Sept 2023	Q.J130000. 3853.20J05
7	Investigation Of Students' Epistemological Belief Within The Context Of Solving Engineering Design Problems	Other (National)	Contract	20000	Nov 2020	Apr 2023	R.J130000.7 651.4C430
8	Kerangka Kebolehpasaran 4.0 Pelajar Pendidikan Khas Di Institusi Pendidikan Teknikal Dan Vokasional Di Malaysia	Other (National)	FRGS	60000	Nov 2020	Apr 2023	R.J130000.7 853.5F413
9	A Framework For Scenario-Based Learning In Statistics And Probability To Ignite Form Four Students' Interest In STEM Careers	Other (National)	FGRS	100300	Nov 2020	Apr 2024	R.J130000.7 853.5F414
10	Peranan Sultan Dalam Memperkembangkan Islam Di Kepulauan Riau, Indonesia	Other (International)	Non Government Agency	5000	Oct 2020	Dec 2022	R.J130000.7 353.4B605
11	Peningkatan Taraf Pendidikan Dan Sosial Komuniti B40 Penduduk Flat MBBJ Menerusi Program Prihatin Bandaraya	Other (National)	Networking Grant	2500	Feb 2019	Dec 2019	S.J130000.0 53.4X485
12	Facilitating The Use Of Mobile-Based Communication For Studio-Based Learning In Higher Learning Institutions	Other (National)	Networking Grant	24991	Dec 2018	Nov 2020	S.J130000.7 353.4X496
13	Tanggungjawab Sosial Universiti (University Social Responsibility): Model Dan Perlaksanaan Bagi Menyokong Matlamat Pembangunan Lestari (Sustainable Development Goals)	UTM	UTMFR	70000	Jan 2020	Jun 2023	Q.J130000. 2509.21H20
14	Framework For Supporting Secondary School Students'	UTM	UTMFR	96500	Jan 2020	Dec 2023	Q.J130000. 2553.20H89

	Metacognition In Mathematics Problem Solving With Augmented Reality						
15	Model Pendekatan STEM Belantara Berteraskan Nilai Murni Bagi Pendidikan Orang Asli	Other (National)	FRGS	60000	Sept 2019	Nov 2022	R.J130000.7853.5F267
16	Kerangka Kemahiran Kebolehpasaran 4.0 Graduan Teknikal Dan Vokasional Dalambidang Kejuruteraan Mekanikal Seiring Dengan Era Revolusi Industri 4.0	Other (National)	FRGS	69800	Sept 2019	May 2023	R.J130000.7853.5F134
17	Mathematics Teachers' Competencies In Inculcating Higher-Order Thinking Skills In Secondary School	UTM	Tier 2	10000	Aug 2019	Jan 2022	Q.J130000.2653.16J36
18	Exploring Teachers, Peers And Parents Behaviour And Speech Which Intensify And Minimize Mathematics Anxiety Among Malaysian Students Through Photovoice Approach	UTM	Tier 2	15000	Aug 2019	Jul 2022	Q.J130000.2653.17J01
19	Kerangka Hubungan Pemikiran Komputasional Dan Penyelesaian Masalah Matematik Bukan Rutin Dalam Pembelajaran Abad Ke-21	UTM	Tier 2	15000	Aug 2019	Jan 2022	Q.J130000.2653.16J12
20	KTP-NMG 2019: Pemindahan Ilmu Kemahiran Pemikiran Komputasional Kepada Murid Darpada Keluarga Berpendapatan Rendah	Other (National)	Business Entity	5000	Feb 2019	Jul 2019	S.J130000.0853.4Y174
21	Pattern Of Epistemological Belief On Design Among Engineering Students	Other (National)	Contract Research DTD	10000	Nov 2018	Oct 2020	R.J130000.7651.4C221
22	HIR 3.2 : Data Driven Curriculum Innovation In Stem	UTM	High Impact Research Grant	36000	Apr 2018	Sept 2021	Q.J130000.2409.04G91
23	Analisis Keperluan Program Pembangunan Profesional Pedagogi STEM Secara Dalam Talian	UTM	Tier 2	10000	Feb 2018	Apr 2019	Q.J130000.2631.14J89
24	Hubungan Antara Kecerdasan Emosi Dan Motivasi Pelajar Dalam Menyelesaikan Masalah Matematik Bukan Rutin	UTM	Tier 2	10000	Feb 2018	Jan 2019	Q.J130000.2631.14J97
25	Development Of An Assessment Instrument On Scientific Reasoning In Preparing For The Fourth Industrial Revolution	UTM	Tier 2	10000	Feb 2018	Jan 2019	Q.J130000.2631.14J82
26	Meningkatkan Peranan Ibu Bapa, Komuniti Dan Masyarakat Dalam Pembangunan Akademik, Sahsia, Disiplin Murid Serta Kokurikulum Melalui Karnival STEM Di Kluang.	Other (National)	Networking Grant	10500	Feb 2017	Apr 2017	S.J130000.7331.4X262
27	Mengenalpasti Sikap Dan Minat Pelajar Sekolah Menengah Aliran Sains Terhadap STEM Melalui Aktiviti Eksplorace.	Other (National)	Networking Grant	5000	Feb 2017	May 2017	S.J130000.7331.4X263
28	Mengenalpasti Keberkesanan Karnival Suka Belajar Dalam Meningkatkan Minat Dan Sikap Pelajar Terhadap STEM	Other (National)	Networking Grant	10000	Feb 2017	Dec 2017	S.J130000.031.4X264
29	Kerangka Kemahiran Generik Anak-Anak Autisme Dalam	Other (National)	FRGS	42400	Aug 2017	Feb 2020	R.J130000.7831.4F922

	Pendidikan Teknik Dan Vokasional						
30	Heutagogy Framework for Structural Steel Design in Civil Engineering Curriculum	UTM	Tier 1	40000	Jul 2017	Jun 2019	Q.J130000.2501.17H53
31	Tingkah laku Metakognitif Pelajar Semasa Menyelesaikan Masalah Matematik Pentaksiran Tingkatan Tiga (PT3)	UTM	Tier 1	40000	Jul 2017	Aug 2018	Q.J130000.2531.16H62
32	Development Of A Substantive Theory On The Interrelation And Interaction Among Pertinent Elements Of Critical Thinking And Mathematical Thinking In Real-World Engineering Practice For Engineering Education	Other (National)	FRGS	60200	Aug 2016	Jul 2018	R.J130000.7831.4F912
33	Educational Trainer Kits For Electric Circuit Course As A Catalyst To Boost The Technical Skills For Students	UTM	PAS	20000	Apr 2016	Sept 2017	Q.J130000.2731.02K31
34	Current Scenario of the Teaching of Complex Problem Solving among Engineering Lecturers in UTM	UTM	Flagship	40000	Oct 2014	Mar 2017	Q.J130000.2409.02G61

COLLABORATION / MOU

NO	NAME OF COLLABORATION/MOU	LEVEL OF MOU (NATIONAL/INTERNATIONAL)	STARTING DATE	ENDING DATE
1.	MoU between UTM and Universitas Jember (UNEJ)	International	26/11/2021	25/11/2024
2.	Collaboration between UTM and Politeknik Mersing (PMS)	Community/National	22/10/2020	31/12/2020

SUPERVISION

Summary	
Main Supervisor – PhD (Graduated)	2
Co-Supervisor – PhD (Graduated)	5
Main Supervisor – PhD (Ongoing)	12
Co-Supervisor – PhD (Ongoing)	5
Main Supervisor- Master by Research (Graduated)	0
Main Supervisor- Master by Research (On-Going)	1
Main Supervisor- Master by Taught Course (Graduated)	26
Main Supervisor- Master by Taught Course (On-Going)	0
Main Supervisor- Master by Mixed-Mode (Graduated)	2
Main Supervisor- Master by Mixed-Mode (On-Going)	1

PhD Student

No.	Name	Status (Graduated/ On-Going)	Title	Roles of Supervision
1.	Aliyu Jaafaru	Graduated On Time (2023)	Enhancing Students' Engagement in Simultaneous Equation Involving Indices with Cooperative Learning Strategy through GeoGebra	Main Supervisor
2.	Chiang Kok Wei	Graduated (2021)	Van Hiele-Oriented Visualisation Learning Activities using Geometer's Sketchpad in the Topic of Circles	Main Supervisor
3.	Atiqah Binti Nawawi	Graduated (2023)	Penerokaan Faktor Motivasi yang Mendorong Aspek Kognitif dan Tingkah Laku Keusahawanan dalam Inovasi Penyelidikan Akademik	Co-Supervisor
4.	Christie Lanjing Anak Entika	Graduated (2018)	The framework of Contextualised Action Learning Process for Entrepreneurial Skill Development for Future Civil Engineering Graduates	Co-Supervisor
5.	Nurul Shida Binti Noni	Graduated (2020)	Enhancing Problem Solving in Integral Calculus Through Critical Thinking Learning Strategy among Polytechnic Students	Co-Supervisor
6.	Muhammad Ammar Naufal	Graduated (2021)	Pengembangan Tahap Pemikiran Geometri Pelajar Sekolah Menengah di Makassar melalui Penerapan Aktiviti Metakognisi dalam Model Van Hiele	Co-Supervisor
7.	Muhammad Sani Abdurrahman	Graduated On Time (2021)	Mathematical Thinking in Linear Algebra through Peer Tutoring Strategy among Polytechnic Students in Nigeria	Co-Supervisor
8.	Habu Ibrahim	On-Going	APOS-Problem Solving And Demonstration Methods Learning Strategy to Enhance Students' Algebraic Achievement In Adamawa State, Nigeria	Main Supervisor
9.	Sharmala Devi Naidu A/P Raman	On-Going	Realistic Mathematics Education approach in Digital Learning and its Effectiveness in Mathematics Teaching among Primary School Student Teachers in Malaysia	Main Supervisor
10.	Yogeswari A/P Murugaiya	On-Going	The Effectiveness of Fraction Learning Aid in Problem Solving among Year 4 Students	Main Supervisor
11.	Kuga Darsani A/P Ravichandran	On-Going	Puppet Model as a Pedagogical Tool and Puppet Play as a Method for the Development of Preschool Students' Interest and Understanding on Basic Mathematics Education	Main Supervisor
12.	Nurul Anis Syuhada Binti Adnan	On-Going	Pembentukan Minat dan Efikasi Kendiri Murid Terhadap Stem melalui Pembelajaran Geometri Menggunakan Teknologi Augmented Reality	Main Supervisor
13.	Liu Siyu	On-Going	TBD	Main Supervisor

14.	Nur Aini Khoo Binti Ahmad Fuad Khoo	On-Going	Enhancing Rational Numbers Problem Solving by the Integration of Critical and Creative Thinking Skills into Problem-Based Learning Approach	Main Supervisor
15.	Nor Afiqah Hamizah Binti Noor Ishak	On-Going	Enhancing Differentiation Problem- Solving through Computational Thinking Learning Strategy among Secondary Schools Students	Main Supervisor
16.	Nurfirzanah Binti Muhamad Fadzil	On-Going	Twenty-first Century-STEM Education Framework for Secondary School in Malaysia	Main Supervisor
17.	Yanusha A/P Jegathesan	On-Going	TBD	Main Supervisor
18.	Hu Simiao	On-Going	TBD	Main Supervisor
19.	Muslimah Binti Shawan	On-Going	Strategi Pembelajaran Penyelesaian Masalah Bukan Rutin melalui Pendekatan Model 5E dalam kalangan Pelajar Sekolah Menengah	Main Supervisor
20.	Low Suan Ee	On-Going	Impact of Project-Based Learning on The Scientific Attitudes and Noble Values among the Primary Indigenous Students in Malaysia	Co-Supervisor
21.	Nur Afiqah Binti Mohamed Alfu	On-Going	Supporting Students Metacognitive By Integrating AR In Mathematics Problem Solvings	Co-Supervisor
22.	Chandra A/P Sinniah	On-Going	Pembelajaran Berasaskan Masalah Bukan Rutin Berbantuan Geogebra Terhadap Kreativiti Matematik dalam Penyelesaian Masalah	Co-Supervisor
23.	Ilda Salwani Binti Ameer Hamza	On-Going	Kajian Pembangunan dan Keberkesanan Strategi Pembelajaran Mc-Comet3 Terhadap Penguasaan Kepekaan Nombor dalam kalangan Murid Tahun Lima	Co-Supervisor
24.	Nur Izrah Binti Mohd Puzi	On-Going	Student's Mathematical Competencies in Electrical Engineering Course	Co-Supervisor

MSc. Student

No.	Name	Status (Graduated/ On-Going)	Mode (Research / Taught-course/ Mixed Mode)	Roles of Supervision
1.	Nurfirzanah Binti Muhamad Fadzil	Graduated (2023)	Mixed Mode	Main Supervisor
2.	Nurul Huda Binti Abdul Wahab	Graduated (2021)	Mixed Mode	Main Supervisor
3.	Yanusha A/P Jegathesan	Graduated (2023)	Taught Course	Main Supervisor

4.	Hu Simiao	Graduated (2023)	Taught Course	Main Supervisor
5.	Zeng Qingxing	Graduated (2023)	Taught Course	Main Supervisor
6.	Siti Nurajrina Binti Muksin	Graduated (2022)	Taught Course	Main Supervisor
7.	Sana R S Aboswah	Graduated (2022)	Taught Course	Main Supervisor
8.	Sharmala Devi Naidu A/P Raman	Graduated (2021)	Taught Course	Main Supervisor
9.	Dipnna A/P Arumugam	Graduated (2021)	Taught Course	Main Supervisor
10.	Nanthinee A/P Subramaniam	Graduated (2021)	Taught Course	Main Supervisor
11.	Kasturi A/P Gunasekaran	Graduated (2021)	Taught Course	Main Supervisor
12.	Nur Elieanie Binti Ibrahim	Graduated (2021)	Taught Course	Main Supervisor
13.	Tanudsa A/P Gunasekaran	Graduated (2020)	Taught Course	Main Supervisor
14.	Chan Li Ying	Graduated (2020)	Taught Course	Main Supervisor
15.	Puvanah A/P G. Ganesen	Graduated (2020)	Taught Course	Main Supervisor
16.	Heng Wen Qi	Graduated (2020)	Taught Course	Main Supervisor
17.	Chua Ye Ling	Graduated (2020)	Taught Course	Main Supervisor
18.	Nur Aini Khoo Binti Ahmad Fuad Khoo	Graduated (2019)	Taught Course	Main Supervisor
19.	Nurdiana Yasmin Binti Jamaluddin	Graduated (2019)	Taught Course	Main Supervisor
20.	Kuga Darsani A/P Ravichandran	Graduated (2019)	Taught Course	Main Supervisor
21.	Nurul Anis Syuhada Binti Adnan	Graduated (2019)	Taught Course	Main Supervisor
22.	Nor Afiqah Hamizah Binti Noor Ishak	Graduated (2018)	Taught Course	Main Supervisor
23.	Haritharan A/L Chandran	Graduated (2018)	Taught Course	Main Supervisor
24.	Che Nurul Azieana Binti Che Yang	Graduated (2018)	Taught Course	Main Supervisor
25.	Jessica Jannet Anak Ahi	Graduated (2018)	Taught Course	Main Supervisor
26.	Christine Jane Anak Ridos	Graduated (2018)	Taught Course	Main Supervisor

27.	Sivasangary A/P Raveendran	Graduated (2018)	Taught Course	Main Supervisor
28.	S Kartigeyan A/L K Saundarajan	Graduated (2018)	Taught Course	Main Supervisor
29.	Chong Xin Yee	On-Going	Research	Main Supervisor
30.	Nur Farhana Binti Jenuwa	On-Going	Mixed Mode	Main Supervisor

UTM POSTGRADUATE EXAMINATION/ VIVA

Summary	
MSc. Internal Examiner	9
Fast track student examiner	1
Others Examiner [PhD proposal]	9

Msc Internal Examiner

NO	ROLE	STUDENTS NAME	TITLE	YEAR
1.	Examiner	Noor Suhaily binti Misrom	Penggunaan GeoGebra bagi Graf Fungsi II Melalui Pembelajaran Secara Penaakulan Induktif berbantuan Teknologi	2018
2.	Examiner	Kalaiarasi A/P Nadarajan	Keberkesanan Strategi Pembelajaran Kelas Berbalik Matematik dalam Meningkatkan Kemahiran Berfikir Aras Tinggi dan Motivasi Pelajar	2020
3.	Examiner	Adibah Binti Mohd Alwi	The Effect of Predict- Observe-Explain Strategy Towards Students Achievement, Conception And Motivation on Learning Electrochemistry	2021
4.	Examiner	Intan Maisara Binti Harun	Kesan Pembelajaran Berasaskan Permainan dalam Persekitaran Pembelajaran Luar Bilik Darjah Terhadap Kemahiran Berfikir Aras Tinggi dan Motivasi Murid	2021
5.	Examiner	Zuraini Binti Marion	Meningkatkan Penguasaan dan Minat Pelajar dalam Ungkapan Algebra melalui Inkuiri Penemuan Berbantuan Perisian Geogebra	2022
6.	Examiner	Azwan Bin Azemi	Kesan Penggunaan Teknik Mnemonik QBDIS Dalam Pembelajaran Koperatif (STAD) Terhadap Pencapaian Dan Motivasi Pelajar Matrikulasi Bagi Topik Fungsi Trigonometri	2023
7.	Examiner	Hadi Shafien Bin Udin	Pembangunan Modul Pembelajaran Geogebra Berasaskan Teori Van Hiele Dalam Meningkatkan Tahap Pemikiran Geometri Murid Tahun Lima	2023
8.	Examiner	Nur Huda Binti Mohamed Zain	Pembangunan Modul Pembelajaran Berasaskan Bahan Manipulatif Bagi Ungkapan Algebra Tingkatan Satu	2023

9.	Examiner	Nurulhuda Bt A Ghani	Kesan Strategi Pembelajaran POE- Visualisasi (POEV) Terhadap Kefahaman Konsep Dan Keyakinan Murid Dalam Ikatan Kimia	2023
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Fast track student examiner

NO	ROLE	STUDENTS NAME	TITLE	YEAR
1.	Evaluator	Izzah Mardhiya binti Mohamad Isa	Integrasi Budaya Masyarakat dalam Pendidikan Fizik di Sekolah Luar Bandar	2020

Other examiner [PhD Proposal]

NO	ROLE	STUDENTS NAME	TITLE	YEAR
1.	Examiner	Rohaniza Binti Md Sullah	Meningkatkan Kreativiti dan Pemahaman Geometri Murid Tahun Lima di Sekolah Rendah Melalui Pembelajaran Berasaskan Pengalaman	2021
2.	Examiner	Sarah Omar M Melaibari	Implementation of Realistic Mathematics Education To Enhance PYP Business and Administration Students' Competencies in Mathematics	2021
3.	Examiner	Hartini Binti Ismail	Kesan Pembelajaran Berasaskan Inkuiri Menggunakan Realiti Berperantara Bagi Mengatasi Miskonsepsi dalam Topik Bentuk dan Ruang	2021
4.	Examiner	Sumaiyah Binti Mohd Zaid	Pembangunan Modul Berasaskan Istem bagi Membentuk Pemikiran Geometri Tahun Lima	2022
5.	Examiner	Hasvyini A/P Selvam	Effect of Scenario-Based Learning on Students' Interest in Stem Career and Achievement in Statistics and Probability	2022
6.	Examiner	Nur Syuhada Binti Rusli	Keberkesanan E-Modul Pembelajaran Berasaskan Masalah Keseimbangan Kimia Dalam Meningkatkan Kemahiran Berfikir Aras Tinggi Pelajar	2022
7.	Examiner	Aini Aziziah Binti Ramli	Integrasi Pendidikan Stem Dan Penghayatan Al-Quran Melalui Pembelajaran Berasaskan Projek Dalam Meningkatkan Pemikiran Kritis	2023
8.	Examiner	Zakka Ezekiel	Causal model of variables affecting performance of students in mathematics mock examination in senior secondary schools in Bauchi state, Nigeria	2023
9.	Examiner	Syed Abdul Hakim Bin Syed Zainuddin	Meningkatkan Kreativiti Dan Pemahaman Geometri Murid Sekolah Rendah Melalui Model Pembelajaran Berasaskan Pengalaman Dan Pendekatan Stem	2023

PUBLICATIONS

Summary	
ISI Article/Journal	30
Scopus Article/Journal	64 [including 27 articles in the ISI Journal]
ERA Article/Journal	3
Non-Indexed Article/Journal	13
Indexed Conference Proceedings (Scopus)	8
Non- Indexed Conference Proceedings/Paper	40
Book Chapters	2
Original Book	1
Classified/Technical /Expert Report	0
Policy Paper	0

PUBLICATION IN WEB OF SCIENCE				
No.	Journal/Title Name	Article Name	Year	IF/Quartile
1.	COMUNICAR	ENGLISH LEARNERS' INTENTIONS TO ADOPT ONLINE LEARNING POST-PANDEMIC: EASE PRECEDES USEFULNESS	2023	5.6/Q1
2.	ONLINE INFORMATION REVIEW	HEY, LET'S TAKE A SELFIE: INSIGHTS OF SELFIE DEFAMILIARISATION IN THE CLASSROOM	2023	3.1/Q2
3.	TEM JOURNAL-TECHNOLOGY EDUCATION MANAGEMENT INFORMATICS	EUCLIDA: 3D AUGMENTED REALITY CARD FOR LEARNING NUMERACY ABOUT GEOMETRY	2023	0.7
4.	TEM JOURNAL-TECHNOLOGY EDUCATION MANAGEMENT INFORMATICS	VIRTUAL LAB GEOMETRY DEVELOPMENT AS ONLINE LEARNING MEDIA ALTERNATIVES AT UNIVERSITAS PGRI SEMARANG AND UNIVERSITI TEKNOLOGI MALAYSIA	2023	0.7
5.	JOURNAL OF TECHNICAL EDUCATION AND TRAINING	FACTORS AFFECTING THE LEVEL OF ACHIEVING EMPLOYABILITY 4.0 OF HEARING-IMPAIRED SPECIAL EDUCATION STUDENTS	2023	0.7
6.	INTERNATIONAL JOURNAL OF EDUCATIONAL TECHNOLOGY IN HIGHER EDUCATION	MICRO-CREDENTIALS IN LEVERAGING EMERGENCY REMOTE TEACHING: THE RELATIONSHIP BETWEEN NOVICE USERS' INSIGHTS AND IDENTITY IN MALAYSIA	2022	4.944/Q1
7	AUSTRALASIAN JOURNAL OF EDUCATIONAL TECHNOLOGY	REMODELLING THE ROLE OF FACILITATING CONDITIONS FOR GOOGLE CLASSROOM ACCEPTANCE: A REVISION OF UTAUT2	2022	3.067/Q2
8	SUSTAINABILITY	MOBILE LEARNING ACCEPTANCE POST PANDEMIC: A BEHAVIOURAL SHIFT AMONG ENGINEERING UNDERGRADUATES	2022	3.251/Q2
9	INTERNATIONAL JOURNAL OF EARLY CHILDHOOD SPECIAL EDUCATION (INT-JECSE)	GRADUATE EMPLOYABILITY SKILLS NEEDED IN THE ERA OF INDUSTRIAL REVOLUTION 4.0: PERSPECTIVE FROM INDUSTRIAL PRACTITIONER	2022	-
10	TEM JOURNAL	TEACHING STRATEGIES FOR MATHEMATICAL PROBLEM-SOLVING THROUGH THE LENS OF SECONDARY SCHOOL TEACHERS	2021	-
11	JOURNAL OF TECHNICAL EDUCATION AND TRAINING	DEVELOPMENT OF AUGMENTED REALITY APPLICATIONS IN TEACHING AND LEARNING FOR A TOPIC OF CURRENT AND VOLTAGE DIVISION FOR TECHNICAL AND VOCATIONAL EDUCATION	2021	-
12	INTERNATIONAL JOURNAL OF INSTRUCTION	THE EFFECTIVENESS OF INFUSION OF METACOGNITION IN VAN HIELE MODEL ON SECONDARY SCHOOL STUDENTS' GEOMETRY THINKING LEVEL	2021	-

13	EDUCATION AND INFORMATION TECHNOLOGIES	GOOGLE CLASSROOM: INSIGHTS FROM MALAYSIAN HIGHER EDUCATION STUDENTS' AND INSTRUCTORS' EXPERIENCES	2020	-
14	JOURNAL OF CIVIL ENGINEERING EDUCATION	A GROUNDED-THEORY STUDY OF CIVIL ENGINEERING DESIGN PRACTICE IN MALAYSIA	2020	1.372/Q3
15	IEEE ACCESS	THE PROMINENT DIMENSIONS OF ENTREPRENEURIAL SKILLSET FOR FUTURE CIVIL ENGINEERING GRADUATES AND SALIENT FACTOR THAT PROMOTES ITS DEVELOPMENT	2020	3.745/Q1
16	IEEE ACCESS	BEHAVIORAL INTENTION TO USE MOBILE LEARNING: EVALUATING THE ROLE OF SELF-EFFICACY, SUBJECTIVE NORM, AND WHATSAPP USE HABIT	2020	3.745/Q1
17	INTERNATIONAL JOURNAL OF EMERGING TECHNOLOGIES IN LEARNING	ENHANCING STUDENTS' HIGHER-ORDER THINKING SKILLS (HOTS) THROUGH AN INDUCTIVE REASONING STRATEGY USING GEOGEBRA	2020	-
18	INTERNATIONAL JOURNAL OF EMERGING TECHNOLOGIES IN LEARNING	LEARNING ALGEBRA USING AUGMENTED REALITY: A PRELIMINARY INVESTIGATION ON THE APPLICATION OF PHOTOMATH FOR LOWER SECONDARY EDUCATION	2020	-
19	INTERNATIONAL JOURNAL OF EMERGING TECHNOLOGIES IN LEARNING	A PROPOSED HEUTAGOGY FRAMEWORK FOR STRUCTURAL STEEL DESIGN IN CIVIL ENGINEERING CURRICULUM	2019	-
20	PERTANIKAJOURNAL OF SOCIAL SCIENCES AND HUMANITIES	MATH-RELATED CRITICAL THINKING THEORY IN CIVIL ENGINEERING DESIGN	2019	-
21	INTERNATIONAL JOURNAL OF EMERGING TECHNOLOGIES IN LEARNING	THE INFLUENCE OF E-LEARNING TOWARDS METACOGNITIVE ENHANCEMENT IN MATHEMATICAL PROBLEM SOLVING	2019	-
22	INTERNATIONAL JOURNAL OF ONLINE AND BIOMEDICAL ENGINEERING	IMPACTS OF CONCEIVE-DESIGN-IMPLEMENT-OPERATE KNOWLEDGE AND SKILLS FOR INNOVATIVE CAPSTONE PROJECT	2019	-
23	JOURNAL OF TECHNICAL EDUCATION AND TRAINING	CONCEIVE-DESIGN-IMPLEMENT-OPERATE (CDIO) APPROACH FOR AN INNOVATIVE CAPSTONE PROJECT	2018	-
24	JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES	A PRELIMINARY STUDY ON PRE-SERVICE TESOL TEACHERS ATTITUDES TOWARDS THE USE OF ICT FOR TEACHING IN MALAYSIA	2018	-
25	ADVANCED SCIENCES LETTER	EFFECTIVENESS OF EDUCATIONAL TRAINER KITS TO ENHANCE THE TECHNICAL SKILLS FOR STUDENTS	2018	-
26	ADVANCED SCIENCE LETTERS	INDUCTIVE, DEDUCTIVE AND ABDUCTIVE APPROACHES IN GENERATING NEW IDEAS: A MODIFIED GROUNDED THEORY STUDY	2018	-
27	ADVANCED SCIENCE LETTERS	MALAYSIAN TEACHERS' SELECTION OF HEURISTICS IN TEACHING MATHEMATICS	2018	-
28	THE TURKISH ONLINE JOURNAL OF DESIGN, ART AND COMMUNICATION - TOJDAC	A REVIEW OF GENERIC SKILLS FOR EMPLOYABILITY OF AUTISTIC INDIVIDUALS	2018	-
29	2017 7TH WORLD ENGINEERING EDUCATION FORUM (WEEF)	DEFINING THE MEANING OF ENTREPRENEURSHIP EDUCATION FOR FUTURE ENGINEERING GRADUATES	2017	-
30	JOURNAL OF TECHNICAL EDUCATION AND TRAINING	PRELIMINARY STUDY ON THE PROMINENT ENTREPRENEURIAL SKILLS SET IN THE CONTEXT OF CIVIL ENGINEERING PRACTICE	2017	-

PUBLICATION IN SCOPUS

No.	Journal/Title Name	Article Name	Year
1	INTERNATIONAL JOURNAL OF EVALUATION AND RESEARCH IN EDUCATION (IJERE)	DESIGN AND DEVELOPMENT OF CRITICAL THINKING LEARNING STRATEGY IN INTEGRAL CALCULUS	2023
2	NEW EDUCATIONAL REVIEW	QUALITY OF ALGEBRAIC NUMERATION PROBLEMS TO MEASURE HIGHER ORDER THINKING SKILLS USING PARTIAL CREDIT MODEL	2023
3	JOURNAL OF TECHNOLOGY AND SCIENCE EDUCATION	THE DESIGN AND DEVELOPMENT OF A LEARNING STRATEGY TO ENHANCE STUDENTS' ENGAGEMENT IN SIMULTANEOUS EQUATIONS: AN EVALUATION VIEWPOINT	2023
4	INTERNATIONAL JOURNAL OF EVALUATION AND RESEARCH IN EDUCATION (IJERE)	CHEMISTRY LECTURERS' ATTITUDES TOWARD EDUCATIONAL TECHNOLOGY: AFGHANISTAN LECTURER PERSPECTIVE	2022
5	INTERNATIONAL JOURNAL OF EVALUATION AND RESEARCH IN EDUCATION	EXPLORING TEACHER EFFECTS ON INTENSIFYING AND MINIMIZING MATHEMATICS ANXIETY AMONG STUDENTS IN SOKOTO STATE, NIGERIA	2022
6	ASM SCIENCE JOURNAL	LOOKING THROUGH DIFFERENT POINT OF VIEWS: CHARACTERISTICS OF A GOOD MATHEMATICS TEACHER	2022
7	INTERNATIONAL JOURNAL OF INTERACTIVE MOBILE TECHNOLOGIES,	DUAL MODE MODULE AS NEW INNOVATION IN LEARNING CHEMISTRY: PROJECT BASED LEARNING ORIENTED	2021
8	ASM SCIENCE JOURNAL	DIFFICULTIES IN SOLVING NON-ROUTINE PROBLEMS: PRELIMINARY ANALYSIS AND RESULTS	2021
9	INTERNATIONAL JOURNAL OF EVALUATION AND RESEARCH IN EDUCATION	REVIEWING THE VAN HIELE MODEL AND THE APPLICATION OF METACOGNITION ON GEOMETRIC THINKING	2021
10	INTERNATIONAL JOURNAL OF EVALUATION AND RESEARCH IN EDUCATION (IJERE)	IMPROVING POLYTECHNIC STUDENTS' HIGH-ORDER-THINKING-SKILLS THROUGH INQUIRY-BASED LEARNING IN MATHEMATICS CLASSROOM	2021
11	ACTA SCIENTIAE	PRIMARY SCHOOL TEACHERS' IDENTITY IN MATHEMATICS: THE ASPECT OF SPECIALIST TEACHING AND LEARNING	2021
12	INTERNATIONAL JOURNAL OF LEARNING, TEACHING AND EDUCATIONAL RESEARCH	MATHEMATICS TEACHERS' PEDAGOGY THROUGH TECHNOLOGY: A SYSTEMATIC LITERATURE REVIEW	2021
13	CONTEMPORARY EDUCATIONAL TECHNOLOGY	INVESTIGATING THE USE OF LEARNING MANAGEMENT SYSTEM (LMS) FOR DISTANCE EDUCATION IN MALAYSIA: A MIXED-METHOD APPROACH	2021
14	ASM SCIENCE JOURNAL	APPLICATION OF SAKAMOTO MATH METHOD IN SOLVING MATHEMATICAL WORD PROBLEMS FOR YEAR 5 PUPILS	2020
15	INTERNATIONAL JOURNAL OF PSYCHOSOCIAL REHABILITATION	LEARNING STRATEGY DEVELOPMENT FOR SOLVING NON-ROUTINE PROBLEMS THROUGH 5E MODEL IN MATHEMATICS LEARNING: A PROPOSAL	2020
16	UNIVERSAL JOURNAL OF EDUCATIONAL RESEARCH	POLYTECHNIC STUDENTS' MATHEMATICAL THINKING PROCESSES IN LINEAR ALGEBRA: A QUALITATIVE APPROACH	2020
17	EUROPEAN JOURNAL OF MOLECULAR & CLINICAL MEDICINE	PROBLEM BASED LEARNING ON CREATIVITY DOMAIN IN PROBLEM SOLVING FOR SECONDARY SCHOOL: A SYSTEMATIC LITERATURE REVIEW ANALYSIS	2020
18	INTERNATIONAL JOURNAL OF ADVANCED SCIENCE AND TECHNOLOGY	THE RELATIONSHIP BETWEEN LEARNING STYLES AND ACHIEVEMENT OF SOLVING ALGEBRAIC PROBLEMS AMONG LOWER SECONDARY SCHOOL STUDENTS	2020
19	UNIVERSAL JOURNAL OF EDUCATIONAL RESEARCH	DIFFICULTIES THAT STUDENTS FACE WHEN LEARNING ALGEBRAIC PROBLEM-SOLVING	2020

20	CIVIL ENGINEERING AND ARCHITECTURE	REIMAGINING CIVIL ENGINEER'S MANAGERIAL ROLE AS AN ENTREPRENEURIAL FUNCTION IN THE PRODUCTION SYSTEM OF A CONSTRUCTION PROJECT	2020
21	JOURNAL OF CRITICAL REVIEWS	A SYSTEMATIC REVIEW ON THE IMPACT OF PEER TUTORING STRATEGY IN LINEAR ALGEBRA AMONG POLYTECHNIC STUDENTS	2020
22	JOURNAL OF ADVANCED RESEARCH IN DYNAMICAL AND CONTROL SYSTEMS	EFFECT OF PEER TUTORING STRATEGY ON STUDENTS ACADEMIC PERFORMANCE IN A POLYTECHNIC LINEAR ALGEBRA CLASSROOM	2020
23	JOURNAL OF ADVANCED RESEARCH IN DYNAMICAL AND CONTROL SYSTEMS	DEVELOPING MATHEMATICAL THINKING AMONG POLYTECHNIC STUDENTS IN LINEAR ALGEBRA THROUGH PEER TUTORING STRATEGY	2020
24	UNIVERSAL JOURNAL OF EDUCATIONAL RESEARCH	DESIGN AND DEVELOPMENT OF LINEAR ALGEBRA PEER TUTORING STRATEGY TO DEVELOP STUDENTS MATHEMATICAL THINKING PROCESSES BASED ON EXPERTS' EVALUATION	2020
25	EURASIA JOURNAL OF MATHEMATICS, SCIENCE AND TECHNOLOGY EDUCATION	EXPLORING PEER EFFECT ON MATHEMATICS ANXIETY AMONG SECONDARY SCHOOL STUDENTS OF SOKOTO STATE, NIGERIA THROUGH PHOTOVOICE APPROACH	2020
26	ASM SCIENCE JOURNAL	EXPLORING THE USE OF MOBILE APPS FOR LEARNING: A CASE STUDY ON FINAL YEAR ENGINEERING UNDERGRADUATES IN MALAYSIA	2020
27	INTERNATIONAL JOURNAL OF PSYCHOSOCIAL REHABILITATION	DIFFICULTIES IN SOLVING NON-ROUTINE PROBLEMS IN MATHEMATICS LEARNING	2020
28	INTERNATIONAL JOURNAL OF RECENT TECHNOLOGY AND ENGINEERING (IJRTE)	STUDENTS' PERCEPTIONS OF THE USE OF ASYNCHRONOUS DISCUSSION FORUMS, QUIZZES, AND UPLOADED RESOURCES	2019
29	INTERNATIONAL JOURNAL OF INNOVATIVE TECHNOLOGY AND EXPLORING ENGINEERING	INVESTIGATING NEWMAN'S ERROR IN INTEGRAL CALCULUS	2019
30	INTERNATIONAL JOURNAL OF RECENT TECHNOLOGY AND ENGINEERING (IJRTE)	ASSESSMENT AND EVALUATION OF NON-FORMAL STEM EDUCATION PROGRAMS	2019
31	INTERNATIONAL JOURNAL OF INNOVATIVE TECHNOLOGY AND EXPLORING ENGINEERING	APPLICATION OF VEE DIAGRAM AS A PROBLEM-SOLVING STRATEGY IN DEVELOPING STUDENTS' CONCEPTUAL AND PROCEDURAL KNOWLEDGE	2019
32	IEEE EXPLORE	ENHANCING STUDENTS' MENTAL ROTATION SKILLS USING AUGMENTED REALITY LEARNING ENVIRONMENT	2018
33	INTERNATIONAL JOURNAL OF ENGINEERING AND TECHNOLOGY(UAE)	CRITICAL THINKING DISPOSITIONS AMONG POLYTECHNIC STUDENTS: WHY DOES IT MATTER?	2018
34	JOURNAL OF ADVANCED RESEARCH AND DYNAMICAL AND CONTROL SYSTEMS	CONSCIOUSNESS OF ENGINEERING LECTURERS IN POLYTECHNICS MALAYSIA FOR DEVELOPING EDUCATIONAL TRAINER RESEARCH CENTRE	2018
35	INTERNATIONAL JOURNAL OF ENGINEERING AND TECHNOLOGY(UAE)	STUDENTS' PERCEPTIONS OF THE USE OF ASYNCHRONOUS DISCUSSION FORUMS, QUIZZES, AND UPLOADED RESOURCES	2018
36	MAN IN INDIA	LEADERSHIP PRACTICES OF HIGH PERFORMING SCHOOLS PRINCIPALS IN MALAYSIA	2017
37	JOURNAL OF TECHNICAL EDUCATION AND TRAINING	PRELIMINARY STUDY ON THE PROMINENT ENTREPRENEURIAL SKILLS SET IN THE CONTEXT OF CIVIL ENGINEERING PRACTICE	2017

PUBLICATION IN ERA			
No.	Journal/Title Name	Article Name	Year
1	INTERNATIONAL JOURNAL OF LEARNING AND DEVELOPMENT	STUDENTS' ENGAGEMENT THROUGH TECHNOLOGY AND COOPERATIVE LEARNING: A SYSTEMATIC LITERATURE REVIEW	2022
2	INTERNATIONAL JOURNAL OF LEARNING AND DEVELOPMENT	THE PATTERN OF EPISTEMOLOGICAL BELIEF IN DESIGN AMONG ENGINEERING STUDENTS	2022
3	INTERNATIONAL JOURNAL OF ACADEMIC RESEARCH IN BUSINESS AND SOCIAL SCIENCES	WHEN YOU DON'T HAVE TO BE SEQUENTIAL: A META-ANALYSIS	2019

NON-INDEXED PUBLICATION			
No.	Journal/Title Name	Article Name	Year
1	JOURNAL OF EDUCATION: THEORY, RESEARCH, AND DEVELOPMENT	DEVELOPMENT OF "KIDS LEARNING" EDUCATIONAL GAME AS A BASIC LEARNING MEDIA ABOUT GEOMETRY MATERIALS FOR KINDERGARTEN CHILDREN	2023
2	JURNAL DIDAKTIK MATEMATIKA	THE APPLICATION OF SYNCHRONOUS AND ASYNCHRONOUS LEARNING USING E-LEARNING ON ELEMENTARY LINEAR ALGEBRA	2022
3	K R E A N O CREATIVE-INNOVATIVE MATHEMATICS (EDUCATION) JOURNAL	TRUTH-SEEKERS STUDENTS' CRITICAL THINKING PROCESS IN SOLVING MATHEMATICS PROBLEMS WITH CONTRADICTION INFORMATION	2022
4	AKSIOMA: JURNAL PROGRAM STUDI PENDIDIKAN MATEMATIKA	MATH TEACHER QUESTIONS CAN HELP STUDENTS AROUND COFFEE PLANTATIONS TO BEHAVE CRITICAL THINKING	2022
5	KREANO, JURNAL MATEMATIKA KREATIF-INOVATIF	THE STUDENTS' TRUTH-SEEKING BEHAVIOUR IN SOLVING THE PROBLEMS WITH NO SPECIFIED UNIVERSAL SET BASED ON IDEAL PROBLEM SOLVING	2021
6	JOURNAL PERSATUAN PENDIDIKAN TEKNIK DAN VOAKSIONAL MALAYSIA	PENGGUNAAN TEKNOLOGI MAKLUMAT DAN KOMUNIKASI (TMK) DALAM PEMBELAJARAN DAN PEMUDAHCARAAN DI KALANGAN GURU REKA BENTUK DAN TEKNOLOGI	2020
7	JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE	MOBILE APPLICATIONS FOR LEARNING: EXPLORING INFORMATION TECHNOLOGY UNDERGRADUATES PREFERENCE IN MALAYSIA	2020
8	INTERNATIONAL JOURNAL OF PSYCHOSOCIAL REHABILITATION	THE PRACTICE OF ENTREPRENEURSHIP EDUCATION IN A MALAYSIAN HIGHER EDUCATION INSTITUTION: A SINGLE CASE STUDY	2020
9	SOLID STATE TECHNOLOGY	FLEXIBILITY OF THE PHOTOVOICE RESEARCH APPROACH IN MATHEMATICS EDUCATION	2020
10	INNOVATIVE TEACHING AND LEARNING JOURNAL	PENGGUNAAN SUMBER ICT DALAM PENGAJARAN KIMIA : CABARAN KEPADA GURU MASA KINI	2019
11	JURNAL PENDIDIKAN UNIVERSITI TEKNOLOGI MALAYSIA	PERANCANGAN DAN KOMUNIKASI BERKESAN PENGAJARAN PENDIDIKAN VOKASIONAL BAGI PELAJAR-PELAJAR AUTISME	2018
12	INTERNATIONAL ELECTRONIC JOURNAL OF MATHEMATICS EDUCATION	ENHANCING STUDENTS' MATHEMATICAL PROBLEM-SOLVING SKILLS THROUGH BAR MODEL VISUALISATION TECHNIQUE	2018
13	MALAYSIAN JOURNAL OF HIGHER ORDER THINKING SKILLS	PROSES PENYELESAIAN MASALAH PELAJAR TAHUN 5 DALAM KEMAHIRAN BERFIKIR ARAS TINGGI (KBAT) TOPIK ISIPADU CECAIR MELALUI INTERAKSI	2017

INDEXED PROCEEDING				
No.	Journal/Title Name	Article Name	Year	
1	AIP CONFERENCE PROCEEDINGS	DUB CHEM VID MODULE FOR CHEMISTRY TOPIC ABSTRACT NATURE RA	2022	
2	AIP CONFERENCE PROCEEDINGS	GRADUATE EMPLOYABILITY SKILLS NEEDED IN THE ERA OF INDUSTRIAL REVOLUTION 4.0: PERSPECTIVE FROM INDUSTRIAL PRACTITIONER	2022	
3	AIP CONFERENCE PROCEEDINGS	GRADUATE SUCCESS ATTRIBUTES FOR ENGINEERING STUDENTS: MAJOR LEARNING OUTCOMES AND SIGNIFICANCE OF THE COURSE	2022	
4	AIP CONFERENCE PROCEEDINGS	THE EFFECT OF THE INFUSION LEARNING APPROACH ON THE STUDENTS' TRUTH-SEEKING BEHAVIOR ON CARTESIAN COORDINATES	2022	
5	AIP CONFERENCE PROCEEDINGS	COMPUTATIONAL THINKING IN MATHEMATICS EDUCATION: A SYSTEMATIC REVIEW	2022	
6	AIP CONFERENCE PROCEEDINGS	MODEL FOR THE FORMATION OF STUDENTS' INTEREST IN STEM THROUGH GEOMETRY LEARNING BASED ON VISUAL SPATIAL ABILITIES USING AUGMENTED REALITY TECHNOLOGY	2022	
7	AIP CONFERENCE PROCEEDINGS	DEFINING THE MEANING OF ENTREPRENEURSHIP EDUCATION FOR FUTURE ENGINEERING GRADUATES	2018	
8	AIP CONFERENCE PROCEEDINGS	A PRELIMINARY STUDY ON THE INTEGRAL RELATIONSHIP BETWEEN CRITICAL THINKING AND MATHEMATICAL THINKING AMONG PRACTICING CIVIL	2015	

OTHER PUBLICATION				
No.	Journal/Title Name	Article/ Chapter Name	Publication Type	Year
1	UTM NEWSHUB	RG-SME FROM SCHOOL OF EDUCATION INVITES UTM ALUMNI TO COLLOQUIUM SESSION	ARTICLE IN MASS MEDIA	2019
2	UTM GLOBAL PLAN 2012-2020 PHASE III: 2018-2020 & ENVISION UTM 2025	-	BOOK	2018
3	PROBLEM AND STRATEGIES: CHEMISTRY BEYOND THE CLASSROOM	A CRITICAL REVIEW OF ALTERNATIVE CONCEPTIONS IN LEARNING CHEMISTRY AND SUGGESTIONS TO OVERCOME THE PROBLEM	BOOK CHAPTER	2018
4	BEST PRACTICES IN EDUCATION MANAGEMENT: TEACHING, LEARNING AND RESEARCH	COMPARISON APPROACH IN MATHEMATICS LEARNING: A META-ANALYSIS	BOOK CHAPTER	2019
5	2017 INTERNATIONAL CONFERENCE ON ART, BUSINESS, EDUCATION AND SOCIAL SCIENCES (ABESS'2017).	EFFECTIVENESS OF EDUCATIONAL TRAINER KITS TO ENHANCE THE TECHNICAL SKILLS FOR STUDENTS	CONFERENCE PAPER	2017
6	2017 INTERNATIONAL CONFERENCE ON ART, BUSINESS, EDUCATION AND SOCIAL SCIENCES (ABESS)	INDUCTIVE, DEDUCTIVE AND ABDUCTIVE APPROACHES IN GENERATING NEW IDEAS: A MODIFIED GROUNDED THEORY STUDY	CONFERENCE PAPER	2017
7	INTERNATIONAL CONFERENCE ON APPLIED COUNSELLING AND PSYCHOLOGY 2017	LEADERSHIP PRACTICES OF HIGH PERFORMING SCHOOLS IN MALAYSIA	CONFERENCE PAPER	2017
8	2017 INTERNATIONAL CONFERENCE ON ART, BUSINESS, EDUCATION, AND SOCIAL SCIENCES	MALAYSIAN TEACHERS SELECTION OF HEURISTICS IN TEACHING MATHEMATICS	CONFERENCE PAPER	2017
9	INTERNATIONAL CONFERENCE ON SCIENCE AND MATHEMATICS EDUCATION (COSMED)	MOVING TOWARD STEM INTEGRATION: UNDERSTANDING CURRENT TEACHING PRACTICES OF PHYSICS TEACHERS	CONFERENCE PAPER	2017
10	THE WORLD ENGINEERING EDUCATION FORUM (WEEF)2017	DEFINING THE MEANING OF ENTREPRENEURSHIP EDUCATION FOR FUTURE ENGINEERING GRADUATES	CONFERENCE PAPER	2017
11	UTM 4TH INTERNATIONAL EDUCATION POSTGRADUATE SEMINAR 2017 (4TH IEPS 2017)	EXPLORING ENTREPRENEURIAL MINDSET IN TEACHING AND LEARNING INNOVATIONS	CONFERENCE PAPER	2017
12	INTERNATIONAL EVENT FOR AUTISM 2018	PERANCANGAN DAN KOMUNIKASI BERKESAN PENGAJARAN PENDIDIKAN VOKASIONAL BAGI PELAJAR AUTISME	CONFERENCE PAPER	2018

13	3RD INTERNATIONAL SCIENCES, TECHNOLOGY & ENGINEERING (ISTEC) 2018 - COMPUTER SCIENCE & TECHNOLOGY	A PRELIMINARY STUDY ON PRE-SERVICE TESOL TEACHERS ATTITUDES TOWARDS THE USE OF ICT FOR TEACHING IN MALAYSIA	CONFERENCE PAPER	2018
14	2ND ASIA INTERNATIONAL MULTIDISCIPLINARY CONFERENCE (AIMC 2018)	CRITICAL THINKING DISPOSITIONS AMONG POLYTECHNIC STUDENTS: WHY DOES IT MATTER?	CONFERENCE PAPER	2018
15	6TH WORLD CONGRESS ON TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING (WOCTVET) 2018	IMPACTS OF CONCEIVE-DESIGN-IMPLEMENT-OPERATE (CDIO) APPROACH FOR AN INNOVATIVE CAPSTONE PROJECT	CONFERENCE PAPER	2018
16	3RD TECHNICAL AND VOCATIONAL, EDUCATION AND TRAINING INTERNATIONAL CONFERENCE	MATH APPS FOR FOURIER SERIES	CONFERENCE PAPER	2018
17	INTERNATIONAL CONFERENCE OF CREATIVITY, INNOVATION, AND INVENTION IN DIFITAL TECHNOLOGY	EXPLORING THE USE OF MOBILE APPS FOR LEARNING: A SURVEY AMONG FINAL YEAR ENGINEERING UNDERGRADUATES IN MALAYSIA	CONFERENCE PAPER	2018
18	IEPS 2018	INVESTIGATING NEWMAN'S ERROR IN INTEGRAL CALCULUS	CONFERENCE PAPER	2018
19	IEPS 2018	A CASE STUDY ON VAN HIELE LEVELS OF GEOMETRIC THINKING AMONG SECONDARY SCHOOL STUDENTS IN MAKASSAR	CONFERENCE PAPER	2018
20	IEPS 2018	PENDEKATAN PERBANDINGAN SATU PILIHAN ATAU KEPERLUAN DALAM PEMBELAJARAN MATEMATIK	CONFERENCE PAPER	2018
21	INTERNATIONAL CONFERENCE KAIZEN IN MANAGEMENT, EDUCATIOAN, SOCIAL SCIENCE AND TECHNOLOGY (ICKIMESST 2018)	WHEN YOU DON'T HAVE TO BE SEQUENTIAL: A META-ANALYSIS	CONFERENCE PAPER	2018
22	3RD ASIA INTERNATIONAL MULTIDISCIPLINARY CONFERENCE (AIMC 2019)	IMPACTS OF CONCEIVE-DESIGN-IMPLEMENT-OPERATE KNOWLEDGE AND SKILLS FOR INNOVATIVE CAPSTONE PROJECT	CONFERENCE PAPER	2019
23	1ST SCIENTIA ACADEMIA CONFERENCE ON MANAGEMENT, ENTREPRENEURSHIP, AND SOCIAL SCIENCES (SAC-MESS 2019)	ANGGUN 3D AS A LEARNING STRATEGY TO DEVELOP STUDENTS' NUMBER SENSE: A THEORETICAL FRAMEWORK	CONFERENCE PAPER	2019
24	3RD ASIA INTERNATIONAL MULTIDISCIPLINARY CONFERENCE	MOBILE APPLICATIONS FOR LEARNING: EXPLORING INFORMATION TECHNOLOGY UNDERGRADUATES PREFERENCE IN MALAYSIA	CONFERENCE PAPER	2019
25	THE 2ND INTERNATIONAL CONFERENCE ON EDUCATION (ICE) 2019	EXPLORING LECTURERS' ACCEPTANCE OF LEARNING MANAGEMENT SYSTEMS IN MALAYSIAN HIGHER EDUCATIONAL INSTITUTION	CONFERENCE PAPER	2019
26	3RD INTERNATIONAL CONFERENCE ON EDUCATIONAL STUDIES (ICES 2019)	LEARNING STRATEGY DEVELOPMENT FOR NON-ROUTINE PROBLEM-SOLVING THROUGH 5E MODEL IN MATHEMATICS LEARNING	CONFERENCE PAPER	2019
27	3RD ASIA INTERNATIONAL MULTIDISCIPLINARY CONFERENCE (AIMC 2019)	A REVIEW ON THE CREATIVE TEACHING AND LEARNING IN MATHEMATICS PROBLEM SOLVING	CONFERENCE PAPER	2019
28	NEW ACADEMIA LEARNING INNOVATION (NALI) 2019	TEACHING GRADUATE SUCCESS ATTRIBUTE (UHAK 1012) BY USING SERVICE LEARNING APPROACH	CONFERENCE PAPER	2019
29	EDUCATIONAL INITIATIVES RESEARCH COLLOQUIUM 2019	PENCAPAIAN PELAJAR DALAM PEMFAKTORAN PERSAMAAN KUADRATIK MENGGUNAKAN KAEDAH CPR	CONFERENCE PAPER	2019
30	6TH INTERNATIONAL SOCIAL SCIENCES POSTGRADUATES CONFERENCE (ISPC 2019)	IMPROVING MATHEMATICAL THINKING SKILLS THROUGH PEER TUTORING STRATEGY IN A LINEAR ALGEBRA CLASSROOM: A THEORETICAL FRAMEWORK	CONFERENCE PAPER	2019
31	5TH ASIA INTERNATIONAL CONFERENCE (AIC 2019)	DIFFICULTIES IN SOLVING NON-ROUTINE PROBLEMS IN MATHEMATICS LEARNING	CONFERENCE PAPER	2019
32	6TH INTERNATIONAL SOCIAL SCIENCES POST GRADUATE CONFERENCE	A REVIEW ON PLANNING AND IMPLEMENTATION OF TEACHING AND LEARNING OF VOCATIONAL EDUCATION (VE) TO AUTISM STUDENTS IN MALAYSIA	CONFERENCE PAPER	2019

33	VIRTUAL INTERNATIONAL CONFERENCE ON UBIQUITOUS EDUCATION AND LEARNING	LOOKING THROUGH DIFFERENT LENSES: CHARACTERISTICS OF A GOOD MATHEMATICS TEACHER	CONFERENCE PAPER	2020
34	INTERNATIONAL CONFERENCE OF MATHEMATICS EDUCATION, LEARNING AND APPLICATION (ICOMELA)	MODEL FOR THE FORMATION OF STUDENTS' INTEREST IN STEM THROUGH GEOMETRY LEARNING BASED ON VISUAL SPATIAL ABILITIES USING AUGMENTED REALITY TECHNOLOGY	CONFERENCE PAPER	2021
35	INTERNATIONAL CONFERENCE OF MATHEMATICS EDUCATION, LEARNING AND APPLICATION (ICOMELA)	COMPUTATIONAL THINKING IN MATHEMATICS EDUCATION: A SYSTEMATIC REVIEW	CONFERENCE PAPER	2021
36	INTERNATIONAL CONFERENCE OF MATHEMATICS EDUCATION, LEARNING AND APPLICATION (ICOMELA)	THE EFFECT OF THE INFUSION LEARNING APPROACH ON THE STUDENTS' TRUTH-SEEKING BEHAVIOR ON CARTESIAN	CONFERENCE PAPER	2021
37	PROSIDING KAJIAN TINDAKAN DALAM PENDIDIKAN STEM (SAINS, TEKNOLOGI, KEJURUTERAAN DAN M A T E M A T I K	MENINGKATKAN PENGUASAAN PELAJAR TINGKATAN 1 DALAM SUBTOPIK PERSENYAWAAN DAN KEHAMILAN MENGGUNAKAN INOVASIBAHAN BANTU MENGAJAR KIT KEHAMILAN	PROCEEDINGS	2017
38	NALI 2018	COOLVERTER: A LEARNING AID TO MASTER THE SKILL OF CONVERTING UNITS OF LENGTH	PROCEEDINGS	2018
39	ISU-ISU PENDIDIKAN KONTEMPORARI SEM II 2017-2018	HUBUNGAN ANTARA KECERDASAN EMOSI DAN MOTIVASI PELAJAR DALAM MENYELESAIKAN MASALAH MATEMATIK BUKAN RUTIN	PROCEEDINGS	2019
40	ISU-ISU PENDIDIKAN KONTEMPORARI	EXPLORING TEACHING STRATEGIES FOR TEACHING MATHEMATICAL PROBLEM-SOLVING IN A SECONDARY SCHOOL THROUGH TEACHERS' PERSPECTIVES	PROCEEDINGS	2019
41	PROCEEDINGS OF THE SIXTH INTERNATIONAL SOCIAL SCIENCES POSTGRADUATES CONFERENCE	KAJIAN AWAL : KESAN PERISIAN SCRATCH TERHADAP PELAJAR TINGKATAN DUA DALAM MENINGKATKAN KEMAHIRAN PEMIKIRAN KOMPUTASIONAL	PROCEEDINGS	2020
42	PROCEEDING OF LEADERSHIP SYMPOSIUM 2020	UTMLEAD LEADERSHIP DEVELOPMENT: PROCESS AND DESIGN	PROCEEDINGS	2020
43	PROCEEDINGS OF THE 2ND INTERNATIONAL CONFERENCE ON EDUCATION, ICE 2019, 27-28 SEPTEMBER 2019, UNIVERSITAS MUHAMMADIYAH PURWOREJO, INDONESIA	EXPLORING LECTURERS' ACCEPTANCE OF LEARNING MANAGEMENT SYSTEMS IN MALAYSIAN HIGHER EDUCATIONAL INSTITUTION	PROCEEDINGS	2020

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

NO	ROLE	TITLE OF PROGRAMME	DATE	LOCATION
1.	Visiting lecturer/Guest Speaker	Learning Innovation in Elementary Schools to welcome the Industrial Revolution 5.0	17-June-2023	Universitas PGRI Semarang (virtual)
2.	Invited Guest Lecturer	Higher Level Thinking in Mathematics Education	30-November-2022	Universitas Jember, Indonesia (virtual)
3.	Keynote Speaker	International Conference of Mathematics Education, Learning, and Application (ICOMELA)	30-October-2021	Indonesia (virtual)
4.	Invited Speaker	Webinar Persatuan Pendidikan Sains Matematik Johor	21-December-2020	Johor, Malaysia

5.	Invited Speaker	UiTM Educational Research and Research Grant Inspired Talk	29-November-2018	Terengganu, Malaysia
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NO	NAME OF COPYRIGHT	STATUS OF COPYRIGHT	ROLE
1.	TransCard Model	Approved	Main Inventor
2.	Criterion-Referenced Assessment for the study of Students' Difficulties in Learning Algebraic Problem-Solving	Approved	Main Inventor
3.	Research Instrument for the Study of the Relationship between Learning Styles and Algebraic Problem-Solving Achievement among Lower Secondary School Students	Approved	Main Inventor
4.	Research Instrument of the Use of Abacus Mental Arithmetic in Enhancing the Achievement of Problem-Solving in Mathematical Mixed Operation	Approved	Main Inventor
5.	Research Instruments of the Use of Bar Model in Enhancing the Learning of Problem-Solving in Mathematical Operations among Year Three Students	Approved	Main Inventor
6.	Instrumen Kajian Penggunaan Kaedah Inkuiri Penemuan dalam kalangan Guru- Guru Matematik Sekolah Jenis Kebangsaan Tamil di Johor Bahru	Approved	Main Inventor
7.	The Framework of Math-Related Critical Thinking in Civil Engineering Instructions	Approved	Main Inventor
8.	Emerging Theory of Math-Related Critical Thinking in Engineering Practice	Approved	Main Inventor
9.	Instrument of Conceive-Design-Implement-Operate CDIO Approach for an Innovative Capstone Project	Approved	Co-Inventor
10.	POLYM3R	Approved	Co-Inventor
11.	Personal Hygiene	Approved	Co-Inventor
12.	Work Process of Scratchtopia Challenge	Approved	Co-Inventor