



PERSONAL DETAILS

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H-Index (WOS) : 10
H-Index (SCOPUS) : 12
H-Index (G. Scholar) : 12
H-Index (Researchgate) : 12

ACADEMIC QUALIFICATIONS

NO	LEVEL OF EDUCATION	COURSE	UNIVERSITY	STARTING DATE	ENDING DATE
1.	Doctor of Philosophy (Physics)	Physics	Universiti Teknologi Malaysia	2010	2014
2.	Bachelor of Degree	(Industrial Physics)	Universiti Teknologi Malaysia	2007	2010
3.	Matriculation	Science Physics	Negeri Sembilan Matriculation College	2006	2007

AWARD AND HONORS RECEIVED

Summary	
International Awards/Honors	1
National Awards/Honors	0
UTM Awards/Honors	11
Faculty Awards/Honors	4

NO	AWARD	LEVEL (FACULTY /UTM /NATIONAL /INTERNATIONAL)	YEAR
1.	Anugerah Gemilang Mahasiswa, Residential College Leadership (Runner-up)	UTM	2023
2.	UTM Staff Games 2022 (Netball)	UTM	2022
3.	Anugerah Pengetua Mesra Bestari IPF UTM 21'	UTM	2021
4.	Anugerah Gemilang Mahasiswa, Special award Deputy Vice Chancellor Student Affairs	UTM	2021
5.	Anugerah Gemilang Mahasiswa, Residential College Leadership	UTM	2021
6.	Anugerah Penyelidik Harapan	Faculty	2020
7.	Excellent Service award	Faculty	2020
8.	Competent Communicator Toastmaster Club	International	2020
9.	Citra Karisma, Excellent Service award	UTM	2020
10.	Citra Karisma, Publication award	UTM	2020
11.	Excellent Teaching	UTM	2019
12.	UTM Staff Games 2018 (Chess)	UTM	2018
13.	Community Service award (STEM)	Faculty	2017
14.	Involvement STEM program	Faculty	2017
15.	Award of Excellence, Active Blended Learning Course (Introduction to Physics)	UTM	2017
16.	Award of Excellence, Active Blended Learning Course (Introduction to Physics)	UTM	2016

WORKING EXPERIENCE

NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT/ORGANISATION
1.	Research Assistant	June 2013	June 2014	Photonics Research Center, University of Malaya, 50603 Kuala Lumpur
2.	Research Assistant	April 2015	July 2015	Plasma Technology and Optical Diagnostic Lab at Advanced Photonics Science Institute, Universiti Teknologi Malaysia, 81310 Skudai, Johor
3.	Tutor	Jan 2015	May 2015	Pusat Tuisyen Skor Bestari, 17, Jalan Bakti 1, Mutiara Rini, 81300 Skudai, Johor

PROFESSIONAL MEMBERSHIP / QUALIFICATIONS / RECOGNITION

Summary	
International Professional Membership / Qualifications / Recognition	2
National Professional Membership / Qualifications / Recognition	1

NO	NAME OF PROFESIONAL MEMBERSHIP	LEVEL (FACULTY /UTM /NATIONAL /INTERNATIONAL)	ROLE	YEAR
1.	The Optical Society (OSA)	International	Member	2020
2.	Toastmasters International	International	Member	2016-present
3.	Optical Society Malaysia (OSM)	National	Member	2018-present

ADMINISTRATIVE EXPERIENCE

NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT/ FACULTY/ DIVISION
1.	College Principal	1 st Dis 2023	30 th Nov 2025	Deputy Vice Canselor (Student Affairs & Alumni)
2.	College Principal	1 st Dis 2020	30 th Nov 2023	Deputy Vice Canselor (Student Affairs)
3.	Assistant Program Coordinator (SSCF)	Aug 2020	Aug 2024	Department Physics Faculty of Science

4.	Laboratory Coordinator- Physics Year 1	Aug 2020	July 2024	Department Physics Faculty of Science
5.	Coordinator-Optic Panel Laboratory	Aug 2020	July 2021	Department Physics Faculty of Science
6.	Assistant Coordinator-Optic Panel Laboratory	Aug 2022	July 2024	Department Physics Faculty of Science

CONSULTATION WORKS

Summary	
Consultation Project-UTM	11 projects (RM 195,544.11)
Consultation Project- Others	-

No.	Year	Title	Value	Vot
1.	2016	Regional Conference on Nuclear Physics and Winter School (RCNP 2016)	RM 5,100.00	961 UTSB
2.	2016	Kolokium Kebangsaan Pendidik Sains Teknologi Kejuruteraan dan Matematik (KKPSTEM) 2016 Peringkat Negeri Johor	RM 13,200.00	961 UTSB
3.	2016	Regional Conference on Solid State Science and Technology (RCSSST 2016)	RM 94,230.00	961 UTSB
4.	2017	Jelajah Sains 1	RM 3,000.00	961 UTSB
5.	2017	Jelajah Sains 2 (STEM Day) sempena Iskandar Learning Festival	RM 3,000.00	961 UTSB
6.	2017	Jelajah Sains 3.0	RM 4,700.00	961 UTSB
7.	2018	Program Jelajah Sains 2018	RM 9,200.00	961 UTSB
8.	2018	Marhabah Stem Day	RM 360.00	961 UTSB
9.	2019	Philippines Senior High School Curriculum : General Physics 1 & 2	RM 12,000.00	961 UTSB
10.	2020	ILATOS 2020	RM 20,251.00	A.J091003.56 00.07681
11.	2022	ILATOS 2022	RM 30,503.11	A.J26.11.11

INTERNATIONAL/NATIONAL/UNIVERSITY COMMITTEE

Summary	
International Committee	5
National Committee	10
University Committee	17

Faculty Committee	26
Community Committee	6

International

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1	The 5th International Conference on Science And Innovated Engineering 2022	Committee	26 th Nov 2022	27 th Nov 2022
2	International Laser Technology and Optics Symposium 2022	Committee	21 st Sept 2022	22 nd Sept 2022
3	Pidato Antarabangsa Bahasa Melayu (PABM) Piala Perdana Menteri 2021	Committee	10 th Nov 2021	16 th Nov 2021
4	International Laser Technology and Optics Symposium 2020	Committee	22 nd Oct 2020	23 rd Oct 2020
5	The 2nd International Conference On Innovative Technology, Engineering, And Sciences	Committee	1 st Oct 2019	10 th Nov 2019

National

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1	Young Scientist Pioneer 2022	Leader	5 th Dis 2022	7 th Dis 2022
2	DIY Teleskop: Karnival STEM MSN (Minggu Sains Negara)	Leader	18 th Aug 2022	18 th Aug 2022
3	Karnival STEM Merdeka Minggu Sains Negara	Committee	18 th Aug 2022	18 th Aug 2022
4	Young Scientist Pioneer 2019	Leader	16 July 2019	18 th July 2019
5	National Science Challenge	Committee	13 th Sept 2018	27 th Sept 2019

6	STEM Day Iskandar Learning Festival	Committee	20 th July 2017	20 th July 2017
7	Persidangan Serantau Sains & Teknologi Keadaan Pepejal 2016 Kali Ke-29	Committee	15 th Nov 2016	17 th Nov 2016
8	Regional Conference on Nuclear Physics and Winter School (RCNP 2016)	Committee	12 th Dec 2016	16 th Dec 2016
9	Pentaksir soalan peperiksaan pertengahan kursus fizik II program asasi pintar UKM	Committee	25 th Mei 2023	25 th Dis 2023
10	AJK Optik Malaysia (Optical Society of Malaysia-OSM)	Committee	1 st Jan 2023	31 st Dis 2025

University

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1	Felo Penyelidik Laser Centre, Ibnu Sina Institute For Scientific And Industrial Research (ISI-SIR)	Member	7 th Mar 2023	6 th Mar 2026
2	Panel Penilai Anugerah Kualiti Perkhidmatan (AKP)	Committee	5 th Mar 2023	31 st Dis 2023
3	Ahli Jawatankuasa Penilaian Penarafan Bintang Projek Libat Sama Komuniti Universiti Fasa 1 2021	Committee	1 st June 2021	30 th June 2021
4	Kejohanan UTM Games	Committee	1 st Dis 2023	9 th Dis 2023
5	Ahli Panel Temuduga Pembantu Fellow Bil.3 2023 Majlis Pengetua Kolej Kediaman	Committee	24 th Oct 2023	24 th Oct 2023

6	Panel Temu Bual Calon Program Pembangunan Siswa Sulung 2.0 Sesi 2023/2024	Committee	15 th Oct 2023	16 th Oct 2023
7	Jawatankuasa Pelaksana Program "Laser Safety Course 2023"	Committee	31 st Mei 2023	31 st Dis 2023
8	Panel Penilai Anugerah, Majlis Anugerah Budi Kencana Jabatan Timbalan Naib Canselor (Hal Ehwal Pelajar)	Committee	31 st Jan 2023	13 th Mar 2023
9	Jawatankuasa Pengurusan (JP) dan Ahli Jawatankuasa Kehormat Institusi Pembangunan Institusi Pembangunan Fellow (Ipf) Sesi 2022/2024 Universiti Teknologi Malaysia	Deputy Chair	1 st Feb 2022	1 st Feb 2024
10	Penyelaras Maklumat enVision JTNC (HEP)	Leader for Principal Council	1 st Jan 2023	31 st Dis 2025
11	Ahli Jawatankuasa Induk Minggu Mesra Mahasiswa (MMM) UTM Sesi 2022/2023	Committee	10 th Oct 2022.	14 th Oct 2022
12	Ahli Jawatankuasa Kecil Perancangan Dan Pengurusan Maklumat Anugerah Teknologi Maklumat (Atm), Jabatan Timbalan Naib Canselor (Hal Ehwal Pelajar)	Committee	1 st Jan 2022	31 st Dis 2023
13	Ahli Jawatankuasa Kebajikan Pelajar Semasa PKPD di UTM Kampus Johor Bahru	Committee	21 st Mei 2021	3 rd June 2021
14	Pegawai Perhubungan (LO) Bagi Penghantaran Pulang Pelajar-Pelajar IPT ke Kampung Halaman	Committee	16 th July 2021	25 th July 2021

15	Ahli Jawatankuasa Pegawai Pemantauan COVID-19, Jabatan TNC (HEP)	Committee	10 th Feb 2021	31 st Dis 2021
16	Ahli Jawatankuasa Pemantauan Pelajar Latihan Mengajar (LM) Di KDSE	Leader	4 th Mar 2021	4 th Mar 2021
17	Penilai Kertas Kerja Sempena Persidangan Pembangunan Pelajar Peringkat Kebangsaan 2018 (NASDEC 2018)	Committee	20 th Sept 2018.	22 nd Sept 2018.

Faculty

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1	Projek Sarjana Muda	Committee	1 st August 2022	31 st July 2024
2	Bengkel Latihan Praktikal Amali Asasi Pensyarah Space	Leader	13 th July 2022	14 th July 2022
3	Persediaan Audit Fail Kursus (Course File) Prasiswazah dan Pascasiswazah Jabatan Fizik Sesi 2021/2022	Committee	1st June 2022	31 st Dec 2022
4	Taskforce Ruang Makmal	Committee	16 th Feb 2021	31 st Dec 2021
5	JK Alumni dan Endowment Jabatan Fizik	Committee	1 st Aug 2020	31 st July 2022
6	Projek Sarjana Muda	Committee	10 th Aug 2020	31 st July 2022
7	Kertas Kerja Semakan Kurikulum 2019	Committee	1 st Aug 2019	30 th Sept 2019
8	Task Force Semakan Semula Program Sarjana Sains Fizik Mod Campuran	Committee	8 th July 2018	26 th Dec 2018
9	Projek Sarjana Muda	Committee	7 th Oct 2018	31 st July 2020
10	Promosi dan STEM Jabatan Fizik	Committee	7 th Oct 2018	31 st July 2020

11	Pengurusan Jabatan Fizik	Committee	7 th Oct 2018	31 st July 2020
12	Keselamatan dan Kesihatan Pekerja dan 5S Jabatan Fizik	Committee	7 th Oct 2018	31 st July 2020
13	First Year Experience	Committee	9 th Mar 2017	11 th Mar 2017
14	Program Pembangunan STEM Fakulti Sains	Committee	1 st Dis 2016	31 st Dis 2017
15	Task Force Audit Swa Akreditasi Pascasiswazah	Committee	17 th Apr 2017	31 st Dis 2017
16	Task Force Semakan Kurikulum Jabatan Fizik	Committee	28 th Feb 2017	31 st Dis 2017
17	Task Force Penyediaan Dokumen Bagi Perolehan Peralatan Rmk11-2017 Jabatan Fizik Fakulti Sains	Committee	28 th Feb 2017	31 st Dis 2017
18	Prosiding PSM	Committee	1 st Oct 2016	31 st July 2017
19	Meningkatkan Webometrics Fakulti Sains	Committee	25 th Jan 2016	31 st Dis 2017
20	Task Force Pemasaran (Marketability) Kebolehpkerjaan (Employability) Pelajar Fakulti Sains 2016	Committee	1 st Sept 2016	31 st Dis 2017
21	Audit COPPA	Committee	1 st Jan 2016	31 st Aug 2016
22	Task Force Kolokium Kebangsaan Pendidik Sains, Teknologi, Kejuruteraan dan Matematik KKPSTEM 2016	Committee	3 rd July 2016	12 th Nov 2016
23	Projek Sarjana Muda	Committee	1 st Mar 2016	31 st Dec 2017
24	Jawatankuasa Pengantarabangsaan, Mobiliti dan Promosi	Committee	1 st Mar 2016	31 st Dec 2017
25	Jawatankuasa Pengajian Siswazah	Committee	1 st Mar 2016	31 st Dec 2017
26	Task Force Audit Coppa	Committee	1 st Jan 2015	31 st Dec 2015

Community

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1	MSN Telescope	Leader	28 th Aug 2022	28 th Aug 2022
2	Young Scientist Pioneer (Kedah)	Leader	3 rd Dis 2022	9 th Dis 2022
3	Young Scientist Pioneer (Sarawak)	Leader	24 th Jun 2019	24 th Jun 2019
4	Jelajah Sains 1	Member	28 th Sept 2017	30 th Sept 2017
5	Jelajah Sains 2 (STEM Day) sempena Iskandar Learning Festival	Member	7 th Aug 2018	7 th Aug 2018
6	Jelajah Sains : Siri Hijau 2019	Member	25 th Apr 2019	27 th Apr 2019

SELECTED ACTIVITIES / WORKSHOPS / SEMINARS / COURSES

NO	NAME OF ACTIVITIES	PLACE OF ACTIVITIES	STARTING DATE	ENDING DATE
1	Bengkel Penulisan Student Handbook	Swiss Garden Hotel Melaka	20 th July 2023	22 nd July 2023
2	Bengkel Penulisan Laporan Tahunan Kolej Kediaman	Bilik JKM, UB1 Kolej 9&10	18 th July 2023	18 th July 2023
3	Bengkel Pementapan Penilaian PP AKP	Dewan Cengal Suite, Pulau Spring Resort, JB	20 th Mar 2023	20 th Mar 2023
4	Bengkel Anugerah Teknologi Maklumat Jabatan TNC (HEP)	Dewan Utama, CTLD	03 rd Apr 2023	03 rd Apr 2023
5	Bengkel Pembangunan Kerangka Experience Pathway Dan Penetapan Sasaran "5 Excellence Tracks Programmes" (5ETP) 2023	Aras 7, Kota Tinggi Room, KSL Hotel, Johor Bahru	9 th Mar 2023	10 th Mar 2023
6	Program <i>Intellectual Property Workshop</i> : Bengkel <i>Hands-On</i> hakcipta Bahan STEM	Makmal Komputer 3, Blok C22, Aras 3, Fakulti Sains	6 th Mar 2023	6 th Mar 2023

7	Kursus PSM Bil. 1/2023 Jabatan Timbalan Naib Canselor (Hal Ehwal Pelajar) - Bengkel Menulis Berita	Bilik Mesyuarat Timbalan Naib Canselor (Hal Ehwal Pelajar)	9 th Feb 2023	9 th Feb 2023
8	Kem Pemantapan JKM KDSE 2022/2023	Bilik seminar KDSE dan Savanna Hill Resort	16 th Mar 2023	18 th Mar 2023
9	Bengkel Penyediaan Self-Review Portfolio Swaakreditasi bagi Jabatan TNC (HEP)	Dewan Banquet, Bangunan Canseleri Sultan Ibrahim	11 th Jan 2023	11 th Jan 2023
10	Bengkel Penetapan Sasaran Kerja Jabatan Timbalan Naib Canselor (Hal Ehwal Pelajar) 2023	Hotel Avillion, Port Dickson	13 th Jan 2023	15 th Jan 2023
11	Bengkel Penilaian Draf Soalan Peperiksaan Akhir Jabatan Fizik, Fakulti Sains	Bilik Mesyuarat Jabatan Fizik	29 th Dis 2022	29 th Dis 2022
12	Bengkel Task Force Kurikulum & Mobiliti Universiti Awam	Bilik Mesyuarat Jabatan Fizik	25 th Sept 2022	25 th Sept 2022
13	Bengkel Pembangunan Modul Jelajah Sains 2022	Iskandar1, JEN Johor Puteri Harbour by Shangri-La, Nusajaya, Johor	19 th Sept 2022	20 th Sept 2022
14	Bengkel Pelan Strategi enVision UTM 2025 Pemurnian Pelan Tindakan 2023	Online platform	7 th Sept 2022	7 th Sept 2022
15	Bengkel Grant Coaching Session : Nippon Sheet Glass Foundation For Materials Science And Engineering (NSG Foundation)	UTM HELIXS, C17 Fakulti Sains UTM	5 th Sept 2022	5 th Sept 2022
16	Bengkel Semakan CI Panel Optik	Makmal C20 Aras 4	23 rd Aug 2022	23 rd Aug 2022
17	Bengkel enVision UTM 2025 Strategic Plan Strategic Review for the Preparation of Action Plan 2023	Dewan Sri Perdana, Kolej Perdana, UTM Johor Bahru	21 st Aug 2022	21 st Aug 2022

18	Kursus Komunikasi Berkesan ke Arah Perkhidmatan Cemerlang Jabatan Timbalan Naib Canselor (HEP) Siri 2 /2022	Bilik Jamuan Dewan Sultan Iskandar, UTM Johor Bahru	1 st Aug 2022	1 st Aug 2022
19	Bengkel Semakan Course Information, Jabatan Fizik, Fakulti Sains	Bilik Mesyuarat Jabatan Fizik	21 st July 2022	21 st July 2022
20	Bengkel Perancangan Strategik Penyelidikan Fakulti Sains	Hotel Trove, Johor Bahru	12 th Jan 2022	12 th Jan 2022
21	Bengkel Penyediaan Modul Amali (Online) Tahun 1, Jabatan Fizik, Fakulti Sains	Atas talian	30 th Sept 2021	30 th Sept 2021
22	Bengkel Modul Hands-on UVIS Fizik	Bilik Mesyuarat Jabatan Fizik	1 st Sept 2021	1 st Sept 2021
23	Bengkel Audit Kualiti Akademik (Gerak Gempur 2)	Online platform	17 th Mar 2021	17 th Mar 2021
24	Bengkel Semakan Kurikulum UG/PG	Bilik Mesyuarat Jabatan Fizik	1 st Dis 2020	1 st Dis 2020
25	Bengkel Pembinaan Modul Pembelajaran dan Pengajaran (PMPP) Bagi Program Asasi UTM	Bilik Mesyuarat Utama, Aras 5, Blok T05, UTM Johor Bahru	18 th Sept 2019	18 th Sept 2019
26	Townhall Semakan Kurikulum Dan Bengkel Penyediaan Dokumen L1 Jabatan Fizik	Bilik Mesyuarat Jabatan Fizik	9 th July 2019	9 th July 2019
27	Bengkel Pengajaran dan Pembelajaran Program Asasi Semester 2, Sesi 2018/2019	Bilik Mesyuarat Utama & Bilik Mesyuarat Eksekutif 1, Aras 5, Blok T05 UTMSPACE	19 th Nov 2018	19 th Nov 2018
28	Bengkel Perbincangan Modul Pameran Stem Siri 3	Bilik Mesyuarat Jabatan Fizik	30 th July 2018	30 th July 2018
29	Kursus Sijil Pengajaran Pengajian Tinggi (Sppt)	Universiti Teknologi Malaysia	7 th Aug 2016	24 th Aug 2016
30	Program Transformasi Minda Siri 1/2016	Dewan Utama, CTLD	14 th Feb 2016	18 th Feb 2016

RESEARCH ACTIVITIES

Summary	
Principal Investigator- International Grants	0 projects (RM0)
Principal Investigator- National Grants	2 projects (RM166,582)
Principal Investigator- UTM Grants	5 projects (RM98,750)
Member- International Grants	0 projects (RM0)
Member- National Grants	2 projects (RM 108,600)
Member- UTM Grants	19 projects (RM 509129.43)

As a principal investigator

BIL	NAME OF GRANT	ROLE	CATEGORY OF GRANT(UTM/ OTHERS)	TYPE OF GRANT	AMOUNT (RM)	STARTING DATE	ENDING DATE	VOTE NO
1	National Grants Basic properties of D-Shaped Fiber deposited Transition Metal Dichalcogenides on Mode-Locked Fiber Laser	PI	UTM	Fundamental Research Grant Scheme	98,000	1/09/2019	31/05/2022	5F183
2	National Grants The fundamental properties of passive Q-switched ytterbium doped and ytterbium co-doped fiber lasers by carbon nanotubes and graphene based saturable absorbers.	PI	UTM	Fundamental Research Grant Scheme	68,582	15/08/2017	14/08/2019	4F928
3	UTM Max Phase Based Saturable Absorber For 1.3 μ m Q-Switching Generation Utilizing Neodymium-Doped Fiber Laser	PI	UTM	UTMShine	40,000	01/10/2021	30/09/2023	09G95
4	Short Pulse Ytterbium-Doped Fiber Laser Using Cadmium Telluride	PI	UTM	Tier 2	30,000	01/08/2019	31/01/2022	16J01

	as Saturable Absorber							
5	Performance of Ytterbium Doped and Erbium-Ytterbium Co-Doped Fiber Lasers	PI	UTM	Potential Academic Staff	20,000	01/08/2016	31/07/2017	02K49
6	Pemindahan ilmu STEM kepada pelajar di SMK Wira Penrissen, Kota Samarahan, Sarawak	PI	OTHERS	Networking Grant	-	01/04/2019	30/06/2020	4X440
7	Kajian Keberkesanan Projek Menggunakan Arduino Terhadap Persepsi Pelajar Sekolah Menengah Terhadap STEM	PI	OTHERS	Networking Grant	-	01/05/2017	31/08/2017	4X252

As a scientific member

BIL	NAME OF GRANT	ROLE	CATEGORY OF GRANT(UTM /OTHERS)	TYPE OF GRANT	AMOUNT (RM)	STARTING DATE	ENDING DATE	VOTE NO
1	Pengembangan Photoelectrochemical (PEC) Berbasis ZnO Nanorods dengan Solid Electrolite Sebagai Fuel Generator	Member	UTM	Others	29513.43	02/06/2021	31/05/2023	R.J1300 00.7354. 4B685
2	Science Innovation Challenge	Member	UTM	Networking Grant	3900	25/07/2016	25/09/2016	S.J1300 00.7326. 4X186
3	Projek Komuniti Berasaskan Sains dan Teknologi Kepada Penduduk Di Kg Rantau Panjang, Johor	Member	UTM	Networking Grant	0	01/02/2019	30/04/2020	S.J1300 00.7354. 4X445

4	Informal Science Learning through Green Science Projects ; Jelajah Sains Siri Hijau 2019	Member	UTM	Networking Grant	19648	27/01/2019	14/11/2019	S.J1300 00.054.4 X466
5	Investigation on immobilisation of optically active host-guest matrices and its light modulation characteristic in the optical-fibre based transducers	Member	National	Fundamental Research Grant Scheme	88600	01/09/2019	31/05/2022	R.J1300 00.7854. 5F191
6	Informal Science Learning through STEM Day 2018 : Creating awareness and importance of STEM Education	Member	UTM	Business Entity	35518	01/05/2018	31/10/2018	S.J1300 00.0854. 4Y136
7	UTM-TDR11.3(T1):Fiber Optics Sensor Based on Immobilized Enzymatic Layers for Rapid Glucose, Sucrose and Maltose Concentration Monitoring in Stingless Bee's Honey	Member	UTM	UTM Transdisciplinary Research Grant	53000	01/12/2018	31/05/2022	Q.J1300 00.3554. 06G13
8	Kajian tentang Persepsi terhadap STEM di Kalangan Pelajar Sekolah Menengah melalui Program Pembelajaran Servis dan Mentor-Mentee	Member	UTM	Networking Grant	29900	01/03/2017	30/11/2017	S.J1300 00.026.4 X308
9	JELAJAH SAINS : A Service Learning to Improve Understanding Of Science Concepts Among Secondary School Students	Member	UTM	Business Entity	9200	01/01/2018	03/10/2018	S.J1300 00.0854. 4Y135

10	Memupuk Kepentingan Pendidikan Sains, Teknologi, Kejuruteraan & Matematik (STEM) ke arah Transformasi Nasional 50 (TN50) bertemakan Sains Masa Hadapan	Member	UTM	Networking Grant	5050	01/01/2017	07/05/2017	S.J1300 00.026.4 X316
11	Tapered Optical Microfiber Based Structures For Detection Of Petrol Adulteration	Member	UTM	UTMShine	50000	15/11/2017	14/11/2019	Q.J1300 00.2426. 03G82
12	Women in STEM, Scientists Back to School	Member	UTM	Networking Grant	200	14/06/2017	29/10/2017	S.J1300 00.7926. 4X241
13	Study Of Optical Nonlinearity In Hybrid 2d Transition Metal Dichalcogenides By Femtoseconds Z-Scan Regime	Member	UTM	Tier 1	50000	01/02/2018	31/01/2020	Q.J1300 00.2526. 18H67
14	The Evaluation Of Bus Topology Performance In Fiber Optics Networking System	Member	UTM	Tier 2	20000	01/02/2018	30/04/2019	Q.J1300 00.2626. 15J57
15	Kolokium Kebangsaan Pendidik Sains, Teknologi, Kejuruteraan Matematik (Kkpstem) 2016 Peringkat Negeri Johor	Member	UTM	Networking Grant	13200	03/07/2016	12/11/2016	S.J1300 00.7326. 4X199
16	Detection and Classification of Chlorpyrifos and Malathion Pesticides Residues In Guavas Using Laser Induced Breakdown Spectroscopy.	Member	UTM	Tier 1	50000	01/07/2016	31/12/2018	Q.J1300 00.2526. 14H73

17	Science Explorer: Science Self-Learning & Exploration Program (Camp & Kit)	Member	National	Prototype Development Fund	20000	01/04/2020	30/09/2022	R.J1300 00.7754. 4J462
18	Modification Of Optical Delays In Optical Fiber Using Stimulated Brillouin Scattering for Ammonia Sensing	Member	UTM	Tier 2	30000	01/08/2019	31/01/2022	Q.J1300 00.2654. 16J41
19	UTM-TDR 11.5 (T2): Elemental Determination of Stingless Bee Hive using Laser Induced Breakdown Spectroscopy	Member	UTM	UTM Transdisciplinary Research Grant	40000	01/12/2018	31/05/2022	Q.J1300 00.3554. 06G35
20	Identification, Recognition and Classification of Local Honey Samples by Multivariate Data Analysis Using Terahertz Spectroscopy.	Member	UTM	Tier 1	50000	01/02/2018	30/06/2019	Q.J1300 00.2526. 18H70
21	Characterization of Localized Thermodynamic Equilibrium Properties in Non-Thermal Plasma Stream	Member	UTM	Tier 2	20000	01/10/2016	30/09/2017	Q.J1300 00.2626. 12J02

TEACHING ACTIVITIES

Summary	
Total Credit Hours	56

UNDERGRADUATES

Semester	Sem	Subject Code	Subject	Credit Hour	No of Student
2015/2016	2	SSCP1223	Modern Physics	3	39
2016/2017	1	SSCP1102	Introduction To Physics	2	22
2016/2017	1	SSCP1811	Physics Practical I	1	21
2016/2017	2	UKQA2092	Community & Science	2	33

2016/2017	2	SSCP4553	Applied Optics	3	9
2017/2018	1	SSCP1102	Introduction To Physics	2	39
2017/2018	1	SSCP2811	Physics Practical II	1	33
2017/2018	1	SSCP1811	Physics Practical I	1	28
2017/2018	2	SSCP4553	Applied Optics	3	10
2017/2018	2	SSCP1821	Physics Practical I	1	27
2017/2018	2	UKQA2092	Community & Science	2	21
2018/2019	1	SSCP1153	Electricity And Magnetism	3	22
2018/2019	1	SSCP1811	Physics Practical I	1	22
2018/2019	2	SSCP3523	Modern Optics	3	12
2018/2019	2	SSCP1821	Physics Practical II	1	23
2019/2020	1	SSCP3523	Modern Optics	3	8
2019/2020	1	SSCP1811	Physics Practical I	1	20
2020/2021	1	SSCP1101	Practical Physics I	1	26
2020/2021	1	SSCP1143	Mechanics	3	35
2020/2021	1	SSCP3523	Modern Optics	3	12
2020/2021	2	SSCP3523	Modern Optics	3	39
2020/2021	2	SSCP1821	Physics Practical II	1	26
2021/2022	1	SSCP3523	Modern Optics	3	6
2021/2022	1	SSCP1811	Physics Practical I	1	23
2021/2022	2	SSCP1201	Practical Physics II	1	28
2021/2022	2	SSCP3523	Modern Optics	3	38
2022/2023	1	SSCP1811	Physics Practical I	1	15
2022/2023	1	SSCP3523	Modern Optics	3	5
Total credits				56	

POSTGRADUATES

Semester	Sem	Subject Code	Subject	Credit Hour	No of Student
Total credits					

SUPERVISION

Summary	
Main Supervisor – PhD (Graduated)	3
Co-Supervisor – PhD (Graduated)	0
Main Supervisor – PhD (Ongoing)	0
Co-Supervisor – PhD (Ongoing)	1
Main Supervisor- Master by Research (Graduated)	0
Main Supervisor- Master by Research (On-Going)	0
Main Supervisor- Master by Taught Course (Graduated)	1
Main Supervisor- Master by Taught Course (On-Going)	0
Main Supervisor- Master by Mixed-Mode (Graduated)	0
Main Supervisor- Master by Mixed-Mode (On-Going)	0

PhD Student

No.	Name	Status (Graduated/ On-Going)	Title	Roles of Supervision
1	AFIQ ARIF BIN AMINUDDIN JAFRY	Graduated	Titanium carbide and titanium aluminium carbide saturable absorbers for pulse generation in erbium-doped fiber laser	Main supervisor
2	RABI'ATUL 'ADAWIYAH BINTI MAT YUSOFF	Graduated	Erbium doped fiber lasers utilizing gadolinium oxide, neodymium and samarium materials as passive saturable absorbers	Main supervisor
3	NOOR AMEERA ATHIELLA BINTI RAMLAN	Graduated	Copper, Gold And Silver Effects On Indium Selenide As Saturable Absorber For Pulsed Generation In Erbium-Doped Fiber Laser	Main supervisor
4	MUNTARI BATURE	On-Going	Development Of Hypersensitivity Detectors Using Luminescence Rare Earth Elements Doped ZnO Nanocomposites For Radiation Measurements	Co-supervisor

MSc. Student

No.	Name	Status (Graduated/ On-Going)	Title	Mode (Research / Taught-course/ Mixed Mode)	Roles of Supervision
1	TUNG HAO JIUN	Graduated	Manipulation of localised thermodynamic equilibrium of non-thermal plasma phenomenon for fibre laser tuning.	Research	Co-supervisor
2	NURFARAH FAQIHAH BINTI MANSOR	On-Going	Wavelength Tuning of Fibre Laser Using Non-Thermal Plasma as Temperature Regulator.	Research	Co-supervisor

UTM POSTGRADUATE EXAMINATION/ VIVA

Summary	
MSc. Internal Examiner	1
Fast track student examiner	
Others Examiner	

Msc Internal Examiner

NO	ROLE	STUDENTS NAME	TITLE	YEAR
1.	Internal Examiner	Nurul Alina Afifi Binti Norizan	Zinc Oxide Based Passive Saturable Absorber for Q-switched Pulsed Generation in Erbium-doped Fiber Laser with Tunable Wavelength	2019

EXTERNAL EXAMINATION/ VIVA

Summary	
MSc. Internal Examiner	0
MSc. External Examiner	1
Others Examiner	0

Msc External Examiner

NO	ROLE	STUDENTS NAME	TITLE	YEAR
1	External Examiner	Nurul Athirah Binti Mohamad Abdul Ghafar	Niobium and Vanadium Aluminium Carbide Saturable Absorber for Pulsed Fiber Laser	2023

PUBLICATIONS

Summary	
ISI Article/Journal	18
Scopus Article/Journal	8
Non-Indexed Article/Journal	5
Indexed Conference Proceedings	0
Non- Indexed Conference Proceedings	9
Book Chapters	1
Original Book	0
Classified/Technical /Expert Report	0
Policy Paper	0
Article In Mass Media	2

NO	ARTICLE TITLE	JOURNAL TITLE	ISSN	Vol.	Issues	Page	Publication year	IF	Type of Publication	Category of Publication	Quartile Ranking
1	OPTICAL FIBER TECHNOLOGY	VANADIUM GERMANIUM CARBIDE: A CUTTING-EDGE THIN FILM SATURABLE ABSORBER	1068-5200	84	0	103726	2024	2.7	WEB OF SCIENCE	Article/ Review	2

		FOR Q-SWITCHING LASER GENERATION									
2	OPTICAL FIBER TECHNOLOGY	INVESTIGATION OF PASSIVELY Q-SWITCHED AND MODE-LOCKED OPERATION USING CU NANOPARTICLES DOPED INDIUM SELENIDE AS SATURABLE ABSORBER AT 1.5-MM REGION	1068-5200	77	0	103260	2023	2.84	WEB OF SCIENCE	Article/ Review	2
3	OPTIK	SILVER INDIUM SELENIDE COMPOSITE AS A SATURABLE ABSORBER FOR PASSIVE Q-SWITCHED AND MODE-LOCKED PULSED GENERATION IN ERBIUM-DOPED FIBER LASER	0030-4026	292	0	171388	2023	3.1	WEB OF SCIENCE	Article/ Review	2
4	OPTIK	GENERATION OF SOLITON OPERATING AT 1.5 MM REGIME USING INDIUM SELENIDE BASED SATURABLE ABSORBER	0030-4026	271	0	170174	2022	2.84	WEB OF SCIENCE	Article/ Review	2
5	OPTICAL FIBER TECHNOLOGY	INDIUM SELENIDE AS PASSIVE SATURABLE ABSORBER FOR Q-SWITCHING IN ERBIUM-DOPED FIBER LASERS	1068-5200	72	0	102972	2022	2.84	WEB OF SCIENCE	Article/ Review	2
6	OPTICS AND LASER TECHNOLOGY	A 1.0- M M PULSED GENERATION IN	0030-3992	141	0	0	2021	3.867	WEB OF SCIENCE	Article/ Review	1

		YTTERBIUM-DOPED FIBER LASER WITH GADOLINIUM OXIDE AS A SATURABLE ABSORBER									
7	OPTICS AND LASER TECHNOLOGY	ULTRASHORT PULSE GENERATION WITH MXENE Ti3C2Tx EMBEDDED IN PVA AND DEPOSITED ONTO D-SHAPED FIBER	0030-3992	136	0	0	2021	3.233	WEB OF SCIENCE	Article/Review	1
8	NONLINEAR OPTICS QUANTUM OPTICS-CONCEPTS IN MODERN OPTICS	Q-SWITCHED AND MODE-LOCKED PULSE GENERATION WITH SAMARIUM OXIDE FILM SATURABLE ABSORBER	15430537	53	3	323-335	2021		Scopus	Article/Review	
9	CHALCOGENIDE LETTERS	TITANIUM ALUMINUM CARBIDE COATED D-SHAPED FIBER AS PASSIVE SATURABLE ABSORBER FOR NANOSECOND PULSES GENERATION	1584-8663	18	3	129-135	2021	0.779	WEB OF SCIENCE	Article/Review	4
10	APPLIED OPTICS	SOLITON MODE-LOCKED PULSE GENERATION WITH A BULK STRUCTURED MXENE Ti3AlC2 DEPOSITED ONTO A D-SHAPED FIBER	21553165	59	28	8759	2020	1.961	WEB OF SCIENCE	Article/Review	3

11	OPTICAL FIBER TECHNOLOGY	MXENE $Ti_3C_2T_x$ AS A PASSIVE Q-SWITCHER FOR ERBIUM-DOPED FIBER LASER	1068/5200	58	0	102289	2020	2.212	WEB OF SCIENCE	Article/ Review	2
12	OPTICAL FIBER TECHNOLOGY	MODE-LOCKED ERBIUM-DOPED FIBER LASER VIA EVANESCENT FIELD INTERACTION WITH INDIUM TIN OXIDE	10685200	55	0	102124	2020	1.824	WEB OF SCIENCE	Article/ Review	3
13	OPTICS AND LASER TECHNOLOGY	MAX PHASE BASED SATURABLE ABSORBER FOR MODE-LOCKED ERBIUM-DOPED FIBER LASER	00303992	127	0	106186	2020	3.319	WEB OF SCIENCE	Article/ Review	1
14	OPTICAL FIBER TECHNOLOGY	Q-SWITCHED AND MODE-LOCKED ERBIUM-DOPED FIBER LASER USING GADOLINIUM OXIDE AS SATURABLE ABSORBER	10685200	57	0	102209	2020	1.824	WEB OF SCIENCE	Article/ Review	3
15	OPTICS AND LASER TECHNOLOGY	INDIUM TIN OXIDE COATED D-SHAPE FIBER AS SATURABLE ABSORBER FOR PASSIVELY Q-SWITCHED ERBIUM-DOPED FIBER LASER	00303992	124	0	105998	2020	3.319	WEB OF SCIENCE	Article/ Review	1
16	IOP CONFERENCE SERIES: MATERIALS SCIENCE AND	MICROSECOND PULSE GENERATION USING BISMUTH SALENIDE AS	1757899X	854	1	012037	2020	-	Scopus	Conference/ Proceedings Paper	-

	ENGINEERING	SATURABLE ABSORBER IN 1.5 UM REGION										
17	IOP CONFERENCE SERIES: MATERIALS SCIENCE AND ENGINEERING	NANOSECOND PULSE ERBIUM-DOPED FIBER LASER BASED ON EVANESCENT FIELD INTERACTION WITH LUTETIUM OXIDE	17578981	854	1	012038	2020	-	Scopus	Conference/ Proceedings Paper	-	
18	APPLIED OPTICS	Q-SWITCHED YTTERBIUM-DOPED FIBER LASER BASED ON EVANESCENT FIELD INTERACTION WITH LUTETIUM OXIDE	2155/3165	58	35	9670-9676	2019	1.973	WEB OF SCIENCE	Article/ Review	2	
19	OPTIK	PASSIVELY Q-SWITCHED ERBIUM-DOPED FIBER LASER UTILIZING LUTETIUM OXIDE DEPOSITED ONTO D-SHAPED FIBER AS SATURABLE ABSORBER	162972	193	0	0	2019	1.914	WEB OF SCIENCE	Article/ Review	3	
20	OPTICAL FIBER TECHNOLOGY	PASSIVELY Q-SWITCHED AND MODE-LOCKED ERBIUM-DOPED FIBER LASER WITH TOPOLOGICAL INSULATOR BISMUTH SELENIDE (BI ₂ SE ₃) AS SATURABLE ABSORBER	10685200	48	0	117-122	2019	1.35	WEB OF SCIENCE	Article/ Review	3	

		AT C-BAND REGION									
21	JOURNAL OF PHYSICS: CONFERENCE SERIES	Q-SWITCHED YTTERBIUM-DOPED FIBER LASER USING GRAPHENE OXIDE AS PASSIVE SATURABLE ABSORBER	1742/6596	1371	1	012004	2019	-	PUBLICATION IN SCOPUS	Conference/ Proceedings Paper	-
22	JOURNAL OF PHYSICS: CONFERENCE SERIES	MICROSECOND PULSE ERBIUM-DOPED FIBER LASER USING WS ₂ DEPOSITED ON D-SHAPED FIBER FABRICATED BY POLISHING WHEEL TECHNIQUE	1742/6596	1371	1	012001	2019	-	PUBLICATION IN SCOPUS	Conference/ Proceedings Paper	-
23	JOURNAL OF PHYSICS: CONFERENCE SERIES	Q-SWITCHED DUAL-WAVELENGTH ERBIUM-DOPED FIBER LASER USING GRAPHENE AS A SATURABLE ABSORBER	1742/6596	1371	1	012007	2019	-	PUBLICATION IN SCOPUS	Conference/ Proceedings Paper	-
24	BULLETIN OF ELECTRICAL ENGINEERING AND INFORMATICS	OBSERVATION OF DARK AND BRIGHT PULSES IN Q-SWITCHED ERBIUM DOPED FIBER LASER USING GRAPHENE NANOPATELETS AS SATURABLE ABSORBER	23029285	8	4	1358-1365	2019	-	PUBLICATION IN SCOPUS	Article/ Review	-
25	ADVANCED SCIENCE LETTERS	THE RELATIONSHIP BETWEEN MENTORING IN STUDENTS' PERCEPTION	19366612	24	1	72-73	2018	-	WEB OF SCIENCE	Conference/ Proceedings Paper	-

		TOWARDS STEM EDUCATION									
26	OPTIK	SHORT-PULSED Q-SWITCHED THULIUM DOPED FIBER LASER WITH GRAPHENE OXIDE AS A SATURABLE ABSORBER	00304026	168	0	462-466	2018	1.191	WEB OF SCIENCE	Article/Review	3
27	NONLINEAR OPTICS, QUANTUM OPTICS.	Q-SWITCHED ERBIUM-DOPED FIBER LASER USING MOS DEPOSITED SIDE-POLISHED D-SHAPE FIBER	15430537	49	3-4	285-293	2018	-	PUBLICATION IN SCOPUS	Article/Review	-
28	BULETIN OPTIK	LENGTH OPTIMIZATION OF ERBIUM DOPED FIBER LASER IN RING CAVITY	25048546	3	1	9-13	2018	-	JOURNAL ARTICLE NON CITATION-INDEXED	NON UTM	-
29	BULETIN OPTIK	DOUBLE-BRILLOUIN-FREQUENCY SPACED MULTIWAVELENGTH FIBER LASER USING HIGH RESOLUTION OSA	25048546	3	2017	22-26	2017	-	JOURNAL ARTICLE NON CITATION-INDEXED	NON UTM	-
30	BULETIN OPTIK	TERAHERTZ TIME-DOMAIN SPECTROSCOPY OF LOCAL COW'S TISSUES	25048546	2	2	16-22	2017	-	JOURNAL ARTICLE NON CITATION-INDEXED	NON UTM	-
31	BULETIN OPTIK	EFFICIENCY OF OUTPUT POWER IN RING CAVITY OF ERBIUM DOPED FIBER LASER	25048546	2017	3	7-11	2017	-	JOURNAL ARTICLE NON CITATION-INDEXED	NON UTM	-

NO.	TYPE a. INDEXED PROCEEDINGS/CONFERENCE b. NON- INDEXED PROCEEDINGS/CONFERENCE c. SEMINARS/WORKSHOPS d. THESIS e. ORIGINAL BOOK f. EDITED BOOK g. BOOK CHAPTER h. CLASSIFIED/TECHNICAL/ i. EXPERT REPORT j. POLICY PAPER	TITLE	YEAR	AUTHOR
1	Book Chapter	Senior High School General Physics 1	2019	Co-Author
2	Non- Indexed Proceedings/Conference	Plasma Surface Cleaning and Coating by Using Graphene Electrode	2016	Co-Author
3	Non- Indexed Proceedings/Conference	Theoretical Approach of Copper Nanolayer Surface Plasmon Resonance Sensor	2017	Corresponding Author
4	Non- Indexed Proceedings/Conference	Linking Mentoring and STEM Education	2017	UTM First Author
5	Non- Indexed Proceedings/Conference	Q-Switched Ytterbium-Doped Fiber Laser Using Graphene Oxide as Passive Saturable Absorber	2019	Corresponding Author
6	Non- Indexed Proceedings/Conference	Q-Switched Dual-Wavelength Erbium-Doped Fiber Laser Using Graphene as a Saturable Absorber	2019	Corresponding Author
7	Non- Indexed Proceedings/Conference	Microsecond Pulse Erbium-Doped Fiber Laser Using WS ₂ Deposited on D-Shaped Fiber Fabricated by Polishing Wheel Technique	2019	Corresponding Author
8	Article In Mass Media	UTM Anjur 'Young Scientist Pioneer' Semai Minat Pelajar SMK Wira Penrissen Terhadap STEM	2019	Individual Author

9	Article In Mass Media	UTM Toastmasters Club Newsletter 2020/2021	2021	Co-Author
10	Non- Indexed Proceedings/Conference	Evaluating Skills Among Secretariats of Venturing into Kampung Orang Asli Pasir Salam	2023	UTM First Author
11	Non- Indexed Proceedings/Conference	Measuring The Impact of Sustainability Webinar Towards 3R Practices	2023	UTM First Author
12	Poster Conference	Young Scientist Pioneer 2022: Effectiveness of Science Module on Sk Singkir, Kedah	2023	UTM First Author

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

NO	ROLE	TITLE OF PROGRAMME	DATE	LOCATION
1	Invited Speaker	SEGTA 2024: Fiber Laser and Applications	4 th Mar 2024	Universitas Airlangga, Indonesia
2	Invited Guest Speaker	Kuliah Umum- Photonics Light Source and Wave Guide	13 th July 2017	Universitas Riau, Indonesia
3	Speaker	STEM Day Workshop: Nur in Physics	7 th Aug 2018	Johor Bahru
4	Speaker	Science communication	13 th Aug 2018	UTM
5	Poster Presenter	4 th Malaysia 2D Materials and Carbon Nanotube Workshop	17 th October 2016	UTM

PROFESSIONAL SERVICES

Consultation and Training

NO	ROLE	TITLE OF PROGRAMME	DATE	LOCATION	TOTAL INCOME GENERATED (RM)
1	Committee	Regional Conference on Nuclear Physics and Winter School (RCNP 2016)	12-16 Dis 2016	UTM	5100.00
2	Fasilitator	Kolokium Kebangsaan Pendidik Sains	12 Nov 2016	UTM	13200.00

		Teknologi Kejuruteraan dan Matematik (KKPSTEM) 2016 Peringkat Negeri Johor			
3	Committee	Regional Conference on Solid State Science and Technology (RCSST 2016)	15-17 Nov 2016	KSL Resort Hotel	94230.00
4	Leader	Jelajah Sains 3.0	1 st Oct 2017	UTM	4700.00
5	Fasilitator	Jelajah Sains 2 (STEM Day) sempena Iskandar Learning Festival	20 July 2017	UniKL MITEC	3000.00
6	Fasilitator	Jelajah Sains 1	11 May 2017	7 buah sekolah dalam daerah Johor Bahru Tengah	3000.00
7	Leader	Marhabah Stem Day	22 July 2018	SMK Kota Masai	360.00
8	Committee	PHILIPPINES SENIOR HIGH SCHOOL CURRICULUM : GENERAL PHYSICS 1 & 2	31 st Aug 2019	UTM	12000.00
9	Committee	ILATOS 2022	22 nd Sept 2022	UTM	30503.11
10	Committee	ILATOS 2020	23 rd Oct 2020	Laser Center, UTM	20251.00
11	Leader	Program Jelajah Sains 2018	28 th Apr 2018	UTM	9200.00

Community Project

NO	ROLE	NAME OF PROJECT	DATE	TOTAL VALUE OF PROJECT (RM)
1	Leader	MSN Telescope	Aug 2022	RM 300
2	Leader	Young Scientist Pioneer (Kedah)	Dis 2022	RM 8,500

3	Leader	Young Scientist Pioneer (Sarawak)	Jan 2020	RM 8,000
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Community and University Services

NO	ROLE	TITLE OF PROGRAMME	DATE	LEVEL	LOCATION
1	Committee	Regional Conference on Nuclear Physics and Winter School (RCNP 2016)	12 th -16 th Dis 2016	International	UTM
2	Committee	Kolokium Kebangsaan Pendidik Sains Teknologi Kejuruteraan dan Matematik (KKPSTEM) 2016 Peringkat Negeri Johor	12 th Nov 2016	National	UTM
3	Committee	Regional Conference on Solid State Science and Technology (RCSST 2016)	15 th -17 th Nov 2016	International	KSL Resort Hotel
4	Leader	Jelajah Sains 3.0	1 st Oct 2017	National	UTM
5	Committee	Jelajah Sains 2 (STEM Day) sempena Iskandar Learning Festival	20 th July 2017	National	UniKL MITEC
6	Committee	Jelajah Sains 1	11 th May 2017	National	7 buah sekolah dalam daerah Johor Bahru Tengah
7	Leader	Marhabah Stem Day	22 nd July 2018	National	SMK Kota Masai
8	Leader	Program Jelajah Sains 2018	28 th Apr 2018	National	UTM

Endowment and Wakaf to University

NO	NAME OF ENDOWMENT AND WAKAF	TOTAL CONTRIBUTION (RM)
1	Endowment	-
2	Wakaf	RM 150 x 84 months

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NO	NAME OF COPYRIGHT	STATUS OF COPYRIGHT	COPYRIGHT NO
1	Borang Soal Selidik dan Konstruk Program Bertemakan Mentor-Mentee STEM	Recommended	IP/CR/2018/0082
2	Jelajah Sains Siri Hijau (JSSH) - Modul Pembelajaran	Secretariat Correction	IP/CR/02946
3	Modul Pelaksanaan Saintis Cilik Kreatif	Secretariat Correction	IP/CR/2018/0087
4	Home of Arduino ; Project-Based Training for Science Exploration	Secretariat Correction	IP/CR/2018/0076

REFEREES

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