



PERSONAL DETAILS

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Gender : Male
Date Of Birth/Age : 20 October 1990 / 33 Years Old
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ID Staff : 14504
Expertise : Optimization Materials and Process, Tissue Engineering, Frontier
 Materials, Additive Manufacturing, Polymeric Materials, Nanomaterials,
 Biomaterials, Electrospinning
H-Index (WOS) : 10
H-Index (SCOPUS) : 10
H-Index (G. Scholar) : 11
H-Index (Researchgate) : 10

ACADEMIC QUALIFICATIONS

NO	LEVEL OF EDUCATION	COURSE	UNIVERSITY	STARTING DATE	ENDING DATE
1.	Doctor Of Philosophy	Mechanical Engineering	Universiti Teknologi Malaysia	05/09/2012	06/10/2016
2.	Bachelor Of Engineering	Mechanical Engineering (Industrial)	Universiti Teknologi Malaysia	02/06/2008	11/06/2012
3.	Matriculation	Science Physics	Kolej Matrikulasi Johor	02/04/2007	01/05/2008

AWARD AND HONORS RECEIVED

Summary	
International Awards/Honors	17
National Awards/Honors	8
UTM Awards/Honors	22
Faculty Awards/Honors	6

NO	AWARD	LEVEL (FACULTY / UTM / NATIONAL / INTERNATIONAL)	YEAR
1	Gold Medal, Penang International Invention, Innovation and Design (PIID) 2023	International	2023
2	Silver Medal, Penang International Invention, Innovation and Design (PIID) 2023	International	2023
3	Silver Medal, Malaysia Technology Expo (MTE) 2023	International	2023
4	Silver Medal, Seoul International Invention Fair 2022	International	2022
5	Special Award Seoul International Invention Fair 2022	International	2022
6	Gold Award International Research Conference and Innovation Exhibition 2022 (IRCIE)	International	2022
7	The Most Outstanding Innovation Award International Research Conference and Innovation Exhibition 2022 (IRCIE)	International	2022
8	Invited Speaker 1st Industrial Engineering Symposium (Telkom University-UTM)	International	2022
9	Invited Speaker International Conference on Green Engineering and Technology (IConGETECH 2022)	International	2022
10	Excellence Service Award 2021 Universiti Teknologi Malaysia	UTM	2022
11	Appreciation Award Appreciation Ceremony For Implementing The Integrated Pest Control Project of Johor Department of Agricultural Johor	National	2022
12	Community and Industry Involvement Award Faculty Mechanical of Engineering Universiti Teknologi Malaysia	Faculty	2022
13	Best Paper Award, International Professional Doctorate & Postgraduate Symposium 2021	International	2021
14	Invited Speaker 3rd International Conference on Green Engineering & Technology 2021 (IConGETech2021),	International	2021
15	Invited Speaker DLSU Research Congress Mini-Symposium (De La Salle University, Philippines)	International	2021

16	Active Blended Learning Course, MKMI1803-01 - Production And Operations Management	UTM	2021
17	Active Blended Learning Course, SKMM4902- Engineering Professional Practice (Section 3 & 4)	UTM	2021
18	Excellence Service Award 2020 Faculty of Engineering Universiti Teknologi Malaysia	Faculty	2021
19	Best Paper Award, International Conference on Industrial, Enterprise and System Engineering	International	2020
20	Silver Medal, Invention Project, Asia International Innovation Exhibition	International	2020
21	3rd Best Award on Presentation, Asia International Innovation Exhibition	International	2020
22	Active Blended Learning Course, MKMI2813-01 - Facilities Planning And Design	UTM	2020
23	Active Blended Learning Course, SKMI4833-02 - Facility Design	UTM	2020
24	Gold Award International Research Conference and Innovation Exhibition 2019 (IRCIE)	International	2019
25	Gold Award, International Conference and Expo on Inventions by Institutions of Higher Learning (PENCIPTA'19)	International	2019
26	Winner Top Glove Industrial Collaboration Grant (TGICG) Competition	National	2019
27	Active Blended Learning Course, SKMI4833-02 - Facility Design	UTM	2019
28	Active Blended Learning Course, SKMI4823- Sec 04 & Sec 05 – Engineering Management, Safety and Economics	UTM	2019
29	Excellence Service Award 2018 Faculty of Engineering Universiti Teknologi Malaysia	Faculty	2019
30	Gold Award for Industrial Art & Technology Exhibition (INATEX)	National	2018
31	Best Of the Best Award for UTM Grand Challenges	UTM	2018
32	Gold Award for UTM Grand Challenges	UTM	2018
33	Bronze Medal UTM Staff Games (Football)	UTM	2018
34	Active Blended Learning Course, SKMI4823-Sec 03 & Sec 06 – Engineering Management, Safety and Economics	UTM	2018
35	Active Blended Learning Course, SKMI4833-02 - Facility Design	UTM	2018
36	Silver Award Industrial Art & Technology Exhibition (INATEX)	National	2017

37	Best Poster Award International Symposium on Green Manufacturing and Applications	International	2016
38	Winner 3MT (Minutes Thesis) Global Engineers in Asia	International	2016
39	Winner National 3MT (Minutes Thesis) Competition – Engineering Category	National	2016
40	National Excellent Graduate Award	National	2016
41	Chancellor Award in Conjunction with the 57th Convocation	UTM	2016
42	Best Postgraduate UTM Student Award	UTM	2016
43	Winner UTM 3MT (Minutes Thesis) Competition – Engineering Category	UTM	2016
44	Runner Up UTM Materials Lecture Competition runner Up UTM Materials Lecture Competition	UTM	2016
45	Winner Faculty of Mechanical Engineering 3MT (Minutes Thesis) Competition	Faculty	2016
46	Gold Medal For Industrial Art & Technology Exhibition (INATEX)	National	2015
47	Jury Award for Industrial Art & Technology Exhibition (INATEX)	National	2015
48	Best Assistant Fellow of Fellowship Development Institute (IPF), Universiti Teknologi Malaysia	UTM	2015
49	Invitation As Visiting Researcher at Korean Institute Materials Science (KIMS), South Korea	International	2014
50	Best Assistant Fellow of Tuanku Canselor's College	UTM	2014
51	Best Presenter for Fellowship Convention	UTM	2013
52	Dean Award for Bachelor of Engineering (Mechanical-Industrial) In Conjunction with the 49th Convocation	UTM	2012
53	Best Academic Award UMW Holdings Berhad in Conjunction with the 49th Convocation	UTM	2012
54	Best Academic Award of Tuanku Canselor's College	UTM	2012
55	Overall Excellent Award Faculty of Mechanical Engineering	Faculty	2012
56	Dean's List for Semester 2, 3, 4, 5, 6, 7 & 8 Bachelor Degree Intake 2008/2009	Faculty	2008/2012

WORKING EXPERIENCE

NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT/ORGANISATION
1.	Senior Lecturer	2016	Current	Department Of Materials, Manufacturing & Industrial Engineering School Of Mechanical Engineering Faculty Of Engineering Universiti Teknologi Malaysia
2.	Special Task Officer 1 To Minister Of National Unity	Jan 2020	Nov 2020	Minister Of National Unity Putrajaya, Malaysia
3.	Guest Researcher Composites Research Center	June 2014	Dec 2014	Korean Institute Of Materials Science Seongsan-Gu, Changwon Gyeongnam, 642-831 South Korea
4.	Mechanical Engineer MEMTEC PLT	Feb 2015	July 2016	Block 1A UTM-MTDC Technovation Technology Centre Jalan Pontian Lama 81300, Skudai, Johor Malaysia

PROFESSIONAL MEMBERSHIP / QUALIFICATIONS / RECOGNITION

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

NO	NAME OF PROFESIONAL MEMBERSHIP	LEVEL (FACULTY /UTM /NATIONAL /INTERNATIONAL)	ROLE	YEAR
1.	Board Of Engineers Malaysia	National	Professional Engineer (P121357)	2020
2.	Malaysia Board of Technologist	National	Professional Technologist (PT20050109)	2020
3.	Engineering Council, United Kingdom	International	Chartered Engineer	2019
4.	Institute Of Mechanical Engineer, United Kingdom	International	Member (80426477)	2019

ADMINISTRATIVE EXPERIENCE

NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT/ FACULTY/ DIVISION
1.	Head of Student Development Committee, School of Mechanical Engineering	Jan 2017	Jan 2020	Faculty
2.	Coordinator Master of Science – Industrial Engineering	Mac 2021	Jun 2022	Faculty
3.	Head of Panel – Industrial Engineering	July 2022	Jun 2024	Faculty

CONSULTATION WORKS

Summary	
Consultation Project-UTM	10 Projects (RM 394,127)
Consultation Project- Others	7 Projects (RM 232,025)

No	Year	Title	Value	Vot
1.	2022	Life Cycle Analysis -OGLAEND Industry Sdn Bhd	RM 88,125	1828-UTSB
2.	2021	Edu Challenge Ir 4.0 (Dec4ir)	RM 22,400	UTIM 161
3.	2019	8_Ergonomics Training Dibawah INDUSTRY4WRD Bagi Guru Sekolah Menengah Teknik	RM 3,200	Bendahari UTM
4.	2019	INDUSTRY4WRD - Train The Trainers Bagi Program Industri@University Fasa 2	RM 19,000	Bendahari UTM
5.	2019	Kursus Peningkatan Kemahiran Guru Untuk Program Train For Trainers Dibawah Insentif Kewangan Technical Working Group-Skills(TWG-S) Dasar INDUSTRY4WRD	RM 68,300	Bendahari UTM
6.	2019	Sustainable & Integrated Engineering International Conference (SIE2019) (FKM)	RM 154,000	A.J.5106..5600.0636 4
7.	2019	Sustainable & Integrated Engineering International Conference (SIE2019) (UTSB)	RM 99,740	1151
8.	2018	Ergonomic Training In Workplace	RM 3,000	Bendahari UTM
9.	2018	Polymer Testing Petrochemicals (M) Sdn Bhd	RM 9,600	Bendahari UTM
10.	2018	Sponsorship for Materials Lecture Competition 2018	RM 5,000	Endowment UTM
11.	2018	Sponsorship for National Materials Lecture Competition 2018	RM 21,400	Endowment UTM
12.	2017	4th Workshop on Sample Preparation and Microstructural Analysis 2017	RM 9,852	Bendahari UTM
13.	2017	2nd Multidisciplinary Conference on Mechanical Engineering (McME 2017)	RM 2,000	Bendahari UTM
14.	2017	UTM-IMM 1-day Symposium On Materials Processing, Inspection And Testing 2017	RM 19,292	Bendahari UTM
15.	2017	Sponsorship for Materials Lecture Competition 2017	RM 1,000	Bendahari UTM
16.	2017	Endowment From Alumni Dinner	RM 20,000	Endowment UTM
17.	2017	FKM Alumni Dinner	RM 80,243	Bendahari UTM

INTERNATIONAL/NATIONAL/UNIVERSITY COMMITTEE

Summary	
International Committee	13
National Committee	20
University Committee	30
Faculty Committee	36
Community Committee	5

INTERNATIONAL

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1	International Symposium on Medical Devices and Technology	Chairman	01/05/2023	28/08/2023
2	2nd Industrial and Manufacturing Engineering Symposium	Co-Chair	01/05/2023	23/08/2023
3	3rd International Medical Devices and Technology Conference 2023	Head of Database Department	01/01/2023	30/10/2023
4	Research Committee, Faculty of Advanced Technology and Multidiscipline, University Airlangga, Indonesia	Adjunct Professor	05/09/2022	05/09/2023
5	1st Industrial Engineering Symposium (Telkom University-UTM)	Chairman	22/08/2022	23/08/2022
6	International Conference on Green Engineering and Technology (IConGETECH 2022)	Committee	17/11/2022	18/11/2022
7	International Matching Grant (Indonesia-Malaysia)	Facilitator	19/03/2021	19/03/2021
8	5th International Innovation Day	Panel	24/03/2020	24/03/2020
9	Public Lecture Telkom University, Bandung Indonesia	Speaker	14/03/2020	14/03/2020
10	International Journal of Innovation in Enterprise System	Editor	26/12/2019	Current
11	Global Learning Week, Telkom University, Bandung, Indonesia	Guest Lecturer	20/05/2019	29/05/2019
12	Sustainable And Integrated Engineering International Conference (Sie2019)	Head of Sponsorship	11/12/2018	31/12/2019
13	International Materials, Industrial and Manufacturing Engineering Conference (MIMEC 2017)	Committee	01/01/2017	08/12/2017

NATIONAL

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1	National Science Week 2022	Member	01/04/2022	31/10/2022
2	National Level 3 Minute Thesis Competition Participants 2022	Referral Expert And Mentor	18/05/2022	28/06/2022
3	Management & Science University idea Regeneration eXpo (MSU IREX)	Panel	14/06/2021	14/06/2021
4	Help of Mellinennials (H.O.M.E)	Panel	18/04/2021	18/04/2021
5	Dewan Muda Johor	Member	24/10/2021	30/10/2021
6	Kursus Peningkatan Kemahiran Guru Industry4wrđ	Chairman	20/10/2019	24/10/2019
7	Dynamic Leadership Course – Junior Leaders	Speaker	25/07/2019	25/07/2019
8	Research Team, Biosecurity Division, Department of Agricultural Johor, Malaysia	Chairman	02/12/2018	31/12/2019
9	Persatuan Alumni dan Mahasiswa Johor	Chairman	19/04/2018	18/05/2020
10	Kelab Wadah Pemikir Malaysia	Chairman	08/03/2018	07/03/2021
11	National Materials Lecture Competition 2018	Co-Chairperson	05/04/2018	03/05/2018
12	Working Committee Member National Materials Lecture Competition 2018-2022	Member	13/04/2018	20/03/2020
13	Multidisciplinary Conference on Mechanical Engineering (McME 2018)	Member	03/09/2018	04/09/2018
14	Gerak Remaja Belia 4B Negeri Johor	Chairman	01/05/2017	31/12/2018
15	Southern Drone Racing Championship	Member	01/10/2017	01/10/2017
16	4th Workshop on Sample Preparation and Microstructural Analysis 2017	Member	27/09/2017	28/09/2017
17	UTM-IMM 1-day Symposium On Materials Processing, Inspection And Testing (MPIT 2017)	Member	04/09/2017	28/12/2017
18	STEM Day Iskandar Learning Festival 2017 (ILF2017)	Member	15/07/2017	28/07/2017

19	Multidisciplinary Conference on Mechanical Engineering (McME 2017)	Member	13/07/2017	17/10/2017
20	Committee Member of National Materials Lecture Competition 2017	Member	07/04/2017	16/05/2017

UNIVERSITY

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1	UTM 3 Minutes Thesis Finalist	Mentor	16/05/2023	30/06/2023
2	UTM 3 Minutes Thesis Competition 2023	Panel	15/05/2023	15/05/2023
3	UTM 3 Minutes Thesis Competition 2022	Panel	21/03/2022	21/03/2022
4	UTM Materials Lecture Competition 2021	Co-Chair	01/04/2021	25/04/2021
5	UTM 3 Minutes Thesis Competition 2021 (Engineering)	Panel	19/05/2021	19/05/2021
6	3 Minutes Final Year Project Competition	Member	13/10/2021	18/12/2021
7	UTM ISES Cultural Task Force	Member	01/10/2021	30/09/2022
8	Leadership Acceleration Program 2021	Member	02/08/2021	18/11/2021
9	Faculty Promotion Representative	Member	01/03/2021	01/03/2022
10	UTM Materials Lecture Competition 2020	Co-Chair	05/03/2020	31/07/2020
11	UTM Speakers Talent Pool (UTM STP)	Mentor	01/01/2020	31/12/2020
12	3 Minutes Final Year Project Competition	Chairman	11/12/2019	23/12/2019
13	UTM Materials Lecture Competition 2019	Chairman	11/02/2019	30/06/2019
14	3 Minutes Thesis Competition National Level	Coach	08/04/2019	31/07/2019
15	Graduate Research Exhibition Competition 2019	Panel	21/03/2019	21/03/2019
16	3 Minutes Thesis Competition 2019	Panel	18/03/2019	18/05/2019
17	UTM Speakers Club Referral Expert	Member	15/01/2019	14/01/2021
18	UTM Global Plan Task Force Phase 3	Member	01/06/2019	31/12/2020
19	Intersarsity Nuclear Debate Challenge 2018	Advisor	01/10/2018	18/11/2018
20	UTM Engineering Student Carnival 2019	Advisor	28/01/2018	04/03/2019
21	3 Minutes Thesis Competition 2018	Panel	26/03/2018	26/03/2018
22	JKM Professional Days'18	Speaker	10/01/2018	10/01/2018
23	International Research Grant Day	Member	19/12/2018	20/12/2018
24	UTM Grand Challenges 2018	Member	29/10/2018	30/10/2018

25	UTM Materials Lecture Competition 2018	Member	01/03/2018	01/04/2018
26	3 Minutes Thesis Competition National Level	Coach	20/04/2017	20/04/2017
27	3 Minutes Thesis Competition 2017	Panel	20/04/2017	20/04/2017
28	UTM Materials Lecture Competition 2017	Secretary	01/03/2017	10/04/2017
29	Dragon Boat Sport Team	Manager	31/03/2017	15/04/2017
30	Sample Preparation Workshop	Member	27/09/2017	28/09/2017

FACULTY

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1	SKM MyRA Audit Committee	Member	01/03/2022	28/02/2024
2	Task Force MQA 04 Industrial Engineering Program	Chairman	02/03/2022	31/12/2022
3	FKM Promotion Committee	Member	01/01/2022	31/12/2024
4	Coordinator of Master of Science in Industrial Engineering (Part time Program)	Chairman	04/04/2021	30/09/2021
5	Coordinator of Master of Science in Industrial Engineering	Chairman	15/03/2021	14/03/2023
6	Industrial Training Supervisor Session 2020/2021	Member	09/09/2021	31/10/2021
7	Documentation of Self Assessment Report Task Force	Member	01/07/2021	31/12/2021
8	Full Program Accreditation Compliance Assessment Task Force Document : MQA 04 Faculty Of Engineering	Member	01/02/2021	31/12/2021
9	SKM Examination Committee	Member	01/03/2021	29/02/2024
10	How To Get Yourself Employed SKM 2020	Panel	25/02/2020	25/02/2020
11	SKM Endowment And Alumni Committee	Member	15/09/2020	14/09/2022
12	Faculty Research Grant Champion	Member	01/03/2020	28/02/2023
13	Facilities Design Course Coordinator	Chairman	24/01/2019	30/06/2019
14	Service Learning : Facilities Design	Advisor	01/02/2019	19/03/2018
15	SKM Mechatronic Challenges	Panel	11/05/2019	11/05/2019
16	Domino Challenges	Panel	05/04/2019	06/04/2019
17	Introduction To Design Show 2019	Panel	16/05/2019	16/05/2019
18	SKM Strategic Planning Taskforce 2019	Member	13/03/2019	15/03/2019
19	Student Development Committee	Chairman	15/09/2018	14/09/2020
20	Facilities Design Course Coordinator	Chairman	11/02/2018	31/08/2018

21	Coordinator of Engineering Management, Safety and Economy course	Chairman	27/08/2018	31/12/2018
22	Mechanical Career Fair 2018	Advisor	01/01/2018	30/04/2018
23	How To Get Yourself Employed SKM 2018	Panel	27/11/2018	04/12/2018
24	Domino Challenges	Panel	11/05/2018	12/05/2018
25	SKM Endowment And Alumni Committee	Member	15/09/2018	14/09/2020
26	SKM Undergraduate Survey Committee	Member	15/09/2018	14/09/2020
27	FE Student Development Committee	Member	10/09/2018	30/06/2021
28	SKM Examination Committee	Member	15/07/2018	14/07/2020
29	FKM Annual Report Book Committee Session 2017/2018	Member	06/02/2018	31/12/2018
30	Integrated Design Project	Member	01/01/2018	31/12/2018
31	Curriculum Review Committee	Member	01/01/2018	31/12/2018
32	SAR Report Undergraduate fkm (Task Force Survey)	Chairman	01/10/2017	31/12/2017
33	FKM Go Green Program	Advisor	01/11/2017	09/12/2017
34	FKM Safety Pass Module Construction Committee	Member	15/05/2017	31/12/2017
35	FKM Publications And Conferences Committee	Member	25/04/2017	24/04/2019
36	FKM Student Development Committee	Member	01/01/2017	31/12/2018

COMMUNITY

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1	Carnival Jubli Delima SM Agama Kota Tinggi	Head of Science and Technology	01/12/2022	02/12/2022
2	Design Space STIE Keluarga Malaysia Kota Tinggi	Member	27/11/2021	Current
3	Program Cergas Minda - KEMAS	Speaker	04/02/2018	04/02/2018
4	Motivational Talk – Strive for Excellence, SMK Tun Fatimah Hashim	Speaker	08/04/2018	08/04/2018
5	Motivational Talk – SMK Taman Universiti 2	Speaker	31/10/2017	31/10/2017

SELECTED ACTIVITIES / WORKSHOPS / SEMINARS / COURSES

NO	NAME OF ACTIVITIES	PLACE OF ACTIVITIES	STARTING DATE	ENDING DATE
1	Penang International Invention, Innovation and Design (PIID) 2023	Penang, Malaysia	16/05/2023	18/05/2023
2	Malaysia Technology Expo (MTE) 2023	Kuala Lumpur, Malaysia	16/03/2023	18/03/2023
3	Seoul International Invention Fair 2022	Seoul, South Korea	16/11/2022	19/11/2022
4	International Conference on Green Engineering and Technology (IconGETECH 2022)	Seoul, South Korea	17/11/2022	18/11/2022
5	International Research Conference and Innovation Exhibition 2022 (IRCIE)	Johor Bahru, Malaysia	23/11/2022	23/11/2022
6	End Life Vehicle Recycling Training Program	Kanazawa, Japan	26/09/2022	30/09/2022
7	1 st Industrial Engineering Symposium UTM-TelU 2022	Bandung, Indonesia	22/08/2022	23/08/2022
8	International Conference on Industrial Enterprise and System Engineering (ICOIESE), 2021	Bandung, Indonesia	15/12/2021	16/12/2021
9	International Professional Doctorate & Postgraduate Symposium 2021	Johor Bahru, Malaysia	25/09/2021	25/09/2021
10	11th International Conference In Mechanical And Manufacturing Engineering (ICME'21)	Batu Pahat, Malaysia	25/08/2021	26/08/2021
11	Leadership Acceleration Program 2021	Johor Bahru, Malaysia	02/08/2021	18/11/2021
12	De La Salle University (DLSU) 2021 Research Congress - Natural Products: From Research To Industry	Manila, Philippines	06/07/2021	08/07/2021
13	Management & Science University idea Regeneration eXpo (MSU IREX)	Shah Alam, Malaysia	14/06/2021	14/06/2021
14	International Conference On Green Engineering & Technology (IconGETECH) 2021	Perlis, Malaysia	04/02/2021	04/02/2021
15	Asia International Innovation Exhibition 2020	Johor Bahru, Malaysia	18/09/2020	20/09/2020
16	Public Lecture Telkom University, Bandung Indonesia	Bandung, Indonesia	14/03/2020	14/03/2020
17	International Conference on Industrial Enterprise and System Engineering (ICOIESE), 2020	Bali, Indonesia	04/03/2020	05/03/2020
18	International Research Conference and Innovation Exhibition 2019 (IRCIE)	Johor Bahru, Malaysia	25/11/2019	27/11/2019
19	End of Life Vehicle, Economic Partnership Program, 2019	Kanazawa, Japan	14/10/2019	02/11/2019
20	International Conference and Expo on Inventions by Institutions of Higher Learning (PENCIPTA'19)	Batu Pahat, Malaysia	22/09/2019	23/09/2019
21	5th International Conference On Mechanical Engineering Research	Kuantan, Malaysia	20/07/2019	31/07/2019

22	Global Learning Week, Telkom University, Telkom University,2019	Bandung, Indonesia	20/05/2019	29/05/2019
23	The 5th International Conference on Green Design and Manufacture 2019	Bandung, Indonesia	29/04/2019	30/04/2019
24	Remote Supervision Course (AS 104),2019	Johor Bahru, Malaysia	14/04/2019	14/04/2019
25	Silver Jubilee Assembly of Advanced Materials Congress (2019)	Stockholm, Sweden	24/03/2019	27/03/2019
26	Industrial Art & Technology Exhibition (INATEX) 2018	Johor Bahru, Malaysia	29/10/2018	31/10/2018
27	UTM Grand Challenges 2018	Johor Bahru, Malaysia	29/10/2018	31/10/2018
28	Multidisciplinary Conference on Mechanical Engineering (McME 2018)	Johor Bahru, Malaysia	03/09/2018	04/09/2018
29	Workshop on Delivering & Assessing Integrated Design Project,2019	Johor Bahru, Malaysia	25/04/2018	26/04/2018
30	Active Learning Workshop,2018	Johor Bahru, Malaysia	25/02/2018	26/02/2018
31	Industrial Art & Technology Exhibition (INATEX) 2017	Johor Bahru, Malaysia	21/11/2017	23/11/2017
32	4 th Workshop on Sample Preparation and Microstructural Analysis 2017	Kuala Lumpur, Malaysia	27/09/2017	28/09/2017
33	STEM Day Iskandar Learning Festival 2017 (ILF2017)	Johor Bahru, Malaysia	15/07/2017	28/07/2017
34	UTM-IMM 1-day Symposium On Materials Processing, Inspection And Testing (MPIT 2017)	Johor Bahru, Malaysia	14/06/2017	24/08/2017
35	3 rd International Materials, Industrial and Manufacturing Engineering Conference 2017	Miri, Malaysia	01/01/2017	08/12/2017
36	Joint Workshop Global Engineers in Asia 2016	Bangkok, Thailand	25/07/2016	31/07/2016
37	International Symposium on Green Manufacturing and Applications 2016	Bali, Indonesia	21/06/2016	25/06/2016
38	Industrial Art & Technology Exhibition (INATEX) 2016	Johor Bahru, Malaysia	03/11/2015	05/11/2015
39	4 th International Conference on Advanced Manufacturing Technology 2015	Johor Bahru, Malaysia	20/09/2015	22/09/2015
40	Fellowship Convention 2015	Negeri Sembilan, Malaysia	19/03/2015	21/03/2015
41	2 nd International Materials, Industrial and Manufacturing Engineering Conference 2015	Bali, Indonesia	04/02/2015	06/02/2015
42	2014 Korean Society for Composite Materials Conference	Seoul, South Korea	10/06/2014	13/06/2014
43	1 st International Materials, Industrial and Manufacturing Engineering Conference 2013	Johor Bahru, Malaysia	04/12/2013	06/12/2013
44	Workshop and Seminar on Electrospinning: Nanofiber Technology, Theory and Application 2013	UTM Johor Bahru, Malaysia	19/11/2013	19/11/2013

45	National Student Development Conference 2013	Johor Bahru, Malaysia	18/11/2013	20/11/2013
46	MedTech Manufacturing Process Seminar and Roundtable Discussion, Singapore Institute of Manufacturing Technology 2013	Singapore	15/07/2013	15/07/2013
47	Cell Cultures Training 2013, FBME	UTM Johor Bahru, Malaysia	18/06/2013	25/06/2013
48	Fellowship Convention 2013	Melaka, Malaysia	12/04/2013	14/04/2013
49	Analytical Method Seminar 2013	UTM Johor Bahru, Malaysia	27/03/2013	27/03/2013
50	Fiqh, Science and Technology Seminar 2012	UTM Johor Bahru, Malaysia	03/12/2012	04/12/2012

RESEARCH ACTIVITIES

Summary	
Principal Investigator- International Grants	0 Projects (RM 0)
Principal Investigator- National Grants	5 Projects (RM411,869)
Principal Investigator- UTM Grants	6 Projects (RM 298,260)
Member- International Grants	2 Projects (RM30,000)
Member- National Grants	12 Projects (RM1,031,425)
Member- UTM Grants	22 Projects (RM2,024,600)

As A Principal Investigator

NO	TITLE	CATEGORY OF GRANT	TYPE OF GRANT	AMOUNT (RM)	STARTING DATE	ENDING DATE	VOTE NO
1	Pembangunan Mesin Pintar Pembuatan "Mudball" Untuk Industri Kecil Sederhana (IKS)	MOSTI	MyIS	RM 90,700	01/09/2023	31/08/2024	
2	Automated Satay Kebab Processing Machine	KPT	PPRN	RM 86,669	01/09/2023	31/08/2024	
3	Bone Tissue Engineering Scaffolds Based On Optimized Triply Periodic Minimal Surfaces (TPMS) Designs	UTM Grants	UTM R&D Fund	RM 60,000	01/04/2021	31/03/2023	4J506
4	Analysis Of 3d Bone Tissue Engineering Scaffold By Using Method Of Anatomical Features	UTM Grants	Utmshine	RM 40,000	01/10/2021	30/09/2023	09G94
5	Development Of Solid Insecticides For Fruit Flies (Bactrogeel)	UTM Grants	Prototype Development Fund	RM 20,000	01/04/2020	30/09/2021	4J444
6	Synthesis And Characterization Of UV Cured, Polymer Based Bio Resin With Enhanced Mechanicaland Biocompatibility Properties	National Grants	Fundamental Research Grant Scheme	RM 94,500	01/09/2019	31/05/2022	5F188
7	Development Of Sustainable 3D Bone Tissue Engineering Scaffold By Using Novel Natural Resources	National Grants	Collaborative Research Grant	RM 100,000	01/11/2019	30/04/2022	08G22
8	Tribological Properties And Oxidation Stability Improvement Of New Bio-Degradable	UTM Grants	UTM High Impact Research	RM 108,260	01/01/2020	31/12/2023	08G65

	Lubricant Using Blended Palm Oil As Primary Precursors For Minimum Quantity Lubrication In Machining Applications						
9	Optimization Of The Materials Composition And Process Parameters To Enhance Mechanical Properties Of The Developed Tissue Engineering Scaffold And Cell Culture Study	National Grants	Collaborative Research Grant	RM 40,000	01/11/2019	30/04/2022	08G32
10	Development Of Aramide Nanofibers Filled Poly-L-Lactic Acid (Plla)/Polyurethane (Pu) For Tissue Engineering Scaffold	UTM Grants	Tier 1	RM 50,000	01/02/2018	31/01/2020	20H47
11	3D Nanofibrous Maghemite Filled Polyvinyl Alcohol For Bone Tissue Engineering Scaffolds	UTM Grants	Potential Academic Staff	RM 20,000	01/06/2017	31/05/2018	02K87

As A Scientific Member

NO	TITLE	CATEGORY OF GRANT	TYPE OF GRANT	AMOUNT (RM)	STARTING DATE	ENDING DATE	VOTE NO
1.	Techno-Environmental drivers and Sustainable Analysis on the deployment of Metal Additive Manufacturing (AM) technology for 3D-printed Complex Engineering Components	UTM Grants	Flagship CoE/RG	RM 100,000	20/11/2022	19/11/2025	10G02
2.	Intelligent and Sustainable Additive Manufacturing of 3D-printed Complex Engineering Components	UTM Grants	Flagship CoE/RG	RM 500,000	20/11/2022	19/11/2025	10G00
3.	Development of novel mesoporous bioactive glass-based coating with controlled degradation for personalised implants	UTM Grants	Geran Penyelidikan Hi-Tech(F4)	RM 200,000	20/11/2022	19/11/2025	0Q090

4.	Design And Development Of Medical Plastic Enclosure Based On IEC 60601-1 Standard	UTM Grants	UTM Transdisciplinary Research Grant	RM 40,000	01/12/2018	30/11/2022	06G11
5.	Additive Manufacturing Framework Based On Modified TRIZ-AM Principles For Complex Product Design And Development	UTM Grants	UTM R&D Fund	RM 60,000	01/04/2021	31/03/2023	4J508
6.	Performance Evaluation of Coolant Concentration When End Milling Hardened Steel Using Coated Carbide Tool	UTM Grants	UTM R&D Fund	RM 15,900	01/06/2023	31/05/2024	4J641
7.	Development Of A Metal 3D Printer	UTM Grants	UTM RA Iconic Grant	RM 253,500	01/07/2020	30/06/2024	09G66
8.	Consortium For Innovation In End Of Life Vehicle (ELV) Remanufacturing And Recycling	National Grants	Konsortium Kecemerlangan Penyelidikan	RM 151,600	01/01/2021	31/12/2022	4L943
9.	Developing A Framework Of The Techno-Environmental Drivers Influencing The Deployment Of Metal Additive Manufacturing Technology	UTM Grants	UTM High Impact Research	RM 150,000	01/01/2020	30/06/2023	08G41
10.	A Soft Computing Model For Predicting Technology Commercialization Performance	International Grants	Matching Grant	RM 20,000	01/07/2021	30/06/2024	03M62
11.	UNS-A Soft Computing Model For Predicting Technology Commercialization Performance	International Grants	Matching Grant	RM 20,000	01/07/2021	30/06/2024	4B679
12.	3D Printed Electrodes For Electrocatalytic Hydrogen Evolution Reaction	UTM Grants	UTM Encouragement Research	RM 20,000	01/10/2021	30/09/2023	20J79
13.	Evaluation Of High Speed Machining And Micromachining Of Bulk Aerospace Material Fabricated By Direct Metal Laser Deposition Process	UTM Grants	UTM High Impact Research	RM 150,000	01/01/2020	30/06/2023	08G37
14.	Hydrolysis Of Palm Oil Empty Fruit Bunch Using Ionic Solution For Sugarproduction	National Grants	Fundamental Research Grant Scheme	RM 134,800	01/09/2019	31/01/2023	5F244

15.	Investigation Of Tool Wear Mechanism In Machining Of Aerospace Materials For Developing An Intelligent Cutting Tool Monitoring System	UTM Grants	UTM Fundamental Research	RM 63,000	01/01/2020	30/12/2022	20H94
16.	Environmental Life Cycle And Sustainable Analysis Of Membrane Desalination	National Grants	Malaysia Research University Network	RM 100,000	28/12/2018	26/03/2023	4L875
17.	Microalgae-Derived Poly(3-Hydroxybutyrate) And Cellulose Nanowhiskers Bone Scaffolds	UTM Grants	Tier 1	RM 50,000	01/02/2018	31/01/2019	19H20
18.	Air Bersih Untuk Komuniti Nelayan Di Parit Jawa, Muar	National Grants	Malaysia Social Innovation MESTECC	RM 240,140	01/11/2020	31/03/2022	4S148
19.	The Study Of Physical, Chemical And Organoleptic Properties Of Polyesters For Cosmetic Product Application	National Grants	Contract Research DTD	RM 20,160	15/04/2020	30/06/2021	4C351
20.	Industrial Effluent Treatment Using Hollow Fiber Nanofiltration Systems	National Grants	Contract Research DTD	RM 214,725	01/10/2019	31/08/2022	4C294
21.	Development Of A Compact Flight Controller For Unmanned Aerial Vehicle	UTM Grants	Potential Academic Staff	RM 20,000	01/08/2017	31/07/2018	02K97
22.	Behaviour Of Intermetallic Compounds Formed Between Copper Interconnection Filler, Nickel Underlayer, And Silicon Wafer For Through-Silicon Via (Tsv) Application	UTM Grants	Tier 1	RM 50,000	01/02/2018	31/01/2020	19H02
23.	Electrospun Aramide Nanofibers Filled Poly-Vinyl Alcohol For Tissue Engineering Scaffold	UTM Grants	Tier 1	RM 40,000	01/07/2017	30/06/2019	16H30
24.	Performance Evaluation Of High Speed Machining Of Metal Epoxy Composite (Mec) Materials	UTM Grants	UTM Transdisciplinary Research Grant	RM 40,000	01/12/2018	30/05/2021	07G23
25.	Life Cycle Analysis Of Membrane Desalination Plant	UTM Grants	High Impact Research Grant	RM 81,000	01/04/2018	31/03/2022	04G61
26.	Development Of Degradation Mathematical Model For	National Grants	Collaborative Research Grant National	RM 20,000	01/11/2019	30/04/2022	4B447

	Mechanical Response Prediction In Naturally Sourced Biomaterials 3d Bone Scaffolds						
27.	Synthesis Of The Poly L-Lactide Acid (Plla) And Nanocellulose/N-Doped Tio2 As A Novel Polymeric Nanocomposite Biomaterial For Bone Scaffold	National Grants	Collaborative Research Grant National	RM 20,000	01/11/2019	30/04/2022	4B451
28.	Design And Development Of A Universal Modular High Precision Microscope	National Grants	Demand-Driven Innovation	RM 63,000	23/12/2019	22/11/2021	4L441
29.	Life Cycle Assessment (LCA) Of 3D Bone Tissue Engineering Scaffold	National Grants	Collaborative Research Grant National	RM 20,000	01/11/2019	30/04/2022	4B457
30.	Design And Development Of A Universal Modular High Precision Microscope	National Grants	Contract Research DTD	RM 27,000	23/12/2019	22/11/2021	4C369
31.	Feasible Printing Parameters Of Biodegradable Of Poly (Ethylene Glycol)-Diacrylate Filled Aramid Nanofiber Hydrogel For 3d Tissue Engineering Scaffold	UTM Grants	Contract	RM 50,000	01/04/2019	30/06/2021	4C309
32.	Multicopter High Speed Flight Test For Compact Flight Controller	International Grants	Industry-International Incentive Grant	RM 10,000	01/09/2019	28/02/2021	01M77
33	Development Of IoT-Based Digital Defect Counter For Industrial Application	UTM Grants	UTM Encouragement Research	RM 30,000	01/11/2019	30/04/2022	17J63
34	Visual Light System For Deaf Sports Athletes	UTM Grants	Contract	RM 21,200	02/04/2018	30/11/2020	4C185
35	Performance Of Low-Power Laser Machining And Fabrication Of Aerospace Material	UTM Grants	UTM Encouragement Research	RM 30,000	01/11/2019	30/10/2022	17J45
36	Investigation On The Effect Of Nutrient Alloying Elements In Biodegradable Mg-Based Orthopedic Implant	UTM Grants	UTM Encouragement Research	RM 30,000	01/11/2019	30/10/2022	17J44
37	Development Of High Strength Metal Filled Epoxy Inserts For Injection Moulding Process	UTM Grants	UTM Encouragement Research	RM 30,000	01/11/2019	30/10/2022	17J99

COLLABORATION / MOU

NO	NAME OF MOU	LEVEL OF MOU (NATIONAL / INTERNATIONAL)	STARTING DATE	ENDING DATE
1	MOA Universitas Sebelas Maret Indonesia Dan UTM	International	01/07/2021	30/06/2024
2	MOU SIRIM DAN UTM	National	23/08/2021	22/08/2024
3	Drone Edu Challenge IR 4.0 (DEC4IR)	National	05/05/2021	04/05/2023
4	Collaborative Research Grant (Crg) UTM- National	National	28/01/2020	31/10/2021
5	Top Glove Industrial Colaboration Grant Agreement On "Industrial Effluent Treatment Using Hollow Fiber Nanofiltration System	National	20/08/2019	20/07/2021

TEACHING ACTIVITIES

Summary	
Total Credit Hours	203
Total No. Of Student	1,007

UNDERGRADUATES

Semester	Sem	Subject Code	Subject	Credit Hour	No Of Student
2022/2023	1	SEMI4853	Quality Engineering	3	37
		SEMM4912	Undergraduate Project 1	2	3
20212022	2	SEMM4924	Undergraduate Project 2	4	5
20212022	1	SEMM3823	Engineering Management, Safety and Economy	3	28
		SEMM3823	Engineering Management, Safety and Economy	3	32
		SEMM3931	Laboratory 2	1	28
		SEMM3931	Laboratory 2	1	30
		SEMM4912	Undergraduate Project 1	2	1
		SKMM4823	Engineering Management, Safety and Economy	3	2
		SKMM4924	Final Year Project 2	4	1
20202021	3	SEMM3915	Industrial Training	5	9
		SKMM3915	Industrial Training	5	1
20202021	2	SEMM2921	Laboratory 1	1	31
		SEMM2921	Laboratory 1	1	35
		SEMM2921	Laboratory 1	1	28
		SKMM4902	Engineering Professional Practice	2	30

		SKMM4912	Undergraduate Project 1	2	1
20192020	2	SKMI4833	Facilities Design	3	10
		SKMM3931	Laboratory 2	1	26
		SKMM4924	Undergraduate Project 2	4	6
		SEMM 4912	Undergraduate Project 1	2	7
20192020	1	SKMI3833	Operation Research	3	39
		SKMM4823	Engineering Management, Safety and Economy	3	52
		SKMM4912	Undergraduate Project 1	2	7
		SEMM 4924	Undergraduate Project 2	4	3
20182019	2	SKMI4833	Facilities Design	3	19
		SKMM4924	Undergraduate Project 2	4	3
		SKMM3931	Laboratory 2	1	50
20182019	1	SKMM4823	Engineering Management, Safety and Economy	3	44
		SKMM4823	Engineering Management, Safety and Economy	3	14
		SKMM4912	Undergraduate Project 1	2	3
		SKMM4924	Undergraduate Project 2	4	1
		SKMM4912	Undergraduate Project 1	2	1
20172018	2	SKMM4924	Undergraduate Project 2	4	6
		SKMI4833	Facilities Design	3	27
		SKMM3813	Industrial Engineering	3	39
		SKMM4924	Undergraduate Project 2	4	5
		SKMM4823	Engineering Management, Safety and Economy	3	40
20172018	1	SKMM4823	Engineering Management, Safety and Economy	3	15
		SKMM4912	Undergraduate Project 1	2	6
		SKMM3941	Laboratory 3	1	23
20162017	2	SKMM1213	Dynamics	3	39
		SKMM1213	Dynamics	3	35
		SKMM1912	Experimental Method	2	33
		Total Credits			

POSTGRADUATES

Semester	Sem	Subject Code	Subject	Credit Hour	No Of Student
20222023	1	MEMI1843	Operation Planning and Control	3	16
		MEMI2803	Engineering and Environmental Safety	3	23
		MEMM1013	Emerging Technology and Management	3	9
20212022	2	MEMI1863	Industrial Data Analytics	3	8
		MEMI1914	Master Project 1	4	4
		MEMI2803	Engineering and Environmental Safety	3	6
		MKMI2926	Master Project 2	6	1
20212022	1	MEMM1013	Emerging Technology and Management	3	12
		MEMM1013	Emerging Technology and Management	3	17
		MKMI1914	Master Project 1	4	1
		MKMI2926	Master Project 2	6	2
		MKMI2926	Master Project 2	6	5
20202021	3	MKMI1914	Master Project 1	4	2
		MKMI2926	Master Project 2	6	1
20202021	2	MKMI1803	Production and Operation Management	3	7
		MKMI1914	Master Project 1	4	4
		MKMI2926	Master Project 2	6	1
		MKMI2926	Master Project 2	6	11
20192020	2	MKMI2813	Facilities Design and Planning	3	2
20192020	1	MKMI1803	Production and Operation Management	3	12
20182019	2	MKMI1803	Production and Operation Management	3	8
Total Credits				85	152

SUPERVISION

Summary	
Main Supervisor – Phd (Graduated)	3
Co-Supervisor – Phd (Graduated)	3
Main Supervisor – Phd (Ongoing)	4
Co-Supervisor – Phd (Ongoing)	5
Main Supervisor- Master By Research (Graduated)	1
Co-Supervisor – Master By Research (Graduated)	3
Main Supervisor- Master By Research (On-Going)	-
Co-Supervisor – Master By Research (On-Going)	3
Main Supervisor- Master By Taught Course (Graduated)	7
Main Supervisor- Master By Taught Course (On-Going)	-
Main Supervisor- Master By Mixed-Mode (Graduated)	0
Main Supervisor- Master By Mixed-Mode (On-Going)	0

PHD STUDENT

No.	Name	No. Matric	Method Of Study	Status (Graduate d/ On-Going)	Title	Roles Of Supervision
1	Alireza Firouzi	PKM143001	Research	Graduated (B1-2023)	Estimating Change Point In Multivariate Processes Via Simultaneous Correlation Of The Parameters	Main Supervisor
2	Waseem Alwan Zaboon Albuhsensarrra y	PKM193026	Research	Graduated (B1-2023)	Control Chart Pattern Recognition For Small Changes And Incomplete Data	Main Supervisor
3	Nurul Shafyra Binti Mohd Sabri	PM133040	Research	Graduated (B2- 2023)	Investigation On The Effect Of Nutrient Alloying Elements In Biodegradable Mg-Based Orthopedic Implant	Main Supervisor
4	Tan Yong Chee	PSC173019	Research	Graduated (2021)	Fabrication Of Electrospun Polyvinyl Alcoholpolycaprolactone-Natural Antibacterial Agent Blended Nanofibrous Membrane For Skin Tissue Scaffold	Co-Supervisor

5	Nurulhuda Bt Arifin	PKM173010	Research	Graduated (2022)	Biodegradable Poly (Ethylene Glycol) Diacrylate Filled Aramid Nanofiber Hydrogel Three Dimensional Printed Tissue Engineering Scaffold	Co-Supervisor
6	Siti Nur Humaira Binti Mazlan	PKM183009	Research	Graduated (2022)	Design For Additive Manufacturing Using Triz-Am Principles In Supporting Product Design And Development	Co-Supervisor
7	Yan Kelun	PKM223015	Research	On-Going	Sustainability Impact of Laser Cladding Metal 3D Printer Process and Product	Main Supervisor
8	Muhamad Azwar Bin Azhari	PKM193027	Research	On-Going	Finish Hard Turning Using Coated Carbide Tool With Minimum Quantity Lubrication Using Treated Cooking Oil As Primary Precursor &Nbsp	Main Supervisor
9	Norba'ayah Binti Ahmad Reza	PKM193005	Research	On-Going	Synthesizing Of Organic Green Corrosion Inhibitor For Mild Steel In Acidic Environment	Main Supervisor
10	Devi Pratami	PEM223006	Research	On-Going	Developing Maturity Model of Lean Program Management in Higher Education	Main Supervisor
11	Md Raziff Bin Zainal Abidin	PKM203026	Research	On-Going	Development Of Elv Remanufacturing And Aftermarket Industry Framework For Malaysia Automotive Industry	Co-Supervisor
12	Chong Jia Yuik	PKM203028	Research	On-Going	A Strategic Model For Supply And Demand In End-Of-Life&Nbsp;Vehicle Remanufacturing For Economic Sustainability & Environment	Co-Supervisor
13	Nabila Afif Binti Mohmd Arifin	PKM193007	Research	On-Going	Life Cycle Costing Model For Metal Additive Manufacturing Technology	Co-Supervisor
14	Rafiuddin Bin Rohani	PKM223012	Research	On-Going	Life Cycle Analysis of Complex Automotive Part with Additive Manufacturing Process	Co-Supervisor
15	Nur Safirah Binti Bahuriddin	PEM223010	Research	On-Going	Techno-Environmental drivers and Sustainability Analysis on the deployment of Metal Additive Manufacturing for 3D-printed Complex Components	Co-Supervisor

MSC. STUDENT

No.	Name	No. Matric	Status (Graduated / OnGoing)	Title	Mode (Research / Taught-Course/ Mixed Mode)	Roles Of Supervision
1	Nur Syahirah Binti Mustafa	MKM193001	Graduated (B2-2023)	Structural Modulus Optimization Of Triply Periodic Minimal Surfaces Bone Scaffold	Research	Main Supervisor
2	Tang Mei Shick	MKM173002	Graduated (2020)	Porous Bone Scaffold Architecture Produced By Fused Deposition Modeling For Tissue Engineering Applications	Research	Co-Supervisor
3	Lee Ke Yin	MKM193019	Graduated (2022)	Barrier Analysis Approach In Metal Additive Manufacturing Implementation With Environmental Considerations	Research	Co-Supervisor
4	L Thiruvarasu A/L Letchumanan	MKM203004	Graduated (2022)	Structural Model Of Enablers For Green Lean Six Sigma Implementation In Malaysian Manufacturing Industries	Research	Co-Supervisor
5	Miao Linhao	MKM203021	On-Going	Development Of Design For Additive Manufacturing Method Based On Triz-Am Contradiction Matrix	Research	Co-Supervisor
6	Muhammad Muzani Bin Masri	MKM213019	On-Going	Design Rule For Fused Deposition Modelling Based On Conducting Material	Research	Co-Supervisor
7	Muhamad Firdaus Bin Abd Aziz	MKM183014	On-Going	Life Cycle Assessment Onspiral Wound Membrane: A Case Studyat Pantai Senok, Kelantan Master On Going Co-Supervisor	Research	Co-Supervisor
8	Md Raziff Bin Zainal Abidin	MKM181019	Graduated (2020)	Optimization Of Material Composition And Uv-Vis Light Wavelength Towards Curing Time Performance On Development of Tissue Engineering Scaffold	Taught Course	Main Supervisor

9	Jibril Ahmed Abubakar	MKM201012	Graduated (2022)	Quality Improvement on Mechanical Properties of Tissue Engineered Bone Scaffold	Taught Course	Main Supervisor
10	Adam Ameen Ali	MKM201042	Graduated (2022)	Prediction Model For Gold Market Price Under The Effect Of Covid-19 Pandemic	Taught Course	Main Supervisor
11	Muhammad Hazwan Zulfadhli Bin M Zulkifli	MKM151077	Graduated (2022)	Test Improvement Using Shainin Variable Search DOE For New Product Development	Taught Course	Main Supervisor
12	Sasivarnan A/L Karunakaran	MKM181060	Graduated (2022)	Escapee Control For Pcba Via Interlocking Mechanism	Taught Course	Main Supervisor
13	Arun A/L Rajendran	MKM181050	Graduated (2022)	Process Efficiency Studies At X Dry Ice Manufacturing Facility	Taught Course	Co-Supervisor
14	Fadila Utami	MKM201028	Graduated (2023)	AHP Method Approach As Selection Strategy To Decrease The Numbers Of Employees Exposed To Ari At PT. XY	Taught Course	Main Supervisor
15	Davannendran A/L Chandran	MEM211006	Graduated (2023)	Compatibility of Fuel Delivery Metals With Water-In Biodiesel-Diesel Emulsion Fuel	Taught Course	Main Supervisor

UTM POSTGRADUATE EXAMINATION/ VIVA

Summary	
Msc. Internal Examiner	20
Fast Track Student Examiner	1
Others Examiner	0

Msc Internal Examiner

NO	ROLE	STUDENTS NAME	TITLE	YEAR
1.	Assessor	Nur Munirah Saidi	Process Monitoring In Polymer Resin Production	2019
2.	Assessor	Mohd Fazren Asraf Bin Abdull Talib	Optimizing Approach Of Maintenance Planning & Scheduling For Quay Crane Braking System	2019
3.	Assessor	Mohamad Ainol Effendy Bin Mohamad Arshad	Readiness Assessment Towards Industry 4.0 For Malaysian Manufacturing Company	2019
4.	Assessor	Siti Nur Faezah Binti Abdul Razak	Effect of Temperature and Mould Thickness on Magnesium In-Situ Melting Investment Casting	2017
5.	Assessor	Munawar Zaman	Control Charts Patterns Recognition	2017

6.	Assessor	Muhammad Erizuwan Bin Soib	Development of Business Excellent Model in Flexible Pipe Manufacturing	2017
7.	Assessor	Hidayah Binti Nordin	Factors Affecting the Joint Strength of Ultrasonic Welding of Flame Laminated and Polycaprolactam Composite	2017
8.	Assessor	Rozazila Binti Jumari	Developing University Class Scheduled For Undergraduate Program Based On Algorithm	2017
9.	Assessor	Aneel Raj K Nagarajan	Process Monitoring Using SPC in Manufacturing Process	2017
10.	Assessor	Nur Munirah Saidi	Study of Physical and Combustion Characteristics of Rice Bran Oil As Biodiesel in Liquid Burner	2017
11.	Assessor	Ye Minn	Statistical Process Control For Computer Traffic Anomaly Detection	2017
12.	Assessor	Muhammad Hazwan Zulfadhli Bin Mohd Zulkifli	Establishing Reliability Graph From Testing With ReliabilityOf Product	2017
13.	Assessor	Nor Syazwani Haziqah Binti Abdul Rahman	The Framework Development Engineering Change Management (ECM) of Contract Manufacturer (CM) Company With Application Of Fuzzy - AHP	2017
14.	Assessor	Norliza Binti Mohamad	The Impact of Work Rest Scheduling On Prolonged Standing Activity	2016
15.	Assessor	Norsheila Binti Zainal Abidin	Causation Of Serve Occupational Disease in Metal Stamping Industry and Towards Safety Working Environment	2016
16.	Assessor	Tan Shy Ching	A Study On Occupational Accidents In Wood Processing Industry	2016
17.	Assessor	Fatin Athirah Binti Ibrahim	Improved Project Management Practices Through Integration Of System Dynamics Modelling For SME	2016
18.	Assessor	Nur Azura Binti Ramlee	Integration Of Manual Assembly Complexity Assesment In PFMEA Criteria	2016
19.	Assessor	Muhammad Aminuddin Bin Assalah	Investigation Lean Service Improvement Through Business Model Canvas	2016
20.	Assessor	Solehan Imran Bin Shariffudin	Study of Heat Stress and Physical Workload Among Workers In Housing Construction In Malaysia	2016

Fast Track Student Examiner

NO	ROLE	STUDENTS NAME	TITLE	YEAR
1.	Assessor	Muhammad Azfar Bin Noordin	Mechanical Characterization Of Porous Iron Fabricated By Using Subtractive Manufacturing For Bone Scaffold Application	2019/2020

EXTERNAL EXAMINATION/ VIVA

Summary	
Msc. Internal Examiner	20
Msc. External Examiner	1
Others Examiner	1

Msc External Examiner

NO	ROLE	STUDENTS NAME	TITLE	YEAR
1.	Assessor	Gary Ang Kui Wong	Impact of Palm Oil Based Minimum Quantity of Lubrication on Machinability of Ti and Its Alloy (Ti-6Al-4V)	2023

Fast Track Student Examiner

NO	ROLE	STUDENTS NAME	TITLE	YEAR

PUBLICATIONS

Summary	
ISI Article/ Web of Science Article /Journal	39
Scopus Article/Journal	21
Non-Indexed Article/Journal	7
Indexed Conference Proceedings	4
Non- Indexed Conference Proceedings	14
Book Chapters	3
Original Book	0
Classified/Technical /Expert Report	0
Policy Paper	0

NO	ARTICLE TITLE	JOURNAL TITLE	ISSN	VOL.	ISS.	PG	PUB. YEAR	IF	TYPE OF PUB.	CAT. OF PUB.	QUARTILE RANKING	ROLE	NICHE
1.	Critical enablers and inhibitors for economic sustainability in the supply and demand of end-of-life vehicles in Malaysia: a SWOT analysis	Journal of Material Cycles and Waste Management	1438-4957	1	71	1-17	2023	3.1	ISI / Web of Science	Article/ Review	Q3	Co Author	Sustainability

2.	A Comprehensive Review of Biomaterials and Its Characteristic for Bone Tissue Engineering Scaffold	Journal of Medical Device Technology	2948-5436	1	2	56-62	2023	-	Non Index Journal	Article/ Review	-	Corresponding Author	Optimization Materials
3.	Comparative Study on the Microstructure and Biodegradation Behavior of Commercialized Pure Mg and Mg-1.0 Ca-0.5 Sr Alloy in 27 mM HCO ₃ ⁻ -SBF: The Influence of the pH Regulation Treatments.	Metals	2075-4701	13	1	136	2023	2.351	ISI / Web of Science	Article/ Review	Q1	Corresponding Author	Optimization Materials
4.	Comparative Study on the Microstructure and Biodegradation Mechanisms of Commercialized Pure Mg and Mg-1.0Ca-0.5Sr Alloy: The Influence of the pH Regulation Techniques	Biointerface research in applied chemistry	2069-5837	13	6	1-22	2023	0	ISI / Web of Science	Article/ Review	Q4	Co Author	Optimization Materials

5.	Ensemble Classifier for Recognition of Small Variation in X-Bar Control Chart Patterns.	Machines	2075 – 1702	11	1	115	2023	2.899	ISI / Web of Science	Article/ Review	Q2	Corresponding Author	Optimization Method
6.	Supply chain optimisation for recycling and remanufacturing sustainable management in end-of-life vehicles: A mini-review and classification	Waste Management and Research	07342 42X	41	3	554-565	2023	4.272	ISI / Web of Science	Article/ Review	Q2	Co-Author	Optimization process
7.	End-of-life vehicles research development in Malaysia: a comprehensive review with the integrated conceptual model of innovative sustainable manufacturing elements	Journal of Material Cycles and Waste Management	14384 957	25	2	698-716	2023	3.458	ISI / Web of Science	Article/ Review	Q3	Co-Author	Sustainability

8.	End-of-life vehicles research development in Malaysia: a comprehensive review with the integrated conceptual model of innovative sustainable manufacturing elements.	Journal of material cycles and waste management	1611 – 8227	0	0	1 - 19	2022	3.579	ISI / Web of Science	Article/ Review	Q2	Co-Author	Sustainability
9.	Development of 3D Thermoplastic Polyurethane (TPU)/Maghemite (Y-Fe ₂ O ₃) Using Ultra-Hard and Tough (UHT) Bio-Resin for Soft Tissue Engineering	Polymers	2073 - 4360	14	13	2561	2022	4.967	ISI / Web of Science	Article/ Review	Q1	Corresponding Author	Optimization Materials
10.	A Comprehensive Review of Biopolymer Fabrication in Additive Manufacturing Processing for 3D-Tissue Engineering Scaffolds	Polymers	2073-4360	14	10	2119	2022	4.329	ISI / Web of Science	Article/ Review	Q1	Corresponding Author	Additive Manufacturing

11.	An eco-environmental efficiency analysis of Malaysia sewage treatment plants: an incorporated window-based data envelopment analysis and ordinary least square regression	Environmental Science and Pollution Research		29	0	1-18	2022	4.223	ISI / Web of Science	Article/ Review	Q2	UTM First Author	Optimization Process
12.	Analyzing the Factors Enabling Green Lean Six Sigma Implementation in the Industry 4.0 Era	Sustainability		14	6	3450	2022	3.251	ISI / Web of Science	Article/ Review	Q2	Co-Author	Sustainability
13.	Environmental Impact for 3D Bone Tissue Engineering Scaffolds Life Cycle: An Assessment	Biointerface Research in Applied Chemistry	2069-5837	12	5	6504-6515	2022	0	ISI / Web of Science	Article/ Review	Q4	Co-Author	Sustainability

14.	Outlook on the Carbon-Based Materials for Heavy Metal Removal	Biointerface Research in Applied Chemistry	2069-5837	12	4	5303-5323	2022	1.95	ISI / Web of Science	Article/ Review	Q4	Co-Author	Sustainability
15.	Gain Scaling Tuning of Fuzzy Logic Sugeno Controller Type for Ride Comfort Suspension System Using Firefly Algorithm	Lecture Notes In Electrical Engineering	978-981192094-3	900	0	335 - 344	2022		Scopus	Index Conference/ Proceeding Paper	-	Co-Author	Optimization Process
16.	Sustainability Implications of Additive Manufacturing	Lecture Notes In Mechanical Engineering	2195-4356	0	0	441-452	2022	-	Scopus	Index Conference/ Proceeding Paper	-	Co-Author	Sustainability

17.	A Review on Plants and Biomass Wastes as Organic Green Corrosion Inhibitors for Mild Steel in Acidic Environment	Metals	2075-4701	11	7	1062	2021	2.351	ISI / Web of Science	Article/ Review	Q2	Corresponding Author	Sustainability
18.	Application of Computational Method in Designing a Unit Cell of Bone Tissue Engineering Scaffold: A Review	Polymers.	2073-4360	13	10	1-24	2021	3.426	ISI / Web of Science	Article/ Review	Q1	Corresponding Author	Optimization Method
19.	Optimization of Materials Composition and UV-VIS Light Wavelength Towards Curing Time Performance on Development of Tissue Engineering Scaffold	Biointerface research in applied chemistry	2069-5837	11	2	8740-8750	2021	0	ISI / Web of Science	Article/ Review	Q4	Corresponding Author	Optimization Process
20.	Sustainability-oriented Application of Value Stream Mapping: A review and classification'	IEEE Access		9		68414-68434	2021	3.745	ISI / Web of Science	Article/ Review	Q1	Co-Author	Sustainability

21.	Finite element analysis of porosity effects on mechanical properties for tissue engineering scaffold	Biointerface Res Appl Chem	2069-5837	11	2	8836 - 8843	2021	0	ISI / Web of Science	Article/ Review	-	Corresponding Author	Optimization Method
22.	Seawater as New Renewable Energy Resource: Material Characterization of the Cell Electrodes	Lecture Notes In Mechanical Engineering : Recent Trends In Manufacturing And Materials Towards Industry 4.0	2195-4356	46	0	739 - 746	2021	0	Scopus	Index Conference/ Proceeding Paper	-	Co-Author	Sustainability
23.	An empirical regression model toward optimized ergonomic conditions for monitoring room operators using RSM	Facilities	0263-2772	39	7	1-21	2021	0	ISI / Web of Science	Article/ Review	-	UTM First Author	Optimization Process

24.	Equipment Replacement Analysis from Manual Line to Automatic Line in Palletizing Activities: A Case Study	IOP Conference Series: Materials Science and Engineering		1096	1	012011	2021	0	ISI / Web of Science	Article/ Review	-	Co-Author	Optimization Method
25.	A Review on Input Features for Control Chart Patterns Recognition	Proceedings of the International Conference on Industrial Engineering and Operations Management	978-1-7923-6124-1	0	0	2625-2635	2021	0	Scopus	Index Conference/ Proceeding Paper	0	Co-Author	Optimization Method
26.	Review on Nanocrystalline Cellulose in Bone Tissue Engineering Applications	Polymers	2073-4360	12	0	2-22	2020	3.426	ISI / Web of Science	Article/ Review	Q1	Corresponding Author	Optimization Materials

27.	Optimization of simultaneous saccharification and fermentation process conditions for the production of succinic acid from oil palm empty fruit bunches	Journal of Wood Chemistry and Technology	1532-2319	40	2	136-145	2020	1.88	ISI / Web of Science	Article/ Review	Q1	Co-Author	Optimization Process
28.	Proposed Methodology For Sustainability Assessment Using Mcdca-Ahp: Future Study And Recommendation In 3d Printing Technology	The 11th International Conference In Mechanical And Manufacturing Engineering , Icme'21	978-988-14049-2-3	0	0	1-13	2021	0	Non-Index Conference Proceeding		-	Co-Author	Sustainability
29.	Evaluation of geometrical benchmark artifacts containing multiple overhang lengths fabricated using material extrusion technique	Journal of Mechanical Engineering and Sciences	2289-4659	14	3	7296-7308	2020	0	ISI / Web of Science	Article/ Review	-	Co-Author	Optimization Process

30.	A major review on tribology-based materials	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	2289-7879	71	2	26-37	2020	0	Scopus	Article/ Review	-	UTM First Author	Sustainability
31.	Simulation analysis of different bone scaffold porous structures for fused deposition modelling fabrication process	IOP Conference Series: Materials Science and Engineering	1757-8981	788	1	0120 23	2020	-	Scopus	Article/ Review	-	Co-Author	Optimization Process
32.	Application of BoxBehnken Analysis on the Optimization of Air Intake System for a Naturally Aspirated Engine	International Journal of Automotive and Mechanical Engineering	2180-1606	17	2	8029-8042	2020	0	ISI / Web of Science	Article/ Review	-	Corresponding Author	Optimization Process
33.	Materials for tribology's application: A mini analysis	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	2289-7879	68	2	177-185	2020	0	Scopus	Article/ Review	-	UTM First Author	Sustainability

34.	Additive Manufacturing For Tissue Engineering Application	Additive Manufacturing In Product Design And Development	978-983-52-1714-1	0	0	59-67	2020	0	ISI / Web of Science	Article/Book Chapter	-	Co-Author	Additive Manufacturing
35.	Additive Manufacturing Evaluation in Porous Bone Scaffold Architecture	Additive Manufacturing In Product Design And Development	978-983-52-1714-1	0	0	69-86	2020	0	ISI / Web of Science	Article/Book Chapter		Co-Author	Optimization Method
36.	Sensitivity Maps Preparation for Electrical Capacitance Tomography Using Finite Element Approach	Lecture Notes in Electrical Engineering	1876-1119	632	0	67-75	2020	0	Scopus	Index Conference/ Proceeding Paper	-	Co-Author	Optimization Method

37.	Optimization Design Parameters of Intake Manifold for Natural Aspirated Engine.	Jurnal Mekanikal	2289-3873	43	0	65-76	2020	-	Non Index Journal	UTM	-	Coresponding Author	Optimization Process
38.	An Essential Studies On Tribology's: A Short Review	Journal Of Advanced Research In Fluid Mechanics And Thermal Sciences	2289-7879	72	1	1-18	2020	-	Scopus	Article/ Review	-	UTM First Author	Sustainability
39.	Comparison Of Different Additive Manufacturing Patterns On The Performance Of Rapid Vacuum Casting For Mating Parts Via The Taguchi Method	Journal Of Mechanical Engineering And Sciences	2289-4659	14	1	6417-6429	2020	-	Scopus	Article/ Review	-	Co-Author	Optimization Process

40.	Fabrication A Novel 3d Tissue Engineering Scaffold Of Poly (Ethylene Glycol) Diacrylate Filled With Aramid Nanofibers Via Digital Light Processing (Dlp) Technique	Journal Of Mechanical Engineering	1823-5514	9	1	1-12	2020	-	Scopus	Article/ Review		Coresponding Author	Optimization Process
41.	Optimization Of Lipase Immobilization On Maghemite And Its Physico-Chemical Properties	Brazilian Journal of Chemical Engineering	0104-6632	36	1	171-179	2019	0.79	ISI / Web of Science	Article/ Review	Q4	Co-Author	Optimization Process

42.	A review of biomaterials scaffold fabrication in additive manufacturing for tissue engineering	Journal of Bioactive and Compatible Polymers	0883-9115	34	6	415-435	2019	1.976	ISI / Web of Science	Article/ Review	Q2	Co-Author	Additive Manufacturing
43.	Optimization Of Truss Collinear Lattice Fabricated Using Fused Deposition Modeling Technique	International Journal Of Innovative Technology And Exploring Engineering (IJITEE)	2278-3075	9	2	3133-3139	2019	-	Scopus	Article/ Review	-	Co-Author	Optimization Method
44.	Fabrication 3d tissue engineering scaffold poly(Ethylene) diacrylate filled with aramid nanofiber:	Mechanical evaluation and toxicity International Journal of Innovative Technology and Exploring Engineering	2278-3075	8	12	1997-2006	2019	-	Scopus	Article/ Review	-	Corresponding Author	Optimization Process
45.	Fabrication PEGDA/ANFs biomaterial as 3D tissue	International Journal of Engineering and Advanced	2249-8958	8	16	751-758	2019	-	Scopus	Article/ Review	-	Corresponding Author	Optimization Process

	engineering scaffold by DLP 3D printing technology	Technology											
46.	Poly-lactic acid (PLA)/maghemite (γ -Fe ₂ O ₃) nanoparticles mixed with ultra hard and flexible (UHF) bio-resin for 3D tissue engineering scaffold	AIP Conference Proceedings	0094-243X	2129	1	020035	2019	-	Scopus	Article/ Review	-	Corresponding Author	Optimization Materials
47.	Digital Light Processing (DLP) 3D Printing of Polyethylene glycol (PEG) Biopolymer, Commercially Available Ultra-High and Tough (UHT) Resin and Maghemite (γ -Fe ₂ O ₃) Nanoparticles Mixture for Tissue Engineering Scaffold Application	Advanced Materials Letters	0976-397X	10	11	802-806	2019	-	Non Index Journal	Non UTM	-	Corresponding Author	Optimization Materials
48.	A.Safety and risk evaluation using HIRARC model at palm oil mill	International Journal of Innovative Technology and Exploring Engineering	2278-3075	8	11	790-797	2019	-	Scopus	Article/ Review	-	Corresponding Author	Ergonomics
49.	Risk factors of low back pain	International Journal of Innovative	22783075	8	7	1434-1439	2019	-	Scopus	Article/ Review	-	Co-Author	Ergonomics

	amongst port crane operator in Malaysia	Technology and Exploring Engineering											
50.	A simulation based model for determining safety inventory at a fixed-time period system	International Journal of Innovative Technology and Exploring Engineering	2278-3075	8	12	2775-2780	2019	-	Scopus	Article/ Review	-	Co-Author	Optimization Method
51.	Oxygen separation process using ceramic-based membrane: a review	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	2289-7879	62	1	1-9	2019	-	Scopus	Article/ Review	-	Co-Author	Sustainability
52.	A Short Review on Membranes for Helium Separation and Purifications.	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	2289-7879	62	1	80-87	2019	-	Scopus	Article/ Review	-	Corresponding Author	Sustainability
53.	Novel Processing Technique to Produce Three Dimensional Polyvinyl Alcohol/Maghemite Nanofiber Scaffold Suitable for Hard Tissues	Polymers	2073-4360	10	4	353-371	2018	3.364	ISI / Web of Science	Article/ Review	Q1	Corresponding Author	Optimization Method

54.	Optimization of One-Pot Microwave Assisted Ferrofluid Nanoparticles Synthesis Using Response Surface Methodology.	IEEE Transactions On Magnetics	0018-9464	54	6	1-6	2018	1.243	ISI / Web of Science	Article/ Review	Q3	Co-Author	Optimization Process
55.	Sensitivity Mapping for Electrical Tomography Using Finite Element Method	International Journal of Integrated Engineering	2229-838X	10	4	64-67	2018	0	ISI / Web of Science	Article/ Review	-	Co-Author	Optimization Process
56.	Work study in a wood furniture manufacturing company	Jurnal Mekanikal	2289-3873	41	0	1-7	2018	-	Non Index Journal	UTM	-	Co-Author	Ergonomics
57.	Development and analysis of graphene-polymer composite flexible electrode	Jurnal Mekanikal	2289-3873	41	0	24-29	2018	-	Non Index Journal	UTM	-	Co-Author	Optimization Materials
58.	Ergonomic improvements in an aircraft component manufacturing company	Jurnal Mekanikal	2289-3873	41	2	1-8	2018	-	Non Index Journal	UTM	-	Co-Author	Ergonomics
59.	3D Biofabrication of Thermoplastic Polyurethane (TPU)/Poly-L-lactic Acid (PLLA) Electrospun Nanofibers Containing Maghemite (γ -Fe ₂ O ₃)	Polymers	2073-4360	9	11	584	2017	3.364	ISI / Web of Science	Article/ Review	Q1	Co-Author	Optimization Process

	for Tissue Engineering Aortic Heart Valve												
60.	Development Of Highly Porous Biodegradable Gamma Fe ₂ O ₃ / Polyvinyl Alcohol Nanofiber Mats Using Electrospinning Process For Biomedical Application	Materials Science & Engineering C-Materials For Biological Applications	0928-4931	70	0	520-534	2017	4.164	ISI / Web of Science	Article/ Review	Q2	UTM First Author	Optimization Process
61.	A review of evolution of electrospun tissue engineering scaffold: From two dimensions to three dimensions	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine	0954-4119	237	7	597-616	2017	1.005	ISI / Web of Science	Article/ Review	Q4	UTM First Author	Optimization Method
62.	Fabricating high mechanical strength γ -Fe ₂ O ₃ nanoparticles filled polyvinyl alcohol nanofiber using electrospinning process potentially for tissue engineering scaffold	Journal of Bioactive and Compatible Polymers	0883-9115	32	4	411-428	2017	1.31	ISI / Web of Science	Article/ Review	Q3	UTM First Author	Optimization Process
63.	Developments In Tissue Engineering Scaffolding Using An Electrospinning Process	Electrospinning And Electroplating : Fundament	978-1-53612-389-0	0	0	87-126	2017	-	Book Chapter		-	UTM First Author	Optimization Process

		als, Methods And Application s											
64.	An Introduction To Electrospun Nanofibers For Tissue Engineering Heart Valves	Electrospin ning And Electroplati ng : Fundament als, Methods And Application s	978-1- 53612- 389-0	0	0	127- 152	2017	-	Book Chapter		-	Co-Author	Optimization Process
65.	Mechanical properties and biocompatibility of coaxially electrospun polyvinyl alcohol/maghemite	Proceedi ngs of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine	0954- 4119- 1664- 9632	230	8	739- 749	2017	1.329	Scopus	Article/ Review	Q3	UTM First Author	Optimization Process
66.	γ -Fe ₂ O ₃ nanoparticles filled polyvinyl alcohol as potential biomaterial for tissue engineering scaffold	J. Mech. Behav. Biomed. Mater	1751- 6161	49	0	90- 104	2015	3.417	ISI / Web of Science	Article/ Review	Q1	UTM First Author	Optimization Materials
67	Influence of polyvinyl alcohol molecular weight on the electrospun nanofiber mechanical properties	Procedia Manufacturi ng	2351- 9789	2	0	568- 572	2015	-	ISI / Web of Science	Article	-	UTM First Author	Optimization Materials

68	Surface modification and performance enhancement of nano-hybrid f-MWCNT/PVP90/PES hemodialysis membranes)	Journal of Membrane Science	1873-3123	467	0	73-84	2014	5.05	ISI / Web of Science	Article/ Review	Q1	Co-Author	Optimization Materials
69	Effect of Electrospinning Parameters Setting towards Fiber Diameter	Adv. Mater. Res		845	0	985-988	2013	-	ISI / Web of Science	Article/ Review		UTM First Author	Optimization Process

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	Non- Indexed Proceeding Conference	Tribological Properties Improvement of Zinc Induced Palm Oil Bio-Lubricant with Addition of Molybdenum Dialkyldithiophosphate	2022	Muhamad Azwar Azhari, Nor Hasrul Akhmal Ngadiman , Noordin Mohd Yusof, Ani Idris
2	Non- Indexed Proceeding Conference	Corrosion inhibition of musa acuminata and its synergism effect of halide ions on mild steel in an acidic environment	2022	N.A. Reza, N.H.A. Ngadiman, N.A. Fadil, M.F.M. Taib
3	Non- Indexed Proceeding Conference	Structural Modulus of the Unit Cell of the Bone Tissue Engineering Scaffold Based on Triply Periodic Minimal Surfaces (TPMS)	2022	N. S. Mustafa, N. H. Akhmal, S. Izman, M. Y. Noordin, A. Idris
4	Non- Indexed Proceeding Conference	Industrial Engineering to Multidisciplinary Research	2022	Nor Hasrul Akhmal Ngadiman
5	Non- Indexed Proceeding Conference	Tribological Property Comparison between Palm Oil Added with ZDDP-MoDTP and Palm Oil Added with ZDDC-MoDTP	2021	Muhamad Azwar Azhari , Noordin Mohd Yusof, Ani Idris, Nor Hasrul Akhmal Ngadiman
6	Non- Indexed Proceeding Conference	Android Based Application for Hazard Identification, Risk Assessment and Risk Control (HIRARC) System	2021	NH. Akhmal, Choo Hui Jie, Teo Ee Hao , Safian S. & Z. Shayfull
7	Non- Indexed Proceeding Conference	Optimization On Engine Parameters Towards Higher Performances Of Turbocharged Engine	2020	Norba'ayah Binti Ahmad Reza, Nur Arisa binti Mohd Azhari, Nor Hasrul Akhmal Ngadiman, Noordin Mohd Yusof, Mohd Azman Abas
8	Indexed Proceeding Conference	"Poly-Lactic Acid (PLA)/Maghemite (γ -Fe ₂ O ₃) Nanoparticles Mixed with Ultra Hard and Flexible (UHF) Bio-Resin for 3D Tissue Engineering Scaffold" The 5th International Conference on Green	2019	Nor Hasrul Akhmal Ngadiman, Zulhafizan Zulkifli Noordin Mohd Yusof, Ani Idris, Aini Zuhra Abdul Kadir, Jaysuman Pusppanathan

		Design and Manufacture 2019		
9	Indexed Proceeding Conference	Digital Light Processing (DLP) 3D Printing of Polyethylene glycol (PEG) Biopolymer, Commercially Available Ultra-High and Tough (UHT) Resin and Maghemite (γ -Fe ₂ O ₃) Nanoparticles Mixture for Tissue Engineering Scaffold Application” Silver Jubilee Assembly of Advanced Materials Congress (2019)	2019	Nor Hasrul Akhmal Ngadiman, Muhammad Aniq Barid Basri, Noordin Mohd Yusof, Ani Idris, Ehsan Fallahiarezouda
10	Non- Indexed Proceeding Conference	Modified 3D printing and electrospinning to fabricate 3d construct of polyvinyl alcohol/ maghemite hard tissue engineering scaffold” 3rd International Materials, Industrial, and Manufacturing Engineering Conference (MIMEC2017), 2017	2017	N.H.A. Ngadiman, M.Y. Noordin, A. Idris, and D. Kurniawan
11	Non- Indexed Proceeding Conference	Fabrication of 3D scaffolds of PVA/Fe ₂ O ₃ composite using combination of electrospinning and thermally induced - International Symposium on Green Manufacturing and Applications (ISGMA 2016), 2016.	2016	Nor Hasrul Akhmal Ngadiman, Noordin Mohd Yusof, Ani Idris and Denni Kurniawan
12	Non- Indexed Proceeding Conference	Preparation and Characterization of electrospun PVDF/PVA- γ Fe ₂ O ₃ composite membranes” International Symposium on Green Manufacturing and Applications (ISGMA 2016), 2016	2016	Effaliza Misran, Ani Idris, Nor Hasrul Akhmal Ngadiman and Noordin Mohd Yusof
13	Non- Indexed Proceeding Conference	Behavior of γ -Fe ₂ O ₃ /PVA nanofibers by using different method of electrospinning process”. 4th International Conference on Advanced Manufacturing Technology, 2016.	2016	N.H.A. Ngadiman, M.Y. Noordin, A. Idris, and D. Kurniawan
14	Thesis	Maghemite Filled Poly-Vinyl Alcohol Nanofibers For Tissue Engineering Scaffold	2016	Nor Hasrul Akhmal Ngadiman
15	Indexed Proceeding Conference	Influence of PVA molecular weight on the electrospun nanofiber mechanical properties. Procedia Manufacturing 2015	2015	Nor Hasrul Akhmal Ngadiman, Noordin Mohd Yusof, Ani Idris

16	Non- Indexed Proceeding Conference	Mechanical and biocompatibility performance of γ -Fe ₂ O ₃ mixed with pva electrospun nanofiber as tissue engineering scaffolds". International Symposium on Nano Science and Technology, 2015.	2015	M.Y. Noordin, N.H.A. Ngadiman, A. Idris, and D. Kurniawan
17	Indexed Proceeding Conference	Characterisation of electrospun magnetic nanoparticle-Fe ₂ O ₃ / PVA nanofibers. In: Proceedings of NAMRI/SME, 2014, p. 42	2014	N.H.A.Ngadiman, A.Idris, N.MohdYusof, D.Kurniawan
18	Non- Indexed Proceeding Conference	Parametric Study on Electrophoretic Deposition of Aramid Nanofibers by Investigating Morphology of Carbon Fiber Surface 2014년 한국복합재료학회 추계학술대회	2014	N.H.A. Ngadiman, Byeongho Park, Byeong-Su Kim, Byung-Sun Kim and Wonoh Lee
19	Book Chapter	Developments in Tissue Engineering Scaffolding Using an Electrospinning Process. Tony Jacobs. Electrospinning and Electroplating : Fundamentals, Methods and Applications. (87-126)	2017	Nor Hasrul Akhmal Ngadiman, M.Y. Noordin, A. Idris, D. Kurniawan, Ehsan Fallahiarezoudar and Izman Sudin
20	Book Chapter	An Introduction to Electrospun Nanofibers for Tissue Engineering Heart Valves. Tony Jacobs. Electrospinning and Electroplating : Fundamentals, Methods and Applications. (127-152)	2017	Ehsan Fallahiarezoudar, M.Y. Noordin, A. Idris and Nor Hasrul Akhmal Ngadiman
21	Book Chapter	Additive Manufacturing Evaluation In Porous Bone Scaffold Architecture	2020	Tang Mei Shick, Aini Zuhra Abdul Kadir, Nor Hasrul Akhmal Ngadiman, and John Wong Huang Ung

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

NO	ROLE	TITLE OF PROGRAMME	DATE	LOCATION
1.	Invited Speaker	International Conference on Green Engineering and Technology (IConGETECH 2022)	17/11/2022 – 18/11/2022	Seoul, South Korea
2.	Oral Presenter	International Research Conference and Innovation Exhibition 2022 (IRCIE)	23/11/2022	Johor Bahru, Malaysia
3.	Invited Speaker	1 st Industrial Engineering Symposium UTM-TelU 2022	22/08/2022 – 23/08/2022	Bandung, Indonesia
4.	Oral Presenter	International Conference on Industrial Enterprise and System Engineering (ICOIESE), 2021	15/12/2021 – 16/12/2021	Bandung, Indonesia
5.	Oral Presenter	International Professional Doctorate & Postgraduate Symposium 2021	25/09/2021	Johor Bahru, Malaysia
6.	Oral Presenter	11th International Conference In Mechanical And Manufacturing Engineering (ICME'21)	25/08/2021 – 26/08/2021	Batu Pahat, Malaysia
7.	Invited Speaker	De La Salle University (DLSU) 2021 Research Congress - Natural Products: From Research To Industry	06/07/2021 – 08/07/2021	Manila, Philippines
8.	Invited Speaker	International Conference On Green Engineering & Technology (IConGETECH) 2021	04/02/2021	Perlis, Malaysia
9.	Oral Presenter	International Conference on Industrial Enterprise and System Engineering (ICOIESE), 2020	04/03/2020 – 05/03/2020	Bali, Indonesia
10.	Oral Presenter	International Research Conference and Innovation Exhibition 2019 (IRCIE)	25/11/2019 – 27/11/2019	Johor Bahru, Malaysia
11.	Oral Presenter	International Conference and Expo on Inventions by Institutions of Higher Learning (PENCIPTA'19)	22/09/2019 – 23/09/2019	Batu Pahat, Malaysia
12.	Oral Presenter	5th International Conference On Mechanical Engineering Research	20/07/2019 – 21/07/2019	Kuantan, Malaysia
13.	Oral Presenter	The 5th International Conference on Green Design and Manufacture 2019	29/04/2019 – 30/04/2019	Bandung, Indonesia
14.	Oral Presenter	Silver Jubilee Assembly of Advanced Materials Congress (2019)	24/03/2019 – 27/03/2019	Stockholm, Sweden
15.	Oral Presenter	Multidisciplinary Conference on Mechanical Engineering (McME 2018)	03/09/2018 – 04/09/2018	Johor Bahru, Malaysia
16.	Oral Presenter	3 rd International Materials, Industrial and Manufacturing Engineering Conference 2017	01/01/2017 – 08/12/2017	Miri, Malaysia
17.	Oral and Poster Presenter	International Symposium on Green Manufacturing and Applications 2016	21/06/2016 – 25/06/2016	Bali, Indonesia
18.	Oral Presenter	4 th International Conference on Advanced Manufacturing Technology 2015	20/09/2015 – 22/09/2015	Johor Bahru, Malaysia

19.	Oral Presenter	2 nd International Materials, Industrial and Manufacturing Engineering Conference 2015	04/02/2015 – 06/02/2015	Bali, Indonesia
20.	Oral Presenter	2014 Korean Society for Composite Materials Conference	10/06/2014 – 13/06/2014	Seoul, South Korea
21.	Oral Presenter	1 st International Materials, Industrial and Manufacturing Engineering Conference 2013	04/12/2013 – 06/12/2016	Johor Bahru, Malaysia
22.	Oral Presenter	Workshop and Seminar on Electrospinning: Nanofiber Technology, Theory and Application 2013	19/11/2013	UTM Johor Bahru, Malaysia
23.	Oral Presenter	National Student Development Conference 2013	18/11/2013 – 20/11/2013	Johor Bahru, Malaysia
24.	Oral Presenter	MedTech Manufacturing Process Seminar and Roundtable Discussion, Singapore Institute of Manufacturing Technology 2013	15/07/2013	Singapore
25.	Oral Presenter	Analytical Method Seminar 2013	27/03/2013	UTM Johor Bahru, Malaysia
26.	Oral Presenter	Fiqh, Science and Technology Seminar 2012	03/12/2012 – 04/12/2012	UTM Johor Bahru, Malaysia

PROFESSIONAL SERVICES

CONSULTATION AND TRAINING

NO	ROLE	TITLE OF PROGRAMME	DATE	ORGANIZATION	TOTAL INCOME GENERATED (RM)
1.	Project Coordinator	Life Cycle Analysis - OGLAEND Industry Sdn Bhd	25/10/2022	OGLAEND Industry Sdn Bhd	RM 88,125
2.	Committee Member	Drone Edu Challenge Ir 4.0 (Dec4ir)	05/05/2021	Iskandar Regional Development Authority (IRDA)	RM 22,400
3.	Project Leader	Program Pembangunan Kemahiran Dan Bakat (TWG-S) Dibawah INDUSTRY4WRD Bagi Guru Sekolah Menengah Teknik	20/10/2019 – 24/10/2019	Department of Secondary Education MARA	RM 3,200
4.	Project Coordinator	INDUSTRY4WRD - Train The Trainers Bagi Program Industri@University Fasa 2	15/10/2019 – 16/10/2019	Ministry of Education	RM 19,000
5.	Project Leader	Kursus Peningkatan Kemahiran Guru Untuk Program Train For Trainers Dibawah Insentif Kewangan Technical Working Group-Skills(TWG-S) Dasar INDUSTRY4WRD	20/10/2019 – 24/10/2019	Ministry of Education	RM 68,300

6.	Committee Member	Sustainable & Integrated Engineering International Conference (SIE2019) (FKM)	11-31/12/2018	Universiti Teknologi Malaysia	RM 154,000
7.	Committee Member	Sustainable & Integrated Engineering International Conference (SIE2019) (UTSB)	11-31/12/2018	Universiti Teknologi Malaysia	RM 99,740
8.	Committee Member	Ergonomic Training In Workplace	09/10/2018 / 10/10/2018	White Horse Ceramic Industries Sdn Bhd	RM 3,000
9.	Coordinator	Polymer Testing Petrochemicals (M) Sdn Bhd	16/11/2018 – 31/12/2018	Petrochemicals (M) Sdn Bhd	RM 9,600
10.	Head of Sponsorship	Sponsorship for Materials Lecture Competition 2018	01/03-01/04/2018	Institute of Materials, Malaysia	RM 5,000
11.	Head of Sponsorship	Sponsorship for National Materials Lecture Competition 2018	05/04 - 03/05/2018	Institute of Materials, Malaysia	RM 21,400
12.	Committee Member	4th Workshop on Sample Preparation and Microstructural Analysis 2017	27-28/09/2017	Universiti Teknologi Malaysia	RM 9,852
13.	Committee Member	2nd Multidisciplinary Conference on Mechanical Engineering (McME 2017)	13/07-17/10/2017	Universiti Teknologi Malaysia	RM 2,000
14.	Committee Member	UTM-IMM 1-day Symposium On Materials Processing, Inspection And Testing 2017	04/09 – 28/12/2017	Universiti Teknologi Malaysia	RM 19,292
15.	Head of Sponsorship	Sponsorship for Materials Lecture Competition 2017	01/03-10/04/2017	Universiti Teknologi Malaysia	RM 1,000
16.	Committee Member	Endowment From Alumni Dinner	01/01 – 31/07/2017	Universiti Teknologi Malaysia	RM 20,000
17.	Committee Member	FKM Alumni Dinner	01/01 – 31/07/2017	Universiti Teknologi Malaysia	RM 80,243

ENTREPRENUERSHIP

NO	SPIN OFF COMPANY (UTM)	TOTAL INCOME GENERATED (RM) (Individual Equity Value Based On Audited Company Account In 3 Years)

NO	1.HICOE Management/Agency 2. Board Of Director Or 3. Management For Corporattion Entite	Average Acquisition In 3 Years.

COMMUNITY PROJECT

NO	ROLE	NAME OF PROJECT	DATE	TOTAL VALUE OF PROJECT (RM)
1	Head of Science and Technology	Carnival Jubli Delima SM Agama Kota Tinggi	01-02/12/2022	RM 20,000.00
2	Member	Design Space STIE Keluarga Malaysia Kota Tinggi	27/11/2021- Current	RM 150,000.00

COMMUNITY AND UNIVERSITY SERVICES

NO	ROLE	TITLE OF PROGRAMME	DATE	LEVEL	LOCATION
1.	Member	Program STEM & jati Diri dalam pendidikan (SK FELDA Air Tawar 1)	01/07/2022 – 29/08/2022	Community	STIE Kota Tinggi dan SK Felda Air Tawar 1
2.	Member	Kerjasama pertanian dalam mengawal perosak disawah padi.	01/03/2022 – 30/12/2022	Community	Bahagian Bio- Securiti, Jabatan Pertanian Johor
3.	Member	STIE Kota Tinggi: Peningkatan Pendidikan STEM dan Inovasi	01/10/2022 – 31/10/2022	Community	STIE Kota Tinggi
4.	Member	STIE Kota Tinggi : Pembangunan Produk Desa	01/01/2022 – 30/12/2022	Community	STIE Kota Tinggi

ENDOWMENT AND WAKAF TO UNIVERSITY

NO	NAME OF ENDOWMENT AND WAKAF	TOTAL CONTRIBUTION (RM)
1.	Materials Lecture Competition 2018	RM 5,000
2.	Endowment From Alumni Dinner	RM 20,000

COMMERCIALISATION

NO	ROLE	NAME OF PRODUCT COMMERCIALISATION	DATE	TOTAL INCOME GENERATED (RM)

GRANT BASED ON INNOVATION AND UNIVERSITY COMMERCIALISATION PRODUCT

BIL	NAME OF GRANT	ROLE	CATEGORY OF GRANT(UTM/ OTHERS)	TYPE OF GRANT	AMOUNT (RM)	STARTING DATE	ENDING DATE	VOTE NO
1	Development Of Solid Insecticides For Fruit Flies (Bactrogel)	Project Leader	UTM - ICC	Prototype Development Fund	RM 20,000	01/04/2020	30/09/2021	4J444

PATENT GRANTED AND FILING

NO	STATUS OF PATENT	TITLE OF INNOVATION	YEAR
1	Approved	Golden Black Lubricant - Formulation of Bio-Lubricant Using Used Cooking Oil as Primary Precursor	2023
2	Approved	MA26 Corrosion Inhibitor- Musa Acuminata(banana) as organic green corrosion inhibitor (OGCI) for mild steel in an HCl environment	2022
3	Approved	Electrospun Polycaprolactone/Polyvinylalcohol - Loaded Curcumin Nanofibrous Membrane As Skin Scaffold With Antibacterial Activity	2021

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NO	STATUS OF COPYRIGHT	TITLE OF INNOVATION	YEAR
1	Approved	Automated Mudball Press Machine	2022
2.	Approved	Bactrogel - Solid Insecticides For Fruit Flies	2021
3.	Approved	Holder Design For Solid Gel Insecticides	2021

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