



The National University of Malaysia

Universiti Kebangsaan Malaysia

Guardian of The Nation (*Pendaulat Amanah Negara*)

CENTRE OF TEACHING AND LEARNING INNOVATION

(*Pusat Inovasi Pembelajaran dan Pengajaran*)

FACULTY OF EDUCATION, UKM (*Fakulti Pendidikan, UKM*)

NAME (<i>Nama</i>)	Lilia Halim												
CURRENT POSITION (<i>Jawatan Sekarang</i>)	Prof												
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ACADEMIC QUALIFICATION (<i>Kelayakan Akademik</i>)	B.Sc.Hons. (Physics), Carleton University, Canada Diploma in Education, UKM M.Ed. (Science Education), Leeds University, UK Phd. (Science Education), King's College, London, UK												
AREA OF SPECIALIZATIONS (<i>Bidang Kepakaran</i>)	Science Education, Physics Education												
RESEARCH INTEREST (<i>Bidang Penyelidikan</i>)	Pedagogical content knowledge, Informal Science Learning, STEM Education												
WORK EXPERIENCES (<i>Pengalaman Kerja (Di Ukm & Luar)</i>)	22 years												
SUPERVISION OF STUDENTS: (<i>Penyeliaan (Tempoh 5 Tahun/ Tamat Pengajian)</i>)													
<table border="1"> <thead> <tr> <th>Level</th> <th>Finish</th> <th>In Progress</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Ph. D</td> <td>5</td> <td>5</td> <td>10</td> </tr> <tr> <td>Master</td> <td>8</td> <td>4</td> <td>12</td> </tr> </tbody> </table>		Level	Finish	In Progress	Total	Ph. D	5	5	10	Master	8	4	12
Level	Finish	In Progress	Total										
Ph. D	5	5	10										
Master	8	4	12										

No.	Title of Thesis (Tajuk Tesis)	Name of Students (Nama Pelajar)	Years (Tahun Lulus)	Stage of Supervision (Peringkat Penyeliaan)
Doctor of Philosophy				
1	Pembinaan dan keberkesanan modul pengajaran dan pembelajaran fizik berasaskan reka bentuk kejuruteraan terhadap kreativiti saintifik pelajar.	Muhammad Syukri	2017	Graduated
2	Pembangunan model kepercayaan, motivasi dan penglibatan guru dalam lawatan lapangan ke institusi pembelajaran sains informal.	Suhaiza Mat Saat	2017	Graduated
3	The effectiveness of computer-based quiz games on students' achievement in and attitudes towards introductory engineering chemistry in Abu Dhabi, UAE	Ling Szu Szu	2018	Graduated
4	Kompetensi Fasilitator Sains dalam konteks pembelajaran sains nonformal	Wan Nor Fadzilah Wan Husin	2018	Graduated
Master				
1	Sumbangan penguasaan asas fizik dan matematik terhadap keupayaan pengaplikasian fizik dalam topik mekanik tingkatan enam.	Haryati Kamarudin	2016	Graduated
2	Konsepsi guru sekolah rendah terhadap pendidikan STEM	Nur Diyana Zakaria	2017	Graduated
3	Tahap penguasaan kemahiran proses sains dalam kalangan guru sains sekolah menengah di zon bangsar	EmelianaTompang	2017	Graduated
4	Kesan persekitaran budaya pembelajaran Dalam pelaksanaan inkuiri sains	Jannatun Naimah Mokhni	2017	Graduated
5	Pengaruh penglibatan ibu bapa/penjaga dan adik-beradik dalam pencapaian akademik sains pelajar di sekolah berprestasi tinggi melaka	Low Kai Lin	2017	Graduated
6	Minat terhadap kerjaya stem dalam kalangan murid sekolah rendah	Illey Izyani Ibrahim	2017	Graduated
7	Keberkesanan penggunaan modul hebat sains ke atas KBAT Kemahiran berfikir aras tinggi pelajar	Junaidah Hasbullah	2017	Graduated

8	Hubungan antara kreativiti umum, pengetahuan konsep fizik dan pemikiran inventif dengan kreativiti saintifik dalam kalangan guru fizik	Nur Erwani Rozi	2019	Graduated
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No.	Latest Awards & Achievements (Anugerah Dan Pencapaian (2010 – Kini))	Year (Tahun)								
1	Innovation Research based Teaching award , Faculty of Education, UKM	(2011, 2015)								
2	Distinguished Research Award (2016), East Asian Science Education	2016								
3	Japan Foundation Fellowship Award (2017), Asia Centre Japan	2017								
4	Silver Medal Award -STEM Mentoring Program Malaysia Technology Expo	2019								
No.	<p>Penerbitan (Jurnal, Buku, & Bab Dalam Buku) (2010 – Kini: 10 terbaik) (Latest Publications, Journal, Book & Chapter in Book –The best of 10)</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Jumlah</th> </tr> </thead> <tbody> <tr> <td>Journal</td> <td>12</td> </tr> <tr> <td>Book</td> <td>1</td> </tr> <tr> <td>Chapter in book</td> <td>1</td> </tr> </tbody> </table>	Type	Jumlah	Journal	12	Book	1	Chapter in book	1	Tahun (Year)
Type	Jumlah									
Journal	12									
Book	1									
Chapter in book	1									
Journal										
1	Lilia Halim, Sharifah Intan Sharina Syed Abdullah, T Subahan Meerah. 2014. Students' Perception of their Science Teachers' Pedagogical Content Knowledge, <i>Journal of Science Education and Technology</i> , 23:227–237	2014								
2	Lilia Halim, Tan Kia Yong, Tamby Subahan Mohd Meerah. 2014. Overcoming Students' Misconceptions on Forces in Equilibrium: An Action Research Study, <i>Creative Education</i> , 5, 1032-1042	2014								
3	Edy Hafizan, Lilia Halim, David F. Treagust, Mihye Won & A. L. Chandrasegaran. 2015 . Primary school teachers' understanding of science process skills in relation to their teaching qualifications and teaching experience, <i>Research in science education</i> , Published Online DOI 10.1007/s11165-015-9500-z	2015								
4	Shahali, E. H. M., Halim, L., Rasul, M. S., Osman, K., & Zulkifeli, M. A. 2017. STEM learning through engineering design: Impact on middle secondary students' interest towards STEM. <i>Eurasia Journal of Mathematics, Science and Technology Education</i> , 13(5), 1189-1211. DOI: 10.12973/eurasia.2017.00667a	2017								
5	Wan Nor Fadzilah WAN HUSIN, Muhammad FAIRUZ, Muhammad SYUKRI & Lilia HALIM. 2015. Competencies of science centre facilitators , <i>Journal of Turkish of Science Education</i> , 49-62	2015								
6	Halim, L., Rahman, N.A., Zamri, R. & Mohtar, L. 2018. The roles of parents in cultivating children's interest towards science learning and careers. <i>Kasetsart Journal of Social Sciences</i> , 39:190-196. http://dx.doi.org/10.1016/j.kjss.2017.05.001 .	2018								
7	Mahmud, S.N.D., Nasri, N.M., Samsudin, M.A. and Halim, L., 2018. Science teacher education in Malaysia: challenges and way forward. <i>Asia-Pacific Science Education</i> ,	2018								

	4(1), p.8. https://doi.org/10.1186/s41029-018-0026-3 .	
8	Halim, L., Abd Rahman, N, Wahab, N & Mohtar, L.E. 2018. Factors influencing STEM careers: An exploratory factor analysis. <i>Asia-Pacific Forum on Science Learning and Teaching</i> , 19(2), Article 1: 1-15	2018
9	Syukri, M., Soewarno, S., Halim, L., Mohtar, L.E. 2018. The impact of engineering design process in teaching and learning to enhance students' science problem-solving skills, <i>JPII 7 (1)</i> : 66-75	2018
10	Rasul, M.S., Zahriman, N., Halim, L. and Rauf, R.A. 2018. Impact of integrated STEM smart communities program on student's scientific creativity. <i>Journal of Engineering Science and Technology</i> , 13:80-89.	2018
11	Mohtar, L. E., Halim, L., Samsudin, M. A., Ismail, M. E. 2019. Non-Cognitive Factors Influencing Science Achievement in Malaysia and Japan: An Analysis of TIMSS 2015. <i>Eurasia Journal of Mathematics, Science and Technology Education</i> ,15(4):em1697. https://doi.org/10.29333/ejmste/103567 .	2019
12	Mohd Shahali, E. H., Halim, L., Rasul, M. S., Osman, K., & Mohamad Arsad, N. 2019. Students' interest towards STEM: a longitudinal study. <i>Research in Science and Technological Education</i> , 37(1):71-89. https://doi.org/10.1080/02635143.2018.1489789	2019
Book		
1	Wan Nor Fadzilah Wan Husin, Suhaiza Mat Said, & Lilia Halim. 2017. <i>Pembudayaan STEM di Luar Bilik Darjah</i> , Bangi: Penerbit UKM	2017
Chapter in Book		
1	Halim, L., & Subahan Mohd Meerah, T. (2016). Science education research and practice in Malaysia. In <i>Science Education Research and Practice in Asia: Challenges and Opportunities</i> (pp. 71-93). Springer Singapore. DOI: 10.1007/978-981-10-0847-4_5	2016

List of Current Research
(Senarai Penyelidikan Terkini– Tempoh 5 Tahun)

Position	Total
Project Leader	5
Researchers	3

Grants Category	Code	Title of Project	Position	Project period/Status
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				(Tempoh Projek/Status)
International Grants	GG-2019-004	Integrated Studies in Japan: A model for culturally relevant science teaching and learning for Malaysia and Indonesia	Project Leader	Ongoing
National Grant	GG-2017-016.	STEM Mentoring Program	Project Leader	Ongoing
University Grant	AP-2015-001.	Pengesahan Model Pemilihan Kerjaya STEM Dalam Kalangan Pelajar dan Pembentukan Intervensi Meningkatkan Pemilihan Kerjaya STEM	Project Leader	Completed
University grant	AP- 2017-005/3,	Using Green Data Modelling of Quarry Environment for STEM education to Enhance Open Data Readiness	Co- researcher	On-going

No.	(Community Service / Network) <i>Khidmat Masyarakat / Jaringan</i>	Year (Tahun)
1	STEM Mentoring with Jabatan Pendidikan Negeri Selangor	2015
2	Education Committee- World Wide Fund for Nature	2015
3	Member of East Asian Association of Science Education	2015