



# FATANAH DERAMAN

**Position :** Deputy Director  
(Research) IMK / Senior Lecturer

**Current Address:**  
Institute of Engineering  
Mathematics, Universiti Malaysia  
Perlis (UniMAP), Kampus Alam  
Pauh Putra, 02600 Arau, Perlis,  
Malaysia

## CONTACT

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**Marital Status:** Married **Gender:**  
Female **Nationality:** Malaysia (Malay)

## ACADEMIC QUALIFICATIONS

Institution	Duration	Qualification
Institut Penyelidikan Matematik(INSPEM), Universiti Putra Malaysia.	Dec 2014-2020	Doctor of Philosophy- Analytic Structural Theory
Institut Penyelidikan Matematik(INSPEM), Universiti Putra Malaysia.	Dec 2011-Aug 2013	Master of Science- Structural Theory of Algebras (Full Research)
Fakulti Sains, Universiti Putra Malaysia	July 2006-June 2010	Bachelor Science with Education (Honour)- Mathematics
Penang Matriculation College	Session 2005/2006	Science Physic Stream
SMK (A) Wataniah, Machang, Kelantan	2000-2004	Sijil Pelajaran Malaysia (SPM) Penilaian Menengah Rendah (PMR)
SK Paloh Rawa, Machang, Kelantan	1993-1999	Ujian Penilaian Sekolah Rendah (UPSR)

## EXPERIENCES

Institution/Organization	Job Specification	Duration
<b>Deputy Director</b> Institute Of Engineering Mathematics Universiti Malaysia Perlis (UniMAP)	plays a pivotal role in advancing research excellence, managing postgraduate programs, and fostering collaborations. This leadership position involves overseeing postgraduate student progress, organizing workshops, and ensuring compliance with accreditation standards. Additionally, the Deputy Director works to align research outputs with the institute's strategic goals while promoting interdisciplinary and industry-driven initiatives. Key responsibilities include facilitating partnerships with industries to promote applied research, supervising grant applications, and managing research resources. The role also ensures that all postgraduate activities and research programs meet national and international accreditation requirements. Mentoring academic staff, organizing capacity-building initiatives, and representing the institute in external engagements further highlight the dynamic scope of this position.	October 2024 – September 2026 (Contract)
<b>Senior Lecturer</b>	To develop, manage and monitor postgraduate and undergraduate programs as well as teach mathematics	December 2020- <b>ONWARDS</b>

Universiti Malaysia Perlis (UniMAP)	subjects. Do research in mathematics and computer sciences. Publish related papers, attend conference, workshop and seminar. This includes associated operational administration, curriculum development and quality management and enhancement (including accreditation by relevant professional institutions where appropriate).	
<b>Visiting Lecturer</b> Termez State University (TerSU)	Facilitate and teaching for a group of student from selected students of degree and master students for subject Discrete Mathematics-Graph Theory	4 September 2023- 24 September 2023
<b>Business Developer</b> ARS Sdn Bhd, Bandar Tasik Selatan, Kuala Lumpur	Content creator for close sale script wedding invitation card business. Also create content for e-book business, sale page, email marketing, canvas business, funnel sale and etc.	November 2013-April 2014
<b>Uzbekistan Research Attachment</b> INSPEM UPM and Institute of Mathematic Uzbekistan.	Try to solve the research problems with different method. Also got experience to work with their expertise in solving mathematics theory fields.	11 September 2012 - 10 October 2012
<b>Part Timer Demonstrator</b> Department of Mathematics, UPM	Vector Analysis, Linear Algebras, Abstract Algebras, Modern Algebras, Number Given tasks to handle and assist groups of third year and final year mathematics students on their tutorial activities. The activities were to discuss the concept and solving problems of the topics discussed.	December 2011 – October 2012
<b>Final Year Project</b> Department of Mathematics, UPM	The research of the final year project was done on the topic of Simultaneous Diophantine Equations $y^2 - 5x^2 = 4$ and $z^2 - 442x^2 = 441$ . The aim of this project was to proof the solution obtained by using Legendre symbol.	February 2009- February 2010
<b>Practical Teaching</b> SMK Puchong Utama (1), Selangor	Training to teach Mathematics and Science for form 4 and form 3 students, respectively. Also handled for student co-curriculum sport such as badminton.	March 2009- June 2009
<b>Student Representative Council UPM</b> Exco Special Task	Dedicate to ensure that student rights and life on campus are well represented. During my period, we manage to solve a few issues such as bus route problem, Latihan Mengajar dan Praktikum Kaunseling (LMPK) schedule, study week issues and other related to help, deliver resources and genuine informations as well as bridging the gap between students and management.	Sesion 2008/2009
<b>Part timer grader</b> Algebras, Calculus, Advance Calculus. Department of Mathematics, UPM.	Assisted lecturer in daily classes and also worked as part time tutor to assist mathematics students especially on their tutorial questions, homework and assignments. (Different semester with different subjects)	August 2008 – November 2011.

<b>Facilitator</b> Program Kemasyarakatan Bersama Orang Asli	Facilitate for a group of student from selected students of Selangor Orang Asli community. Session 2005/2006 and 2006/2007	1 July 2011
<b>Manager and Player</b> Badminton, Basket Ball, Pingpong InterCollege, UPM	Manager and player for badminton team. The team was able to make into semifinal. Also played for basket ball and tennis table teams.	Session 2006/2007 and 2006/2007
<b>Publicity &amp; Photography Post</b> Majlis Sinaran Intan Tujuh ke-VII, KOSSAS, UPM.	Designed banner for promoting the event and assisted in taking photograph for the event.	Session 2006/2007

## GRANT/ PROJECT

No	Details	Duration
1.	ChatBot project for TFP Solutions Berhad <ul style="list-style-type: none"> <li>- Web based application on the automations in Whatsapp application.</li> <li>- The features include blasting, auto reply and database analytic.</li> </ul>	2 January 2023- 20 September 2024 (Grant value: RM 50,000) Completed.

## INTELLECTUAL PROPERTY (IP)

No	Title	Details
1.	PHARMACOGNOSTIC ELUCIDATION OF HARUM MANIS LEAF EXTRACTS FOR THERAPEUTIC DISCOVERY	(CR-1A Registration No.: LY2024P01866)

## JOURNAL

No	Details
1.	On Cardinality Of Character Sums With Beatty Sequences Associated With Composite Moduli <b>F. Deraman</b> , S. H. Sapar, Nurul Huda Abdul Aziz , Ghazali N., S. Mohd Asi, , M. S. Anuar , H. L. Zakaria , Sh. Ismail Special Issue Mathematics and Statistics Journal (CMT2022) - Indexed SCOPUS Journal
2.	Extended Bounds of Beatty Sequence Associated with Primes, <b>F. Deraman</b> , SH Sapar, MAM Johari, KAM Atan, AFN Rasedee, International Journal of Engineering and Advanced Technology (2019)- SCOPUS Journal Indexed
3.	On Cardinality of Character Sums with Beatty Sequences Associated with Composite Modules I. A. Allakov, F. Deraman, S. H. Sapar, and S. Ismail. Journal Чебышевский сборник (Chebyshevskii Sbornik), Volume 24, Issue 5, 5-15.(2023)
4.	On the Diophantine Equation $x^2 + 5^a 47^b = y^n$ N. S. Jamal, S. H. Sapar, M. A. M. Johari, F Deraman Menemui Matematik (Discovering Mathematics) 45 (1), 104-111 (2023)

5.	Transposed Poisson structures on quasi-filiform Lie algebras of maximum length K. Abdurasulov, F. Deraman, A. Saydaliyev, S. H. Sapar. The journal of Lobachevskii Journal of Mathematics (ESCI), 45(11), 5622-5636, 2024.
6	One effective method for solving singularly perturbed equations. Chori Normuradov, Nasiba Djurayeva, M. S. Anuar, F. Deraman, d and S. M. Asi, Malaysian Journal of Science (Q3). 2025

## CONFERENCE PAPER

No	Details
1.	On cardinality of character sums with Beatty sequences associated with Fibonacci numbers <b>F Deraman</b> , SH Sapar, MAM Johari, S Ismail, Z Yahya - AIP Conference Proceedings, 2022 (Indexed Scopus Proceeding)
2.	Iot Based Monitoring System for Maintaining the Safety and Hygiene of the Food N. I. A. Abdullah Sidek, M. N. Mansor, R. Md Kawi, M. R. Manan, H. Mokhtaruddin I.S. Ahmad Mahyudin, <b>F. Deraman</b> Indexed in WoS-ECSI and Scopus, 2022 (Indexed in WoS-ECSI and Scopus)
3.	Early Warning Landslide Detection System Using the Wireless Sensor Network Based on IoT Sarmila A/P Ganesan, Muhammad Naufal Mansor, Roejhan Md Kawi, Mohd Rizal Manan, habibah Mokhtaruddin, Ilham Shafini Ahmad Mahyudin, <b>F. Deraman</b> Indexed in WoS-ECSI and Scopus, 2022 (Indexed in WoS-ECSI and Scopus)
4.	A Strategy Using Deterministic Annealing on EM Algorithm For Microembulos Najah Ghazali, Dzati Athiar Ramli, <b>Fatanah Deraman</b> , Nor Hazadura Hamzah IcoMEIA 2022
5.	On almost everywhere converge of dyadic Fourier series in $L_2$ , <b>F. Deraman</b> , A. A. Ahmedov, AIP Conference Proceedings 1795 (1) 020016
6.	<b>Deraman, F.</b> , Rakhimov, I. S. and Said Husain S. K. (2011). Isomorphism classes and invariants for a subclass of nine-dimensional filiform Leibniz algebras. The 5th International Conference on Research and Education in Mathematics, (ICREM5). AIP Conf. Proc., 1450(1):326-331.
7.	<b>Deraman, F.</b> , Rakhimov, I. S., Said Husain, S. K., and Sapar S. H. On description of orbits under the action (transport of structure) of $GL_9$ on $SL_9$ . In International Conference on Mathematical Science and Statistics 2013, page 22. International Conference on Mathematical Science and Statistics 2013 (ICMSS2013), Kuala Lumpur, February 5-7, 2013. Universiti Putra Malaysia (UPM), 2013.
8.	<b>Fatanah Deraman</b> , Sharifah Kartini Said Husain and Isamiddin S. Rakhimov. Classification of second class of nine dimensional complex filiform Leibniz algebras. In Fundamental Science Congress, pages 375-376. Fundamental Science Congress, Serdang, Malaysia, July 5-6, 2011. Universiti Putra Malaysia, 2011.
9.	Sharifah Kartini Said Husain, <b>Fatanah Deraman</b> , Isamiddin S. Rakhimov. Description of A Subclass of Filiform Leibniz Algebras in Dimension 9. In The International Conference on Numerical Analysis and Optimazation, pages A2-1 - A2-5. The International Conference on Numerical Analysis and Optimazation (IceMATH2011), Yogyakarta, Indonesia, 6-8 June, 2011. Universitas Ahmad Dahlan, 2011.

## SUPERVISION

No	Details	Status
1.	Co-supervisor to the PhD student form Universiti Putra Malaysia	Ongoing

	Nama: Low Chee Wei Program/ No Matrik: PhD / GS59262 Bidang Kajian: Matematik Analitik Struktur Tajuk Penyelidikan: Character Sums of Beatty Sequences on Finite Field Sessi: Sem 2022/2023	
2.	Supervisor for Industrial training Nurulhuda Binti Roslan No Matrik: 191020962 Program: RK20 -Kejuruteraan Komputer Sessi: Semester 1 2022/2023	Completed

### MANAGEMENT/SOCIAL SERVICES

No	Details	Duration
1.	Head of Pure Mathematics in Institute of Engineering Mathematics, UniMAP	November 2022 -Onwards
2.	Promotion Committee member in Institute of Engineering Mathematics, UniMAP	December 2020- Onwards

### AWARDS AND RECOGNITIONS

No	Details
1.	Excellence in INSPEM'S Weekly Seminar Participation 2011. -Unit of Post Graduate Studies, INSPEM UPM.

### CONFERENCES, SEMINAR AND WORKSHOP ATTENDED

Duration	Activities/Event	Organizations
5-7 February 2013	International Conference on Mathematical Science and Statistics (ICMSS 2013), Kuala Lumpur.	Department of Mathematics, Fakulti Sains, Universiti Putra Malaysia.
12-14 September 2012	Conference "Operator Algebras and Related Topics", Tashkent.	National University of Uzbekistan and Institut of Mathematics, Uzbekistan.
30-31 May 2012	2nd Regional Conference on Applied and Engineering Mathematics (RCAEM-II), Penang.	Institut Matematik Kejuruteraan UniMAP and Suruhanjaya Kebangsaan UNESCO Malaysia.
9-13 January 2012	Expository Quantum Lecture Series 5 (EQuaLS5): "Geometry, Topology and Physics 2012", Serdang.	Laboratory of Computational Sciences and Mathematical Physics, Institute for Mathematical Research and Department of Physics, Faculty of Science, UPM

12-13 April 2012	Group, Algorithms and Programming (GAP) Workshop, Johor Baharu	Applied Algebra and Analysis Group Nanotechnology Research Alliance, UTM.
30 December – 2 January 2013	Workshop On Structure Properties of Finite Dimensional Algebras, Sepang.	Laboratory of Cryptography, Analysis and Structure, Institute for Mathematical Research and Department of Mathematics, Faculty of Science, UPM
21 June 2012	Bengkel Wacana Kelestarian Ilmu, Menara DBP.	Dewan Bahasa dan Pustaka dengan kerjasama Pusat Dialog Peradaban, Universiti Malaya
3-4 March 2012	Bengkel Aljabar Dan Penulisan Manuskrip, Port Dickson.	Laboratory of Cryptography, Analysis and Structure, Institute for Mathematical Research and Department of Mathematics, Faculty of Science, UPM.
12 January 2011	Time and Stress Management & Introduction to UPM Postgraduate Studies Seminar, Serdang.	School of Graduate Studies, UPM.
6 December 2009	Seminar Sempena Jubli Emas Parlimen Malaysia, Bukit Bintang.	Commenwealth Parliamentary Association (CPA) Cawangan Malaysia dan Pusat Pengajian Sains Kemasyarakatan, Universiti Sains Malaysia.
8 February 2009	Kursus Seorang Pembantu Pertolongan Cemas Dalam Setiap Rumah, Serdang.	Bulan Sabit Merah Malaysia

Updated on **17 August 2024**

*~Satu itu Alif, Alif itu Ikhlas, Ikhlas itu perlu diletakkan pada tempat Pertama, Juga Perlu di Utamakan~*