

CURRICULUM VITAE



A. Biodata

Full Name	Noor Zafira Noor Hasnan
Department	Department of Process and Food Engineering
Faculty	Faculty of Engineering
Organization	Universiti Putra Malaysia
Current position	Senior Lecturer
Date of present appointment	1 February 2018
Field of specialization	Food Supply Chain & Manufacturing, System Modelling & Simulation Analysis, Food Safety
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B. Education and Academic Qualifications

Degree	Institution/ School	Year	Area of specialization
Ph. D	Universiti Putra Malaysia, Malaysia	2017	Food Engineering
M. Sc	Albstadt-Sigmaringen University, Germany	2012	Facilities Design and Management in Life Science (Food and Pharmaceutical)
B.Sc	Albstadt-Sigmaringen University, Germany	2010	Food and Hygiene
A- Level Engineering	International Education Centre, MARA Institute of Technology, Malaysia	2006	Engineering
Certificate of Pre Study Engineering Practical	German-Malaysian Institute, Malaysia	2006	Engineering

C. Areas of Interest

1. Food system, supply chain and manufacturing
2. Operational planning and simulation analysis
3. Food hygiene and safety (HACCP, GMP)
4. Antioxidants

D. Awards and Recognition

No.	Title	Organization	Award	Year
1.	Certificate of Award for AGREETION20233	Universitas Brawijaya	Gold (International)	2023
2.	Best Final Year Project 2023 (Industry Panels)	Universiti Putra Malaysia	Excellence Award (Co-Supervisor)	2023
3.	Appreciation Certificate	Universiti Putra Malaysia (UPM)	Teaching Excellence Award (University)	2022
4.	Best Final Year Project 2022 (Industry Panels)	Universiti Putra Malaysia	Excellence Award	2022
5.	Certificate of Award PiCTL2021	Centre for Academic Development (CADe), UPM	Silver (University)	2021
6.	Best Final Year Project 2021 (Faculty Panels)	Universiti Putra Malaysia	Excellence Award	2021
7.	Certificate of Appreciation	Universiti Putra Malaysia	Excellent Service Award	2020
8.	Certificate of Poster Award ARC2020	The 6 th Southeast Asian Agricultural Engineering Annual Regional Convention (ARC2020)	Gold & Silver (International)	2020
9.	Certificate of Paper Award ARC2020	The 6 th Southeast Asian Agricultural Engineering Annual Regional Convention (ARC2020)	Bronze (International)	2020
10.	Certificate of Award PiCTL2020	Centre for Academic Development (CADe), UPM	Gold (University)	2020
11.	Best Final Year Project 2020 (Industry Panels)	Faculty of Engineering	Silver (University)	2020
12.	Certificate of Appreciation	Universiti Putra Malaysia	Excellent Service Award	2019
13.	Best Final Year Project 2019 (Industry Panels)	Faculty of Engineering	Gold (University)	2019
14.	Best Final Year Project 2019 (Industry Panels)	Faculty of Engineering	Bronze (University)	2019



15.	Appreciation Certificate	Universiti Putra Malaysia (UPM)	Teaching Excellence Award (University)	2019
16.	Certificate of Award PRINKAB2019	Pertandingan Rekacipta Invasi Nasional Kejuruteraan adan Alam Bina - Universiti Kebangsaan Malaysia (UKM)	Gold (National)	2019
17.	Hygienic Design Study Award	European Hygienic Engineering Design Group (EHEDG)	Runner-up (International)	2018
18.	Certificate of Award	International STEM Olympiad and Universiti Putra Malaysia (UPM)	Gold (International)	2018
19.	Certificate of Excellence	International STEM Olympiad an d Universiti Putra Malaysia (UPM)	Cluster Award in Environment and Energy (International)	2018
20.	20 Outstanding Foreign Students for Conference with Chancellor of Germany, Angela Merkel at Germany Parliament	Germany Academic Exchange Service (DAAD)	Excellence Award (International)	2010
21.	Outstanding Foreign Student Award	Germany Academic Exchange Service (DAAD)	Excellence Award (International)	2009
22.	Malaysian Embassy Award for academic and extra-curricular achievements	Malaysian Embassy in Berlin	Excellence Award (International)	2008
23.	Scholarship for Postgraduate Study (PhD degree)	Ministry of Higher Education	Scholarship (National)	2012-2016
24.	Scholarship for Postgraduate Study (Master degree)	Public Service Department, Malaysia	Scholarship (National)	2010-2012
25.	Scholarship for Undergraduate Study (Master degree)	Public Service Department, Malaysia	Scholarship (National)	2007-2010
26.	Scholarship for A-Level	Public Service Department, Malaysia	Scholarship (National)	2004-2006

F. Supervision of Students

Program Level	Name of Student	Supervisor/ Co-Supervisor/ Demonstrator	Status (On-going/Graduated)	Year Graduated
PhD	Saud AlMutairi	Supervisor	On-Going	
PhD	Azan Azuwan Baharudin	Co-Supervisor	On-Going	
PhD	Kuan Shu Ping	Co-Supervisor	On-Going	
Master	Nurul Shaqirah Binti Sulaiman	Co-Supervisor	On-Going	2023
Master	Mao Dun	Co-Supervisor	On-Going	
Master	Keng Guan Chen	Co-Supervisor	On-Going	
Bachelor	Ng An Qi	Supervisor	Graduated	2023
Bachelor	Kam Yit Fei	Supervisor	Graduated	2023
Bachelor	Lee Wai See	Supervisor	Graduated	2022
Bachelor	Wong Hoong Ling	Supervisor	Graduated	2022
Bachelor	Anis Fadhillah	Supervisor	Graduated	2021
Bachelor	Oh Jia Qian	Supervisor	Graduated	2021
Bachelor	Kong Tse Yee	Supervisor	Graduated	2020
Bachelor	Heng Hui Shan	Supervisor	Graduated	2020
Bachelor	Nurulnadiyah Binti Johari	Supervisor	Graduated	2019
Bachelor	Nur Syahida Laila Binti Azmy	Supervisor	Graduated	2019
Bachelor	Nur Asilah Binti Nasiruddin	Demonstrator	Graduated	2017
Bachelor	Ain Atiqah Binti Mohd Sabri	Demonstrator	Graduated	2016
Bachelor	Siti Nor'Ain Binti Kamalruddin	Demonstrator	Graduated	2015

G. Publications

Journals

1. Nur Diyana Alyas, Nurin Izzati Mohd Zulkifli, **Noor Zafira Noor Hasnan**, Koh Su Ping (2023). Integrated green extraction method in enhancing total phenolic content and antioxidant activities of *Heterotrigona itama* propolis effect. Food Research. (Scopus-indexed)
2. **Noor Zafira Noor Hasnan***, Roseliza Kadir Basha, , Sharifah Hafiza Mohd Ramli, John Yew Huat Tang, Norashikin Ab Aziz (2022). Analysis of the Most Frequent Nonconformance Aspects Related to Good Manufacturing Practices (GMP) Among Small and Medium Enterprises (SMES) In The Food Industry And Their Main Factors. Food Control. (Q1)
3. Intan Tawakkal, **Noor Zafira Noor Hasnan**, Nor Amaiza Mohd Amin, Roseliza kadir Basha, (2022). Effect of packaging materials on antifogging film properties and quality of oyster mushrooms at different storage temperature. Advances in Agricultural and Food Research Journal.(MyCite).
4. Nor Amaiza Mohd Amin , Roseliza kadir Basha, **Noor Zafira Noor Hasnan** (2022). Proximate composition, fatty acid profile and total amino acid content in raw samples of Asian swamp eel (*Monopterus albus*). Advances in Agricultural and Food Research Journal. (MyCite).
5. Heng Hui Shan, **Noor Zafira Noor Hasnan***, Yuzainee Md. Yusoff, Norashikin Abdul Aziz, Mohd Salahuddin Mohd Basri (2021). Operational and Hygiene Problems Due to Poor Floor Drain Design

- and Installation in a Meat Processing. Journal of Hygienic and Engineering Design. (Scopus-indexed)
6. Nur Diyana Alyas, Nurin Izzati Mohd Zulkifli, Fadzilah Puteh, **Noor Zafira Noor Hasnan*** (2021). Evaluation of Total Phenolic Content and Antioxidant Activities from Different Extraction Techniques of *Helianthus tuberosus*. Advances In Agricultural and Food Research Journal (AAFRJ).
 7. Roseliza Kadir Basha, Siti Hajar Othman, Rosnita A.Talib, Mohd Nazli Naim, **Noor Zafira Noor Hasnan**, Nazatul Shima Azmi (2021). Sorption characteristic of starch-based film. Food Research. (Scopus Indexed).
 8. Siti Hajar Othman, Bilguisse Mamadou Wane, Norhazirah Nordin, **Noor Zafira Noor Hasnan**, Rosnita A. Talib and Joko Nugroho Wahyu Karyadi (2021). Physical, Mechanical, and Water Vapor Barrier Properties of Starch/Cellulose Nanofiber/Thymol Bionanocomposite Films. Polymers.(Q1).
 9. Roseliza Kadir Basha, Rashidah Sukor, Zanariah Mohd Dom, Nor Amaiza Mohd Amin, **Noor Zafira Noor Hasnan**, Siti Hajar Othman (2020). Mechanical Properties and Antioxidant Activity of Sweet Potato Starch Film Incorporated with Lemongrass Oil. Advances in Agricultural and Food Research Journal.
 10. **Noor Zafira Noor Hasnan***, Nur Diyana Alyas, Nurin Izzatt Mohd Zulkifli, Roseliza Kadir Basha, Norashikin Ab. Aziz (2020). Effect of different pasteurisation temperature on physicochemical properties, bioactive compounds, antioxidant activity and microbiological qualities of reconstituted pomegranate juice (RPJ). Food Research. (Scopus Indexed).
 11. **Noor Zafira Noor Hasnan***, Sharifah Hafiza Mohd Ramli (2020). Modernizing the Preparation of the Malaysian Traditional Mixed Rice Dishes with Cook-Chill Central Kitchen and Implementation of HACCP. International Journal of Gastronomy and Food Science. (Scopus-indexed).
 12. Yuzainee Md. Yusoff, **Noor Zafira Noor Hasnan***, Nurulnadiyah Johari (2019). Cooling Load Calculation for Efficient Cold Storage of Fresh-cut Yam Bean. International Journal of Recent Technology and Engineering. (Scopus Indexed).
 13. Nurul Izzah Khalid, U.S.Saulaiman, Nur Asilah Nasiruddin, Norashikin Ab. Aziz, Nor Khaizura Mahmud @ Ab Rashid, **Noor Zafira Noor Hasnan**, Farah Saleena Taip. Integrating cleaning studies with industrial practice: Case study of an effective cleaning program for a frozen meat patties SME factory. Journal of Cleaner Production (Q1)
 14. **Noor Zafira Noor Hasnan***, Norashikin Ab. Aziz, Norzima Zulkifli, Farah Saleena Taip (2018). Spine layout design for improving food hygiene and reducing travelled distances in a small-scale burger patties processing. Food Research. (Scopus-indexed)
 15. **Noor Zafira Noor Hasnan***, Norashikin Ab. Aziz, Norzima Zulkifli, Farah Saleena Taip (2014). Food factory design: Reality and challenges faced by Malaysian SMEs. Agriculture and Agricultural Science Procedia, 2, 328-336.

Conference Proceedings

1. **Noor Zafira Noor Hasnan***, Yuzainee Md. Yusoff (2022). Perceptions of Students on Industrial Training for Process and Food Engineering Program. AIP Conference Proceedings (Vol. 2433, No. 1, p. 020026). Regional Conference in Engineering Education (RCEE2020), Johor Bahru, 29th - 30th September 2020. AIP Publishing LLC. (Scopus-indexed)
2. **Noor Zafira Noor Hasnan***, Yuzainee Md. Yusoff, Sarina Abdul Halim Lim, Kamarulzaman Kamarudin (2022). Potential Of Industrial Internet of Things (IIoT) For Improving Inefficiencies in Food Manufacturing. Conference Book of 6th International Conference of Chemical Engineering & Industrial Biotechnology, Pahang, 15th -16th August 2022.
3. **Noor Zafira Noor Hasnan***, Sharifah Hafiza Mohd Ramli, Norashikin Ab. Aziz, Norzima Zulkifli, Farah Saleena Taip (2019). Hygienic Design of Food Processing Facilities. Abstract Book of the International Conference of Food Safety and Health, Taichung, Taiwan, November 26th-28th, 2019.
4. **Noor Zafira Noor Hasnan***, Yuzainee Md. Yusoff (2018). Short Review: Application areas of industry 4.0 technologies in the food processing sector. In Research and Development, 2018. SCORED 2018. IEEE Explorer. (Scopus-indexed)
5. **Noor Zafira Noor Hasnan***, Siti Nurain Kamalruddin, Norashikin Ab. Aziz, Norzima Zulkifli, Farah Saleena Taip and Kamarudzaman Mohd. Ishak. Food Processing Machine Selection Guideline Module for Juara Rasa Maju Sdn. Bhd. *Proceeding of the 3rd National Conference on Knowledge Transfer*, Penang, Malaysia, November 30th to December 1st, 2016.

6. Mohd Zainal Ismail, Sharifah Hafiza Mohd. Ramli, **Noor Zafira Noor Hasnan**. Cook Chill Concept and Food Production Facilities at the Nutrima Kitchen MARDI. *Proceedings of the 13th Malaysian International Food and Beverage Trade Fair*, Kuala Lumpur, Malaysia, July 12th -14th, 2012.

Book Chapter

1. Sarina Abdul Halim Lim., Nurul Huda Ahmad and Noor Zafira Noor Hasnan. (2023). Quality and Safety in the Food Industry. In Wiley StatsRef: Statistics Reference Online (eds N. Balakrishnan, T. Colton, B. Everitt, W. Piegorisch, F. Ruggeri and J.L. Teugels) <https://doi.org/10.1002/9781118445112.stat08389>
2. Mohd Zuhair Mohd Noor, Intan Syafinaz Mohd Amin Tawakkal, **Noor Zafira Noor Hasnan**, Mohd Salahuddin. Lab Work Video (LWV): A Tool for Course Assessment And Teaching Aid In Undergraduate Program, Non Citation-Indexed , New Edition, Hardcopy , Centre of Engineering and Built Environment Education Research, Universiti Kebangsaan Malaysia (UKM), 9789832982609 , [30-32], 2019.

H. Grants and Funding

No.	Project Title	Amount	Year	Source of Fund
1.	Towards a resilient fishery food system: An exemplary analysis of food loss in fish processing and identification of improvement based on digitalization	USD\$15000 (RM 700000)	2023	Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA).
2.	Training Grant for Train the Trainer Competency	RM 2500	September 2021	Universiti Putra Malaysia
3.	Studies on the New Formulation and Processing Technique Of The Reconstituted Pomegranate Juices To Preserve Antioxidant And Optimize Sensory Values	RM 35000	July 2019	Universiti Putra Malaysia
4.	Design of pomegranate juice, snack food and traceability system development	RM 1500	July 2019	Universiti Putra Malaysia
5.	Travel grant Food Safety and Health Conference, Industry Visit and Tea Plantation in Taiwan	RM 13524	November 2019	National Society of Taiwan and Chung Shan Medical University
6.	Training Grant for Research Coaching:Winning International Grant	RM 2000	August 2019	Akademi Kepimpinan Pendidikan Tinggi
7.	Smart Collection of Waste Cooking Oil	RM 500	December 2018	Faculty of Engineering, Universiti Putra Malaysia
8.	Special Project on Sustainable Food Production and Food Security in Developing Countries	RM 14000	Mac 2018	Germany Academic Exchange

				Service (DAAD)
9.	Travel Grant for research exhibition on hygienic design and processing	RM 12565	December 2018	European Hygienic Engineering Design (EHEDG)
10.	Introducing sustainable, efficient and hygiene production system method for frozen food factory (Graduate Intern)	RM 165000	Oct 2015 – Mar 2018	Ministry of Higher Education Malaysia
4.	Sustainability Considerations in Manufacturing System Design for Small and Medium Enterprise (SME) Food Factory in Malaysia (Postgraduate Students)	RM 15000	Jan 2014 – Dec 2015	Universiti Putra Malaysia

G. Consultation Activities and Industry Collaboration

No.	Project Title	Role	Company	Year	Status
1.	Development of functional gummy candies and processing system	Main	MARDI	2023 to date	On going
2.	System Inefficiencies in the coffee supply chain	Main	Global Coffee Resources Sdn Bhd	2022 to date	On going
3.	Development of traceability system for online processed meat e-retail	Main	Reichtum Food Niaga	2022 to date	On going
4.	Production planning and factory design for protein powder extracted from <i>Monopterus albus</i>	Member	Pelasari Aquamarine Sdn Bhd	2020 to date	On going
5.	Automation on quality control in coffee production	Member	Blend Coffee Roaster Sdn Bhd	2020 to date	On-going
6.	Hygienic design of drainage system	Main	Mestre Engineering Sdn Bhd	2019 to date	Completed
7.	Seminar and Demonstration for Smart Maintenance in Food Industry	Main	Quantrasoft Technology Sdn Bhd and Nalvatik Management	2019	Completed
8.	Roundtable session with Sinobun Confectionary Sdn Bhd on bakery processing, layout design and food safety management system	Main	Sinobun Confectionary Sdn Bhd	2019	Completed
9.	Design of a small-scale factory for pomegranate juice production with high antioxidant properties	Main	Sengkuang Lagenda Enterprise	2018 to date	Completed
10.	Design of a small-scale factory for yam bean snack production	Main	Sengkuang Lagenda Enterprise	2018	Completed

11.	Development of Hazard Analysis Critical Control Point (HACCP) system for the production of yam bean snack and pomegranate juice	Main	Sengkuang Lagenda Enterprise	2018	Completed
12.	Development of Hazard Analysis Critical Control Point (HACCP) system for the production of burger patties	Main	Juara Rasa Maju Sdn Bhd	2018	Completed
13.	Development of Hazard Analysis Critical Control Point (HACCP) system for the production of burger patties	Main	Juara Rasa Maju Sdn Bhd	2018	Completed
14.	Facility set-up of quality control laboratory for the production of rice vermicelli	Main	Dibuk Synergy Sdn Bhd	2017	Completed
15.	Introducing sustainable, efficient and hygienic production system method for frozen food factory	Member	Juara Rasa Maju Sdn Bhd	2016-2018	Completed
16.	Facility Planning to Set up a Commercial Central Kitchen with Cook-Chill System	Research Assistant	Malaysian Agricultural Research and Development Institute (MARDI),	2011-2012	Completed
17.	Novel Method for the Production of Iodised Salt using Cyclodextrin	Research Assistant	Südsalz GmbH, Heilbronn (Germany)	2010	Completed
18.	Testing of School Fruit Program in Baden Wurttemberg, Germany	Student	Ministry of Rural Affair and Consumer Protection in Baden Wuerttemberg (Germany)	2009-2010	Completed
19.	Development of Customer Complaint System	Student	Vinzenz Service GmbH in Sigmaringen (Germany)	2009-2010	Completed
20.	Industrial Internship	Student	Neff GmbH (Germany)	2009	Completed

G. Involvement in Professional Organizations

No.	Role	Organization	Year
1.	Committee Member	Working Group Food Law and Regulation for Global Harmonization Initiatives (GHI)	2020 to date
2.	Member	International Association of Engineers (IAENG)	2022 to date
3.	Graduate Technologist	Malaysian Board of Technologist	2019 to date
4.	Alumni Member	Germany Academic Exchange Service (DAAD)	2018 to date
5.	Professional Member	Germany Agriculture Society	2018 to 2019
6.	Member	Society of Engineering Education Malaysia (SEEM)	2017 to date
7.	Malaysian Ambassador	Global Harmonization Initiatives (GHI)	2018 to date

H. Professional Services

No.	Role	Title	Year
Editorial Board			
1.	Editorial Board	Ukrainian Food Journal (Scopus)	2022
2.	Chief Editor	Program Book of International Symposium Asia Packaging Network (APN) 2021	2021
3.	Chief Editor	eProceedings of International Symposium Asia Packaging Network (APN) 2021	2021
4.	Editor	eProceedings of 4th International Conference on Agricultural and Food Engineering	2018
5.	Editor	Program Book of 4th International Conference on Agricultural and Food Engineering	2018
Chair/Panelist/Speaker/Jury			
1.	Speaker	Food Factory Design And Processing: Fundamental	2023
2.	Trainer	Hazard Analysis and Critical Control Point HACCP	2023
3.	Speaker	Penyelarasan Modul Program Transformasi Minda	2023
4.	Speaker	Training on Good Manufacturing Practices (GMP): Layout & Design Aspects for Food Processing	2019 -2021
5.	Chairperson Assistant	Viva PhD Thesis: Development of Electrolyzed Water Cleaning Program For SME Frozen Meat Industry	2021
6.	Chairperson Assistant	Viva PhD Thesis: Processing Of Coconut Sap Into Syrup and Granular Sugar Using Different Evaporation Techniques For Economical Production	2019
7.	Chairperson Assistant	Viva Master Thesis: Effect of Processing Parameters in Producing Pumpkin Powder from Different Parts of Pumpkin and its Application in "BINGKA" Baking	2019
8.	Speaker	Lab Demonstration for Student Program Between International Islamic University Malaysia and UPM	2018
8.	Jury	4 th International Conference on Agricultural and Food Engineering 2018	2018
Journal/Conference Reviewer			
1.	Journal Review	Food Research	2023
2.	Journal Review	Journal of Food and Agroindustry	2023
3.	Journal Review	Ukrainian Food Journal	2023
4.	Journal Review	Advances in Agricultural and Food Research Journal (AAFRJ)	2022 -2023
5.	Journal Review	Jurnal Ilmiah Perikanan dan Kelautan (JIPK)	2022
6.	Journal Review	Food Science & Engineering	2022
7.	Journal Review	Journal of Food Processing and Preservation	2022
8.	Journal Review	Advances in Agricultural and Food Research Journal (AAFRJ)	2021

9.	Conference Review	5th International Conference on Global Sustainability and Chemical Engineering	2021
10.	Journal Review	Sains Malaysiana	2020
11.	Journal Review	Journal of Tropical Agriculture and Food Science	2020
12.	Journal Review	Malaysian Journal of Medicine & Health Science	2019
13.	Journal Review	Journal of Agricultural Science and Technology A & B	2019 to date
14.	Journal Review	Pertanika Journal (Special Issue)	2018
15.	Conference Review	4th International Conference on Agricultural and Food Engineering 2018	2018

I. Involvement in Student Development

No.	Name of Program/Organizer	Role	Year
1.	Food Plant Design (3 in 1 Program) for Department of Food Science & Biotechnology, Universitas Brawijaya	Visiting Lecturer	2023
2.	Food Engineering – Food Plant Design Lecture for Food Technology Program, Universiti Teknologi MARA	Collaborative Lecture	2023
3.	International Mobility Program Tamil Nadu Agricultural University (TNAU)	Facilitator	2023
4.	Process and Food Plant Design Project, Department of Process and Food Engineering, Faculty of Engineering, UPM	Subject Matter Expert for Layout Design & Scheduling	2021-2023
5.	Process and Food Plant Design Project, Department of Process and Food Engineering, Faculty of Engineering, UPM	Supervisor	2021
6.	Process and Food Plant Design Project, Department of Process and Food Engineering, Faculty of Engineering, UPM	Subject Matter Expert for Layout Design & Scheduling	2020
7.	Process and Food Plant Design Project, Department of Process and Food Engineering, Faculty of Engineering, UPM	Supervisor	2019
8.	Process and Food Plant Design Project, Department of Process and Food Engineering, Faculty of Engineering, UPM	Supervisor	2018
9.	Industrial Training, Department of Process and Food Engineering, Faculty of Engineering, UPM	Visiting Lecturer	2018-2021
10.	Process and Food Plant Design Project, Department of Process and Food Engineering, Faculty of Engineering, UPM	Subject Matter Expert for Hazard Analysis and Critical Control Points	2018
11.	Bachelor of Process and Food Engineering	Academic Advisor	2018 to date
12.	Global I-LEAD STEM Camp	Facilitator	2018