

NURUL NAJIHAH BINTI ILIAS



SUMMARY

High-achieving academic with a PhD in Food Engineering and a strong foundation in the Bachelor of Engineering (Biochemical-Biotechnology Engineering). Passionate about education and eager to apply advanced subject knowledge in a physical or online class environment. Proven ability to simplify complex concepts and manage groups effectively. Available to start immediately.

EDUCATION

Doctor of Philosophy (Food Engineering) Universiti Sains Malaysia (USM)	2025
Master of Science (Biotechnology Engineering) International Islamic University Malaysia (IIUM)	2017
Bachelor of Engineering (Biochemical-Biotechnology) International Islamic University Malaysia (IIUM) <ul style="list-style-type: none">First Class with Honors (CGPA: 3.703)	2013
Matriculation Programme (Engineering) Centre For Foundation Studies, IIUM <ul style="list-style-type: none">CGPA: 3.607, MUET: Band 4	2009
Sijil Pelajaran Malaysia (SPM) Sekolah Menengah Sains Kota Tinggi <ul style="list-style-type: none">Results: 6A1 (including BM and Sejarah), 2A2, 1B3, 1B4	2006

WORKING EXPERIENCE

Research Assistant Food Technology Division, Universiti Sains Malaysia, Penang <ul style="list-style-type: none">Area of interest: Food Product DevelopmentPerform reformulation strategies and improve the processing technology of energy gels to avoid Maillard reaction and increase the products' stability.	October 2025 - January 2026
Research Assistant Food Technology Division, Universiti Sains Malaysia, Penang, Malaysia <ul style="list-style-type: none">Area of interest: Food ProcessingBeing a lab demonstrator to help undergraduate students in conducting their experiments in lab subjects.Assisted faculty members in preparing grant applications by gathering relevant data and drafting supporting documents.Designed and conducted experiments, collected data and maintained results databases.	November 2019 - December 2022

Assistant Research Officer**March 2017 - July 2017**

Malaysia-Japan International Institute of Technology (MJIT), Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia

- Area of interest: Chemical Engineering
- Contributed to the publication of numerous peer-reviewed articles, showcasing the team's research findings.
- Improved the accuracy of research findings by conducting thorough literature reviews and data verification.

Graduate Research Assistant**September 2013 - September 2016**

Department of Biochemical-Biotechnology Engineering, International Islamic University Malaysia (IIUM), Kuala Lumpur, Malaysia

- Area of interest: Food Analysis
- Planned, modified and executed research techniques, procedures and tests.
- Assisted in manuscript preparation, contributing to the publication of influential articles in peer-reviewed journals.

Industrial Trainee**June 2012 - September 2012**

Institute of Bioproduct Development (IBD), Universiti Teknologi Mara (UTM), Skudai, Johor, Malaysia

- Area of interest: Functional food
- Enhanced research quality by meticulously collecting and analyzing data from various sources.

**TEACHING
EXPERIENCE****Home Tutor****November 2024 - Present**

SifuTutor, Shah Alam, Selangor, Malaysia

- Subject: Mathematics SPM, Mathematics (Form 3), Al-Quran and Tajwid

Involved in the Supervision of FYP Students**September 2021 - February 2022**

Food Technology Division, Universiti Sains Malaysia, Penang, Malaysia

- Mentored undergraduate students, providing guidance on research methodologies and techniques

University Tutor**November 2019 - February 2020**

Food Technology Division, Universiti Sains Malaysia, Penang, Malaysia

- Subjects: Introduction to Food Engineering, Introduction to Food Physics
- Provided constructive feedback on assignments, helping students improve their writing and problem-solving skills.

Home Tutor

January 2014 - December 2016

Hcube Education Resources, Gombak, Selangor, Malaysia

- Subjects: Bahasa Malaysia, English, Mathematics and Science (Primary school)
- Physics, Chemistry and Biology (Secondary school)

University Tutor

September 2013 - September 2016

Department of Biochemical-Biotechnology Engineering, International Islamic University Malaysia (IIUM), Kuala Lumpur, Malaysia

- Subject: Organic Chemistry
- Used personalized learning plans to guide students to deeper understanding of course material and learning styles.

AWARDS

- **Best Presenter Award** in WasteEng2024 Conference, International, 2024
- **Three Top Presenters** in SUNRISE Inspirational International Sustainability Research Network, University, 2024
- **3rd place**, Three-Minute Thesis Competition, University, 2020
- **Best Presenter Award**, Konferens MSAE 2020, National, 2020
- **Best Student Award**, Biochemical-Biotechnology Engineering, International Islamic University Malaysia (IIUM), University, 2013
- **Dean's List Award**, International Islamic University Malaysia (IIUM), University, 2010-2013

EXTRA-CURRICULAR ACTIVITIES

- **Vice President**, Biotechnology Engineering Students' Association (BESTA), University, 2011/2012
- **Head Assistant of Educational Bureau**, Biotechnology Engineering Students' Association (BESTA), University, 2010/2011
- **Committee of Academic and Career Bureau**, Engineering Students' Society (ENGINEIUS), University, 2010/2011
- **Assistant Program Manager**, Mock Interview and Career Talk, University, 2011
- **Committee of Program Coordinator Bureau**, Engineering Sports Carnival (ESC), University, 2011
- **Committee**, Block Representative Council, University, 2010

SPORTS & UNIFORM BODIES

- **Women Futsal**, Participant, Engineering Sports Carnival, University, 2012
 - **A Run to Remember**, Participant, University, 2007
 - **Marching Competition**, Participant, Persatuan Puteri Islam, National, 2005
 - **Marching Competition**, Participant, Persatuan Bulan Sabit Merah, State, 2003
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SKILLS**• Languages**

Malay

Excellent ●●●●●

Able to communicate and deliver well

English

Excellent ●●●●●

Confident in teaching a Dual Language Program (DLP) class

• Digital Literacy

Microsoft Office

Excellent ●●●●●

Microsoft Word, Excel, Access, Outlook & PowerPoint

Google Classroom

Excellent ●●●●●

For classroom management, paperless assignment and test distribution, facilitate communication with students

Canva

Excellent ●●●●●

Create and personalize lesson plans, infographics, posters, video and images.

Gamified Learning

Excellent ●●●●●

Interactive learning games: QuizizzAI, Kahoot, Liveworksheet, Wordwall

• Teaching skills

Lesson Planning and Delivery

Able to plan and deliver structured lessons aligned with learning objectives

Classroom Management

Effective classroom management to maintain a positive and disciplined learning environment

Student Engagement

Skilled in engaging students through interactive and student-centered learning activities

Assessment and Feedback

Able to assess student understanding and provide constructive feedback

Labwork skills

Able to conduct experimental analysis in laboratory especially in chemical, biology and instrumental lab

• Personal strength

- Adaptable
 - Leadership
 - Organized
 - Teamwork
 - Able to work under pressure
 - Self-driven
 - Pro-active
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