



**PROF. MADYA DR. NOOR AZLINA BINTI IBRAHIM (00148A)**  
PENSYARAH UNIVERSITI (TETAP)  
FACULTY OF BIOENGINEERING AND TECHNOLOGY  
UNIVERSITI MALAYSIA KELANTAN KAMPUS JELI  
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JELI

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## A. PERSONAL DETAILS

UMK JOIN DATE	01-Jan-2008
DATE OF APPOINTMENT FOR CURRENT POSITION	01-Jan-2008
DATE OF CONFIRMATION FOR CURRENT POSITION	17-Nov-2009
EDUCATION(S)	<ul style="list-style-type: none"><li>• (2007) UNIVERSITI PUTRA MALAYSIA IJAZAH DOKTOR FALSAFAH STRUKTUR BIOLOGI</li><li>• (2000) UNIVERSITI PUTRA MALAYSIA IJAZAH SARJANA MUDA SAINS MIKROBIOLOGI</li><li>• (1995) SMK PEREMPUAN, PASIR MAS SPM</li></ul>
GROUP OF EXPERTISE	<ul style="list-style-type: none"><li>• Biomolecular Structure and Function</li><li>• Enzyme Technology</li><li>• Fermentation Technology</li><li>• Industrial Microbiology</li><li>• Molecular Dynamics Simulation</li><li>• Molecular and Structural Biology</li></ul>
AWARD(S)	<ul style="list-style-type: none"><li>• Award Name: <b>Anugerah Perkhidmatan Cemerlang (APC) 2022 (2023)</b> Awarded by: Universiti Malaysia Kelantan</li><li>• Award Name: <b>Anugerah Jasa Universiti Tahun 2018 (2019)</b> Awarded by: Universiti Malaysia Kelantan</li><li>• Award Name: <b>Anugerah Perkhidmatan Cemerlang 2014 (2015)</b> Awarded by: Universiti Malaysia Kelantan</li><li>• Award Name: <b>Anugerah Perkhidmatan Cemerlang 2010 (2011)</b> Awarded by: Universiti Malaysia Kelantan</li><li>• Award Name: <b>ANUGERAH PENYELIDIK BERPOTENSI 2008 (2009)</b> Awarded by: UNIVERSITI MALAYSIA KELANTAN</li></ul>
WORKING EXPERIENCE(S)	
PROFESIONAL MEMBERSHIP(S)	

## B. TEACHING-LEARNING ACTIVITIES

	<ul style="list-style-type: none"><li>• BFT1014 - BIOCHEMISTRY AND MICROBIOLOGY</li><li>• BFT1033 - GENETICS AND MOLECULAR BIOLOGY</li><li>• BIT2103 - FERMENTATION AND ENZYME TECHNOLOGY</li><li>• BIT3133 - MICROBIAL TECHNOLOGY</li><li>• BPE3253 - AGRIBUSINESS AND ENTREPRENEURSHIP</li><li>• BPT2123 - POST HARVEST TECHNOLOGY</li><li>• BTT4173 - FOOD PRODUCTION AND SAFETY</li><li>• FFT1014 - BIOCHEMISTRY AND MICR BIOLOGY</li><li>• FFT1083 - MICROBIOLOGY</li></ul>
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<b>COURSES TAUGHT</b>	<ul style="list-style-type: none"> <li>• FIE2193 - MOLECULAR BIOLOGY</li> <li>• FIE3153 - BIOPRODUCT DEVELOPMENT</li> <li>• FIE4163 - BIOINDUSTRIAL WASTE MANAGEMENT</li> <li>• FIT2093 - DOWNSTREAM PROCESSES</li> <li>• FIT2103 - FERMENTATION AND ENZYME TECHNOLOGY</li> <li>• FIT2133 - MICROBIAL FERMENTATION TECHNOLOGY</li> <li>• FIT3103 - ENZYME TECHNOLOGY</li> <li>• FIT3133 - MICROBIAL TECHNOLOGY</li> <li>• FIT3223 - RESEARCH PROJECT I</li> <li>• FIT4218 - INDUSTRIAL TRAINING</li> <li>• FIT4233 - RESEARCH PROJECT II</li> <li>• FTE3173 - FOOD PRODUCTION &amp; SAFETY</li> <li>• JBT21003 - PRINCIPLE OF MICROBIOLOGY</li> <li>• JFT20302 - STUDENT IN ENTERPRISE PROGRAMME</li> </ul>
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## C. RESEARCH AND DEVELOPMENT

<b>JOURNAL(S)</b>	<ol style="list-style-type: none"> <li>1. Affidah Mardziah Mukhtar, Julie Juliewatty Mohamed, Noor Azlina Ibrahim, Teo, Pao Ter, Omar Hamza. (2024). Microbial Use as an Agent to Improve the Durability of Sub-Structure Concrete: A Comprehensive Structured Review. <i>Journal of Advanced Research in Micro and Nano Engineering (ARMNE)</i>, Vol. 26. <a href="https://doi.org/10.37934/armne.26.1.123136">https://doi.org/10.37934/armne.26.1.123136</a></li> <li>2. Ng, Ton Chie, Asanah Radhi, Ainihayati Abdul Rahim, Wee, Seng Kew, Noor Azlina Ibrahim. (2024). Eco-friendly Enzymatic Dehairing of Cowhide Using Thermostable Alkaline Serine Protease 50a. , Vol. 131. <a href="https://doi.org/10.1051/bioconf/202413105032">https://doi.org/10.1051/bioconf/202413105032</a></li> <li>3. Noor Azlina Ibrahim, Nurul Shafiq Zahari, Ainihayati Abdul Rahim, Wan Suriyani Faliq Adeeba Wan Ibrahim. (2023). Characterization of Immobilized Thermostable Alkaline Protease 50a using Calcium Alginate. <i>International Journal of Electroactive Materials</i>, Vol. 11, pp. 77-82.</li> <li>4. Khamis, N, Rahim, AA, Ibrahim N.A., Pahirulzaman, K.A.K.. (2022-03). Microbial Surfactants: Classifications, Properties, Recovery, and Applications. <i>JURNAL TEKNOLOGI-SCIENCES &amp; ENGINEERING</i>, Vol. 84 (2), pp. 35-45. <a href="https://doi.org/10.11113/jurnalteknologi.v84.16477">https://doi.org/10.11113/jurnalteknologi.v84.16477</a></li> <li>5. Nurul Athirah Mohd Zuki, Siti Sarah Mohamad Kamal, Nik Kamaruzaman Nik Qalbee, Hasnita Che Harun, Noor Azlina Ibrahim, Khairiyah Mat, Nor Dini Rusli, Mohd Mahmud, Noraini Samat, Syed Muhammad Al-Amsyar. (2020). Optimisation of Protease-Treated Black Soldier Fly Larvae (BSFL) using Response Surface Methodology (RSM) for Broiler Feed. <i>IOP Conference Series: Earth and Environmental Science</i>, Vol. 596, pp. 1-8. <a href="https://doi.org/10.1088/1755-1315/596/1/012086">https://doi.org/10.1088/1755-1315/596/1/012086</a></li> <li>6. Noor Azlina Ibrahim, Siti Zawayah Abd Azid, Syed M. Al-Amsyar. (2019). Eco-friendly enzymatic dehairing on animal hides. . <a href="https://doi.org/10.1063/1.5089323">https://doi.org/10.1063/1.5089323</a></li> </ol>
<b>PROCEEDING(S)</b>	<ol style="list-style-type: none"> <li>1. Ibrahim N., Hasnita Che Harun, Noor Azlina Ibrahim. (2025-02-25). Optimization of culture conditions for the expression of recombinant thermostable alkaline protease 50a. In <i>AIP Conference Proceedings</i>. American Institute of Physics. <a href="https://doi.org/10.1063/5.0259263">https://doi.org/10.1063/5.0259263</a></li> <li>2. Asanah Radhi, Hisham N.I.B., Noor Azlina Ibrahim, Wan Suriyani Faliq Adeeba Wan Ibrahim. (2025-02-25). Preparation and characterization of home-made soap from Sacha Inchi oil. In <i>AIP Conference Proceedings</i>. American Institute of Physics. <a href="https://doi.org/10.1063/5.0259068">https://doi.org/10.1063/5.0259068</a></li> <li>3. Noor Azlina Ibrahim, Lim, Shi En, Ainihayati Abdul Rahim, Wee, Seng Kew. (2025-02-25). Screening and characterization amylase producing bacteria. In <i>AIP Conference Proceedings</i>. AIP Publishing LLC. <a href="https://doi.org/10.1063/5.0259264">https://doi.org/10.1063/5.0259264</a></li> <li>4. Wan Suriyani Faliq Adeeba Wan Ibrahim, Noor Azlina Ibrahim, Zubaidah Aimi Abdul Hamid, Nurul Akmar Che Zaudin, Asanah Radhi, Nur Sakinah Mohamed Tamat. (2024). SOAP: Sanitation Outreach Awareness Program. In <i>SULAM Innovate Showcase &amp; Symposium (SUISS 2024)</i>, pp. 89-92. UMK Press.</li> <li>5. Al-Amsyar, S.M., Yee L.S., Azian A.I., Zuki N.A.M., Ibrahim N.A., Mat, K., Rusli N.D., Hasnita, C.H., Mahmud, M.. (2022). Improving protein hydrolysis of black soldier fly larvae (BSFL) content by using basic salts treatment. In <i>AIP Conference Proceedings</i>. American Institute of Physics Inc.. <a href="https://doi.org/10.1063/5.0078651">https://doi.org/10.1063/5.0078651</a></li> <li>6. Al-Amsyar, S.M., Zuki N.A.M., Ibrahim N.A., Mat, K., Rusli N.D., Hasnita, C.H., Mahmud, M., Samat N.. (2022). Salts, protease and their synergistic effect as catalysts in protein hydrolysis of black soldier fly larvae (<i>Hermetia illucens</i>). In <i>AIP Conference Proceedings</i>. American Institute of Physics Inc.. <a href="https://doi.org/10.1063/5.0078650">https://doi.org/10.1063/5.0078650</a></li> <li>7. Ibrahim N., Harun H.C., Ibrahim N.A.. (2022-06). Cloning and expression of thermostable alkaline protease 50a in <i>E. coli</i> BL21 (DE3) and TOP10. In <i>2021 International Conference on Bioengineering and Technology, IConBET2021</i>. American Institute of Physics Inc.. <a href="https://doi.org/10.1063/5.0078673">https://doi.org/10.1063/5.0078673</a></li> <li>8. Nawawi, S.A., Muniandy I., Fauzi N.M., Nor, A.N.M., Ibrahim N.A., Jamil R.M., Aziz H.A., Nawawi R., Ya'acob, S. H., Nazarie W.N.F.W.M.. (2022). Awareness and practices on Municipal solid waste management among students at University Malaysia Kelantan Jeli Campus. In <i>IOP Conference Series: Earth and Environmental Science</i>. Institute of Physics. <a href="https://doi.org/10.1088/1755-1315/1102/1/012007">https://doi.org/10.1088/1755-1315/1102/1/012007</a></li> <li>9. Rahim, A. A., Ibrahim N.A., Ishak F.N., Mean L.J., Muliana Ayub N.A., Fazilah N.N.. (2021-05). Investigation of newly isolated methylobacterium sp. as potential biofertilizer. In <i>IOP Conference Series: Earth and Environmental Science</i>, pp. 1 - 9. IOP Publishing Ltd. <a href="https://doi.org/10.1088/1755-1315/765/1/012063">https://doi.org/10.1088/1755-1315/765/1/012063</a></li> <li>10. Khamis, N., Rahim, A. A., Ibrahim N.A., Zaman, K.A.K.P.. (2020-12-28). Characterization of biosurfactant production by indigenous bacteria from Sungai Dungun estuary, Terengganu by surface activity and emulsification test. In <i>International Conference on Science and Technology 2020, ICoST 2020</i>. IOP Publishing Ltd. <a href="https://doi.org/10.1088/1755-1315/596/1/012003">https://doi.org/10.1088/1755-1315/596/1/012003</a></li> <li>11. Ibrahim N.A., Ibrahim N., Lizawardi N.S.R., Fauzi N.F.I., Al-Amsyar, S.M.. (2020-12-28). Production and application of thermostable protease 50a as liquid protein stain remover. In <i>International Conference on Science and Technology 2020, ICoST 2020</i>. IOP Publishing Ltd. <a href="https://doi.org/10.1088/1755-1315/596/1/012012">https://doi.org/10.1088/1755-1315/596/1/012012</a></li> </ol>

BOOK(S)	<ol style="list-style-type: none"> <li>1. Ikarastika Rahayu Abdul Wahab, Nazahatul Anis Amaludin, Noor Azlina Ibrahim, Nurul Hafizah Mohd Yasin. (2025). The Art of Supervision: Strategies for Effective Mentorship. UMK Corporate Publications.</li> </ol>
CHAPTER(S)	<ol style="list-style-type: none"> <li>1. Noor Azlina Ibrahim, Nur Amirah Syahirah Ibrahim, Syed Muhammad Al-Amsyar, Ibrahim, Normazzaliana, Rahim, Ainihayati Abdul, Mohammad,R.. (2022). The effect of detergent ingredients on stability of thermostable alkaline protease 50a in formulation of liquid stain remover. . American Institute of Physics Inc.. <a href="https://doi.org/10.1063/5.0078671">https://doi.org/10.1063/5.0078671</a></li> <li>2. Teo Pao Ter, Muhammad Najmi Mohd Masri, Mardawani Mohamad, Nor Hakim Abdullah, Arlina Ali, Tan Tse Guan, Noor Azlina Ibrahim, Sarizam Mamat, Mahani Yusoff, Mohamad Bashree Abu Bakar, Siti Koriah Zakaria. (2021). Chapter 5: New-norm of materials technology's online live lecture assisted with structured mind-mapping. In Synchronous@real-time online interaction (pp. 27-30). UMK Press.</li> <li>3. Pao Ter Teo, Muhammad Najmi Mohd Masri, Mardawani Mohamad, Nor Hakim Abdullah, Arlina Ali, Tan, Tse Guan, Noor Azlina Ibrahim, Sarizam Mamat, Mahani Yusoff, Siti Koriah Zakaria. (2021). Chapter 4: ROAD TO F.R. C: IMPLEMENTATION OF `JOB INTERVIEW APPROACH¿ AS HIEPS COLLABORATIVE LEARNING STRATEGY FOR MODERN MATERIALS TECHNOLOGY¿S LECTURE. In Eclecticious Approach In Learning (pp. 21-26). UMK Press.</li> </ol>
OTHER(S)	<ol style="list-style-type: none"> <li>1. Wan Suriyani Faliq Adeeba Wan Ibrahim, Muhammad Azwadi Sulaiman, Sarizam Mamat, Nor Hakim Abdullah, Nur Sakinah Mohamed Tamat, Boon, Jia Geng, Asanah Radhi, Noor Azlina Ibrahim, Mahani Yusoff, Sitti Fatimah Mhd Ramle, Rosmawani Mohammad, Teo Pao Ter, Ainihayati Abdul Rahim. (2024-05). Refleksi FBKT 2023. Penerbitan Korporat UMK Bahagian Penerbitan dan Pengurusan Laman Web Pusat Komunikasi Korporat Pejabat Naib Canselor Universiti Malaysia Kelantan 16100 Bachok Kelantan Darul Naim.</li> <li>2. Mohd Zuki N.A., Ibrahim N.A., Mat, K., Rusli N.D., Hasnita, C.H., Mahmud, M., Samat N., Al-Amsyar, S.M.. (2021-05). Hybrid treatment of black soldier fly larvae (<i>Hermetia illucens</i>) as a sustainable and efficient protein source in poultry diets. IOP Publishing Ltd. <a href="https://doi.org/10.1088/1755-1315/756/1/012031">https://doi.org/10.1088/1755-1315/756/1/012031</a></li> </ol>
RESEARCH(S)	<ol style="list-style-type: none"> <li>1. 3D PRINTING OF UV-CURABLE POLYURETHANE INCORPORATED WITH GRAPHENE OXIDE-AG NANOCOMPOSITE FILM   MEMBER   UMKRS   2020</li> <li>2. CHARACTERIZATION OF THERMOSTABLE ALKALINE PROTEASE 50A AS A LAUNDRY DETERGENT ADDICTIVE   HEAD   RAGS   2012</li> <li>3. DEVELOPMENT PROTEIN STAIN REMOVER CONTAINING PROTEASE   HEAD   UMK-FUND   2020</li> <li>4. DETECTION OF NOVEL THERMOSTABLE PROTEASE GENE FROM METAGENOMIC DNA   MEMBER   SGJP MYRA USM   2017</li> <li>5. ESTABLISHMENT OF ENDOPHYTIC FUNGI ISOLATED FROM MEDICINAL HERB CURCUMA MANGA FOR USE IN ANTIBIOTIC THERAPY   MEMBER   RAGS   2013</li> <li>6. ELUCIDATION OF TRANPOSON MEDIATED FOR ENHANCED PRODUCTION OF BIOSURFACTANT   MEMBER   SGPL-MYRA   2016</li> <li>7. ELUCIDATION OF PHYSIOLOGICAL AND MOLECULAR CHARACTERISTIC OF LOCALLY ISOLATED PLANT GROWTH PROMOTING PINK PIGMENTED FACULTATIVE METHYLOTROPHS (PPFMS) METHYLOBACTERIUM SPP. FOR POTENTIAL BIOTECHNOLOGICAL APPLICATIONS IN SUSTAINABLE AGRICULTURE.   MEMBER   FRGS   2020</li> <li>8. ENZYMATIC LAUNDRY DETERGENT FORMULATION CONTAINING THERMOSTABLE PROTEASE   HEAD   PRGS   2015</li> <li>9. EVALUATING THE WASHING PERFORMANCE OF ENZYMATIC DETERGENT CONTAINING THERMOSTABLE PROTEASE   HEAD   SGPL-MYRA   2016</li> <li>10. MENGITAR SEMULA SISA BUANGAN POLIETER KEPADA KLOOROESTER MELALUI PENDEPOLIMERAN BERMANGKIN   MEMBER   SGJP   2017</li> <li>11. OPTIMIZATION OF DYE REMOVAL USING CASUARINA EQUISETIFOLIA AS PACKING MEDIA FOR BIOFILM PROCESS   MEMBER   UMK-FUND   2020</li> <li>12. OPTIMIZATION OF ENZYME COMBINATIONS FOR BIO RETTING PROCESSING ON KENAF BAST FIBER IN INTEGRATED KENAF BIO-PROCESSING SYSTEM - BIOZYME ULTIMATE DEBARK UNIT (BUDU)   MEMBER   SGJP   2017</li> <li>13. PATHOGENIC BACTERIA IN LOCAL FISH SAUCE (BUDU)   HEAD   FRGS   2010</li> <li>14. PROJEK LATIHAN PENANAMAN POKOK SACHA INCHI DAN KEPADA GOLONGAN B40 DI JAJAHAN JELI   HEAD   UMKSIR   2021</li> <li>15. PROTEASE-TREATED BLACK SOLDIER FLY LARVAE (PT-BSFL) AS SUSTAINABLE ALTERNATIVE PROTEIN SOURCE FOR POULTRY FEED   MEMBER   FRGS   2020</li> <li>16. REACTION MECHANISM AND KINETIC ESTABLISHMENT OF ULTRASOUND AND ENZYME-MEDIATED ON THE EXTRACTION OF BIOACTIVE ALKALOIDS FROM CHROMOLAENA SP.   MEMBER   FRGS   2020</li> <li>17. EPANDUAN PEMBANGUNAN PRODUK BERASAKAN-BIO UNTUK PELAJAR DAN KOMUNITI MELALUI SERVICE-LEARNING PROJEK   MEMBER   UMK-TELRIC   2022</li> </ol>
SUPERVISION	<ul style="list-style-type: none"> <li>• <b>AN INTEGRATED ICENAF BIO-PROCESSING SYSTEM ¿ BIOZYME ULTIMATE DEBARK UNIT (BUDU)   CO SUPERVISOR FOR A PHD'S STUDENT</b></li> <li>• <b>IDENTIFICATION OF PREGNANCY-SPECIFIC PROTEIN B (PSPB) IN KEDAH-KELANTAN CATTLE BY PARTIAL PURIFICATION OF PLACENTA COTYLEDON EXTRACTION   CO SUPERVISOR FOR A MASTER'S STUDENT</b></li> <li>• <b>SUMBANGAN PENYERAPAN KARBON KE ATAS KONKRIT RINGAN BERTETULANG   CO SUPERVISOR FOR A PHD'S STUDENT</b></li> </ul>
	<ul style="list-style-type: none"> <li>• Product Name: K-Biozyme: Integrated Design of Kenaf Processing and Recovery System Award: GOLD</li> </ul>

<b>RESEARCH AWARD (S)</b>	<ul style="list-style-type: none"> <li>Role: Member Exhibition Name:EREKA</li> <li>• Product Name: Empowering Community Through Student Service Learning in Activated Carbon Production Award: GOLD Role: Member Exhibition Name:International Teaching Enhancement and Learning Innovation Carnival 2023</li> <li>• Product Name: K-Biozyme: Integrated design of Kenaf processing and recovery system Award: GOLD Role: Member Exhibition Name:Geneva Inventions</li> <li>• Product Name: A novel Biodegradable composite from agriculture waste for drug delivery Award: GOLD Role: Member Exhibition Name:Malaysia Technology Expo (MTE 2021)</li> <li>• Product Name: Microbial Practical Skill using New Innovative Approach of Teaching Award: GOLD Role: Head Exhibition Name:International Teaching Enhancement and Learning Innovation Carnival 2023</li> <li>• Product Name: Integrated Design of Kenaf Processing and Recovery System Award: GOLD Role: Member Exhibition Name:Malaysia Technology Expo 2020</li> <li>• Product Name: Herbal Anti Inflammatory Agents for Skin Award: GOLD Role: Member Exhibition Name:eCRI 2020</li> <li>• Product Name: A novel Biodegradable composite from agriculture waste for drug delivery Award: SPECIAL Role: Member Exhibition Name:Malaysia Technology Expo (MTE 2021)</li> <li>• Product Name: Integrated Design of Kenaf Processing and Recovery System Award: SPECIAL Role: Member Exhibition Name:Malaysia Technology Expo 2020</li> <li>• Product Name: K-Biozyme: Integrated Design of Kenaf Processing and Recovery System Award: SILVER Role: Member Exhibition Name:International Invention, Innovation and Technology Exhibition</li> <li>• Product Name: Microbiology Practical Skill using New Innovative Approach of Teaching Award: BRONZE Role: Head Exhibition Name:International University Carnival on E-Learning (IUCEL) 2023</li> <li>• Product Name: HZM Hollow Separator Award: BRONZE Role: Member Exhibition Name:eCRI 2020</li> <li>• Product Name: Protein stain remover Award: BRONZE Role: HEAD Exhibition Name:CRI 2020</li> </ul>
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#### D. CONSULTATION

<b>CONSULTATION(S)</b>	
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#### E. COMMUNITY SERVICES

<b>COMMUNITY SERVICES</b>	
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