

# CURRICULAM VITAE

Science, Technology and Innovation (STI) for UN SDGs  
Focusing on **Goal 2: Zero hunger**, **Goal 3: Good health and well-being for people** and  
**Goal 15: Life on land**

## 1. Personal & Service Particulars:

Name : Mohd Faizal B. **GHAZALI**  
IC No. : 820902-14-5449  
Date of Birth : 2nd September 1982  
Age : 40  
  
Race : Malay  
Marital Status : Married  
Nationality : Malaysian (ASEAN)  
  
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## • Formal Education History:

- SRJK (C) Chiao Nan, Setapak, Kuala Lumpur (1988-1994)
- SM Zon R1 Wangsa Maju, Setapak, Kuala Lumpur (1995-2000)
- Universiti Putra Malaysia, Serdang, Selangor (2001-2009)
- University of Glasgow, Scotland, UK (2011-2015)

## • Higher Academic Qualifications:

- Professional Technologist (Malaysia Board of Technologist)
- Doctor of Philosophy (University of Glasgow)
- Doctor of Veterinary Medicine (UPM)
- Diploma in Animal Health and Production (UPM)

## • Field of Specialization:

- Veterinary Public Health
- One Health Education
- Antimicrobial Resistant
- Veterinary Proteomics
- Livestock Production

**5. Current Research Areas/Topics:**

- Antimicrobial resistance in public health and livestock production
- One health education and promotion
- Detection of biomarkers and risk factors for zoonotic diseases
- Proteomic investigation of small ruminant mastitis
- Acute phase protein in caprine and ovine milk

**6. Achievements / Awards:**

- UniSZA Faculty Highest Publication Award - 2022
- UniSZA Excellence Service Award - 2019, 2020, 2021 and 2022
- OHCEA Travelling grant -2019
- MyOHUN Travelling grant -2019
- SEAOHUN Travelling grant - 2018 and 2022
- ISACP Travelling grant - 2014
- AVTRW President's commendation award - 2013
- J. Jerry Kaneko Young Investigator Award (ISACP) -2012
- Skim Latihan Akademik IPTA (SLAI) – 2010

**7. Brief Career History:**

- July 2020 – June 2022 – Chairman of UniSZA Animal & Plant Ethic Committee (UniSZA)
- May 2020 – April 2022 – Head of School (School of Animal Science, UniSZA)
- November 2017- 2018 – Deputy Director (Centre of Agriculture Management, UniSZA)
- October 2015- January 2017 - Deputy Director (Agropolis, UniSZA)
- March 2015- current - Senior Lecturer (FBIM, UniSZA)
- 2009-2015 - Tutor (Faculty of Bioresource and Food Industry, UniSZA)
- 2008-2009 - Field Veterinarian / Technical Advisor (Hybrid Allied and Glovet)

**8. Number of Students Supervised:**

| Program       | Status    | Single          |               | Committee     |             |
|---------------|-----------|-----------------|---------------|---------------|-------------|
|               |           | Main Supervisor | Co-Supervisor | As a Chairman | As a Member |
| PhD           | Graduated |                 | 1             |               |             |
|               | Ongoing   | 2               |               |               |             |
| Masters       | Graduated | 1               |               |               |             |
|               | Ongoing   |                 | 1             |               |             |
| Undergraduate | Graduated | 38              | 6             |               |             |
|               | Ongoing   | 3               |               |               |             |

**9. Teaching Experience**

2015 – present **Course coordinator**

Animal Diseases  
Veterinary Public Health  
Veterinary Practice  
Animal Behavior and Welfare  
Animal Anatomy

**Course co-coordinator**

Dairy Production  
Ruminant Production  
Animal Practice 1

## **10. Professional Societies:**

- *Member*| Association for Veterinary Teaching and Research Work (AVTRW) since 2011-2015
- *Member*| International Society for Animal Clinical Pathology (ISACP) since 2012 - 2017
- *Member*| Malaysia One Health University Network (MyOHUN) since 2015 - present
- *Member*| Veterinary Association Malaysia (VAM) since 2009 - present
- *Member*| Malaysian Veterinary Council (MVC) since 2009 – present
- *Member*| Royal College of Biology (RSB) since 2021 – present
- *Member*| Malaysian Board of Technologist (MBOT) since 2020 – present

## **11. Research Projects**

### **Project Leader**

- Scholarship Of Teaching & Learning (SoTL) from Universiti Sultan Zainal Abidin (UniSZA), Malaysia. Development Of Ruminant Body Condition Scoring Index Application As Teaching Aid For Animal Science Students. 01/10/2022- 30/09/2023. RM 8,100.00. SoTL/1/2012/STG05/UNISZA/02/3 -**ONGOING**
- Fundamental Research Grant Scheme (FRGS) from Ministry of Higher Education (MoHE) Malaysia. Elucidating the roles of Protease activated receptor-2 (PAR-2) in experimentally induced clinical mastitis in goats. 01/08/2017- 28/02/2020. RM 105,000.00. FRGS/1/2017/STG05/UNISZA/02/3 -**COMPLETED**
- Research Acculturation Grant Scheme (RAGS) from Ministry of Higher Education (MoHE) Malaysia. Proteomic analysis of caprine and ovine milk during experimentally induced subclinical mastitis. 01/12/2015–30/11/2017. RM 50,000.00. RAGS/1/2015/SG0/UNISZA/02/1 - **COMPLETED**
- University Research Grant (DPU), UniSZA. Clinical and molecular characterization of the causative agent of contagious ecthyma, the Parapoxvirus Orf virus, isolated from goats in Terengganu. 01/01/2010–31/12/2010. RM 35,000.00. UDM / 09 / BR (0013) -**COMPLETED**

### **Co-Researcher**

- The evaluation of caseous lymphadenitis (CLA) and its effect on milk production and milk quality in dairy goats 30/01/2023 – 29/01/2025. RM 60,000. Matching Grant UniSZA, Malaysia and AAU, Jordan. -**ONGOING**
- Assessment of acaricidal activity of *Senna alata* L. extracts against rabbit ear mite, *Psoroptes cuniculi*. 01/12/2022 - 30/11/2024. RM 20,000.00. UniSZA/2022/DPU1.0/05 -**ONGOING**
- Research Acculturation Grant Scheme (RAGS) from Ministry of Higher Education (MoHE) Malaysia. Acute phase proteins assessment in experimentally induced subclinical mastitis in goats. 01/12/2015–30/11/2017. RM 48,000.00. RAGS/1/2015/SG0/UNISZA/02/2 -**COMPLETED**
- Special Research Grant - 2015 (DKP) from Ministry of Higher Education (MoHE) Malaysia. Development of optimum pasture production system for small ruminants (goat and sheep) based on BRIS soil, using clump (perdu) planting system and selected pasture grass. 01/10/2015 –31/12/2015. RM 37,400.00. UNISZA/2015/DKP/21 -**COMPLETED**
- University Research Grant (DPU), UniSZA. A seroprevalance study of Caseous Lymphadenitis (CLA) in goat herds in Terengganu. 01/01/2010–31/12/2010. RM 14,000.00. UDM / 09 / BR (0014) -**COMPLETED**

## 12. Publications

### a. Theses

- i. Ghazali, M.F. (2015) **Biochemical and Proteomic Investigation of Bovine Nasal Secretion**. PhD thesis, University of Glasgow.
- ii. Ghazali, M.F. (2009) **Isolation, Propagation and Infectivity of Fowl Adenovirus of Malaysian Isolate in SPF Embryonated Chicken Eggs**. DVM thesis, Universiti Putra Malaysia.

### b. Manuscripts

- i. Chai M, Sukiman MZ, Kamarun Baharin AH, Ramlan I, Lai LZ, Liew Y, Malayandy P, Mohamad NM, Choong S, Ariffin SMZ, **Ghazali MF** (2022). "Methicillin-Resistant *Staphylococcus aureus* from Peninsular Malaysian Animal Handlers: Molecular Profile, Antimicrobial Resistance, Immune Evasion Cluster and Genotypic Categorization." *Antibiotics*.
- ii. M.H. Chai, T.A.M. Faiq, S.M.Z. Ariffin, M.Z. Sukiman and **M.F. Ghazali** (2022). "Investigation of Serum and Milk Acute Phase Proteins Level in Goats with Experimentally Infected *Staphylococcus aureus* Subclinical Mastitis." *Journal of Animal Health and Production*
- iii. M. H. Chaia, M. Z. Sukiman, N. Jasmy, N. A. Zulkifly, N. A. S. Mohd Yusof, N. M. Mohamad, S. M. Z. Ariffin, & **M. F. Ghazali** (2022). "Molecular Detection and Antibigram of ESBL-Producing and Carbapenem-Resistant *Escherichia coli* from Rabbit, Swine, and Poultry in Malaysia". *Tropical Animal Science Journal*
- iv. Chai MH, Sukiman MZ, Najib NM, Mohabbar NA, Azizan NANM, Mohamad NM, Ariffin SMZ, **Ghazali MF**. (2021). "Molecular detection and antibiogram of *Staphylococcus aureus* in rabbits, rabbit handlers, and rabbitry in Terengganu, Malaysia." *J Adv Vet Anim Res*
- v. M.H. Chai, E.M. Abdul Majid, S.M.Z., Ariffin, N.M. Najib, N.A. Mohabbar, M.Z. Sukiman and **M.F. Ghazali** (2021). 'Molecular identification of multidrug- *Staphylococcus aureus* (MDRSA) carriage and pattern of antibiotic resistance from rabbit, rabbit handler and rabbitry in the east coast region of Malaysia' *Bioscience Research*.
- vi. M.H. Chai, T.A.M. Faiq, S.M.Z. Ariffin, Z. Suhaili, M.Z. Sukiman and **M.F. Ghazali** (2020). 'Prevalence and antimicrobial sensitivity pattern of *Staphylococcus aureus* isolated from clinical and subclinical mastitis in small ruminant in Besut and Setiu, Terengganu, Malaysia' *Malaysian Journal of Microbiology*
- vii. M.H. Chai, T.A.M. Faiq, S.M.Z. Ariffin, Z. Suhaili, M.Z. Sukiman and **M.F. Ghazali** (2020). 'Prevalence of MRSA in Raw Goat Milks from Selected Farms in Terengganu, Malaysia.' *Tropical Animal Science Journal*
- viii. Ariffin, S.M.Z., M Faiq, T.A., Chai, M.H., Sukiman, M.Z. and **Ghazali, M.F.** 'Prevalence and antibiotic susceptibility pattern of *Staphylococcus aureus*, *Streptococcus agalactiae* and *Escherichia coli* in goats with clinical and subclinical mastitis' *Journal of Animal Health and Production*, 2019, MH20181231021237-R27(1):32 3
- ix. Suhaili Z., Yeo C.C., **Ghazali M.F.**, Chew C.H., Zakaria Z.A., Al-Obaidi M.J., Nordin S.A. and Nasir M.D. 'Nasal colonization, antimicrobial susceptibility and genotypic pattern of *Staphylococcus aureus* among agricultural biotechnology students in Besut, Terengganu, east coast of Malaysia' *Tropical Medicine and International Health*, 2018, pp. 905- 913, ISSN: 13602276
- x. **MF Ghazali**, HHC Koh-Tan, M McLaughlin, P Montague, NN Jonsson and PD Eckersall 'Alkaline phosphatase in nasal secretion of cattle: biochemical and molecular characterization' *BMC Veterinary Research*, 2014, 10 (1), 204

### c. Proceedings

- I. M.H. Chai, M.Z. Sukiman, F.S. Roslan, N.M. Mohamad., S.M.Z. Ariffin and **M.F. Ghazali** (2022). Molecular Characterization of Multidrug-Resistant *Staphylococcus aureus* (MDRSA) From Livestock and Companion Animals in Peninsular Malaysia in Malaysia in 13<sup>th</sup> MAVP 2022 Scientific Conference
- II. M.H. Chai, M.Z. Sukiman, Y.F. Chan, Y.W. Liew, L.Z.H. Lennard, N.M. Mohamad., S.M.Z. Ariffin and **M.F. Ghazali** (2022). Antibigram and Molecular Analysis of MRSA And MDRSA Isolated from Finisher Pigs in Malaysia in 13<sup>th</sup> MAVP 2022 Scientific Conference

- III. M.H. Chai, N.I.A. Roslan, F.S. Roslan, M.N. Lani., S.M.Z. Ariffin and **M.F. Ghazali** (2022). Antibigram And Prevalence of Antimicrobial Resistance Genes in Escherichia coli Isolated from Stray and Abandoned Cats (*Felis catus*) In Terengganu, Malaysia in 13<sup>th</sup> MAVP 2022 Scientific Conference
- IV. M.H. Chai, S.M.Z. Ariffin and **M.F. Ghazali** (2022). Antibigram and AMR Genes Repertoire of MDRSA and MRSA from Animal and Human in Malaysia in 2<sup>nd</sup> SEAOHUN 2022 International Conference
- V. A. Daud, S.S. Choong and **M.F. Ghazali** (2022). Malaysia One Health University Network - One Health Young Leaders and Communicators (MYOHUN-OHYLC) in 2<sup>nd</sup> SEAOHUN 2022 International Conference
- VI. M.H. Chai, S.S. Choong, S.M.Z. Ariffin and **M.F. Ghazali** (2022). MRSA From Peninsular Malaysian Animal Handlers: Molecular Profile, Antibigram, Immune Evasion Cluster and Genotypic Categorization in 2<sup>nd</sup> SEAOHUN 2022 International Conference
- VII. M.H. Chai, M.Z. Sukiman, S.M.Z. Ariffin and **M.F. Ghazali** (2022). Antibigram And Prevalence Of ESBL-Producing and Carbapenem-Resistant *E. Coli* Among Healthy Chicken, Rabbit and Swine in Malaysia in 2<sup>nd</sup> SEAOHUN 2022 International Conference
- VIII. M.H. Chai, S.M.Z. Ariffin and **M.F. Ghazali** (2022). Detection, Antibigram and Molecular Profiling of Multidrug Resistant *E. coli* in Sewage Water in Terengganu, Malaysia in 2<sup>nd</sup> SEAOHUN 2022 International Conference
- IX. M.H. Chai, S.M.Z. Ariffin and **M.F. Ghazali** (2022). Knowledge, Attitude and Practice of Animal Handlers Towards Antibiotic Usage and Antibiotic Resistance in Peninsular Malaysia in 2<sup>nd</sup> SEAOHUN 2022 International Conference
- X. S.M.Z. Ariffin, M.H. Chai, M.Z. Sukiman and **M.F. Ghazali** (2020). Prevalence and molecular characterization of MSSA and MRSA among UniSZA undergraduate students in Besut, Terengganu in 19<sup>th</sup> International Congress on Infectious Diseases (ICID)
- XI. M.H. Chai, T.A.M. Faiq, S.M.Z. Ariffin, Z. Suhaili, M.Z. Sukiman and **M.F. Ghazali** (2020). Prevalence of Carbapenem- resistant Escherichia coli (CREC) within farm animals in Malaysia in 19<sup>th</sup> International Congress on Infectious Diseases (ICID)
- XII. M.H. Chai, T.A.M. Faiq, S.M.Z. Ariffin, Z. Suhaili, M.Z. Sukiman and **M.F. Ghazali** (2020). Prevalence and molecular characterization of MSSA and MRSA among animal handlers in peninsular Malaysia in 19<sup>th</sup> International Congress on Infectious Diseases (ICID)
- XIII. Zainurin, N.A., Chai, M.H., Sukiman, M.Z., Ariffin, S.M.Z. and **Ghazali, M.F.**, (2019) Prevalence of Carbapenem- Resistant Escherichia coli Among Animal Science Students in UniSZA, Terengganu. In: International Congress on One Health 2019 proceedings. 24-28th July 2019. Putrajaya, Malaysia.
- XIV. Chai, M.H., Ariffin, S.M.Z., Suhaili, Z., M Faiq, T.A., and **Ghazali, M.F.**, (2019) Prevalence of MRSA Among Farm Workers and Veterinary Staffs in Terengganu, Malaysia. In: 3rd OHCEA International One Health Conference 2019 proceedings. 24-26th July 2019. Kampala, Uganda.
- XV. Chai, M.H., Ariffin, S.M.Z., Suhaili, Z., M Faiq, T.A., and **Ghazali, M.F.**, (2018) Prevalence of MRSA in Goat and Sheep Milk in Terengganu. In: Seaoahun 2018 International Conference proceedings. 12-15th November 2018. Hanoi, Vietnam.
- XVI. M Faiq, T.A., **Ghazali, M.F.**, Chai, M.H. and Ariffin, S.M.Z. (2017) Isolation of Staphylococcus aureus: clinical and subclinical mastitis infections in sheep and dairy Goats. In: 29th Veterinary Association Malaysia Congress 2017 proceedings. 6-8th October 2017. Shah Alam, Malaysia.
- XVII. Chai, M.H., Ariffin, S.M.Z., Suhaili, Z., M Faiq, T.A. and **Ghazali, M.F.** (2017) Prevalence of MRSA in Goat's Milk from Selected Dairy Goat Farms in Besut and Setiu, Terengganu. In: 29th Veterinary Association Malaysia Congress 2017 proceedings. 6-8th October 2017. Shah Alam, Malaysia.

#### d. Final Year Projects Thesis

- i. NS Sharifuddin and **MF Ghazali** (2020) Analysis of PAR-2 mRNA expression in mammary gland of healthy and mastitic goat using real-time PCR (qPCR). Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
- ii. YW Liew and **MF Ghazali** (2020) Detection of immune evasion cluster (IEC) genes from Staphylococcus aureus isolated from human and animals in peninsular Malaysia. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
- iii. SN Hashim and **MF Ghazali** (2020) Knowledge, attitude and practices towards zoonoses and antimicrobial resistance among university students and animal handlers. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
- iv. LZH Lennard and **MF Ghazali** (2020) Detection and distribution of Tetracycline resistance

- genes in *Staphylococcus aureus* from human and animal isolates. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
- v. FS Roslan and **MF Ghazali** (2020) Antibigram of Methicillin susceptible *Staphylococcus aureus* (MSSA) and Methicillin resistance *Staphylococcus aureus* (MRSA) isolated from UniSZA (Besut campus) and UMK (FVM campus) students. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
  - vi. I Ramlan and **MF Ghazali** (2020) Antibigram of Methicillin susceptible *Staphylococcus aureus* (MSSA) and Methicillin resistance *Staphylococcus aureus* (MRSA) isolated from animal handlers in Malaysia. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
  - vii. AH Kamarun Baharin and **MF Ghazali** (2020) Prevalence of *Staphylococcus aureus* and Methicillin resistance *Staphylococcus aureus* in nasal and oral swab from animal handlers in Malaysia. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
  - viii. MS Shapawi and **MF Ghazali** (2020) Prevalence of *Staphylococcus aureus* and Methicillin resistance *Staphylococcus aureus* (MRSA) in nasal and oral swab from UniSZA (Besut campus) and UMK (FVM campus) students. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
  - ix. N Jasmy and **MF Ghazali** (2020) Detection and antimicrobial susceptibility pattern of Carbapenem-resistant *Escherichia coli* from domestic rabbit in Terengganu. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
  - x. NAN Mohd Azizan and **MF Ghazali** (2020) Prevalence of *Staphylococcus aureus* and Methicillin resistance *Staphylococcus aureus* (MRSA) from environment. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
  - xi. N Mohammad Najib and **MF Ghazali** (2020) Detection, isolation and antibiotic resistance pattern of Methicillin susceptible *Staphylococcus aureus* (MSSA) and Methicillin resistance *Staphylococcus aureus* (MRSA) in nasal and oral swab of rabbit handler. Final Year Project for Bachelor degree of Animal Production and Health, UniS
  - xii. NA Mohabbar and **MF Ghazali** (2020) Prevalence of Methicillin susceptible *Staphylococcus aureus* (MSSA) and Methicillin resistance *Staphylococcus aureus* (MRSA) in *Oryctolagus cuniculus*. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
  - xiii. P Malayandy and **MF Ghazali** (2019) Prevalence of Methicillin resistance *Staphylococcus aureus* (MRSA) among veterinary staffs and farm workers in Terengganu. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
  - xiv. NA Mohamad Apandi and **MF Ghazali** (2019) Prevalence of Methicillin resistance *Staphylococcus aureus* (MRSA) in raw goat milk from Terengganu. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
  - xv. NSM Zaidi and **MF Ghazali** (2019) Prevalence of Methicillin resistance *Staphylococcus aureus* (MRSA) in nasal swab from small ruminant in Terengganu. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
  - xvi. NAS Mohd Yusof and **MF Ghazali** (2019) Detection of Carbapenem resistant *Escherichia coli* in broiler from abattoir in Besut, Terengganu. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
  - xvii. SA Abdul Rahman and **MF Ghazali** (2019) Detection of Carbapenem-resistant *Escherichia coli* (CREC) from small ruminant in Terengganu. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
  - xviii. NA Zulkifly and **MF Ghazali** (2019) Prevalence of Carbapenem-resistant *Escherichia coli* (CREC) recovered from swine in Perak. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
  - xix. NA Zainurin and **MF Ghazali** (2019) Prevalence of Carbapenem-resistant *Escherichia coli* collected from fecal swab of animal science undergraduate UniSZA, Terengganu. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
  - xx. E Azni and **MF Ghazali** (2018) Detection and Isolation of *Staphylococcus aureus* and nuc Gene in Raw Milk and Nasal Swab from Dairy Goat in Kuala Terengganu and Besut. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
  - xxi. HM Zin and **MF Ghazali** (2018) Antibiotic Susceptibility of *Staphylococcus aureus* Isolated in Raw Milk and Nasal Swab from Dairy Goat in Kuala Terengganu. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.

- xxii. NA Abdul Hakim and **MF Ghazali** (2018) Detection of *mecA* Gene for The Prevalence of MRSA in Goat Milk and Nasal Swab in Kuala Terengganu. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
- xxiii. YF Chan and **MF Ghazali** (2017) Prevalence of Livestock-associated MRSA in Pigs. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
- xxiv. NF Razali and MF Ghazali (2016) The Relationship of Body Measurement to Body Weight in Sheep. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
- xxv. R Zainudin and **MF Ghazali** (2016) Haematology and Serum Biochemistry of Dorper and Barbados Blackbelly Sheeps. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
- xxvi. NNA Ahmad Mawardi Yusoff and **MF Ghazali** (2016) Relationship of Body Measurement to Body Weight in Brahman Cattle. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA. (Best award for Final Year Project 2016)
- xxvii. ZAM Zulkufli and **MF Ghazali** (2016) Behavioral Observation of Captive Asian Elephant (*Elephas maximus*) in Taiping Zoo, Perak. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.
- xxviii. NA Ismail and **MF Ghazali** (2016) Blood Biochemistry and Haematology Investigation of River Terrapin (*Batagur affinis*) and Painted Terappin (*Callagur borneoensis*) in Wildlife Conservation Centre Bota Kanan, Perak. Final Year Project for Bachelor degree of Animal Production and Health, UniSZA.

### **13. Referees**

#### **Professor Dr. David Eckersall**

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#### **Professor Dato' Dr. Mohd Hair Bejo**

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#### **Professor Dr. Abdul Rahman Omar**

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