



BAHAGIAN PENGURUSAN SUMBER MANUSIA UNIVERSITI PENDIDIKAN SULTAN IDRIS

GARIS PANDUAN PELAKSANAAN EXPERT@UPSI SECARA *ONLINE* BAGI STAF AKADEMIK UNIVERSITI PENDIDIKAN SULTAN IDRIS

1.0 TUJUAN

Garis panduan ini adalah bertujuan untuk memaklumkan mengenai penambahbaikan maklumat *Curriculum Vitae* (CV) secara *online* yang sedia ada bagi staf akademik Universiti Pendidikan Sultan Idris (UPSI).

2.0 LATAR BELAKANG

- 2.1 *CV-Online* sedia ada telah digunapakai sejak tahun 2005. Sejarar dengan usaha untuk melaksanakan transformasi dan inovasi dalam perkhidmatan, maka Jawatankuasa Pengurusan Universiti (JKPU) Bil. 12 Tahun 2021 telah bersetuju penambahbaikan ke atas *CV-online* dibuat mengikut kesesuaiannya pada masa kini dan penjenamaan semula *CV-online* kepada EXPERT@UPSI.
- 2.2 EXPERT@UPSI merupakan informasi terperinci mengenai data diri pegawai yang boleh menggambarkan pengalaman akademik dan profesional individu tersebut. Ianya disediakan secara dalam talian (*online*) bagi membolehkan maklumat pegawai dapat diakses dan dimuat turun oleh pegawai itu sendiri ataupun pihak luar bagi tujuan bekerjasama dalam apa juga bidang mengikut kepakaran pegawai tersebut.
- 2.3 Paparan EXPERT@UPSI yang baharu ini telah dibangunkan oleh Pusat Teknologi Maklumat dan Komunikasi (Pusat ICT) dengan kerjasama daripada Bahagian Sumber Manusia (BSM), Pusat Pengurusan Penyelidikan dan Inovasi (RMIC), Perpustakaan Tuanku Bainun (PTB), Fakulti Seni Kreatif dan Komputeran (FSKIK), Institut Pengajian Siswazah (IPS) dan Bahagian Hal Ehwal Akademik (BHEA).
- 2.4 Penambahbaikan ini merupakan fasa pertama (Fasa 1) dan berfokus kepada CV bagi staf akademik. Manakala bagi staf bukan akademik, penambahbaikan CV akan dibuat pada fasa selanjutnya.

- 2.5 Jawatankuasa Teknikal dan Jawatankuasa Induk Pembangunan EXPERT@UPSI telah ditubuhkan bagi melancarkan urusan pembangunannya dan kedua-dua jawatankuasa ini merupakan medium untuk membincangkan dan memutuskan penambahbaikan yang telah dan akan dilakukan pada masa akan datang.
- 2.6 Objektif penambahbaikan CV ini adalah:
- a) menyediakan medium melalui teknologi web mengikut kesesuaian pada masa kini;
 - b) maklumat dan data yang dipaparkan adalah lebih informatif;
 - c) membantu universiti dalam urusan proses kenaikan pangkat;
 - d) Membantu pegawai berurusan dengan pihak/agensi luar terutamanya untuk mendapatkan geran penyelidikan/konsultansi/pakar rujuk dan sebagainya; dan
 - e) Meningkatkan kebolehlihatan (*visibility*) staf akademik mengikut bidang kepakaran

3.0 JAWATANKUASA PEMBANGUNAN EXPERT@UPSI

- 3.1 Keahlian bagi Jawatankuasa Induk adalah seperti berikut:

| Perkara | Butiran |
|---------------|--|
| Pengerusi | Timbalan Naib Canselor (Penyelidikan & Inovasi) |
| Ahli | <ol style="list-style-type: none"> 1. Pendaftar 2. Bendahari 3. Ketua Pustakawan 4. Ketua Jabatan ICT 5. Ketua Jabatan RMIC |
| Ahli jemputan | Individu yang berkemahiran dalam bidang teknikal atau individu yang diminta untuk hadir oleh Pengerusi bagi tujuan sumbang saran (<i>brainstorming</i>) idea dan kepakaran |
| Setiausaha | Ketua BSM |
| Urusetia | Unit Perjawatan, BSM |
| Fungsi | Membincangkan apa-apa isu yang berkaitan dengan EXPERT@UPSI dan seterusnya membuat keputusan bagi setiap perkara yang dibincangkan |

3.2 Keahlian bagi Jawatankuasa Teknikal adalah seperti berikut:

| Perkara | Butiran |
|---------------|--|
| Pengerusi | Ketua BSM |
| Ahli | <ol style="list-style-type: none"> 1. Pegawai Teknikal ICT 2. Pegawai Teknikal RMIC 3. Pegawai Teknikal PTB 4. Pegawai Teknikal IPS 5. Pegawai Teknikal BHEA 6. Pegawai Teknikal BSM |
| Ahli jemputan | Individu yang diminta untuk hadir oleh Pengerusi bagi tujuan sumbang saran (<i>brainstorming</i>) idea dan kepakaran. |
| Setiausaha | Pegawai Unit Perjawatan, BSM |
| Urusetia | Unit Perjawatan, BSM |
| Fungsi | Membuat perbincangan dari sudut teknikal dan mengambil tindakan yang diarahkan oleh JK Induk |
| Pelaporan | Laporan jawatankuasa dibentangkan kepada Jawatankuasa Induk |

4.0 GARIS PANDUAN PENGGUNAAN EXPERT@UPSI

4.1 EXPERT@UPSI boleh dicapai melalui alamat **directory.upsi.edu.my** dan skrin utama akan memaparkan seperti di bawah. *Button* EXPERT@UPSI berfungsi untuk memaparkan maklumat dan kepakaran pensyarah secara terperinci.

The screenshot shows the 'EXPERT@UPSI / Staff Directory' page. At the top, there is a search bar with the text 'Name' and a magnifying glass icon. Below the search bar, three staff profiles are listed:

- Professor Dato' Dr. Md Amin bin Md Taff**, Naib Canselor. Contact: Professor Universiti Khas C VK7, Fakulti Sains Sukan dan Kejurulatihan, md.amin@fsskj.upsi.edu.my, 015-48797084.
- Professor Ts. Dr. Suriani binti Abu Bakar**, Timbalan Naib Canselor (Penyelidikan & Inovasi). Contact: Professor Universiti Khas C VK7, Fakulti Sains dan Matematik, suriani@fsmt.upsi.edu.my, 015-48797554.
- Professor Dr. Marzita binti Puteh**, Timbalan Naib Canselor (Akademik & Antarabangsa). Contact: Professor Universiti Khas C VK7, Fakulti Sains dan Matematik, marzita@fsmt.upsi.edu.my, 01548117431.

- 4.2 Paparan EXPERT@UPSI ini terbahagi kepada tiga (3) bahagian iaitu laman web (*real time*), Resume dan Curriculum Vitae.

4.2.1 Paparan di laman web:

- a) Terdapat tiga (3) bahagian utama iaitu *Right Side Bar*, *Center Bar* dan *Left Side Bar*.

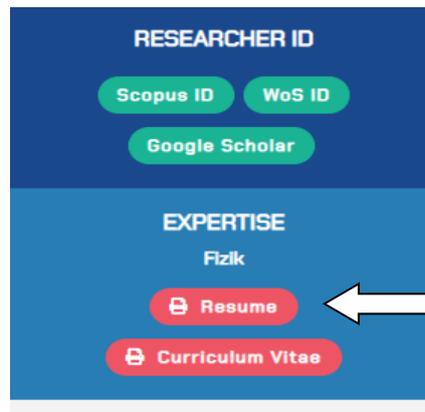
The screenshot displays the 'UPSI Directory of Expertise' website for Professor TS. DR. SURIAH GHITI ABDI BAKAR. The page is structured into three main sections:

- Left Side Bar:** Contains a profile picture of the professor, her name, title (Professor), and contact information (Email: suriam@fsm.upsi.edu.my, Phone: 015-48797554). It also includes a 'RESEARCHER ID' section with 'Scopus ID' and 'Pub ID' buttons.
- Center Bar:** Features a 'Biography' section identifying her as a lecturer from the Faculty of Science and Mathematics, UPSI. Below this is a list of research projects with columns for year, role (Leader), status (Completed), and a 'Complete' button. The projects include:
 - 2020: Development Of Teacher Education Model For Preparing Quality Teacher For The Future (Leader, Completed)
 - 2018: High-Efficiency Dye-Sensitized Solar Cell Based On Graphene-TiO2 Nanocomposites Films (Leader, Completed)
 - 2018: Synthesis And Characterization Of Graphene/ZnO Nanocomposites And Their Potential Applications For Transparent Conductive Electrodes (Leader, Completed)
 - 2018: Fabrication Of Hydrophilic And Agglomerated-Free Poly(vinylidene Fluoride)/ Graphene Oxide Electrode Materials In Capacitive Desalination System For Dye Removal From Textile Industry Wastewater (Leader, Completed)
 - 2017: Large Area Graphene Thin Film Fabrication And Transfer Process From Exfoliated Graphite (Leader, Completed)
 - 2016: DEVELOPMENT OF SCALED-UP PROTOTYPE OF OIL-BASED CNT PRODUCTION [SUPER-CNT-PRO] SYSTEM UTILIZING DOMESTIC VEGETABLE AND ANIMAL DL SOURCES AS CARBON FEEDSTOCK (Leader, Completed)
- Right Side Bar:** An infographic showing statistics:
 - Research (Prinsip Investigator): 19, with a value of Rm6,141,504.
 - Publication: 88.
 - Supervision: 13 (13 PhD, 10 Master).

- b) Maklumat yang dipaparkan adalah hasil integrasi dengan sistem yang digunakan di UPSI iaitu *Human Resource Integrated System (MyHRIS)*, *Research Integrated Management System (MyRIMS)* dan *Student Integrated System (MySIS)*.
- c) Bagi maklumat *Biography*, ianya adalah berdasarkan teks yang dikemaskini oleh pegawai. Walau bagaimanapun, sekiranya pegawai tidak mengemaskini maklumat tersebut, secara automatik (*by default*) *biography* akan menggunakan ayat yang ditetapkan oleh sistem.
- d) Bahagian *Biography* ini boleh dikemaskini melalui sistem MyRIMS.
- e) Paparan di *right side bar* adalah rumusan pencapaian pegawai yang dipaparkan dalam bentuk infografik (Penyelidikan, Penerbitan, Penyeliaan, Perundingan dan Pengkomersialan).
- f) Infografik ini hanya akan dipaparkan sekiranya pegawai mempunyai rekod tersebut. Bagi infografik perundingan dan pengkomersialan, ia akan dipaparkan setelah mencapai amaun minimum RM5,000.

4.2.2 Paparan Resume

- a) Resume merupakan maklumat pegawai yang disusun secara ringkas dan padat. Paparan resume ini adalah dalam bentuk laporan (format pdf) yang hanya mengandungi dua (2) helai muka surat sahaja.
- b) Pegawai boleh mencetak dan menggunakan sama ada laporan resume ini atau laporan penuh CV mengikut keperluan bagi tujuan yang diinginkan. Resume ini juga boleh dicetak dan dilihat oleh pihak lain.



Kedudukan *button* Resume adalah di *Left Side Bar*

- c) Maklumat yang dipaparkan adalah berdasarkan pilihan yang dibuat oleh pegawai melalui sistem MyRIMS. Terdapat lima (5) komponen utama iaitu *Research, Publication, Consultation, Commercialization* dan *Award & Recognition*.

- d) Pemilihan data bagi setiap komponen utama terhadap kepada lima (5) data sahaja.

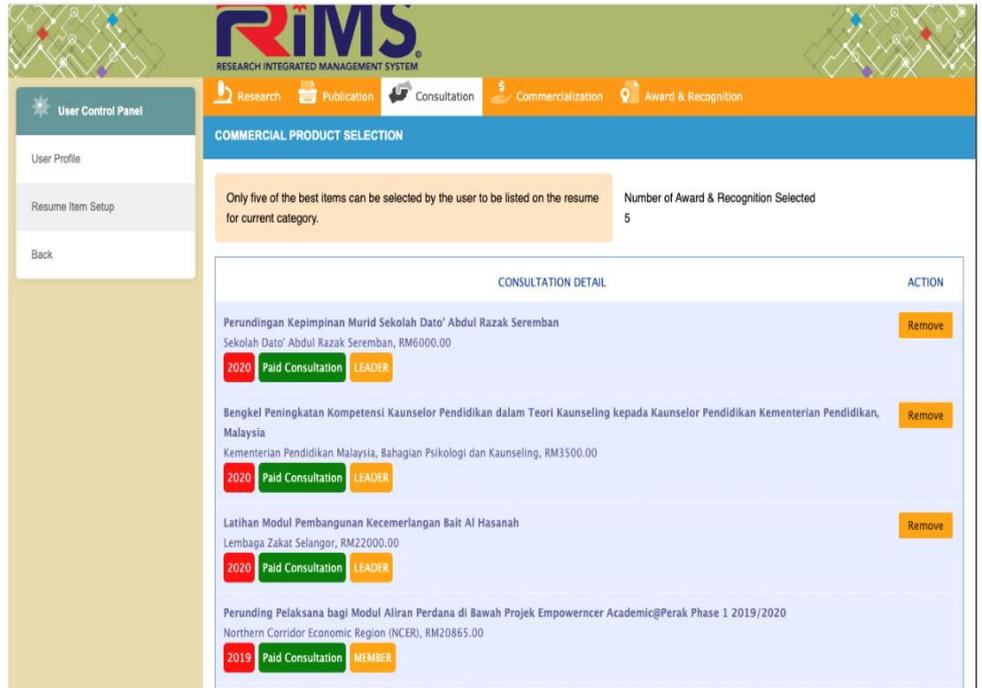
Contoh paparan skrin Research

| RESEARCH PROJECT DETAIL | ACTION |
|---|--------|
| Pembangunan Modul Saintis Muslim AWH Synergy Sdn. Bhd., RM15000.00, 2021-02-01 – 2022-01-31 2021 Private Principal Investigator | Remove |
| Preparation and Characterization of Polyethersulfone-based Membranes and its Hybridization with Graphene Oxide/Titanium Dioxide for Water Treatment Application KEMENTERIAN PENGAJIAN TINGGI, RM128867.00, 2020-11-01 – 2022-10-31 2020 Government Agency Principal Investigator | Remove |
| High-Efficiency Dye-Sensitized Solar Cell Based on Graphene-TiO ₂ Nanocomposites Films MUTINASIONAL/ASING, RM38186.00, 2017-01-01 – 2019-01-01 2017 International Principal Investigator | Select |
| Fabrication of Hydrophilic and Agglomerated-Free Polyvinylidene Fluoride/ Graphene Oxide Electrode Materials in Capacitive Delonization System for Dye Removal from Textile Industry Wastewater MUTINASIONAL/ASING, RM11429.00, 2017-11-01 – 2018-11-01 2017 International Principal Investigator | Select |
| Carbon Nanotubes Synthesized from Waste Cooking Palm Oil Precursor as Adsorbent in Water Pollution Management MUTINASIONAL/ASING, RM10915.00, 2015-10-01 – 2016-10-01 2015 International Principal Investigator | Select |

Contoh paparan skrin Publication

| JOURNAL ARTICLE DETAIL | ACTION |
|--|--------|
| Optical properties of graphene oxide-coated tellurite glass for potential fiber optics Journal of Non-Crystalline Solids 2020 SCOPUS Third Author | Remove |
| The influence of chitosan coating on the controlled release behaviour of zinc/aluminium-layered double hydroxide-quincolorac composite Materials Chemistry and Physics 2020 SCOPUS Fourth Author | Remove |
| Synthesis and characterisation of zinc hydroxides nitrates??sodium dodecyl sulphate fluazinam nano hosts for release properties Journal of Porous Materials 2020 SCOPUS Fourth Author | Remove |
| Chitosan as a coating material in enhancing the controlled release behaviour of zinc hydroxide nitrate??sodium dodecylsulphate?? bispyribac nanocomposite Chemical Papers 2020 SCOPUS Fourth Author | Select |
| THE INTERCALATION BEHAVIOUR AND PHYSICO-CHEMICAL CHARACTERISATION OF NOVEL INTERCALATED NANOCOMPOSITE FROM ZINC/ALUMINIUM LAYERED DOUBLE HYDROXIDES AND BROADLEAF HERBICIDE CLOPYRALID Chemistry and Chemical Technology 2020 SCOPUS Fifth Author and More | Select |

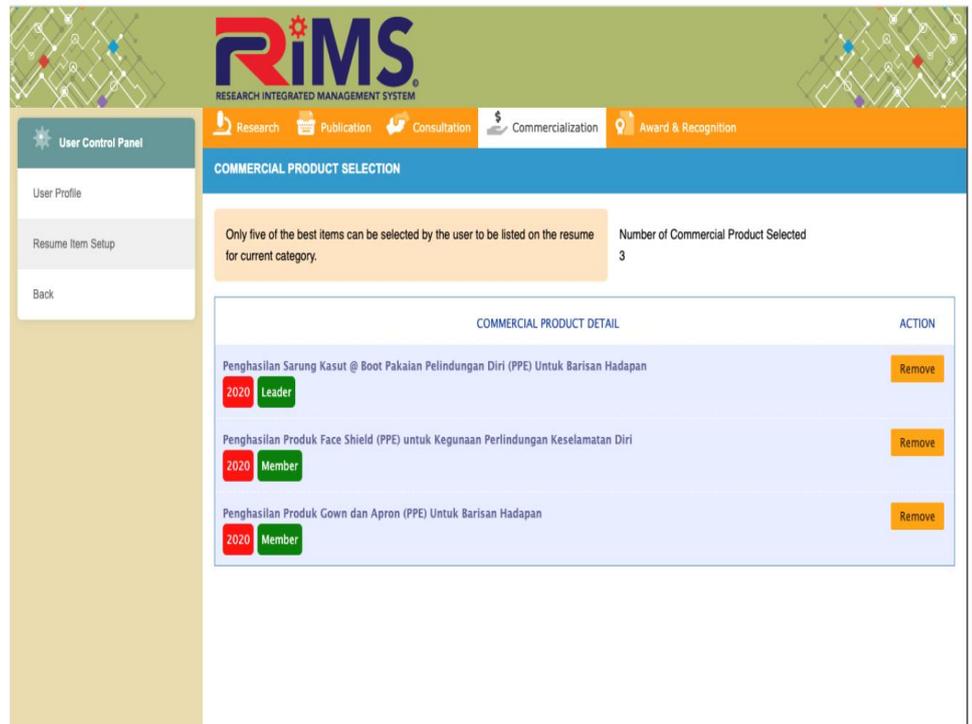
Contoh paparan skrin Consultation



The screenshot shows the 'CONSULTATION' section of the RIMS system. The header includes the RIMS logo and navigation tabs for Research, Publication, Consultation, Commercialization, and Award & Recognition. A left sidebar contains a 'User Control Panel' with options for User Profile, Resume Item Setup, and Back. The main content area is titled 'COMMERCIAL PRODUCT SELECTION' and features a warning message: 'Only five of the best items can be selected by the user to be listed on the resume for current category.' To the right, it indicates 'Number of Award & Recognition Selected' as 5. Below this is a table of consultation details.

| CONSULTATION DETAIL | ACTION |
|---|--------|
| Perundingan Kepimpinan Murid Sekolah Dato' Abdul Razak Seremban Sekolah Dato' Abdul Razak Seremban, RM6000.00 2020 Paid Consultation LEADER | Remove |
| Bengkel Peningkatan Kompetensi Kaunselor Pendidikan dalam Teori Kaunseling kepada Kaunselor Pendidikan Kementerian Pendidikan, Malaysia Kementerian Pendidikan Malaysia, Bahagian Psikologi dan Kaunseling, RM3500.00 2020 Paid Consultation LEADER | Remove |
| Latihan Modul Pembangunan Kecemerlangan Bait Al Hasanah Lembaga Zakat Selangor, RM22000.00 2020 Paid Consultation LEADER | Remove |
| Perunding Pelaksanaan bagi Modul Aliran Perdana di Bawah Projek Empowencer Academic@Perak Phase 1 2019/2020 Northern Corridor Economic Region (NCER), RM20865.00 2019 Paid Consultation MEMBER | |

Contoh paparan skrin Commercialization



The screenshot shows the 'COMMERCIALIZATION' section of the RIMS system. The header and navigation tabs are identical to the consultation view. The left sidebar remains the same. The main content area is titled 'COMMERCIAL PRODUCT SELECTION' and features a warning message: 'Only five of the best items can be selected by the user to be listed on the resume for current category.' To the right, it indicates 'Number of Commercial Product Selected' as 3. Below this is a table of commercial product details.

| COMMERCIAL PRODUCT DETAIL | ACTION |
|---|--------|
| Penghasilan Sarung Kasut @ Boot Pakaian Pelindungan Diri (PPE) Untuk Barisan Hadapan 2020 Leader | Remove |
| Penghasilan Produk Face Shield (PPE) untuk Kegunaan Perlindungan Keselamatan Diri 2020 Member | Remove |
| Penghasilan Produk Gown dan Apron (PPE) Untuk Barisan Hadapan 2020 Member | Remove |

Contoh paparan skrin Award & Recognition

| AWARD & RECOGNITION DETAIL | ACTION |
|--|--------|
| Synthesis of Graphene Film from Waste Chicken Fat for Applicatio as Flexible Transparent Electrode Malaysia Technology Expo 2018 2018 Silver | Remove |
| Green, Economical and Simple Fabrication Approach of Graphene Oxide/Natural rubber Latex Nanocomposites for Large-Scale Industrial Application PECIPTA 2017 2017 Silver | Remove |
| Simple and Freeware-based Magnetic Induction Experimental Kit Malaysia Toray Science Foundation 2017 | Select |
| Rotenone-OCMC : An Environmental Friendly Pesticide Formulation for Sustainable Agriculture Persidangan Dan Ekspo Ciptaan Institusi Pengajian Tinggi Antarabangsa 2015 (PECIPTA 2015) 2015 BRONZE | Select |
| Green: Green, Economic, Efficient, Electrically Conductive Nanocomposites From Biohydrocarbon Based Polymer Persidangan Dan Ekspo Ciptaan Institusi Pengajian Tinggi Antarabangsa 2015 (PECIPTA 2015) 2015 | Select |
| A New Copper (II) Sensor By Chemical Modified Electrode 26 th International Invention, Innovation & Technology Exhibition 2015 (ITEX 2015) 2015 Silver | Select |
| Nanomaterials Manufactured from Recyclable Waste Materials 26 th International Invention, Innovation & Technology Exhibition 2015 (ITEX 2015) | Remove |

e) Contoh laporan resume adalah seperti di **Lampiran 1**.

4.2.3 Paparan Curriculum Vitae (CV)

a) Bahagian ini merupakan laporan penuh CV (format pdf) yang boleh dicetak oleh individu dan pihak lain.

Kedudukan *button Curriculum Vitae* adalah di *Left Side Bar*

- b) Helaian muka surat CV ini lebih banyak berbanding dengan resume kerana ia merangkumi semua pencapaian yang telah direkodkan berdasarkan format yang ditetapkan.
- c) Contoh laporan CV adalah seperti di **Lampiran 2**.

4.2.4 Paparan Data Pencapaian

- a) Data bagi komponen utama iaitu penyelidikan, penerbitan, penyeliaan, perundingan dan anugerah/pengiktirafan dipaparkan melalui integrasi daripada sistem-sistem yang berkaitan.
- b) Laman web hanya akan memaparkan maksimum 50 rekod dalam tempoh lima (5) tahun terkini mengikut susunan yang telah ditetapkan oleh Universiti.
- c) Sekiranya dalam tempoh 5 tahun terkini rekod kurang daripada 50 data, maka rekod tahun-tahun sebelumnya akan dipaparkan.
- d) Jika mana-mana komponen utama tidak mempunyai data, *tab* bagi komponen tersebut tidak akan dipaparkan.

4.3 Format paparan data pencapaian yang telah disusun di dalam laman web, resume dan CV adalah yang telah ditetapkan oleh Universiti.

5.0 TANGGUNGJAWAB STAF AKADEMIK

- 6.1 Pegawai bertanggungjawab mengemaskini dan memastikan maklumat yang dipaparkan di dalam EXPERT@UPSI adalah tepat dan berintegriti.
- 6.2 Sekiranya terdapat maklumat yang tidak tepat dan perlu diambil tindakan, pegawai boleh merujuk kepada Pusat Tanggungjawab (PTj) yang berkaitan dengan maklumat yang ingin ditambahbaik/dikemaskini.
- 6.3 Berikut adalah PTj yang perlu dirujuk sekiranya terdapat tindakan penambahbaikan/pengemaskinian maklumat:

| Bil. | Perkara | PTj yang terlibat |
|------|--|--|
| 1. | Maklumat Peribadi Diri | Bahagian Sumber Manusia |
| 2. | Jawatan Pentadbiran | Jabatan Canselori |
| 3. | Penyeliaan | Institut Pengajian Siswazah |
| 4. | Penerbitan, Penyelidikan, Perundingan, Pengkomersialan, MyRIMS | Pusat Pengurusan Penyelidikan dan Inovasi & Perpustakaan Tuanku Bainun |
| 5. | Anugerah/Pengiktirafan | Bahagian Sumber Manusia & Pusat Pengurusan Penyelidikan dan Inovasi |

6.0 KUAT KUASA DAN PEMAKAIAN

Garis panduan ini berkuat kuasa mulai tarikh kelulusan oleh pihak Mesyuarat Jawatankuasa Pengurusan Universiti dan terpakai untuk semua staf akademik UPSI.

7.0 PENUTUP

Staf akademik perlu menggunakan garis panduan ini sebagai rujukan dan tindakan yang berkaitan dengan EXPERT@UPSI.

8.0 RUJUKAN

Mesyuarat Jawatankuasa Pengurusan Universiti (JKPU) Bil. 12 Tahun 2021 bertarikh 23 Julai 2021.

LAMPIRAN 1

CONTOH RESUME



ACADEMIA INFO

Scopus ID :

57193122842

WoS ID :

A-4169-2013

Google Scholar :

Suriani Abu Bakar

AREAS OF EXPERTISE

Fizik

SUPERVISION

PhD

Completed : 9

Ongoing : 4

Master

Completed : 10

Ongoing : 0

Scan here to see
my CV Online!



Profesor Ts. Dr. Suriani binti Abu Bakar

Deputy Vice-Canselor (Research & Innovation)

✉ suriani@fsmt.upsi.edu.my

☎ 015-48797554

📍 Faculty of Science and Mathematics
Universiti Pendidikan Sultan Idris (UPSI)

BIOGRAPHY

A lecturer from the Faculty of Science and Mathematics, Universiti Pendidikan Sultan Idris, Tanjung Malim, Perak, Malaysia.

ACADEMIC QUALIFICATION

- 2011 **Doktor Falsafah (Ph.D) (Fizik)**
Universiti Teknologi MARA
- 2005 **Sarjana Sains (Fizik)**
Universiti Teknologi Malaysia
- 2002 **Sarjana Muda Sains Dengah Kepujian (Fizik)**
Universiti Teknologi Malaysia

RESEARCH

- 1 Development Of Teacher Education Model For Preparing Quality Teacher For The Future
2020 | Leader | Kementerian Pengajian Tinggi
- 2 High-Efficiency Dye-Sensitized Solar Cell Based On Graphene-TiO₂ Nanocomposites Films
2019 | Leader | Mutinasional/Asing
- 3 Synthesis And Characterization Of Graphene/ZnO Nanocomposites And Their Potential Applications For Transparent Conductive Electrodes
2018 | Leader | Kementerian Pengajian Tinggi
- 4 Fabrication Of Hydrophilic And Agglomerated-Free Polyvinylidene Fluoride/ Graphene Oxide Electrode Materials In Capacitive Deionization System For Dye Removal From Textile Industry Wastewater
2018 | Leader | Mutinasional/Asing
- 5 Large Area Graphene Thin Film Fabrication And Transfer Process From Exfoliated Graphite
2017 | Leader | Kementerian Sains Teknologi Dan Inovasi

PUBLICATION

- 1 **Incorporation of Electrochemically Exfoliated Graphene Oxide and TiO₂ into Polyvinylidene Fluoride-Based Nanofiltration Membrane for Dye Rejection**
Water, Air, and Soil Pollution
2019 SCOPUS First and Correspondence Author
- 2 **Reduced graphene oxide/platinum hybrid counter electrode assisted by custom-made triple-tail surfactant and zinc oxide/titanium dioxide bilayer nanocomposite photoanode for enhancement of DSSCs photovoltaic performance**
Optik
2018 SCOPUS First Author
- 3 **Improving the photovoltaic performance of DSSCs using a combination of mixed-phase TiO₂ nanostructure photoanode and agglomerated free reduced graphene oxide counter electrode assisted with hyperbranched surfactant**
Optik
2018 SCOPUS First Author

CONSULTATION / ADULATION

- 1 **Timbalan Pengerusi bagi Pemilihan Anugerah Makalah Jurnal MAPIM-KPT 2017**
2018 MAPIM In Progress
- 2 **Invitation as Expert Consultant for Poster Presentation Judging Scheme in The International Conference on Life Sciences Revolution 2016 (ICLSR 2016)-Shah Alam- 29-30 November 2016.**
2016 UNISEL Completed

AWARD / RECOGNITION

- 1 **Synthesis of Graphene Film from Waste Chicken Fat for Application as Flexible Transparent Electrode**
Malaysia Technology Expo 2018
2018 International Gold
- 2 **The Best Award (cash worth RM1000) at Malaysia Technology Expo 2012 (MTE 2012)**
MTE 2012
2012 International Gold
- 3 **Gold Medal at MTE 2012**
MTE 2012
2012 International Gold
- 4 **Gold Medal at BioMalaysia 2011 Conference and Exhibition**
BioMalaysia 2011 Conference and Exhibition
2011 International Gold

LAMPIRAN 2

CONTOH

CURRICULUM VITAE



ACADEMIA INFO

Scopus ID :

57193122842

WoS ID :

A-4169-2013

Google Scholar :

Suriani Abu Bakar

AREAS OF EXPERTISE

Fizik

SUPERVISION

PhD

Completed : 9

Ongoing : 4

Master

Completed : 10

Ongoing : 0

Scan here to see
my CV Online!



Profesor Ts. Dr. Suriani binti Abu Bakar

Deputy Vice-Canselor (Research & Innovation)

✉ suriani@fsmt.upsi.edu.my

☎ 015-48797554

📍 Faculty of Science and Mathematics
Universiti Pendidikan Sultan Idris (UPSI)

BIOGRAPHY

A lecturer from the Faculty of Science and Mathematics, Universiti Pendidikan Sultan Idris, Tanjung Malim, Perak, Malaysia.

ACADEMIC QUALIFICATION

- 2011 **Doktor Falsafah (Ph.D) (Fizik)**
Universiti Teknologi MARA
- 2005 **Sarjana Sains (Fizik)**
Universiti Teknologi Malaysia
- 2002 **Sarjana Muda Sains Dengah Kepujian (Fizik)**
Universiti Teknologi Malaysia

RESEARCH

- 1 Development Of Teacher Education Model For Preparing Quality Teacher For The Future
2020 | Leader | Kementerian Pengajian Tinggi
- 2 High-Efficiency Dye-Sensitized Solar Cell Based On Graphene-TiO₂ Nanocomposites Films
2019 | Leader | Mutinasional/Asing
- 3 Synthesis And Characterization Of Graphene/ZnO Nanocomposites And Their Potential Applications For Transparent Conductive Electrodes
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- 4 Fabrication Of Hydrophilic And Agglomerated-Free Polyvinylidene Fluoride/ Graphene Oxide Electrode Materials In Capacitive Deionization System For Dye Removal From Textile Industry Wastewater
2018 | Leader | Mutinasional/Asing
- 5 Large Area Graphene Thin Film Fabrication And Transfer Process From Exfoliated Graphite
2017 | Leader | Kementerian Sains Teknologi Dan Inovasi

RESEARCH

- 6 DEVELOPMENT OF SCALED-UP PROTOTYPE OF OIL-BASED CNT PRODUCTION (SUPER-CNT-PRO) SYSTEM UTILIZING DOMESTIC VEGETABLE AND ANIMAL OIL SOURCES AS CARBON FEEDSTOCK
2016 Leader Kementerian Pengajian Tinggi
- 7 Graphene Oxide: Natural Rubber latex Nanocomposites As Supercapacitor Electrodes
2016 Leader Kementerian Pengajian Tinggi
- 8 Carbon Nanotubes Synthesized From Waste Cooking Palm Oil Precursor As Adsorbent In Water Pollution Management
2016 Leader Mutinasional/Asing
- 9 Synthesis And Characterization Of Graphene By Electrochemical Exfoliation Method
2015 Leader Swasta Tempatan
- 10 Preparation And Field Electron Emission Properties Of Aligned Carbon Nanotube-Zinc Oxide Nanorods Composites
2015 Leader Kementerian Pengajian Tinggi
- 11 Amorphous Carbon Films From Waste Engine Oil: An Environmental-Friendly Approach
2014 Leader Swasta Tempatan
- 12 A Study Of The Mechanism Of Vertically Aligned Carbon Nanotube Growth Using Palm Oil As The Carbon Source
2013 Leader Kementerian Pengajian Tinggi
- 13 Vertically Aligned Carbonnanotubes From Waste Cooking Palm Oil For Field Electron Emission Application
2011 Leader NGO
- 14 Synthesis And Comparison Of Carbon Nanotubes Produced From Different Types Of Bio-Hydrocarbon Precursors
2013 Leader Universiti Pendidikan Sultan Idris
- 15 Synthesis And Comparison Of Carbon Nanotubes Produced From Different Types Of Bio-Hydrocarbon Precursors
2013 Leader Universiti Pendidikan Sultan Idris
- 16 Ion Bomardment Energy Calculation Software Of Ch4 Plasma Using A Direct-Current Plasma Enhanced Chemical Vapour Deposition (Dc
2007 Leader Universiti Pendidikan Sultan Idris
- 17 Fundamental Study Of Graphene/Polymer As A Critical Ingredient For Enhancement Of Photocatalytic Properties Of Earth Abundance Metal Photocatalyst In Solar Fuel Generation.
2022 Leader Kementerian Pengajian Tinggi

- 18 Preparation And Characterization Of Polyethersulfone-based Membranes And Its Hybridization With Graphene Oxide/Titanium Dioxide For Water Treatment Application
2022 Leader
-
- 19 Pembangunan Modul Saintis Muslim
2022 Leader Awh Synergy Sdn. Bhd.
-
- 20 Development Of Teacher Education Model For Preparing Quality Teacher For The Future – Developing And Validating A Teaching And Learning Framework For Preparing Quality Teachers For The Future
2020 Member Kementerian Pengajian Tinggi
-
- 21 Synthesis And Characterization Of Cationic Surfactant In Water-in-CO₂ Microemulsions For Development Of Novel Surfactant Coverage Index
2019 Member Kementerian Pengajian Tinggi
-
- 22 Synthesis, Characterization And Application Of Amphiphilic Chitosan Derivatives As Green Media For Water ? Insoluble Pesticide Formulations
2018 Member Mutinasional/Asing
-
- 23 Electrical And Structural Properties Of Carbon Nanotube Effects On Novel Calixarene Thin Films For Metal Cation Sensing
2017 Member Universiti Putra Malaysia
-
- 24 Wastewater Treatment Of Palm Oil Mill Effluent (POME) By Responsive Graphene With Magnetic Surfactants
2017 Member Mutinasional/Asing
-
- 25 Synthesis Of New Layered Metal Herbicide Nanohybrids And Their Controlled-Release Properties
2017 Member Kementerian Pengajian Tinggi
-
- 26 Synthesis Of Metal Oxide-Graphene Nanocomposite And Its Application As Glucose Sensor
2016 Member Kementerian Pengajian Tinggi
-
- 27 Synthesis, Characterisation And Application Of New Chitosan- Additive (S) Films For Food Perservation.
2016 Member Kementerian Pengajian Tinggi
-
- 28 Study Of Physico -Chemical Parameters And Heavy Metal In A Former Tin Mining Pond In Perak, Peninsular Malaysia
2016 Member Mutinasional/Asing
-
- 29 Synthesis Of Graphene Oxide/Chitosan Nanocomposites And Their Efficacy As Novel Environmental Friendly Media For Water-Insoluble Pesticide Formulations
2016 Member Kementerian Pengajian Tinggi
-

- 30 Development And Study Of Metal Ions Calixarenes Solid-State Using Langmuir And Langmuir-Blodgett (Lb) Films For Contamination Me
2014 Member Kementerian Pengajian Tinggi
- 31 Space Mass Balance
2014 Member Kementerian Sains Teknologi Dan Inovasi
- 32 Development Of A Prototype Computer-Based Linear Motion Experimental Set For Secondary And Tertiary Physics Education
2014 Member Kementerian Pengajian Tinggi
- 33 Low Fluorine Content Phosphate Based Surfactants For Green Solvent Applications
2015 Member Universiti Pendidikan Sultan Idris
- 34 Fundamental Study Of Carbon Nanotubes-Composite Ultrastrength Nanopaper With High Conductivity: Using Malaysia Palm Oil Trees Source
2014 Member Universiti Pendidikan Sultan Idris
- 35 Production Of Nanocellulose From Native Cellulose: An Environmental Friendly Approach - Utilizing Ultrasound
2013 Member Universiti Pendidikan Sultan Idris
- 36 Enhanced Optical Efficiency Of Novel Graphene Coated Neodymium Tellurite Laser Glass For Advanced Fiber Laser And Optical Sensor
2022 Member Kementerian Pengajian Tinggi
- 37 Synthesis, Characterization And Interfacial Properties Evaluation Of Surfactant Chemical Structure For High Quality Exfoliated Graphene Production
2022 Member
- 38 Enhanced Optical Efficiency Of Novel Graphene Coated Neodymium Tellurite Laser Glass For Advanced Fiber Laser And Optical Sensor
2022 Member Kementerian Pengajian Tinggi
- 39 Fundamental Study Of Graphene/Polymer As A Critical Ingredient For Enhancement Of Photocatalytic Properties Of Earth Abundance Metal Photocatalyst In Solar Fuel Generation.
2022 Member Kementerian Pengajian Tinggi
- 40 Formulation Of Graphene / Metal Oxides Exfoliated By Surfactant Ionic Liquid (SAILs) Colloidal Mixture
2022 Member Kementerian Pengajian Tinggi
- 41 Synthesis Of Nanohost-fungicides Coated With Biodegradable Materials And Its Controlled Release Properties In Cocoa Cultivation
2021 Member Kementerian Pengajian Tinggi
- 42 Synthesis And Formulation Of High Sensitivity And Wide Working Range Graphene Electrochemical Bisphenol A Sensor Modified With Layered Material Nanocomposites
2019 Member Kementerian Pengajian Tinggi



43 Synthesize Of High Optical Performance Of Silicate Based Glass From Organic Rice Husk

2019 Member Universiti Pendidikan Sultan Idris

44 Designing And Evaluating An Interactive-Engagement Lecture (IEL) Model For Introductory University Physics Courses

2004 Member Universiti Pendidikan Sultan Idris

PUBLICATIONS

- 1 **Incorporation of Electrochemically Exfoliated Graphene Oxide and TiO₂ into Polyvinylidene Fluoride-Based Nanofiltration Membrane for Dye Rejection**
Water, Air, and Soil Pollution
2019 SCOPUS First and Correspondence Author
- 2 **Reduced graphene oxide/platinum hybrid counter electrode assisted by custom-made triple-tail surfactant and zinc oxide/titanium dioxide bilayer nanocomposite photoanode for enhancement of DSSCs photovoltaic performance**
Optik
2018 SCOPUS First Author
- 3 **Improving the photovoltaic performance of DSSCs using a combination of mixed-phase TiO₂ nanostructure photoanode and agglomerated free reduced graphene oxide counter electrode assisted with hyperbranched surfactant**
Optik
2018 SCOPUS First Author
- 4 **Reduced graphene oxide-multiwalled carbon nanotubes hybrid film with low Pt loading as counter electrode for improved photovoltaic performance of dye-sensitised solar cells**
Journal of Materials Science: Materials in Electronics
2018 SCOPUS First Author
- 5 **Electrical Enhancement of Radiation-Vulcanized Natural Rubber Latex Added with Reduced Graphene Oxide Additives for Supercapacitor Electrodes**
Journal of Materials Science
2017 SCOPUS First Author
- 6 **THE SYNTHESIS OF ZINC OXIDE/CARBON SPHERES NANOCOMPOSITES AND FIELD ELECTRON EMISSION PROPERTIES**
Malaysian Journal of Analytical Sciences
2017 SCOPUS First Author
- 7 **Enhanced photovoltaic performance using reduced graphene oxide assisted by triple-tail surfactant as an efficient and low-cost counter electrode for dye-sensitized solar cells.**
Optik
2017 SCOPUS First Author
- 8 **Highly conductive electrodes of graphene oxide/natural rubber latex-based electrodes by using a hyper-branched surfactant**
MATERIALS & DESIGN
2016 Web of Science First Author
- 9 **Scaled-up prototype of carbon nanotube production system utilizing waste cooking palm oil precursor and its nanocomposite application as supercapacitor electrodes**
Journal of Materials Science: Materials in Electronics
2016 SCOPUS First Author

- 10 **Fabrication of vertically aligned carbon nanotubes–zinc oxide nanocomposites and their field electron emission enhancement**
MATERIALS & DESIGN
2016 Web of Science First Author
-
- 11 **Electrochemical Exfoliation of Graphite in Nanofibrillated Kenaf Cellulose (NFC)/Surfactant Mixture for the Development of Conductive Paper**
Carbohydrate Polymers
2020 SCOPUS Second Author
-
- 12 **Highly branched triple–chain surfactant–mediated electrochemical exfoliation of graphite to obtain graphene oxide: colloidal behaviour and application in water treatment**
Physical Chemistry Chemical Physics
2020 SCOPUS Second Author
-
- 13 **Adsolubilisation of thiacloprid pesticide into the layered zinc hydroxide salt intercalated with dodecyl sulphate, for controlled release formulation**
Materials Research Innovations
2020 SCOPUS Fifth Author and More
-
- 14 **Synthesis and characterisation of zinc hydroxides nitratessodium dodecyl sulphate fluazinam nano hosts for release properties**
Journal of Porous Materials
2020 SCOPUS Fourth Author
-
- 15 **The influence of chitosan coating on the controlled release behaviour of zinc/aluminium–layered double hydroxide–quinclorac composite**
Materials Chemistry and Physics
2020 SCOPUS Fourth Author
-
- 16 **THE INTERCALATION BEHAVIOUR AND PHYSICO–CHEMICAL CHARACTERISATION OF NOVEL INTERCALATED NANOCOMPOSITE FROM ZINC/ALUMINIUM LAYERED DOUBLE HYDROXIDES AND BROADLEAF HERBICIDE CLOPYRALID**
Chemistry and Chemical Technology
2020 SCOPUS Fifth Author and More
-
- 17 **The impact of a hygroscopic chitosan coating on the controlled release behaviour of zinc hydroxide nitratesodium dodecylsulphateimidacloprid nanocomposites**
New Journal of Chemistry
2020 SCOPUS Fourth Author
-
- 18 **Chitosan as a coating material in enhancing the controlled release behaviour of zinc hydroxide nitratesodium dodecylsulphatebispyribac nanocomposite**
Chemical Papers
2020 SCOPUS Fourth Author
-
- 19 **Chitosan–graphene oxide nanocomposites as water–solubilising agents for rotenone pesticide**
Journal of Molecular Liquids
2020 SCOPUS Third Author

- 20 **Synthesis and characterisation of zinc hydroxides nitratessodium dodecyl sulphate fluazinam nano hosts for release properties**
Journal of Porous Materials
2020 SCOPUS Fifth Author and More
-
- 21 **Optical properties of graphene oxide-coated tellurite glass for potential fiber optics**
Journal of Non-Crystalline Solids
2020 SCOPUS Third Author
-
- 22 **Upconversion properties of erbium nanoparticles doped tellurite glasses for high efficient laser glass**
Optics Communications
2019 SCOPUS Third Author
-
- 23 **Dielectric behavior in erbium-doped tellurite glass for potential high-energy capacitor**
Journal of Materials Science: Materials in Electronics
2019 SCOPUS Fourth Author
-
- 24 **Surfactantassisted imidacloprid intercalation of??layered zinc hydroxide nitrate: synthesis, characterisation and??controlled release formulation**
Journal of Porous Materials
2019 SCOPUS Fourth Author
-
- 25 **Controlled release formulation of zinc hydroxide nitrate intercalated with sodium dodecylsulphate and bispyribac anions: A novel herbicide nanocomposite for paddy cultivation**
Arabian Journal of Chemistry
2019 SCOPUS Fourth Author
-
- 26 **Carboxymethylcellulose-coated magnesium-layered hydroxide nanocomposite for controlled release of 3-(4-methoxyphenyl)propionic acid**
Arabian Journal of Chemistry
2019 SCOPUS Fourth Author
-
- 27 **ENHANCED OPTICAL PERFORMANCE OF TELLURITE GLASS DOPED WITH SAMARIUM NANOPARTICLES FOR FIBER OPTICS APPLICATION**
Chalcogenide Letters
2019 SCOPUS Fourth Author
-
- 28 **RELEASE BEHAVIOR OF DICHLORPROP FROM ZN/AL-LDH-DICHLORPROP NANOCOMPOSITE INTO CHLORIDE, CARBONATE AND PHOSPHATE SOLUTIONS**
Jurnal Teknologi (Sciences and Engineering)
2019 SCOPUS Fifth Author and More
-
- 29 **Preparation of zinc layered hydroxide-ferulate and coated zinc layered hydroxide-ferulate nanocomposites for controlled release of ferulic acid**
Materials Research Innovations
2018 SCOPUS Fifth Author and More
-
- 30 **Synthesis and characterization of mesoporous zinc layered hydroxide-isoproc carb nanocomposite**
Journal of Saudi Chemical Society
2018 SCOPUS Fourth Author

- 31 **Preparation and characterisation of novel paddy cultivation herbicide nanocomposite from zinc/aluminium layered double hydroxide and quinclorac anion**
Materials Research Innovations
2018 SCOPUS Fifth Author and More
-
- 32 **Rational design of aromatic surfactants for graphene/natural rubber latex nanocomposites with enhanced electrical conductivity**
Journal of Colloid and Interface Science
2018 SCOPUS Third Author
-
- 33 **Preparation of conductive cellulose paper through electrochemical exfoliation of graphite: The role of anionic surfactant ionic liquids as exfoliating and stabilizing agents**
Carbohydrate Polymers
2018 SCOPUS Third Author
-
- 34 **Synthesis and characterization of carbamate insecticide intercalated zinc layered hydroxide modified with sodium dodecyl sulphate**
IOP Conference Series: Materials Science and Engineering
2018 SCOPUS Fifth Author and More
-
- 35 **Chloroplatinum(II) complex-modified MWCNTs paste electrode for electrochemical determination of mercury in skin lightening cosmetics**
Electrochimica Acta
2017 SCOPUS Third Author
-
- 36 **The effect of ion exchange and co-precipitation methods on the intercalation of 3-(4-methoxyphenyl)propionic acid into layered zinc hydroxide nitrate**
Journal of Porous Materials
2017 SCOPUS Fifth Author and More
-
- 37 **Controlled release formulation of an anti-depression drug based on a L-phenylalanate-zinc layered hydroxide intercalation compound**
Journal of Physics and Chemistry of Solids
2017 SCOPUS Fifth Author and More
-
- 38 **Layered hydroxide anion exchanger and their applications related to pesticides: a brief review**
Materials Research Innovations
2016 SCOPUS Fifth Author and More
-
- 39 **Development of a novel nanocomposite consisting of 3-(4-methoxyphenyl)propionic acid and magnesium layered hydroxide for controlled-release formulation**
Journal of Experimental Nanoscience
2016 SCOPUS Fifth Author and More
-
- 40 **A brief review on recent graphene oxide-based material nanocomposites: Synthesis and applications**
Journal of Materials and Environmental Science
2016 SCOPUS Fifth Author and More

SUPERVISION

- 1 Fabrication And Characterization Of Graphene Oxide–Based Electrodes For Water Treatment Systems Application
2019 PHD International Supervisor
- 2 Fabrication Of Graphene Oxide/Titanium Dioxide Hybrid Material For Solar Cell And Membrane Application
2019 PHD International Supervisor
- 3 Fabrication Of Zinc Oxide/ Graphene Oxide Nanocomposite For Ultraviolet Photoconductive Sensor And Photocatalytic Applications
2019 PHD International Supervisor
- 4 Modification Of Surfactant Chemical Structure For Graphene/Biopolymer Conductive Nanocomposites
2019 PHD International Co-Supervisor
- 5 Mass Production Of Carbon Nanotubes From Waste Cooking Palm Oil Via Modified Thermal Chemical Vapor Deposition And Its Application
2021 PHD National Supervisor
- 6 Synthesis Of Graphene Oxide Using Electrochemical Exfoliation Method For Electrode Materials Application
2017 PHD National Supervisor
- 7 Synthesis Of Aligned Carbon Nanotubes From Waste Chicken Fat Using Thermal Chemical Vapour Deposition Method For Field Emission Devices
2016 PHD National Supervisor
- 8 FABRICATION OF GO- AND RGO-BASED HYBRID NANOFILTRATION MEMBRANE FOR WATER TREATMENT APPLICATION
2021 PHD National Supervisor
- 9 Synthesis And Characterisation Of Metal Oxide/ Graphene Nanocomposites For Glucose Sensor Applications
2017 PHD National Co-Supervisor
- 10 Optical And Structural Properties Of Neodymium Nanoparticle Doped Tellurite Glasses Wated Graphene Oxide/ Reduced Graphene Oxide
2021 PHD National Co-Supervisor
- 11 Optimizing Chemical Structure Of Surfactant For Graphene Exfoliation Method As An Efficient Dye Adsorbent
2021 PHD National Co-Supervisor
- 12 Structural, Intensity Parameters And Luminescence Analysis Of RGO-/CNTs-coated Tellurite Glass Doped With Erbium Nanoparticles Date Of Defense Proposal: 16 June 2021
2021 PHD National Co-Supervisor

- 13 VOLTAMMETRIC SENSOR OF ACETAMINOPHEN, DOPAMINE AND HYDROQUINONE USING LAYERED MATERIALS–MODIFIED MULTIWALLED CARBON NANOTUBES PASTE ELECTRODE
2021 PHD National Co-Supervisor
- 14 Fabrication Of Graphene Oxide/ Zinc Oxide Nanocomposite Through Spraying Method For Solar Cell Application
2018 Master International Supervisor
- 15 Enhancement Of Field Electron Emission Properties Of Carbon Nanotubes/Zinc Oxide Nanocomposites Using Single And Multi-step Methods
2015 Master International Supervisor
- 16 Synthesis Of Carbon Nanostructured Materials From Waste Engine Oil Using Thermal Chemical Vapor Deposition Method
2015 Master International Supervisor
- 17 Fabrication Of Sand/Zinc Oxide-based Nanocomposite Via Sol-gel Immersion Method For Photocatalysis Application
2020 Master National Supervisor
- 18 Fabrication Of Graphene Oxide -based Membrane And Durian Shell-based Activated Carbon For Water Treatment Application
2020 Master National Supervisor
- 19 Sintesis Nanotub Karbon Daripada Minyak Masak Terpakai Dan Sifat Pemancaran Elektron Medan
2015 Master National Supervisor
- 20 Physical Properties Optimization Of Carbon Nanotubes From Palm Oil Precursor
2014 Master National Supervisor
- 21 Preparation And Characterisation Of Chitosan-Graphene Oxide Nanocomposites As Water-Solubilising Agents For Rotenone
2020 Master National Co-Supervisor
- 22 Optical Properties Of Neodymium And Erbium Doped Tellurite Glass Coated With Graphene Oxide
2020 Master National Co-Supervisor
- 23 Pencirian Filem Nipis Kaliksarina Didopkan Dengan Nanotub Karbon Untuk Pengesanan Ion CD_2^+
2016 Master National Co-Supervisor

CONSULTATION

- 1 Timbalan Pengerusi bagi Pemilihan Anugerah Makalah Jurnal MAPIM–KPT 2017
2018 MAPIM In Progress
- 2 Invitation as Expert Consultant for Poster Presentation Judging Scheme in The International Conference on Life Sciences Revolution 2016 (ICLSR 2016)–Shah Alam– 29–30 November 2016.
2016 UNISEL Completed
- 3 Scientific Committees– National Congress on Membrane Technology 2016 (NATCOM 2016) Johor, 24–25 Aug 2016.
2016 UTM Completed
- 4 Invitation as Expert Consultant for Poster Presentation Judging Scheme in The International Conference on Life Sciences Revolution 2016 (ICLSR 2016)–Shah Alam– 29–30 November 2016.
2016 UNISEL Completed
- 5 Menilai Artikel Jurnal di Peringkat Antarabangsa
2014 Scienceweb Publishing Completed
- 6 INVITED SPEAKER FOR THE PL–RAMAN WORKSHOP
2013 UITM – ALV TECHNOLOGIES SDN.BHD & UM Completed
- 7 Appointed As Member of The Evaluation Committee on Fundamental Research Funding of Higher Education Ministry
2018 Ministry of Education Completed
- 8 Appointed as Steering Committee for MALAYSIA SCHOLARLY PUBLISHING COUNCIL session of 2018/2019
2018 MALAYSIA SCHOLARLY PUBLISHING COUNCIL Completed
- 9 Panel Interviewer for Pure Science Scholarship Programme (MYBRAINSNC) 2016 Sponsorship of Ministry of Education Malaysia – 25–28 July 2016
2017 KPT Completed
- 10 JEMPUTAN MEMBERI CERAMAH MOTIVASI
2013 PONDOK PENGAJIAN ILMU WAHYU MERLIMAU MELAKA Completed
- 11 JURI EKSPLO PENYELIDIKAN DAN INOVASI DALAM PENDIDIKAN PERINGKAT KEBANGSAAN
2013 UPSI Completed
- 12 Research Fellow–Nanotechnology Research Centre, FSM, UPSI.
2018 FSM UPSI In Progress

AWARD / RECOGNITION

- 1 **Synthesis of Graphene Film from Waste Chicken Fat for Application as Flexible Transparent Electrode**
Malaysia Technology Expo 2018
2018 **International** **Gold**
- 2 **The Best Award (cash worth RM1000) at Malaysia Technology Expo 2012 (MTE 2012)**
MTE 2012
2012 **International** **Gold**
- 3 **Gold Medal at MTE 2012**
MTE 2012
2012 **International** **Gold**
- 4 **Gold Medal at BioMalaysia 2011 Conference and Exhibition**
BioMalaysia 2011 Conference and Exhibition
2011 **International** **Gold**
- 5 **Outstanding Paper Award at International Conference on Advanced Electromaterials 2011 (ICAE 2011), Jeju, Korea**
ICAE 2011 Jeju, Korea
2011 **International** **Gold**
- 6 **Best Poster Award at the Nanotechnology International Conference 2008, organized by UiTM–Nogaya Institute of Technology, Japan, S. Alam**
UiTM–Nagoya Institute of Technology, Japan
2008 **International** **Gold**
- 7 **Green, Economical and Simple Fabrication Approach of Graphene Oxide/Natural rubber Latex Nanocomposites for Large–Scale Industrial Application**
PECIPTA 2017
2017 **International** **Silver**
- 8 **A New Copper (Ii) Sensor By Chemical Modified Electrode**
26 th International Invention, Innovation & Technology Exhibition 2015 (ITEX 2015)
2015 **International** **Silver**
- 9 **G–TeC: Green Conductive Wire From Biohydrocarbon Precursor**
25th International Invention, Innovation & Technology Exhibition (ITEX 2014)
2014 **International** **Silver**
- 10 **New And Simple Approach Of Graphene–Latex Nanocomposites Production For Supercapacitor Application**
25th International Invention, Innovation & Technology Exhibition (ITEX 2014)
2014 **International** **Silver**
- 11 **CONVERSION OF WASTE MATERIALS INTO NANOSTRUCTURED CARBON**
BioInnovation Awards 2014
2014 **International** **Silver**

- 12 **The 21st International Invention, Innovation Technology Exhibition (ITEX2010) organized by Minds, KLCC, Kuala Lumpur**
Malaysian Invention and Design Society
2010 International Silver
-
- 13 **Silver Medal and Best Poster Award at 3th International Conference on Functional Material and Devices (ICFMD 2010) organized by University of Malaya, Terengganu, Malaysia**
Centre for Ionics, University of Malaya–Reader Digest
2010 International Silver
-
- 14 **Rotenone–OCMC : An Environmental Friendly Pesticide Formulation for Sustainable Agriculture**
Persidangan Dan Ekspo Ciptaan Institusi Pengajian Tinggi Antarabangsa 2015 (PECIPTA 2015)
2015 International Bronze
-
- 15 **Nanomaterials Manufactured from Recyclable Waste Materials**
26 th International Invention, Innovation & Technology Exhibition 2015 (ITEX 2015)
2015 International Bronze
-
- 16 **A Novel Photo–Response Characteristic of Nanocomposite CNT/MEH–PPV Using Palm Oil Derived CNT for Organic Solar Cell: Bronze Medal at the 9th Malaysia Technology Expo (MTE)**
Malaysian Association of Research Scientist
2010 International Bronze
-
- 17 **Excellent Research Award” during 76th Convocation of UiTM**
UiTM
2012 National Gold
-
- 18 **Diamond Award: Special Award for Women Inventor (cash worth RM3000 & certificate)**
UiTM–Bank Islam
2010 University Gold
-
- 19 **Diamond Award: Invention (Category: Student) (cash worth RM3000 & certificate)**
UiTM– Bank Islam
2010 University Gold
-
- 20 **Palm Oil as Starting Materials for Vertically Aligned Carbon Nanotubes (VACNTs) Production: Gold Medal at the 7th Invention, Innovation and Design (IID) competition**
UiTM
2010 University Gold
-
- 21 **Producing Vertically Aligned Carbon Nanotubes from Natural Oil: Gold Medal at the 7th Invention, Innovation and Design (IID) competition**
UiTM
2010 University Gold
-
- 22 **A Novel Photo–Response Characteristic of Nanocomposite CNT/MEH–PPV Using Palm Oil Derived CNT for Organic Solar Cell: Silver Medal at the 7th Invention, Innovation and Design (IID) competition**
UiTM
2010 University Silver



23 **Palm Oil as Starting Materials for Application of FED TV: Silver Medal and Best Booth Award at the Invention, Innovation and Design (IID) competition**
Faculty of Applied Sciences, UiTM, S. Alam

2009 Faculty Silver

24 **Nitrogen as a Dopant for Amorphous Carbon Thin Films: Bronze Medal at the 7th Invention, Innovation and Design (IID) competition**
UiTM

2010 University Bronze

25 **Anugerah Perkhidmatan Cemerlang**
Universiti Pendidikan Sultan Idris

2013 University