



CURRICULUM VITAE



I. PERSONAL PARTICULARS			
Name	DR. NURAZLIN BINTI AHMAD		
Current Position Faculty / Department	Senior Lecturer Pusat Asasi Pertahanan / Jabatan Fizik		
Position Applying for			
II. ACADEMIC AND PROFESSIONAL QUALIFICATIONS			
(Please list all academic qualifications, from your first degree, in chronological order)			
Year	Degree	Discipline	University
2023	Doctor of Philosophy	Physics (Energy)	Universiti Malaya
2005 – 2006	Master of Science	Applied Physics	Universiti Kebangsaan Malaysia
2002 – 2005	Bachelor of Science (Honours)	Physics	Universiti Kebangsaan Malaysia
III. TITLES OF POSTGRADUATE THESES WRITTEN (At MSc/PhD Level)			
No.	TITLES OF POSTGRADUATE THESES		
1	Characterization Of Polyvinylidene Fluoride Trifluoroethylene/Zinc Oxide Quantum Dots Composite Thin Films For Pyroelectric Nanogenerator Applications (PhD)		
2	Pengubahsuaian Sistem Mikroskop Optik Biasa Kepada Sistem Pengimejan Struktur Domain Magnet (MSc)		

IV. WORK EXPERIENCE (Please list your relevant experience in chronological order)			
Year	Position	Organisation	Start and End Date
2009 –Present	Lecturer	Physics Department, Pusat Asasi Pertahanan, Universiti Pertahanan Nasional Malaysia.	3 February 2009 – Present
2007 – 2009	Lecturer	Physics Department, Faculty of Applied Science, Universiti Teknologi Mara, Pahang.	January 2007 – January 2009
2005	Research Assistant	School of Applied Physics, Faculty of Science & Technology Universiti Kebangsaan Malaysia.	May – July 2005

1.0 TEACHING AND SUPERVISION

1.1 Postgraduate Courses

(Please list in chronological order and state: course title, semester and year)

No.	Course Title	Semester	Year

1.2 First Degree Courses

(Please list in chronological order and state: course title, semester and year)

No.	Course Title	Semester	Year

1.3 Diploma Courses

(Please list in chronological order and state: course title, semester and year)

UiTM Pahang (Kampus Jengka):

No.	Course Title	Semester	Year
1	PHY 340 Electronics (Diploma in Science)	5	December 2006 – April 2007
2	PHY 150 Electricity & Magnetism (Diploma in Science)	2	Dec 2006 – April 2007
3	PHY 110 Mechanics 1 (Diploma in Science)	1	July – November 2007
4	PHY 103 Physics (Diploma in Wood Industry)	1	July – November 2007
5	PHY 110 Mechanics 1	1	Dec 2007 – April 2008
6	PHY 103 Physics	1	Dec 2007 – April 2008
7	PHY 340 Electronics	5	Dec 2007 – April 2008
8	PHY 110 Mechanics 1	1	July – November 2008
9	PHY 340 Electronics	5	July – November 2008

1.4 Pre-Degree Courses

(Please list in chronological order and state: course title, semester and year)

No.	Course Title	Semester	Year
1	FPA 0241 Physics Lab II	2	2008/2009
2	FPA 0113 Physics I	1	2009/2010
3	FPA 0121 Physics Lab I	1	2009/2010
4	FPA 0233 Physics II	2	2009/2010
5	FPA 0314 Physics I	1	2010/2011
6	FPA 0334 Physics II	2	2010/2011
7	FPA 0322 Physics Lab II	2	2010/2011
8	FPA 0342 Physics Lab II	3	2010/2011
9	FPA 0372 Basic Physics in Medicine II	3	2010/2011
10	FWP 0512 Learning Enhancement	1	2011/2012
11	FPA 0314 Physics I	1	2011/2012
12	FPA 0334 Physics II	2	2011/2012
13	FPA 0342 Physics Lab II	3	2011/2012

14	FPY 0316 Physics I	1	2012/2013
15	FPY 0326 Physics II	2	2012/2013
16	FPY 0316 Physics I	1	2013/2014
17	FPY 0326 Physics II	2	2013/2014
18	FPY 0316 Physics I	1	2014/2015
19	FPY 0326 Physics II	2	2018/2019 – 2023/2024
20	FPY 0316 Physics I	1	2019/2020 – 2023/2024

1.5 PhD Supervision

(Please list in chronological order)

No.	Name of Student	Project Title	Date of Registration	Role (Main / Co-Supervision)	Status • Completed • Submitted • In Progress	University
1	Nur Arina Binti Mat Rusni	Mechanical, Optical and Ionizing Radiation Shielding Properties of Bismuth Tellurite Based Glass Doped CeO ₂ /Tm ₂ O ₃ /Yb ₂ O ₃	2023	Co-Supervisor	In Progress	UPNM

1.6 PhD External/Internal Examination

(Please list in chronological order)

No.	Name of Student	Project Title	External / Internal	Date of Viva	University

1.7 MSc (by Research)

(Please list in chronological order)

No.	Name of Student	Project Title	Date of Registration	Role (Main / Co-Supervision)	Status <ul style="list-style-type: none"> • Completed • Submitted • In Progress 	University

1.8 MSc External/Internal Examination

(Please list in chronological order)

No.	Name of Student	Project Title	External / Internal	Date of Viva	University

1.9 Supervision (Postgraduate Research Project or Final Year Research Project)

(Please list in chronological order)

No.	Name of Student	Project Title	Date of Registration	Role (Main/Co-Supervision)	Status <ul style="list-style-type: none"> • Completed • Submitted • In Progress
1	Tengku Badrul Hisham bin T. Shahrman	Real Time Speed Detection Laser Sensor	2010	Co-supervisor	Completed
2	Ariff Muzakkir bin Ali Syabana	E-Learning, Pensenjataan di Kapal Perang	2011	Co-supervisor	Completed

2.0 RESEARCH, PUBLICATION AND PRESENTATION

2.1 Research Projects

(Please list in chronological order and state: title, list of researchers, grant/year, source/amount and status)

No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
1	Mechanism retardation of intermetallic compound layer by rare earth-lead free solder for electronic device in high energy radiation environment.	Prof. Madya Dr. Wan Yusmawati binti Wan Yusoff (Principal) Prof. Dr. Azman bin Jalar@Jalil Dr. Nurazlin binti Ahmad Dr. Azuraida binti Amat Prof. Madya Dr. Nor Azlian binti Abdul Manaf	2023	FRGS RM181,000	In Progress
	Localized Behaviour of Lead Free Solar Joint under Different Environment Exposure	Prof. Madya Dr. Wan Yusmawati binti Wan Yusoff (Principal) Prof. Madya Dr. Nor Azlian binti Abdul Manaf Dr. Azuraida binti Amat Nurazlin binti Ahmad	2023	GPPP RM21,000	In Progress
2	The Effectiveness of Online Interactive Notes (e-DC) on Matriculation Students	Nurazlin binti Ahmad (Principal) Fatin Amirah binti Ahmad Shukri Dr. Azuraida binti Amat Nur Azalia binti Ahmad Dr. Syarifah Norsuhaila binti Mahmud	2022	SELF-FUND -	Completed
3	Effect of Thulium Oxide on Optical Properties of Quaternary Tellurite Based Glass	Dr. Azuraida binti Amat (Principal) Prof. Madya Dr. Nor Azlian binti Abdul Manaf Nurazlin binti Ahmad Prof. Madya Dr. Wan Yusmawati binti Wan Yusoff Dr. Hasnimulyati binti Loading	2022	GPJP RM 20,000	In Progress
4	Evaluation of Ionizing Radiation Shielding Parameters on Cerium Oxide Doped Zinc Borotellurite Glass via Winxcom	Dr. Azuraida binti Amat (Principal) Nurazlin binti Ahmad	2022	SELF-FUND -	Completed

No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
	and Phy-X Program	Dr. Hasnimulyati binti Loading			
5	Synthesis and Device Physics of ZnO Qd based Transistor for Biosensor Application	Prof. Dr. Wan Haliza binti Abd. Majid (Principal - UM) Dr. Noor Azrina binti Haji Talik Sisin Nurazlin binti Ahmad Dr. Suraya binti Sulaiman Dr. Mohd. Arif bin Mohd. Sarjidan Dr. Syed Muhammad Hafiz bin Syed Mohd Jaafar	2019	IIRG RM102,600	Completed
6	Nanocomposite of ZnO QDs/P(VDF-TrFE) for energy harvesting application	Nurazlin binti Ahmad (Principal) Prof. Madya Ts. Dr. Norhana binti Abd. Halim Dr. Azuraida binti Amat Noor Fadhilah binti Rahmat	2019	-	Completed
7	Intrinsic behavior of polar and non-polar Zinc Oxide (ZnO) prepared by Langmuir-Blodgett (LB) technique	Prof. Dr. Wan Haliza binti Abd. Majid (Principal - UM) Nurazlin binti Ahmad Dr. Mohd. Arif bin Mohd. Sarjidan Dr. Noor Azrina binti Haji Talik Sisin	2019	FRGS RM109,800	Completed
8	Theoretical gamma shielding properties of Bismuth-Boro-Tellurite glass doped Tm_2O_3/Eu_2O_3 for Radiation Defense Material	Dr. Azuraida binti Amat (Principal) Nurazlin binti Ahmad Noor Fadhilah binti Rahmat Dr. Wan Yusmawati binti Wan Yusoff Dr. Nor Azlian binti Abdul Manaf Ts. Dr. Ishak bin Mansor Dr. Hasnimulyati binti	2019	GPJP RM20,000	Completed

No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
		Laoding			
9	Nanogenerator (pyroelectric) for energy harvesting application	Prof. Dr. Wan Haliza binit Abd. Majid (Principal - UM) Nurazlin binti Ahmad	2015	UMRG RM10080	Completed
10	Gamma radiation resistance of new multicomposition tellurite glass doped Er/Ce rare earth ion	Azuraida binti Amat (Principal) Prof. Madya Dr. Halimah Binti Kamari (UPM) Prof. Dr. Muhd Zu Azhan bin Yahya Dr. Noriza binti Ahmad Zabidi Dr. Norhana binti Abdul Halim Nurazlin binti Ahmad Nurshahidah binti Osman	2013	FRGS RM95000	Completed
11	Development of Composite Electrolytes for Rechargeable Metal-Air Cells Development of Composite Electrolytes for Rechargeable Metal-Air Cells	Prof. Dr. Muhd Zu Azhan bin Yahya (Principal) Nurazlin binti Ahmad Azuraida binti Amat Nurshahidah binti Osman Abqari Luthfi Albert bin Abdullah Dr. Ab Malik Marwan Ali (UiTM)	2012	ERGS RM89000	Completed
12	Electronic Energy Band Structure and Magnetic Properties of Iron Nickel Superconductor	Dr. Noriza binti Ahmad Zabidi (Principal) Nurazlin binti Ahmad Prof. Dr. Muhd Zu Azhan bin Yahya Dr. Norhana binti Abdul Halim Azuraida binti Amat	2013	FRGS RM41000	Completed
13	Optimization Preparation Conditions of Cellulose Nanocrystals (CNC) – based Banana (musa acuminata)	Prof. Dr. Fauziah binti Hj. Abd. Aziz (Principal)	2013	FRGS RM77000	Completed

No.	Title	List of Researchers • Principal • Members	Grant Year	Source Amount	Status • Completed • In Progress
	Stem Waste by Alkaline Treatment and Bleaching Method	Nurazlin binti Ahmad Prof. Dr. Muhd Zu Azhan bin Yahya Prof. Dr. Shahidan bin Radiman			
14	Characterization of superconducting foams fabricated from YBCO (123 phase)	Prof. Madya Dr. Azhan bin Hashim (UiTM Pahang) (Principal) Nurazlin binti Ahmad Haslizaidi Zakari Allina Nadzri Aiza Harun	2008	FRGS	Completed

2.2 Publications

2.2.1 Academic Journal

(Please list in chronological order and state: authors, year, title, publisher/journal, volume and number of pages (Please bold your name))

No.	Authors, year, title, publisher/journal, volume and number of pages (Please bold your name)	Type of Journal • ISI • SCOPUS • Peer-Reviewed
1	Ismail, Norliza, Wan Yusmawati Wan Yusoff, Nor Azlian Abdul Manaf, Azuraida Amat, Nurazlin Ahmad , and Emea Marina Salleh. "A comprehensive review of radiation effects on solder alloys and solder joints." <i>Defence Technology</i> (2024).	ISI IF 5.1
2	Ismail, Norliza, Wan Yusmawati Wan Yusoff, Nur Farisa Nadia Mohmad Lehan, Nor Azlian Abdul Manaf, Azuraida Amat, Nurazlin Ahmad , and Wilfred Paulus. "Microstructural evolution of 96.5 Sn-3.0 Ag-0.5 Cu (SAC305) solder joints induced by variation doses of gamma-irradiation." <i>Journal of Materials Science: Materials in Electronics</i> 35, no. 1 (2024): 18.	ISI IF 2.8
3	Ahmad, N. , WH Abd Majid, M. S. Zaini, A. K. Rosli, R. H. Adnan, and N. A. Halim. "Energy harvesting performance of a novel polymer-nanocrystal composite of P (VDF-TrFE)/ZnO QD films." <i>Materials Science and Engineering: B</i> 289 (2023): 116256.	ISI IF 3.6
4	Majid, W. A., Ahmad, N. , Rosli, A., Sarjidan, M. M., Halim. "Properties of Nanogenerator Materials for Energy-Harvesting Application." <i>Journal of Research Updates in Polymer Science</i> , 12, 140-161.	SCOPUS
5	Ahmad, Nurazlin , Fatin Amirah Ahmad Shukri, Azuraida Amat, Nur Azalia Ahmad, and Syarifah Norsuhaila Syed Mahmud. "A study on the effectiveness of direct current video (e-DC) improving learning outcomes of students and motivation towards	MyCite

	learning Physics." Journal of ICT in Education 10, no. 1 (2023): 92-104.	
6	Rusaini Athirah Ahmad Rusdi, Norhana Abdul Halim, Mohd Nurazzi Norizan, Zul Hazrin Zainal Abidin, Norli Abdullah, Fadhline Che Ros, Nurazlin Ahmad , Ahmad Farid Mohd Azmi (2022). Pre-treatment effect on the structure of bacterial cellulose from Nata de Coco (<i>Acetobacter xylinum</i>). <i>Polimery</i> , 67(3), 110-118.)	ISI IF 1.6
7	Rusaini Athirah Ahmad Rusdi, Norhana Abdul Halim, Mohd Nurazzi Norizan, Zul Hazrin Zainal Abidin, Norli Abdullah, Fadhline Che Ros, Nurazlin Ahmad , Ahmad Farid Mohd Azmi (2022). The effect of layering structures on mechanical and thermal properties of hybrid bacterial cellulose/Kevlar reinforced epoxy composites. <i>Heliyon</i> , e09442.	ISI IF 4.0
8	Azuraida, A., Halimah, M. K., Ishak, M., Fadhilah, N. R., Norhayati, A., & Ahmad, N. (2021). MASS ATTENUATION COEFFICIENT OF [(TeO ₂) 0.7 (B ₂ O ₃) 0.3](BaO) x GLASS FOR ENERGY OF 1 KeV–100 GeV. <i>Chalcogenide Letters</i> , 18(3), 123-127.	ISI IF 0.885
9	Noor Fadhilah Rahmat, Wan Yusmawati Wan Yusoff, Nor Azlian Abdul Manaf, Nur Shafiqah Safee, Azman Jalar, Azuraida Amat, Nurazlin Ahmad , Irman Abdul Rahman, Norliza Ismail, Najib Saedi Ibrahim (2021). Effect of gamma radiation on micromechanical behavior of SnPb solder alloy. <i>Zulfaqr J. Def. Sci. Eng. Tech.</i> Vol. 4 Issue 1, 45-50.	
10	Norhana Abdul Halim, Siti Zulaikha Ngah Demon, Norli Abdullah, Nurazlin Ahmad , Zul Hazrin Zainal Abidin (2021). Localized Deep and Shallow Traps of α -Peaks from Thermally Stimulated Current (TSC) Measurement on Thermoplastic Polymers. <i>Solid State Phenomena</i> (Vol. 317).	SCOPUS
11	Nurazlin Ahmad , Wan Haliza Abd. Majid, & Norhana Abd. Halim (2020). Thermally Stimulated Current Study and Relaxation Behaviour of Annealed Copolymer P (VDF-TrFE) Films for Potential Pyroelectric Energy Harvesting. <i>Journal of Electronic Materials</i> , 49(9), 5585-5599.	ISI
12	Nurazlin Ahmad , Wan Haliza Abd. Majid, Norhana Abd. Halim, Azuraida Amat (2020). The Effect of Annealing on Ferroelectric Properties of Copolymer P(VDF-TrFE). <i>Int. J. Electroactive Mater.</i> 8, 31-36.	Google Scholar
13	Azraaie, N., Zainul Abidin, N.A.M., Aziz, F.A., Radiman, S., Ismail, A., Wan Yunus, W.M.Z., Mohamad Nor, N., Sohaimi, R.M., Sulaiman, A.Z., Halim, N.A., Daruis, D.D.I., Ahmad, N. (2016). Cellulose microfibrils/nanofibrils (CMNF) produced from banana (<i>Musa acuminata</i>) pseudo-stem wastes: Isolation and characterization. In <i>Materials Science Forum</i> (Vol. 846, pp. 448-453). Trans Tech Publications Ltd.	
14	Ahmad, N. , Amat, A., Yusoff, W. Y. W., Osman, N., & Ibrahim, N. B. (2015). Modification Of Normal Microscope To Magneto-Optical Microscope. <i>International Journal of Scientific & Technology Research</i> , 4(4), 31-34.	

2.2.2 Book/Chapter in Book:

(Please list in chronological order and state: authors, year, title, publisher, volume and number of pages
(Please bold your name)

No.	Authors, year, title, publisher, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> • International • National • University
1	Abqari Luthfi Albert Abdullah, Azuraida Amat, Fadhline Che Ros, Fadhlul Wafi Badrudin, Fauziah Abdul Aziz, Nor Azlian Abdul Manaf, Norhana Abdul Halim, Noor Fadhilah Rahmat, Noriza Ahmad Zabidi, Nurazlin Ahmad , Nurshahidah Osman,	University

	Nurul Hazwani Aminuddin Rosli, Shahrul Izwan Ahmad, Siti Zulaikha Ngah Demon, Wan Yusmawati Wan Yusoff, 2023. Module Physics I, UPNM (ISBN)	
2	Azuraida Amat, Nurazlin Ahmad , Nurshahidah Osman, Wan Yusmawati Wan Yusof, Siti Zulaikha binti Ngah Demon, 2011. Module FPA 0314 (Physics 1), UPNM. (ISBN 978-967-5985-13-3)	University
3	Nurazlin Ahmad , Azuraida Amat, Nurshahidah Osman, Wan Yusmawati Wan Yusof, Siti Zulaikha binti Ngah Demon, 2011. Module FPA 0334 (Physics 2), UPNM. (ISBN 978-967-5985-14-0)	University

2.2.3 Proceeding Articles :

(Please list in chronological order and state: authors, year, title, publisher/conference, volume and number of pages (Please bold your name))

No.	Authors, year, title, publisher/conference, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> • International • National • University
1	Azuraida Amat, Halimah Kamari & Nurazlin Ahmad . <i>Optical Properties Of [(TeO₂)_{0.7}(B₂O₃)_{0.3}]_{1-x} (Bi₂O₃)_x Glass System</i> . RCSST27 conference (20-22 December 2013, Kota Kinabalu, Sabah)	International

2.3 Presentation:

(Please list in chronological order)

No.	Event	Title of Paper Presented	Role (Keynote Speaker / Invited Speaker / Presenter)	Date	Organizer
1	International Virtual Expo Of Innovation Product and System Design 2023 (INVIDE 2023)	v-INoPOvE	Video submission (Bronze Award)	5 May 2023	Fac. of Electrical Engineering & Technology Universiti Malaysia Perlis
2	Thesis Seminar	<i>Pyroelectric Nanogenerators for Energy Harvesting Application</i>	Presenter	26 June 2023	Fac. of Science, UM
3	Pre-University Maltrication Innovation Competition 2023 (PIITRAM2023)	<i>Veraco Roll-on Balm</i>	Mentor (Bronze Award)	18 February 2023	UPM & Asasi Council

4	Pre-University Maltricolation Innovation Competition 2023 (PIITRAM2023)	<i>Trash Terminator</i>	Mentor (Bronze Award)	18 February 2023	UPM & Asasi Council
5	PAP Innovation Competition (PAPIC 2022)	<i>Veraco Roll-on Balm</i>	Mentor (Gold Award)	9 November 2022	PAP & PPPI (UPNM)
6	PAP Innovation Competition (PAPIC 2022)	<i>Trash Terminator</i>	Mentor (Gold Award)	9 November 2022	PAP & PPPI (UPNM)
7	Defence, Security and Sustainability Exhibition 2022 (DSS2022)	<i>Zinc Oxide Quantum Dots Embedded Into Polymer Matrix as Pyroelectric Energy Harvesting Nanogenerators</i>	Presenter (Gold Award)	3 & 4 August 2022	Lestari Hall, UPNM
8	Defence, Security and Sustainability Exhibition 2022 (DSS2022)	<i>e-DC</i>	Team member (Bronze Award)	3 & 4 August 2022	Lestari Hall, UPNM
9	International Innovation ARSVOT Malaysia 2022 (IAM2022)	<i>e-DC</i>	Video submission (Silver Award)	25 & 26 June 2022	Association for Researcher of Skills and Vocational Training (ARSVOT)
10	International Innovation ARSVOT Malaysia 2022 (IAM2022)	<i>v-PhyLabex</i>	Video submission (Silver Award)	25 & 26 June 2022	Association for Researcher of Skills and Vocational Training (ARSVOT)
11	Pre-University Maltricolation Innovation Competition 2022	<i>Dorms Emergency Call System (DoeS)</i>	Mentor Category A: Student (Science & Technology) (Gold Award)	2 – 4 & 8 March 2022	UPNM & Asasi Council
12	International Invention, Innovation & Design Expo (INoDeX 2021)	<i>Smart Street Light with Emergency Call (SOS SMaSL)</i>	Video submission (Bronze Award)	8 & 9 November 2021	USM, APEX, UiTM, CREST, SIRIM
13	Pre-University Malaysia Innovation Competition 2021	<i>SMoSL : Smart Mobile Street Light</i> (Gold Award)	Mentor (Gold Award)	7-9 & 15 March 2021	STEM UMT & Asasi Council
14	PAP Innovation Competition (PAPIC 2021)	<i>Smart Mobile Street Light (SMoSL)</i>	Mentor (Silver Award & Anugerah Khas)	30 March 2021	PAP & PPPI (UPNM)

			Jabatan Fizik)		
15	Kelantan International Learning & Innovation Exhibition (KILIEX 2021), Level A: Professional (Science & Technology),	<i>Energy Harvesting Figure of Merit of PVDF-TrFE/ZO QDs Composite Films</i>	Video submission (Best Video Award, Bronze Award)	29 June 2021	UiTM Cawangan Kelantan.
16	3rd International Innovation, Invention & Design Competition (ICON 2020)	<i>Pyroelectric Energy Harvester of Novel PVDF-TrFE/ZnO QDs</i>	Video submission (Silver Award)	15 November 2020	UiTM Cawangan Terengganu.
17	Virtual Materials Technology Challenges (vMTC 4.0), 2020	<i>Ferroelectric Enhancement in Novel P(VDF - TrFE)/ZnO Quantum Dots Thin Films</i>	Presenter (Gold Award)	2 September 2020	Universiti Putra Malaysia & Malaysia Solid State Science and Technology Society (MASS).
18	Materials Technology Challenges 3.0 (MTC 2019), International Conference on Solid State Science and Technology (ICSSST 2019)	<i>The Effect on Annealing on Ferroelectric Properties of Copolymer P(VDF-TrFE)</i>	Presenter (Bronze Award)	12 November 2019	Pusat Asasi Pertahanan, UPNM dan Malaysian Solid State Science and Technology Society (MASS)
19	The 2 nd Suranaree University of Technology & University of Malaya Physics Seminar (SUTUM-2).	<i>Thermal Annealing Effect of Copolymer P(VDF-TrFE) Films for Energy Harvesting Application.</i>	Presenter	2 August 2018	University of Malaya
20	Kolokium Sains dan Teknologi Pertahanan 2014.	<i>Optical Band Gap Of [(TeO₂)_{0.7} (B₂O₃)_{0.3}]_{1-x} (Bi₂O₃)_x Glass.</i>	Presenter	19 February 2014	Universiti Pertahanan Nasional Malaysia

3.0 ACADEMIC RECOGNITION AND LEADERSHIP, CONSULTANCY, SERVICE TO THE UNIVERSITY AND SERVICE TO THE COMMUNITY

3.1 Academic Recognition and Leadership

Academic recognition and leadership such as Academic Award, Academic Assessor/ /Promotion Assessor (External), Visiting Professor/Fellowship, Editorial Board and other academic recognition.

No.	Academic Recognition	Year	Level	Awarding Body / Name of Institution
1	Penerima Sijil Prestasi Cemerlang	2023	University	UPNM
2	Anugerah Pembelajaran Teradun & Imersif (AAC)	2023	University	UPNM
3	Penerima Sijil Prestasi Cemerlang	2022	University	UPNM
4	Anugerah Perkhidmatan Cemerlang (APC)	2013	University	UPNM
5	Penerima Sijil Prestasi Cemerlang	2012	University	UPNM

3.2 Consultancy work that benefited to the University.

(Please list in chronological order and state: title, year, sponsor, value and duration of consultancy)

No.	Title	Year	Sponsor	Value	Duration
1	Editor IConMAS 2024	2024			
2	Setiausaha II IConMAS 2024	2024			
3	Panel Penilai Kolokium Pascasiswazah Sesi 2/2024	2024			
4	Pensyarah Jemputan Program Pengajaran Kolaboratif (UiTM Pahang)	2023			
5	Ahli Jawatankuasa Pelaksana Penggerak STEM-KTP Pusat Asasi Pertahanan bagi Pusat Asasi Pertahanan Innovation Competition 2022 (PAPIC 2022)	2022			
6	Panel Penilai Kolokium Pascasiswazah Sesi 1/2022	2022			
7	Ahli Jawatankuasa Pelaksana Penggerak STEM-KTP Pusat Asasi Pertahanan bagi Pusat Asasi Pertahanan Innovation Competition 2021 (PAPIC 2021)	2021			
8	Ahli Jawatankuasa Webinar: How to Sustain Your Passion as Postgraduate Students Pusat Asasi Pertahanan, UPNM	2021			
9	Pembentang Kolokium Geran Penyelidikan	2021			1 Disember 2021

No.	Title	Year	Sponsor	Value	Duration
10	Penilai Kolokium Pascasiswazah Sesi 2021	2022			23 & 24 November 2021
11	Penyiasat Kehilangan Aset, UPNM	2014			24 July – September 2014
12	Internal Auditor, Pusat Jaminan Kualiti, UPNM	2011 - 2013			2011 - 2013

3.3 Service to the University

Service to the university such as Vice Chancellor/Deputy Vice Chancellor/Dean/Director, Deputy Dean/Deputy Director/Unit Coordinator/Hostel Warden, Programme Chairperson/ Assistant Warden/Fellow. Representing University in Sports and Other Non-Academic Activities. Professional/Academic Association (Committee Member).

(Please list in chronological order and state: position/membership and duration)

No.	Position/Membership	Duration
1	Pakar Rujuk: Instrumen Thermal Properties Analyzer CADRE	2024
2	Pakar Rujuk: Instrumen Particle Analyzer CADRE	2024
3	Juri PAPIC 2023	2023
4	AJK Program Akademik Baharu Ijazah Sarjana Muda Sains (Sains Keselamatan Industri) Dengan Kepujian	2023
5	Setiasaha Jabatan Fizik	2023 - 2025
6	Penyelaras Slaid Kursus Fizik I dan Fizik II	2023 - 2024
7	AJK Editor Buletin@Ria Edisi Ke-4	2023
8	AJK Jamuan Raya PAP UPNM 2023	2023
9	AJK Kerja Penyambut Tetamu Sempena Istiadat Konvokesyen ke-13	2023
10	AJK Program Jangkauan Komuniti SMK Bukit Jalil	2023
11	AJK Hadiah & Sijil Pertandingan Debat Inter-Asasi Malaysia 2023	2023
12	AJK Publisiti (PAPIC 2022)	2022
13	Mentor bagi projek inovasi pelajar PAP (PAPIC 2022) Veraco Roll-on Ball Trash Terminator	2022

14	Juri Poster (PAPIC 2022)	2022
15	AJK Hadiah & Sijil (PIITRAM 2022)	2022
16	Mentor bagi projek inovasi pelajar (PIITRAM 2022) DoeS (Dorm Emergency Call System)	2022
17	AJK Jamuan Raya (PAP 2022)	2022
18	AJK Penyambut Tetamu Ibu Bapa (Konvokesyen UPNM)	2022
19	Penilai Kolokium Siswazah (MSc) Nur Falihan binti Ramli	2022
20	Penilai Manuskrip ke Konferens	2022
21	Penyelaras Kursus Fizik 2	2022/2023
22	AJK Program Baharu Ijazah Sarjana Muda Sains Keselamatan Dalam Industri	2022
23	Pemangku Setiausaha	June – August 2022
24	Mentor bagi projek inovasi pelajar PAP (PIITRAM 2021)	2021
25	Mentor bagi projek inovasi pelajar PAP (PIITRAM 2020)	2020
26	Penyelaras Slaid Kursus Fizik 1, Pusat Asasi Pertahanan (Coordinator)	2021/2022
27	Penyelaras Slaid Kursus Fizik 1, Pusat Asasi Pertahanan (Coordinator)	2021/2022
28	Persatuan Sains & Teknologi Keadaan Pepejal Malaysia (Member)	20 Dec 2013 - present
29	Electroactive Materials Society (Member)	Since July 2013
30	Kelab Kebajikan dan Rekreasi PAP (Member)	2009 - Present
31	Bengkel Pemurnian Manual Amali Fizik I	Feb – July 2013
32	Bengkel Pemurnian Modul Fizik 2	30 – 31 Oct & 1 Nov 2012
33	Bengkel Pengukuran & Penilaian, Intekma Resort, Shah Alam	18 – 20 Apr 2011
34	Program Klinik Asasi Sem II 2010/2011	2 nd Sem, 2010/2011
35	Module of Physics II (FPY 0326)	2 nd Sem, 13/14
36	Course Physics II (FPY 0326)	2 nd Sem, 12/13
37	Course Physics II (FPA 0334)	2 nd Sem, 11/12

38	Course Basic Physics in Medicine 2 (FPA 0372)	3 rd Sem, 10/11
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3.4 Service to the community

(Please list in chronological order)

No.	Organization	Role	Start Date	End Date	Level
1	Journal of Materials Science and Electronic (JMSE)	Penilai Manuskrip	2020	Present	International
2	Ahli persatuan The Malaysian Solid State Science and Technology Society	Member		Present	National
3	Ahli Kelab Kebajikan dan Rekreasi Pusat Asasi Pertahanan (FPJB)	Member		Present	FPJB
4	PIBG bagi Sekolah Kebangsaan Taman Prima Selayang	Member	2016	Present	
5	PIBG bagi Sekolah Menengah Ideal Heights, Selayang	Member	2022	Present	