

CURICULLUM VITAE



(A) PERSONAL DETAILS

Name :	AINUN ZURIYATI BINTI MOHAMED @ ASA'ARI
Title :	Dr.
MyKad number :	731004-11-5366
Citizenship :	Malaysian
Race :	Malay
Gender :	Female
Designation :	(i) Senior Research Officer (ii) Head of Program
Date of birth :	4 October 1973
Current address :	No. 29, Jalan Cerdik 3, Taman Universiti, 43000 Kajang, Selangor
Institution:	Program of Pulp and Paper & Pollution Control, Laboratory of Biopolymer and Derivatives, Institute of Tropical Forestry and Forest Products, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor, MALAYSIA
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(B) ACADEMIC QUALIFICATIONS

Qualification	Institution	Area of Specialization	Year
PhD.	Universiti Kebangsaan Malaysia	Materials Science	2006
MSc.	Universiti Sains Malaysia	Wood, Paper & Coating	2000
BSc. Hons.	Universiti Sains Malaysia	Wood, Paper & Coating	1998

(C) EMPLOYMENT

Employer	Department	Designation	Start Date	End Date
Universiti Putra Malaysia (UPM)	Institut Perhutanan Tropika dan Produk Hutan (INTROP)	Research Officer	2 Jan 2009	present
Forest Research Institute Malaysia (FRIM)	Program Pulpa dan Kertas	Research Officer	2 Jan 2004	31 Dec 2008
Politeknik Sultan Salahuddin Abdul Aziz Shah	Kejuruteraan Awam	Lecturer	Apr 2000	Nov 2000
Universiti Sains Malaysia (USM)	Pusat Pengajian Teknologi Industri	Research Officer	Jan 1998	May 1998

**(D) HONOURS & AWARDS
in
RESEARCH, DEVELOPMENT & INNOVATION AND COMMUNITY LINKAGES**

<i>Name of awards</i>	<i>Title</i>	<i>Award Authority</i>	<i>Award Type</i>	<i>Year</i>
<i>Research, Development & Innovation Awards</i>	Safe Biodegradable Packaging Technology (SafeBioPack2018), <i>Preparation and Characterization of Acid-hydrolysed Cellulose from Pineapple Leaf.</i> 24-26 Jul 2018	1 st Place Poster Presentation	International	2018
	Safe Biodegradable Packaging Technology (SafeBioPack2018), <i>Characterization of EFB paper with microcrystalline cellulose addition and pulp beating.</i> 24-26 Jul 2018	5 th Place Poster Presentation	International	2018
	Universiti Tun Hussein Onn Malaysia Research and Innovation Festival 2017, <i>Blended Coir Linerboard for Packaging Application.</i> 21-22 Nov 2017	Silver	National	2017
	Anugerah Perkhidmatan Cemerlang UPM	Excellent	National	2017
	Pegawai Penyelidik Kategori Q47/48/52	Best Award	National	2016
	Seminar Penyelidikan Kebangsaan 2016 Universiti Perguruan Sultan Idris. <i>Ultrasound assisted and characterization of nanofibrillated cellulose produced from oil palm empty fruit bunch fiber (OPEFB).</i> 9 May 2015.	Best Poster	National	2015
	Malaysian Technology Expo 2014. <i>Mathematical models for alkaline pulp and paper properties of oil palm empty fruit bunch fibre.</i> 20-22 Feb 2014.	Gold	International	2014
	24 th International Invention, Innovation & Technology Exhibition. <i>Kenaf: A sustainable and environmental friendly raw material for pulp, paper, textile and chemical industries.</i> 9-11 May 2013.	Gold	International	2013
	Malaysian Technology Expo 2012. <i>Water resistant paper made from Malaysian cultivated kenaf whole stem fibres.</i> 16-18 Feb 2012.	Silver	International	2012
	Pameran Rekacipta Penyelidikan dan Inovasi Universiti Putra Malaysia 2011. <i>Water resistant paper from kenaf.</i> 20-25 July 2011.	Gold	National	2011
	Pameran Rekacipta Penyelidikan dan Inovasi Universiti Putra Malaysia. <i>Writing and printing grade paper from kenaf- EFB mixed fibres.</i> 20-25 July 2011.	Bronze	National	2011
	Malaysia Technology Expo 2011. <i>Improvement of old corrugated carton via mechanical treatment.</i> 17-19 Feb 2011.	Silver	International	2011
	Biolnno Awards BIOMALAYSIA 2010. <i>New approach in using kenaf for paper and paperboard production.</i> 1-3 Nov 2010.	Bronze	International	2010
Pameran Rekacipta Penyelidikan dan Inovasi Universiti Putra Malaysia 2010. <i>Comparison kenaf whole pulp versus softwood pulp and mechanical treatment (beating) to improve old corrugated board (OCC).</i>	Silver	National	2010	

	Pameran Rekacipta Penyelidikan dan Inovasi Universiti Putra Malaysia 2010. <i>Soda-anthraquinone pulp from Malaysian cultivated kenaf for linerboard production.</i>	Silver	National	2010
	INTROP Research Colloquium 2010. <i>Effect of beating revolution on kenaf bleached kraft pulp properties.</i> 14-16 Dec 2010.	2 nd Best Poster Presentation	National	2010
	INTROP Research Colloquium 2010. <i>Effect of beating revolution on kenaf bleached kraft pulp properties</i> 14-16 Dec 2010.	3 rd Best Paper	National	2010
	International Conference on Kenaf and Allied Fibres 2009 (ICKAF2009). <i>Effect of beating degree on kenaf (Hibiscus cannabinus L.) and oil palm (Elaeis guineensis) empty fruit bunch bleached pulp.</i> 1-3 Dec 2009.	1 st Best Poster Presentation	International	2009
	International Conference on Kenaf and Allied Fibres 2009 (ICKAF2009). <i>Effect of beating degree on unbleached (Hibiscus cannabinus L.) kraft pulp.</i> 1-3 Dec 2009.	3 rd runner Best Poster Presentation	International	2009
	Hari Anugerah FRIM 2008. <i>Kenaf Ecopaper.</i>	Bronze	National	2008
	Hari Anugerah FRIM 2007. <i>Penambahan poliakrilamida di dalam penyediaan kertas magnet lumen berpengisi.</i> 30 Apr 2007.	Appreciation Best Thesis Award (PhD)	National	2007
	Conference on Forestry and Forest Products Research (CFFPR 2007). 27-29 Nov 2007.	2 nd Best Poster Presentation	International	2007
	Kolokium Siswazah Fakulti Sains & Teknologi Ketiga, UKM Bangi. 30-31 July 2003.	Best presenter	National	2003
	Geneva Convention, Geneva, Switzerland. <i>Magnetic paper as smart paper from oil palm empty fruit bunch fibres.</i> Mei 2002.	Silver	International	2002
	Awarded 'MASS 2001. Anugerah Pameran Terbaik Penyelidikan Sains dan Teknologi Keadaan Pepejal' award in IPTA 2001 Research & Development Exhibition. 25-28 October 2001, PWTC, Kuala Lumpur.	Special award	International	2001
	Awarded best award in IMM-IPTA 2001. 'Material innovative application' by Institut Bahan Malaysia. 25-27 October 2001, PWTC, Kuala Lumpur.	Best award	International	2001
	Awarded Research Scholarship-National Science Fellowship (NSF). from Ministry of Science, Technology and Innovation (formerly known as Ministry of Science, Technology and Environment) for PhD study in UKM.	National Scholarship	International	2000
Community Linkages Award	Anugerah Jaringan Industri & Komuniti Berimpak Tinggi 2018, Projek Jaringan Komuniti Terbaik, Kategori Pegawai Bukan Akademik, Projek Komuniti Bersama Sekolah Angkat	Best Award	National	2018
	Anugerah Jaringan Industri & Komuniti Berimpak Tinggi 2018, 25 Apr 2018	Best Institute Award	National	2018

(E) WORKING EXCELLENCE AWARDS

No.	Name of awards	Level
1	Anugerah Perkhidmatan Cemerlang 2017	UPM
2	Anugerah Perkhidmatan Cemerlang 2016	UPM
3	Anugerah Perkhidmatan Cemerlang 2015	UPM
4	Anugerah Perkhidmatan Cemerlang 2014	UPM
5	Anugerah Perkhidmatan Cemerlang 2013	UPM
6	Anugerah Perkhidmatan Cemerlang 2012	UPM
7	Anugerah Perkhidmatan Cemerlang 2011	UPM
8	Anugerah Perkhidmatan Cemerlang 2010	UPM
9	Anugerah Perkhidmatan Cemerlang 2009	UPM

(F) PUBLICATIONS

Journal	
	<ol style="list-style-type: none">1. Naziratulaskin, A.K., Ainun, Z.M.A., Edi Syams, Z., Sarani, Z. Siti Khaulah, Z.A. & Hazwani, H.A. 2018. Extraction and Characterization of Macerated Cellulose from Pineapple Leaf. <i>Bioresources.com</i>. (Accepted 21 August 2018). Role : Corresponding author & Co-author / Quartile : 2 / Scopus cited indexed journal.2. Nor, A.F.M., Sultan, M.T.H., Jawaid, M., Talib, A.R.A., Azmi, A.M.R., Harmaen, A.S. and Asa'ari, A.Z., 2018. The Effects of Multi-walled CNT in Bamboo/Glass Fibre Hybrid Composites: Tensile and Flexural Properties. <i>BioResources</i>, 13(2), pp.4404-4415. Role : Co-author / Quartile : 2 / Scopus cited indexed journal.3. Ainun, Z.M.A., Muhammad, K.I., Rasmina, H., Hazwani, H.A., Sharmiza, A., Naziratulaskin, A.K. and Latifah, J., 2018, June. Effect of chemical pretreatment on pulp and paper characteristics of bamboo <i>gigantochloa scorthechinii</i> kraft fibers. In <i>IOP Conference Series: Materials Science and Engineering</i> (Vol. 368, No. 1, p. 012044). IOP Publishing. Role : Corresponding author & Author / Scopus cited indexed journal.4. Faris, S.I., Ainun, Z.M.A. and Jawaid, M., 2018, June. Effect of microcrystalline cellulose on the strength of oil palm empty fruit bunch paper. In <i>IOP Conference Series: Materials Science and Engineering</i> (Vol. 368, No. 1, p. 012042). IOP Publishing. Role : Corresponding author & Co-author. Scopus cited indexed journal.5. Aqeela, M.N., Ainun, Z.M.A. and Jawaid, M., 2018, June. Effect of pretreatment concentration on pulp blending between oil palm empty fruit bunch and citronella leaf fibers in terms of pulp and paper properties. In <i>IOP Conference Series: Materials Science and Engineering</i> (Vol. 368, No. 1, p. 012010). IOP Publishing. Role : Corresponding author & Co-author/ Quartile : 2 / Scopus cited indexed journal.6. Zakiah S, Ainun Z. M. A. & Edi Syams Zainudin. 2018. Distribution of zinc oxide nanoparticles on unbleached and bleached bamboo paper via in-situ approaches. In <i>IOP Conference Series: Materials Science and Engineering</i> (Vol. 368, No. 1, p. 012046). IOP Publishing. Role : Corresponding author & Co-author / Quartile : 2 / Scopus cited indexed journal.

7. Jasmani, L., Adnan, S. and **Ainun, Z.M.A., 2018**, June. Nanofibrillated cellulose from Mahang gajah as thin film. In IOP Conference Series: Materials Science and Engineering (Vol. 368, No. 1, p. 012015). IOP Publishing.
Role : Co-author / Scopus cited indexed journal.
8. Yacob, N., Yusof, M.R., **Ainun, Z.M.A.** and Badri, K.H., **2018**, June. Effect of cellulose fiber from sago waste on properties of starch-based films. In IOP Conference Series: Materials Science and Engineering (Vol. 368, No. 1, p. 012028). IOP Publishing.
Role : Co-author / Scopus cited indexed journal.
9. Moradbak, A., Tahir, P.M., **Mohamed, A.Z.**, Abdi, M.M., Razalli, R.L. and Halis, R., **2018**. Isolation of cellulose nanocrystals from *Gigantochloa scortechinii* ASAM pulp. European Journal of Wood and Wood Products, 76: 1021-1027.
Role : Corresponding author & Co-author / Scopus cited indexed journal.
10. Rafidah, D., **Ainun, Z.M.A.**, Hazwani, H.A., Rushdan, I., Luqman, C.A., Sharmiza, A., Paridah, M.T. and Jalaluddin, H., **2017**. Characterisation of Pulp and Paper Manufactured from Oil Palm Empty Fruit Bunches and Kenaf Fibres. Pertanika Journal of Tropical Agricultural Science, 40(3): 449-458.
Role : Corresponding author & Co-author / Scopus cited indexed journal.
11. **Ainun, Z.M.A.**, Nurul, I.N., Zaida, S., Hazwani, H.A. and Latifah, J., **2017**. Properties of Paper Manufactured from Kenaf as Function of Alkaline Ph Medium and Retention of Precipitated Calcium Carbonate. Pertanika Journal of Tropical Agricultural Science, 40(3): 459-470.
Role : Corresponding author & Author / Scopus cited indexed journal.
12. Saja M.J., Umi Kalsom M.S., **Ainun, Z.M.A.** and Arbakariya, A. **2017**. Optimization of Laccase Production by Locally Isolated *Trichoderma muroiana* IS1037 Using Rubber Wood Dust as Substrate. Bioresources.com 12(2):3834-3849.
Role : Co-author / Quartile : 2 / Scopus cited indexed journal.
13. Moradbak, A., Tahir, P.M., **Mohamed, A.Z.**, Peng, L.C. and Halis, R., **2016**. Effects of Alkaline Sulfite Anthraquinone and Methanol Pulping Conditions on the Mechanical and Optical Paper Properties of Bamboo (*Gigantochloa scortechinii*). BioResources, 11(3), pp.5994-6005.
Role : Corresponding author & Co-author / Quartile : 1 / Scopus cited indexed journal.
14. Amin, M., Paridah, M.T., **Ainun, Z.M.A.** & Rasmina, H. **2016**. Alkaline Sulfite Anthraquinone and Methanol Pulping of Bamboo (*Gigantochloa schortechinii*). Bioresources.com 11(1):235-248.
Role : Corresponding author & Co-author / Quartile : 2 / Scopus cited indexed journal.
15. Rosazley, R., Shazana, M.Z., Izzati, M.A., Fareezal, A.W., Rushdan, I. and **Ainun, Z.M.A., 2016**. Characterization of Nanofibrillated Cellulose Produced From Oil Palm Empty Fruit Bunch Fibers (OPEFB) Using Ultrasound. National Research Seminar 2016. 25-29.
Role : Co-author.
16. Zahari, N.I., Shah, U.K.M., **Asa'ari, A.Z.M.** and Mohamad, R., **2015**. Selection of potential fungi for production of cellulase-poor xylanase from rice straw. BioResources, 11(1): 1162-1175.
Role : Co-author / Quartile : 2 / Scopus cited indexed journal.
17. Nor Mazlana, M., Rosnita, A.T., Rushdan, I., Russly, A.R. & **Ainun, Z.M.A. 2015**. Linerboard Made from Soda Anthraquinone (Soda-AQ) Treated Coconut Coir Fiber and Effect of Pulp Beating. BioResources.com 10(4):6975-6992.
Role : Co-author / Quartile : 2 / Scopus cited indexed journal.

18. Main, N.M., Talib, R.A., Rahman, R.A., **Mohamed, A.Z.**, Ibrahim, R. and Adnan, S., **2015**. Effect of amphoteric and cationic polyacrylamide on the structural and strength properties of coir paper. *Procedia Manufacturing*, 2: 28-34.
Role : Co-author / Scopus cited indexed journal.
19. Nor Mazlana, M., Rosnita, A.T., Rushdan, I., Russly, A.R. & **Ainun, Z.M.A.** **2015**. Suitability of Coir Fibers as Pulp and Paper. *Agriculture and Agricultural Science Procedia* 2 (2014): 304-311.
Role : Co-author / Scopus cited indexed journal.
20. Rosazley, R., Izzati, M.A., Fareezal, A.W., Shazana, M.Z., Rushdan, I., Zakaria, S., **Ainun, Z.M.A.** and Jani, M. **2015**. Characterization of Nanofibrillated Cellulose From Kenaf Bast Using Ultrasonic Approach. *National Research Seminar 2015*. 412-415.
Role : Co-author.
21. Hazwani, H.A., **Ainun, Z.M.A.**, Nurul, I.M.Z., Abdullah, L.C. & Zakaria, S.. **2013**. Effects of Physical Treatments on the Hydrophobicity of Kenaf Whole Stem Paper Surface using Stearic Acid. *Bioresources.com* 8(3):4088-4100.
Role : Corresponding author & Co-author / Quartile : 1 / Scopus cited indexed journal.
22. Nurul Izzati M.Z., **Ainun Z.M.A.**, Luqman C.A., Hazwani H.A., Jalaluddin H. & Jawaid M. **2013**. Water Absorbency and Mechanical Properties of Kenaf Paper Blended via a Disintegration Technique. *Bioresources.com*. 8(4):5570-5580
Role : Corresponding author & Co-author / Quartile : 1 / Scopus cited indexed journal.
23. Mohieldin S.D., Zainudin E.S., Paridah M.T. & **Ainun Z.M.A.** **2011**. Nanotechnology in Pulp and Paper Industries: A review. *Key Engineering Materials*. Vols 471-472:251-256.
Role : Co-author / Scopus cited indexed journal.
24. **Ainun Z.M.A.**, Sarani Z., Roslinda S. & Mustafa A. **2010**. Effect of mixed tropical hardwood kraft pulp and polyacrylamide on magnetite retention in lumen loaded handsheets. *Sains Malaysiana*. 39(3): 441–444.
Role : Corresponding author & Co-author / Quartile : 3 / Scopus cited indexed journal.
25. **Ainun Z.M.A.**, Sarani Z., Roslinda S. & Mustafa A. **2010**. Cationic Starch as a Dry Strength Agent in Magnetic Papermaking. *Sains Malaysiana*. 39(2): 239–242.
Role : Corresponding author & Co-author / Quartile : 3 / Scopus cited indexed journal.
26. Ahmad A.M., Jalaluddin H., Hossein R., Rushdan I., Paridah M.T., Fallah S.S. & **Ainun Z.M.A.** **2010**. Soda-anthraquinone pulp from Malaysian cultivated kenaf for linerboard production. *Bioresources*. 5(3):1542-1553.
Role : Co-author / Quartile : 1 / Scopus cited indexed journal.
27. Ahmad A.M., Jalaluddin H., Paridah M.T., Hossein R., Rushdan I., Fallah S. & **Ainun Z.M.A.** **2010**. A review of literatures related of using kenaf for pulp production (beating, fractionation and recycled fiber). *Modern Applied Science*. 4(9):21-29.
Role : Co-author / Scopus cited indexed journal.
28. Ahmad A.M., Jalaluddin H., Fallah S., Hossein R. i, Paridah M.T., Rushdan I. & **Ainun Z.M.A.** **2010**. A review of literatures related to kenaf as a alternative for pulpwoods. *Agricultural Journal*. 5(3):131-138.
Role : Co-author / Scopus cited indexed journal.

	<p>29. Rohaya O., Sarani Z., Chia C.H., Ainun Z.M.A. & Nasharuddin I. 2010. Mechanical and optical properties of CaCO₃ lumen-loaded paper: effect of polyethylenimine and alum. <i>Sains Malaysiana</i>. 39(3): 435–439. Role : Co-author / Quartile : 3 / Scopus cited indexed journal.</p> <p>30. Latifah J., Rushdan I., Ainun Z.M.A., Mahmudin S., & Sharmiza A. 2009. Restoring strength to recycled fibres by blending with kenaf pulp. <i>Malaysian Journal of Science</i> 28(1):79-87. Role : Co-author / Scopus cited indexed journal.</p> <p>31. Latifah J., Rushdan I., Ainun Z.M.A., Mahmudin S., & Sharmiza A. 2009. Enzymatic Pre-treatment of Kraft Pulp towards Development of Biobleaching of Kenaf. Role : Co-author.</p>
<i>Books/Monographs</i>	<ol style="list-style-type: none"> 1. 2012. Kenaf - A Potential Fibre for Pulp and Paper Manufacturer. Malaysian Timber Industry Board. ISBN : 978-967-5384-33-2. 2. 2011. Viable biofibres for future. ISBN 978-983-44426-1-3 3. 2006. Penambahan poliakrilamida di dalam penyediaan kertas magnet lumen berpengisi. Ph.D. thesis, Universiti Kebangsaan Malaysia, Bangi. 4. 2000. Pertukaran warna kayu getah. M.Sc. thesis, Universiti Sains Malaysia, Minden. 5. 1998. Kajian tentang kandungan ekstraktif di dalam bahagian-bahagian kayu <i>Acacia mangium</i>. B.Sc. thesis, Universiti Sains Malaysia, Minden.
<i>Chapter in book</i>	<ol style="list-style-type: none"> 1. M.T. Paridah, Amin Moradbak, A.Z. Mohamed, Folahan Abdulwahab Taiwo Owolabi, Mustapha Asniza and Abdul Khalil, H.P.S. 2018. Alkaline Sulfite Anthraquinone and Methanol (ASAM) Pulping Process of Tropical Bamboo (<i>Gigantochloa scortechinii</i>). DOI: 10.5772/intechopen.76806. Role : Co-author. 2. Siti Khaulah Z.A., Ainun Z.M.A., Edi Syam Z., Sarani, Z., Naziratusikin A.K. & Hazwani H.A. 2016. The Availability of Kenaf Bast and Core Fibres in Producing Nanofibrillated Fibers from Morphology Characteristics. INTROP Research Colloquium. Role : Corresponding author & Co-author. 3. Naziratusikin A.K., Ainun Z.M.A., Edi Syams Z., Sarani Z., Siti Khaulah Z.A. & Hazwani H.A. 2016. The Potential of Pineapple Leaf (<i>Ananas Comosus</i>) Fiber in Producing Nanocrystalline Based on Morphological Characteristics. INTROP Research Colloquium. In Press. Role : Corresponding author & Co-author. 4. Hazwani H.A., Ainun Z.M.A., Nurul Izzati, M.A., Luqman, C.A. & Jalaluddin, H. 2016. The Development of Water Resistant Paper from Kenaf Whole Stem Fibres via Coating Method. INTROP Research Colloquium. Role : Corresponding author & Co-author. 5. Rafidah, D., Ainun, Z.M.A., Rushdan, I., Jalaluddin, H. & Nazlia, G. 2015. Effect of Beating Revolution on Kenaf Bleached Kraft Pulp Properties. Chapter in Kenaf and Allied Fibre Resources. ISBN 978-967-344-283-6: Pg. 33-42. Role : Corresponding author & Co-author. 6. Nurul, I.M.Z., Hazwani, H.A., Ainun, Z.M.A., Luqman, C.A. & Nazlia, G. 2015. Effect of Beating Revolution on Kenaf Bleached Kraft Pulp Properties. Chapter in Kenaf and Allied Fibre Resources. ISBN 978-967-344-283-6. Pg.93-97. Role : Corresponding author & Co-author. 7. Ainun, Z.M.A., Nurul, I.N., Latifah, J. & Nazlia, G. 2015. Use of Precipitated Calcium Carbonate as Filler in Kenaf Papermaking. ISBN 978-967-344-283-6. Pg.98-107. Role : Corresponding author & Author.

Other publications	<ol style="list-style-type: none"> 1. Ainun Zuriyati Mohamed, Naziratulaskin Abu Kassim, Latifah Jasmani, Sharmiza Adnan, Amran Shafie & Rosazley Ramly. Pulp and Paper Industries Residues as Valuable Biopolymer By-products. INTROPica Issue 14 Jan-June 2017. Pg.25-25. ISSN No. 1985-4951. Role : Corresponding author & Author. 2. Ainun Zuriyati Mohamed @ Asa'ari, Ros Azley Ramli, Hazwani Husna Husna Abdullah. Cellulose as a Pulp Sources for Nanocellulose Fiber. INTROPica Issue 11 Jul-Dec 2015. Pg.4-5. ISSN No. 1985-4951. Role : Corresponding author & Author. 3. Rosazley Ramly & Ainun Zuriyati Mohamed @ Asa'ari. Potential of Nanofibrillated Cellulose from Kenaf Bast Using Ultrasonic Approach. INTROPica Issue 11 Jul-Dec 2015. Pg.12-13. ISSN No. 1985-4951. Role : Co-author. 4. Ainun, Z.M.A., Hazwani, H.A. & Nurul Izzati, M.Z. 2014. Paper resists to water? INTROPica. Issue June 2013-June 2014. Pg.13. ISSN No.1985-4951. Role : Corresponding author & Author. 5. Ainun, Z.M.A., Nazlia, G., Hazwani, H.A. & Nadia, A. 2014. The establishment of pulp and paper laboratory. INTROPica. Issue June 2013-June 2014. Pg.16. ISSN No.1985-4951. Role : Corresponding author & Author. 6. Ainun, Z.M.A., Sharmiza, A. & Umi Kalsom, M.S. 2014. Bleaching versus biobleaching. INTROPica. Issue June 2013-June 2014. Pg.26-27. ISSN No.1985-4951. Role : Corresponding author & Author. 7. Umi Kalsom, M.S., Nooshin, R. & Ainun, Z.M.A. 2014. Cellulase enzyme for bioconversion of lignocellulosic biomass to sugars. INTROPica. Issue June 2013-June 2014. Pg.11. ISSN No.1985-4951. Role : Co-author. 8. Ainun, Z.M.A. 2012. Pulp and papermaking in Malaysia. INTROPica. Issue June 2012-June 2013. ISSN No.1985-4951. Role : Corresponding author & Author.
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(G) RESEARCH GRANTS

<ol style="list-style-type: none"> 1. Effect of Insitu Biosynthesis Condition on Zinc Oxide Nanoparticles Distribution in Pulp Slurry. Name of grant : Geran Universiti Putra Malaysia Tahun 2018 Role : Project Leader Amount : RM25,000 Duration : 15 Aug 2018 – 15 Aug 2020 Status : In progress 2. Safe Biodegradable Packaging (SafeBioPack). Name of grant : Newton – Ungku Omar Role : Project Leader of subproject. Amount : RM3.161 million Duration : 2016 - 2019 Status : In progress 3. Development of Ultrastrength Paper using Mixed Tropical Hardwood Pulp. Name of grant : HICoE Role : Project Leader Amount : RM250,000

Duration : 2017 - 2019

Status : In progress

4. Development of solid insulating material for transformer application based on kenaf bio-composite material: insulating press paper from kenaf.
Name of grant : TNBR
Role : Project Leader of subproject
Amount : **RM98,834**
Duration : Jan 2017 – Aug 2017
Status : Accomplished
5. Green nano-zinc oxide superhydrophobic bamboo paper: the biosynthesis, characterization and surface interaction.
Name of grant : Geran Fundamental Research Grant Scheme
Role : Co-researcher
Amount : **RM73,000**
Duration : 2 Nov 2015 – 1 Nov 2017
Status : Accomplished
6. Study of conductivity and mechanical properties of graphene oxide-nanofibrillated cellulose composite.
Name of grant : Geran Penyelidikan UPSI
Role : Co-researcher
Amount : **RM20,000**
Duration : 15 Apr 2015 – 15 Apr 2016
Status : Accomplished
7. Utilization of Coconut Coir as Alternative Source of Cellulose based Material to Produce Linerboard Composite Packaging
Name of grant : Geran Putra UPM 2013 – IPS
Role : Co-researcher
Amount : **RM15,000**
Duration : 1 Nov 2013 – 31 Oct 2015
Status : Accomplished
8. Nano-reinforcement of Bamboo Pulp for High Quality Packaging Paper.
Name of grant : Skim Geran Putra - Inisiatif Putra Berkumpulan-IPB
Role : Co-researcher
Amount : **RM100,000**
Duration : Dec 2013 – Jun 2016
Status : Accomplished
9. Production of Improved Wet Strength Paper from Enzymatic-Kraft Bamboo Pulps.
Name of grant : Skim Geran Putra - Inisiatif Putra Berkumpulan-IPB
Role : Co-researcher
Amount : **RM98,000**
Duration : Dec 2013 – Jun 2016
Status : Accomplished
10. The production of microfibrillated cellulose from bamboo fibres using chemimechanical approach.
Name of grant : Skim Geran Universiti Penyelidikan (RUGS 2-2012)

Role : Project Leader
 Amount : **RM39,000**
 Duration : 1 Sep 2012 – 30 Jun 2015
 Status : Accomplished

11. Development of Bio-health Products from Kenaf blend with Selected Recycled Paper.
 Name of grant : Projek Penyelidikan Peringkat Hiliran dan Pemasaran Produk Kenaf - EPU Project
 Role : Project Leader
 Amount : **RM653,200** (combination with No.12)
 Duration : 1 Apr 2009 - 2010
 Status : Accomplished

12. Manufacturing of High Water/Moisture Resistant from Kenaf Fiber.
 Name of grant : Projek Penyelidikan Peringkat Hiliran dan Pemasaran Produk Kenaf - EPU Project
 Role : Project Leader
 Amount : RM653,200 (combination with No. 11)
 Duration : 1 Apr 2009 - 2010
 Status : Accomplished

13. Penghasilan pulpa dan kertas daripada kenaf.
 Name of grant : MTIB Levy Fund
 Role : Project Leader of subproject
 Amount : **RM801,600**
 Duration : 2006-2012
 Status : Accomplished

14. Retention of Precipitated Calcium Carbonate in Alkaline Paper
 Name of grant : Research University Grant Scheme (RUGS)
 Role : Project Leader
 Amount : **RM30,000**
 Duration : 27 Aug 2009 – 26 Feb 2011
 Status : Accomplished

15. Effect of lumen loading on the properties of paper made from oil palm empty fruit bunch.
 Name of grant : FRIM Scientist Grant
 Role : Project Leader
 Amount : **RM10,000**
 Duration : 2006-2008
 Status : Accomplished

(H) FINANCIAL GRANT AWARDS FOR ATTENDING WORKSHOP & SEMINAR

No.	Name of conference/meeting	Approval	Amount	Country
1.	International Training Workshop on Pulp and Papermaking Technologies of Non-wood Fiber Materials, 21 Aug – 9 Sep 2017	Funded by : Department of International Cooperation Ministry of Science and Technology, The People's Republic of China, CHINA	Fully sponsored for 20 days except flight ticket	The People's Republic of China, CHINA

2.	Q3 Joint Project Meeting and Research Workshop of Newton-Ungku Omar Fund, 15-23 July 2017	Funded by : Newton-Ungku Omar Fund : 6300873	RM14,930.67	UNITED KINGDOM
3.	4 th International Symposium on Applied Engineering and Sciences 2016 (SAES2016), 17-18 Dec 2016	Funded by : TNCPI - Vot 13001-DA (Flight Ticket, Food and Transportation)	RM5,320.00	JAPAN
4.	Changgang Institute of Paper Science (CIPST) & Technology-Korean Technical Association Pulp and Paper Industry (KTAPPI) Forum 2016, 27-29 Sept 2016	Funded by : CIPST & KTAPPI	Fully sponsored for 6 days except flight ticket	SOUTH KOREA
5.	World Bamboo Fair & Exhibition Korea 2015, 14-25 Sept 2015	Funded by : World Bamboo Federation	Fully sponsored for 6 days except flight ticket	SOUTH KOREA

(I) PRESENTATION : CONFERENCE & EVENTS

Conference : Oral Presentation

1. Safe Biodegradable Packaging Technology (SafeBioPack2018)
Invited Speaker, 24-26 July 2018, MiGHT Partnership Hub, Cyberjaya, MALAYSIA.
2. 4th UPM & Kyutech International Symposium on Applied Engineering and Sciences 2016 (SAES2016)
Oral Presenter, 17-18 Dec 2016, Kyushu Institute of Technology, Kyushu, JAPAN.
3. Changgang Institute of Paper Science & Technology-Korean Technical Association Pulp and Paper Industry Forum 2016
Invited Speaker, 27-29 Sept 2016, SOUTH KOREA.
4. Putra Research Symposium 2015
Oral Presenter, 28 Apr 2015, Putra Learning Space, CADE, UPM, Selangor, MALAYSIA
5. INTROP Research Colloquium 2010 (IRC2010)
Oral Presenter, 14-16 Dec 2010, Pullman Putrajaya Lakeside, Putrajaya, MALAYSIA
6. International Symposium on Forestry and Forest Products 2010 (ISFFP2010)
Oral Presenter, 5-7 Oct 2010, The Legend Hotel, Kuala Lumpur, MALAYSIA.

Conference : Poster Presentation

7. 1st International Conference on Safe Biodegradable Packaging Technology (SafeBioPack2018)
Poster Presenter, Preparation and Characterization of Acid-hydrolysed Cellulose from Pineapple Leaf, **24-26 July 2018**, MiGHT Partnership Hub, Cyberjaya, MALAYSIA.
8. 1st International Conference on Safe Biodegradable Packaging Technology (SafeBioPack2018)
Poster Presenter, Characterization of EFB paper with microcrystalline cellulose addition and pulp beating, **24-26 July 2018**, MiGHT Partnership Hub, Cyberjaya, MALAYSIA.
9. 1st International Conference on Safe Biodegradable Packaging Technology (SafeBioPack2018)

Poster Presenter, Effect of Temperature, Volume and Concentration on the In-situ Biosynthesized Zinc Oxide on Bamboo Bleached Pulp, **24-26 July 2018**, MiGHT Partnership Hub, Cyberjaya, MALAYSIA.

10. 1st International Conference on Safe Biodegradable Packaging Technology (SafeBioPack2018)
Poster Presenter, Mechanical Pulp of Oil Palm Empty Fruit Bunch Pre-treated by using Alkaline Medium for Papermaking, **24-26 July 2018**, MiGHT Partnership Hub, Cyberjaya, MALAYSIA.
11. 1st International Conference on Safe Biodegradable Packaging Technology (SafeBioPack2018)
Poster Presenter, Effect of Styrene Butadiene Latex (SBR) Concentrations on the Physical and Water Barrier Properties of Gelatin Films, **24-26 July 2018**, MiGHT Partnership Hub, Cyberjaya, MALAYSIA.
12. Wood and Biofiber International Conference 2017 (WOBIC2017)
Poster Presenter, **21-23 Nov 2017**, Hotel Bangi-Putrajaya, Selangor, MALAYSIA.
13. World Bamboo Fair & Exhibition Korea 2015
Poster Presenter, Premium Product from Bamboo: Superior Grade Bamboo Paper, **17-21 Sep 2015**, Damyang, SOUTH KOREA.
14. World Bamboo Fair & Exhibition Korea 2015
Poster Presenter, Premium Product from Bamboo: Xylanase Enzymatic Bamboo Paper, **17-21 Sep 2015**, Damyang, SOUTH KOREA.
15. INTROP Research Colloquium 2015 (IRC2015)
Poster Presenter, **1-2 Dec 2015**, RHR Hotel, UNITEN, Bangi, Selangor, MALAYSIA.
16. INTROP Research Colloquium 2010 (IRC2010)
Poster Presenter, **14-16 Dec 2010**, Pullman Putrajaya Lakeside, Putrajaya, MALAYSIA

Events

17. Ceramah Aktiviti Khidmat Komuniti INTROP
Invited Speaker, 2 Feb 2018, INTROP Meeting Room, Universiti Putra Malaysia, Selangor, MALAYSIA.
18. Kursus Kenal R&D Bersama Pelajar Kolej Islam Sultan Alam Shah (KISAS) kali ke-3
Invited Speaker, 18 Nov 2016, INTROP Seminar Room, Universiti Putra Malaysia, Selangor, MALAYSIA.
19. Kursus Kenal R&D Bersama Pelajar Kolej Islam Sultan Alam Shah
Invited Speaker, 3 Nov 2015, INTROP Seminar Room, Universiti Putra Malaysia, Selangor, MALAYSIA.
20. The Introductory of Pulp and Paper Workshop 2014
Guest Speaker, 28 Oct 2014, INTROP Meeting Room, Universiti Putra Malaysia, Selangor, MALAYSIA.
21. The Introductory of Pulp and Paper Course 2013
Invited Speaker, 19-20 Jun 2013, Seminar Room, Institute of Advanced Technology (ITMA), Universiti Putra Malaysia, Selangor, MALAYSIA.

(J) INITIATOR OF COMMUNITY PROJECT

<i>Program</i>	<i>Between</i>	<i>Date</i>
Sekolah Angkat INTROP	UPM & KISAS	3 Nov 2015
Jalanan Sekolah Berprestasi Tinggi (SBT)	KISAS & UPM	3 Nov 2015

(K) REVIEWERS

1. Materials Letters
20 Aug 2018, Graphene oxide (GO) doping hexagonal flower-like ZnO to enhance photocatalytic ability, **THE NETHERLANDS, International**.
2. Majalah INTROPica BIOREM Issue 15
4 Apr 2018, MALAYSIA, National.
3. INTROP Research Colloquium 2015 (IRC 2015)
28 Apr 2017, Effect of Alkali Treatments on Physical and Mechanical Strength of Pineapple Leaf Fibres, **MALAYSIA, National**.
4. Sains Malaysiana
29 Jan 2015, Mechanical and Antibacterial Properties of Paper Coated with Chitosan (second review), **MALAYSIA, International**.
5. Sains Malaysiana
13 Nov 2014, Combination of Gamma Irradiation and Sodium Carbonate Pretreatment on Oil Palm Empty Fruit Bunch (EFB) Fibres for High Acidic Hydrolysis Yield, **MALAYSIA, International**.
6. Journal Tropical Agriculture and Fundamental Science (MARDI)
5 Nov 2014, Effect of Beating on Mechanical Properties of Pulp and Paper from Rice Straw, **MALAYSIA, International**.
7. PERTANIKA Journals
17 Apr 2014, Nanofibrillated Cellulose from Kenaf Core using Different Mechanical Treatment Methods, **MALAYSIA, International**.
8. PERTANIKA Journals
17 Apr 2014, Production and Characterization of Nanocellulose from Kenaf Bast Fibers via Acid Treatment and Homogenization Process, **MALAYSIA, International**.
9. Bioresources.com
13 Mar 2014, Toward a Composite Based on Cellulose Fibres and Polyvinyl Alcohol in the Presence of Boric Acid, **USA, International**.
10. Greener Journals
6 Jan 2014, SAPELE, International.
11. Greener Journals
3 Jan 2014, Bioaccumulation and Photosynthetic Activity Response of Kenaf (*Hibiscus Cannabinus* L.) to Cadmium and Zinc, **SAPELE, International**.
12. Sains Malaysiana
18 Sep 2013, Preparation of Hydrogel from Kenaf Core Powder using Pre-cooled Method, **MALAYSIA, International**.

13. Cellulose Chemistry and Technology
11 Jul 2013, ROMANIA, International.
14. Bioresources.com
2 Sep 2013, Filler Modification for Papermaking with Cationic Starch and Carboxymethyl Cellulose : A Comparative Study, USA, International.
15. Jurnal Teknologi UTM
5 Jul 2013, Effect of Different Drying Methods on the Crystallinity, Swelling Ability and Tensile Strength of *Nata de Coco*, MALAYSIA, International.
16. Bioresources.com
12 Feb 2013, The Potential of Nanosilica – Cationic Starch Wet End System for Applying Higher Filler Content in Fine Paper, USA, International.
17. Sains Malaysiana
14 Dec 2013, Mechanical and Antibacterial Properties of Paper Coated with Chitosan, MALAYSIA, International.
18. Bioresources.com
16 Jul 2012, Nanofibrillated Cellulose as Paper Additive in Bleached Hardwood Pulps, USA, International.
19. Bioresources.com
7 Jun 2012, Application of Cationic Modified Carboxymethyl Starch as a Retention and Drainage Aid in Wet-end System, USA, International.
20. World Congress on Engineering & Technology 2012
4 May 2012, Thermal and Dynamic Mechanical Properties of Kenaf Unsaturated Polyester Composites: Using DMA and TGA Tests, KAZAKHSTAN, International.
21. International Conference on Kenaf and Allied Fibres 2009 (ICKAF 2009) Book
25 Jun 2010, ICKAF2009 Book, MALAYSIA, International.
22. Jurnal Sains dan Matematik Universiti Pendidikan Sultan Idris
18 Aug 2009, MALAYSIA, National.

(L) APPOINTMENTS : NATIONAL & INTERNATIONAL

National / International Memberships

1. Technical Association of Pulp and Paper Industry (TAPPI) since 14 May 2002 as member.
2. Malaysian Scientific Association (MSA) since 16 Dec 2005 as member.
3. Persatuan Pegawai Penyelidik Universiti Putra Malaysia since 2009 as member.

Memberships in Society

4. Persatuan Pegawai Penyelidik Universiti Putra Malaysia sesi 2011/12 : **Bendahari**
5. Persatuan Pegawai Penyelidik Universiti Putra Malaysia sesi 2012/13 : **Bendahari**
6. Persatuan Pegawai Penyelidik Universiti Putra Malaysia sesi 2015/16 : **Juruaudit**

Appointments as Panel Judges, Evaluator, Technical Advisors and Session Chairman

7. **Panel Penilai** : Permohonan Skim Geran Fundamental (FRGS) – 1 Dis 2009
8. **Panel Penilai** : Sesi penilaian Pengurusan Kerja PTK Kumpulan Pengurusan & Profesional (Bukan Akademik) – 13 Oct 2010

9. **Juri** : Kolokium Hasil Penyelidikan INTROP 2010 – 26 Nov 2010
10. **Jurulatih Teknikal** : Projek Inovasi Sains dan Rekacipta 2011 Sekolah Seri Puteri Cyberjaya – 21 Mac 2011
11. **Pemeriksa** : Pembentangan Kertas Kerja SPS5903/SPS6903 Seminar – Research Proposal – 9 Jan 2012
12. **Pemeriksa** : Pembentangan Kertas Kerja SPS5903/SPS6903 Seminar – Research Proposal – 27 Jun 2012
13. **Judge** : INTROP Research Colloquium 2012 – 5-6 Dec 2012
14. **Jurulatih Teknikal** : Projek Inovasi Sains dan Rekacipta 2013 Sekolah Seri Puteri Cyberjaya – 21 Jan 2013
15. **Pemeriksa** : Pembentangan Kertas Kerja SPS5903/SPS6903 Seminar – Research Proposal – 11 Jan 2013
16. **Jurulatih R&D** : Projek Inovasi Sains dan Rekacipta 2015 Kolej Islam Sultan Alam Shah – 2015
17. **Pemeriksa** : Pembentangan Kertas Kerja SPS5903/SPS6903 Seminar – Research Proposal – 15 Jun 2015
18. **Penilai Oral** : Kolokium Penyelidikan INTROP 2015 – 25 Nov 2015
19. **Panel Penilai** : Pertandingan 'Materials Lecture Competition 2016' – 30 Mac 2016
20. **Pemeriksa** : Pembentangan Kertas Kerja SPS5903/SPS6903 Seminar – Research Proposal – 10 Jun 2016
21. **Penasihat Projek** : Kolaborasi Kepakaran Bersama Kolej MARA Banting – 3 Aug 2016
22. **Hakim Pertandingan** : Karnival Inovasi Seri Puteri 2016 – 17 Nov 2016
23. **Jurulatih R&D** : Projek Inovasi Sains dan Rekacipta 2017 Kolej Islam Sultan Alam Shah – 2017
24. **Pemeriksa** : Pembentangan Kertas Kerja SPS5903/SPS6903 Seminar – Research Proposal – 20 Apr 2017
25. **Panel Penilai** : Pertandingan 'Three Minute Thesis (3MT) 2018' – 8 Jan 2018
26. **Judge** : 'Materials Lecture Competition 2018' – 20 Mar 2018

Appointments in Committee of National / International Conference, Seminar, Training and Workshop

27. **Setiausaha** : JK Teknikal 'International Conference on Kenaf and Allied Fibres 2009' (ICKAF 2009) – 9 Apr 2009
28. **AJJK** : JK Kertas Kerja & Prosiding 'International Conference on Kenaf and Allied Fibres 2009' (ICKAF 2009) – 14 Mei 2009
29. **Secretariat** : 'International Conference on Kenaf and Allied Fibres 2009' (ICKAF 2009)
30. **AJK** : JK Pameran & Produk sempena Majlis Dialog ke-5 Kerjasama Dua Hala Kementerian Perusahaan Perladangan dan Komoditi – UPM – 6 Apr 2010
31. **Pengerusi Sesi** : Kolokium Hasil Penyelidikan INTROP 2010 – 26 Nov 2010
32. **Ahli** : JK Penyelidikan INTROP – 30 Mei 2011
33. **Penunjuk Ajar** : Bengkel Response Surface Methodology in Bioprocess – 15 Jun 2012
34. **Secretariat** : Response Surface Methodology in Bioprocess – 20-21 Jun 2012
35. **Ahli** : Unit Semakan dan Prosiding JK Teknikal 'International Conference on Kenaf and Allied Fibres 2013' (ICKAF 2013) – 5 Jul 2012
36. **Ahli** : JK Unit Dokumentasi dan Pengurusan Konferens Kolokium Penyelidikan INTROP 2012 – 19 Oct 2012
37. **Pengerusi Sesi** : Kolokium Penyelidikan INTROP 2012 – 23 Nov 2012
38. **Ahli** : JK Unit Dokumentasi dan Pengurusan Konferens 'International Conference on Kenaf and Allied Fibres 2013' (ICKAF 2013) – 25 Jan 2013
39. **AJK** : Program Lawatan Perintis Pasukan R&D KISAS Sekolah Berprestasi Tinggi ke INTROP – 26 Mei 2014
40. **Setiausaha** : Sekretariat Kolokium Penyelidikan INTROP 2015
41. **AJK** : Unit Penerbitan Kolokium Penyelidikan INTROP 2015
42. **Pengerusi** : Program Kenal R&D – 30 Okt 2015
43. **Head** : Logistics Unit 'Workshop on Nanocellulose Material : From Fundamental to Applications' – 7 Jan 2016
44. **Setiausaha** : Jawatankuasa Penganjur 'Wood and Biofiber International Conference 2017' (WOBIC2017) – 26 Ogos 2016

45. **Pengurus Acara** : Jawatankuasa Penganjur 'Wood and Biofiber International Conference 2017' (WOBIC2017) – 26 Ogos 2016
46. **Pengerusi** : Kursus Kenal R&D Bersama Pelajar Kolej Islam Sultan Alam Shah (KISAS) kali ke-3 – 16 Nov 2016
47. **Pengurus Konferens** : Jawatankuasa Penganjur 'Wood and Biofiber International Conference 2017' (WOBIC2017) – 16 Nov 2017
48. **Setiausaha** : Jawatankuasa Penganjur 'International Conference on Safe Biodegradable Packaging' (SafeBioPack2018) – 9 Apr 2018
49. **Setiausaha** : Jawatankuasa Pemandu 'International Conference on Safe Biodegradable Packaging' (SafeBioPack2018) – 26 Apr 2018

Appointments in Administrative Responsibilities

50. **Ketua Unit** : Unit Keselamatan dan Persekitaran (Bahan Kimia), Jawatankuasa Keselamatan, Kesihatan dan Persekitaran Tempat Kerja INTROP – 10 Feb 2009
51. **Ahli** : Jawatankuasa Penyelidikan INTROP – 10 Feb 2009
52. **Pengurus Program** : Program Pulpa dan Kertas, Laboratori Biopolimer dan Bahan Terbitan, INTROP – 22 Feb 2010
53. **Ahli** : Jawatankuasa Keselamatan, Kesihatan dan Persekitaran Tempat Kerja, INTROP – 25 Mei 2010
54. **Ketua Laboratori** : Menjalankan tugas bermula 30 Jun 2010 sehingga September 2010 – 30 Jun 2010
55. **Wakil Pengurusan** : Jawatankuasa Keselamatan, Kesihatan dan Persekitaran Tempat Kerja, INTROP – 8 Jun 2010
56. **Ahli** : Jawatankuasa Keselamatan & Kesihatan Pekerjaan (JKKP), INTROP – 7 Jun 2011
57. **Ketua Pemantau** : Jawatankuasa Pengurusan Kualiti INTROP – 7 Sep 2011
58. **Ahli** : Jawatankuasa Bertindak Penubuhan Pusat Gentian Semulajadi, INTROP – 5 Okt 2011
59. **Pengurus Program** : Program Teknologi Pulpa dan Kertas & Kawalan Pencemaran, Laboratori Biopolimer dan Bahan Terbitan, INTROP – 8 Mac 2012
60. **Juruaudit Dalam** : Jawatankuasa Keselamatan, Kesihatan dan Persekitaran Tempat Kerja, INTROP – 1 Mei 2012
61. **Timbalan Pengerusi** : Jawatankuasa Keselamatan, Kesihatan dan Persekitaran Tempat Kerja, INTROP – 1 Mei 2012
62. **Ahli** : Jawatankuasa Logistik dan Jamuan, Kelab Staf INTROP – 13 Sep 2013
63. **Pengurus Program** : Program Teknologi Pulpa dan Kertas & Kawalan Pencemaran, Laboratori Biopolimer dan Bahan Terbitan, INTROP – 9 Jan 2014
64. **Ahli** : Jawatankuasa Kerja Lawatan Makmal sempena 'Winter Exchange Programme UPM-KNU (Kangwon National University)' – 28 Jan 2016
65. **Pengurus Program** : Program Teknologi Pulpa dan Kertas & Kawalan Pencemaran, Laboratori Biopolimer dan Bahan Terbitan, INTROP – 19 Jan 2016
66. **Pegawai Penghubung** : Pegawai Penghubung antara INTROP – Perpustakaan Sultan Abdul Samad – 4 Apr 2017

Appointments in Quality Management System in INTROP, UPM and National Level

67. **Ahli** : Jawatankuasa Jaminan Kualiti (JKJK) INTROP – 16 Jan 2009
68. **Wakil Pengurusan** : Sistem Pengurusan Kualiti (SPK) INTROP – 31 Mac 2009
69. **Ahli** : Jawatankuasa Jaminan Kualiti Pengajian Siswazah Universiti – 23 April 2009
70. **Ahli** : Jawatankuasa Pemandu Sistem Pengurusan Kualiti (SPK) Pengajian Siswazah Universiti – 23 April 2009
71. **Ahli** : Mesyuarat Semakan Pengurusan Skop Pengajian Siswazah INTROP – 30 Okt 2009
72. **Ahli** : Mesyuarat Semakan Pengurusan Skop Pengurusan Penyelidikan dan Pembangunan Komersil INTROP – 23 Nov 2009
73. **Penasihat** : Skop Penyelidikan dalam Sistem Pengurusan Kualiti (SPK) INTROP – 19 Feb 2010
74. **Wakil** : Jawatankuasa Projek bagi Penyemakan Semula Dokumen ECO 04, Criteria Document for Recycled Paper – 4 Feb 2016

(M) SUPERVISION OF STUDENTS

Doctorate of Philosophy (PhD)

1. Ahmad Azizi Mossello, Pulp & Paper Technology, UPM : 2008-2010
2. Rohaya Othman, Materials Science, UKM : 2007-2009
3. Nor Mazlana Main (GS36627) Kejuruteraan Pembungkusan, UPM – 29 Ogos 2013
4. Amin Moradbak (GS35347) Teknologi Pulpa dan Kertas, UPM – 30 Apr 2014
5. Saja Mahdey Jaber (GS38971) Mikrobiologi, UPM – 9 Sep 2014
6. Norzita Yacob (P80498) Kimia, UKM – 28 Jul 2016
7. Muhammad Hariadi Mohd Nawawi (GS46459) Bioteknologi Enzim, UPM – 17 Jan 2017
8. Tengku Arisyah Tengku Yasim Anuar, UPM – 1 Feb 2017
9. Masrat Rasheed (GS45952) Biokomposit Teknologi dan Rekabentuk, UPM – 10 Okt 2017

Master of Science (MSc)

10. Siti Khaulah Zakiah Azman (GS32672) Teknologi Pulpa dan Kertas, UPM – 18 Mac 2013
11. Naziratulaskin Abu Kassim (GS32671) Teknologi Pulpa dan Kertas, UPM – 18 Mac 2013
12. Nur Idayu Zahari (GS38037) Bioteknologi Alam Sekitar, UPM – 30 Apr 2014
13. Zakiah Sobri (GS48143) Biopolimer, Teknologi Pulpa dan Kertas, UPM – 16 Mei 2017
14. Nur Aqeela Mohd Yussof (GS48060) Biopolimer, Teknologi Pulpa dan Kertas, UPM – 17 Jul 2017
15. Faris Syahiran Ismail (GS48071) Biopolimer, Teknologi Pulpa dan Kertas, UPM – 14 Ogos 2017
16. Nurul Husna Osman (M20162002446) Sarjana Sains – Fizik, UPSI – 13 Nov 2017
17. Azimira Farida Muhammad Ali (GS50844) Sains Bahan, UPM – 23 Mei 2018
18. Nurul Syahida Sahid (GS49450) Teknologi Makanan, UPM – 23 Mei 2018

Bachelor of Science (BSc)

19. Muhammad Khairul Izwan Abdul Shukor, Pulp & Paper Technology, UPM - 2012

Industrial Practical

20. Nur Zahidah binti Abdul Majid, USM : Sep 2017 (3 months)
21. Nadia Abdullah, USM : 13 Feb – 7 May 2017 (3 months)
22. Luqman Nurhakim Mohamed, UiTM : 15 Jul 2016 (3 months)
23. Muhammad Asnawi Noordin, UiTM : 15 Jul 2016 (3 months)
24. Muhamad Adam Shah Mat Hasan, UiTM : 15 Jul 2016 (3 months)
25. Mohamad Fazrul Mohd. Nazlan, UiTM : 15 Jul 2016 (3 months)
26. Radiah binti Ab. Samad, UPM : 17 Feb 2014 (6 weeks)
27. Regina Mariah Kalong, UPM : 17 Feb 2014 (6 weeks)
28. Wong Hing Kiong UPM, 17 Feb 2014 (6 weeks)
29. Roger Ling Hang Sung, UPM : 17 Feb 2014 (6 weeks)

(N) PROFESSIONAL TRAININGS

Name of training	Organizer	Date
1. Plastics Packaging and Shelf Life Workshop by Prof. Gordon L. Robertson, University of Queensland, Brisbane, Australia.	Faculty of Food Science and Technology, UPM, MALAYSIA	14-15 Aug 2018
2. Smart Performing Team	INTROP, MALAYSIA	31 Jul – 2 Aug 2018
3. Good Thermal Analysis Practice	Mettler Toledo, MALAYSIA	26 April 2018
4. MS ISO/IEC 17025: 2017 Documentation & Implementation	Ascendent Technology Sdn. Bhd., MALAYSIA	9-10 Jan 2018
5. MS ISO/IEC 17025: 2017 Introduction & Understanding	Ascendent Technology Sdn. Bhd., MALAYSIA	5 Jan 2018

6. Data Analysis Utilizing Microsoft Excel (Level 2)	AViMUR Solutions Sdn. Bhd. MALAYSIA, MALAYSIA	21-22 Dec 2017
7. Workshop on Response Surface Methodology 2017	INTROP, MALAYSIA	15-16 Nov 2017
8. Self-Publishing Made Easy	Universiti Sains Malaysia, MALAYSIA	9 Mar 2017
9. International Training Workshop on Pulp and Papermaking Technologies of Non-wood Fiber Materials	Department of International Cooperation Ministry of Science and Technology, The People's Republic of China, CHINA	21 Aug – 9 Sep 2017
10. Thick Film Fabrication Workshop 2017	Institute of Advanced Technology UPM, MALAYSIA	7-8 Nov 2017
11. Gas Chromatography Workshop 2.0	Institute of Advanced Technology UPM, MALAYSIA	3 May 2017
12. Workshop on Self-publishing made Easy	Universiti Sains Malaysia, MALAYSIA	9 Mar 2017
13. Technical Course of Nano-Cellulose : Synthesis, Characterization & Applications	University of Malaya, MALAYSIA	23-24 Nov 2016
14. Bengkel Lean Market Validation	Pejabat Timbalan Naib Canselor (Penyelidikan & Inovasi), MALAYSIA	25-28 Jul 2016
15. Workshop on Nanomedicine & Nanodelivery	Institute of Bioscience, MALAYSIA	17-19 May 2016
16. World Bamboo Fair Damyang Korea 2015	Bamboo Federation, SOUTH KOREA	14-16 Sep 2015
17. UV-VIS-NIR Spectroscopy Workshop	Faculty of Science, MALAYSIA	2 Apr 2015
18. Workshop on Dynamic Mechanical Analyzer (DMA)	INTROP, MALAYSIA	11 Mar 2015
19. ASTM D790 – Flexural Properties of Unreinforced and Reinforced Plastic and Electrical Insulating Materials	GT Instruments Sdn. Bhd., MALAYSIA	11-12 Sep 2014
20. ASTM D638 – Tensile Properties of Plastic Test	GT Instruments Sdn. Bhd., MALAYSIA	8-10 Sep 2014
21. Nano Surfaces Analysis & Characterization Workshop	University Malaya, MALAYSIA	26-28 Aug 2014
22. Workshop on Permeability in Porous Materials	INTROP, MALAYSIA	21-22 Jul 2014
23. Kursus Supervising Graduate Research	Pejabat Timbalan Naib Canselor (Akademik & Antarabangsa), MALAYSIA	8-9 Apr 2014
24. Program Pembangunan Diri dan Kerjaya	Pejabat Pendaftar UPM, MALAYSIA	9 Jul 2013
25. The Introductory of Pulp and Paper Course	INTROP, MALAYSIA	19-20 Jun 2013
26. LRGS Workshop on Kenaf : Sustainable Materials in Automotive Industry	USM & LKTN, MALAYSIA	25-28 Dec 2012
27. Bengkel Hala Tuju 2012	INTROP, MALAYSIA	13-14 Mar 2012
28. Kursus Pengenalan Tumbuhan Ubatan 2011	Institut Biosains UPM, MALAYSIA	18-19 Oct 2011
29. Seminar Keselamatan INTROP	INTROP, MALAYSIA	27 Jul 2011
30. Application Training for Cometech QC-508B1 & QCTechB Software	KL Analytical Sdn. Bhd., MALAYSIA	26 Jul 2011

31. Kursus Perundingan Berkesan	Pendaftar UPM, MALAYSIA	26-27 Apr 2011
32. Kursus Pemantapan Prestasi Kerja dan Asas Kepimpinan	Pendaftar UPM, MALAYSIA	30-31 Mac 2011
33. Kursus Komunikasi dalam Organisasi	Pejabat Pendaftar, MALAYSIA	28-29 Mar 2011
34. Rheology Workshop	Institut Kimia Malaysia, MALAYSIA	22-24 Nov 2010
35. Kursus Pengurusan Kewangan Penyelidikan	Persatuan Pentadbir UPM, MALAYSIA	9-10 Nov 2010
36. Introduction to Electron Microscopy for Biological Science	Institute of Bioscience UPM, MALAYSIA	12-16 Jul 2010
37. Kursus Komunikasi dan Penyeliaan Berkesan	INTROP, MALAYSIA	5-7 Mar 2010
38. QMS 1&2 Sistem Pengurusan Kualiti Skop Penyelidikan dan Pembangunan Komersil	Pejabat Timbalan Naib Canselor (Penyelidikan & Inovasi), MALAYSIA	23 Dec 2009
39. Kursus Induksi Modul Khusus, 40. Kumpulan Pengurusan dan Profesional 17/2009 UPM	Pejabat Pendaftar UPM, MALAYSIA	19-21 Aug 2009
41. Satu SPK : Pelanggan Didahulukan, Prestasi Diutamakan	Pejabat Timbalan Naib Canselor (Penyelidikan & Inovasi), MALAYSIA	28 May 2009
42. Bengkel Penyediaan Cadangan Penyelidikan	Pejabat Pendaftar UPM, MALAYSIA	8-10 May 2009
43. Research Methodology & Data Analysis using SPSS Workshop	Faculty of Educational Studies, UPM, MALAYSIA	5-6 May 2009
44. Effective Quality Management Representative (QMR)	SIRIM Berhad, MALAYSIA	21-22 Jan 2009
45. Pilot Plant Pulping & Bleaching Trials of Kenaf	Central Pulp & Paper Research Institute, Saharanpur, INDIA	30 Jan – 12 Feb 2009

(O) OUTDOOR PROGRAM

<i>Activity</i>	<i>Organizer</i>	<i>Date</i>
1. XXI World Congress on Safety & Health at Work 2017	Sands Expo & Convention Centre, SINGAPORE	3-6 Sep 2017
2. Program Jom Kurus 1 INTROP 2017	INTROP, MALAYSIA	8 Feb-19 May 2017
3. Seminar Perubatan Islam 2016	UKM, MALAYSIA	26-27 Nov 2016
4. Ahli, 5. Jawatankuasa Logistik & Jamuan, 6. Kelab Staf INTROP	INTROP, MALAYSIA	13 Sep 2013
7. Seminar Keibubapaan Kanak-kanak Peringkat Awal dan Pameran Hasil Penyelidikan FACE	Fakulti Ekologi Manusia UPM, MALAYSIA	22 Dec 2009
8. Program Kembara Mencari Sinar – SDZ, Tahun Zakat Selangor 1430 H	Lembaga Zakat Selangor, MALAYSIA	11 Mac 2009
9. Informan Kajian UPM Happiness Index	Naib Canselor, MALAYSIA	27 Aug 2013
10. Ijazah Talaqqi Al-Quran bersناد dengan Syeikh Nabil bin Muhammad bin Muhammad bin Ali bin Ahmad (Syeikhul Mesir)	Akademi Pengajian Al-Quran Al-Mustafawiyah, MALAYSIA	Jun 2017- Dec 2017
11. Kempen Berwakaf menerusi Potongan Gaji (SPG) untuk Dana Wakaf Ilmu UPM	Pusat Pengurusan Wakaf, Zakat dan Endomen UPM, MALAYSIA	21 Sep 2017

