

Faculty of Administrative Science and Policy Studies



Leading An Artificial Innovation In Knowledge, Education And Design

i-SPIKE 2021 INTERNATIONAL EXHIBITION & SYMPOSIUM

E-PROCEEDINGS

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TABLE OF CONTENTS:-

i-SPiKE 2021 International Exhibition & Symposium E-Proceedings

NO.	TITLE	PAGE
1.	'Viewfinder' Mobile Learning Application for Videography and Cinematography Based on the Rules of Perspective Amir Nor Azan Samar, Harim Izzati Hamdan, Iqbal Jaapar & Muhammad Firdaus Amairudin	1
2.	Systematic Alternative Fuzzy Logic Evaluator (SAFLE) for Student Performance Evaluation Shirley Sinatra Gran, Tracy Adeline Ajol & Awang Nasrizal Awang Ali	8
3.	360 Employees – I Dayang Hazenah Awang Abdul Hamid, Nur Dina Athia Mohd Ramley, Nur Hidayah Jusoh, Nurul Husna Abd Jalil & Mohammad Firdaus Mohammad Hatta	12
4.	AbMTI: Adventure Based Mental Toughness Inventory for Post Covid-19 Pandemic Era Mohd Shariman Shafie, Professor Dato Dr. Md Amin Md Taff, Dr. M.Adli bin Mohd Sidi, Mohamed Azizul bin Mohamed Afandi, Dr. Omar Firdaus Mohd Said & Nik Jazwiri Johannis	18
5.	AbMTM: Post Covid-19 Adventure-Based Mental Toughness Training Model Mohd Shariman Shafie, Professor Dato' Dr. Md Amin Md Taff. Assoc. Professor Dr. Zuraidah Zainol & Dr. Siti Musliha Mat Rasid	23
6.	Pembentukan Modul Undi18@School untuk Pendidikan Kenegaraan dan Demokrasi kepada Belia 18-21 Tahun Wan Rohila Ganti Wan Abdul Ghapar, Che Hamdan Che Mohd. Razali, Muhamad Fazil Ahmad & Abdul Rahman Abdul Latip	28
7.	A Planning of Templer Forest Park and Templer Forest Reserve through Management Plan Mohammad Zharif Hakimi Mohammad Mazani, Nurul Atikah Mohd Salleh, Muhammad Hafiy Safwan Sahak, Nurul Nabila Che Ahamed, Teeny Valerian, Mohamad Fathi Radhi Ishak, Nor Hanisah Mohd Hashim & Firdaus Chek Sulaiman	33
8.	Administrative Model for Sekolah Agama Rakyat (SAR): Excellence Practices Mohd Nasir Ayub, Nazmi @ Nazni Noordin, Mohd Zool Hilmie Mohamed Sawal & Surita Hartini Mat Hassan	38
9.	ADR-Now Application: Bridging Theoretical and Practical Approach in Alternative Dispute Resolution Process and Procedures Dr. Shahrizal Mohd Zin, Abdul Mu'iz Abdul Razak, Prof. Madya Dr. Nur Ezan Rahmat & Nik Hasbi Fathi	43



10.	Agricultural Career Training Program for Drop Out Students through Work Based Learning Marinah Muhammad, Noor Janatun Naim Jemali, Nik Raihan Nik Yusoff & Rozidaini Mohd Ghazi	47
11.	An Eco-Friendly Concrete Blends from Palm Oil Boiler Ash Nurrul Amilin Zainal Abidin, Zeno Michael, Mohamed Khatif Tawaf Bin Mohamed Yusof, Azmi Roslan, Siti Shahidah Binti Sharipudin, Shahrul Nizam Bin Mohammad & Ilya Izyan Binti Shahrul Azhar	52
12.	An Investigation of Clothing for Elderly: Emphasizing Safety, Protection and Functional Attributes Shahrizad Fitri Mustapha, Shuhaila Nahrawi, Rizal Azni Dahaman & Norzaleha Zainun	57
13.	Ardu-Electrochromic Film for Home Safety And Privacy Purpose Anas Akasyah Abd Patas, Nur Athirah Mohd Taib & Syahida Suhaimi	65
14.	Let's Talk about the Movies: The Movie Journal Associate Profesor Dr Norwati Binti Hj Roslim, Associate Profesor Dr Hj, Muhammad Hakimi Tew Abdullah, Ku Nurul Atiqah Ku Ahamad, Nur Faathinah Mohammad Roshdan, Suhaila binti Sharil & Siti 'Aishatul- Humairah Muhammad Fisol	71
15.	Asymmetric Impact of The Oil Price Changes on Stocks Market for Selected Asean Countries Shahiszan binti Ismail, Prof. Madya Dr. Noor Zahirah Mohd Sidek, Fauziah Mohamad Yunus, Jamilah Laidin & Nor Azira Ismail	78
16.	Automated System for Concrete Damage Classification Identification Using Various Classification Techniques in Machine Learning Nur Haziqah binti Mat, Athifa Aisha binti Ahmad Zahida, Siti Nurhaliza binti Abdul Malik, Nur Athirah Syuhada binti Azmadi & Syahrul Fithry bin Senin	81
17.	Automatic Price Scanning System Fahmi Nazreen Zakuan, Anis Diyana Rosli & Nurlida Ismail	88
18.	Al Hijaei V1 Yuslina Mohamed, Mesbahul Hoque, Sulaiman Ismail Nurhasma & Muhamad Saad	94
19.	Infographic of Benevolence Practices: Public Sector's Myth or Reality Dr Nor Zaini Zainal Abidin, Azni Syafena Andin Salamat, Syahrini. Shawalludin, Azlan Abdul Rahman & Dr Siti Norfazlina Yusoff	100
20.	BIO-CHEM KIT: Understanding Biogeochemical Cycles Nurul Hidayana Mohd Noor, Shawal Sahid Hamid@Hussain, Mahazril 'Aini Yaacob & Mohd Hafiz Hazwan Hashim	104



21.	Biodegradable and Recycle Husk Mailer from Cocos nucifera Anas Firdaus bin Zakaria, Nur Atirah binti Hamzah, Siti Farahin binti Abdull Patah, Wan Zuraida Wan Mohd Zain & Nur' Amira binti Hamid	110
22.	Bunny's Pellet: Natural Mulberry Pellet Nor Dini Rusli, Khairiyah Mat, Hasnita Che Harun, Mohd Mahmud & Syed Muhammad Al-Amsyar Syed Abd. Kadir	114
23.	Cails Paper Wash Aisyah Nur Izzah binti Azhar, Intan Nafissa binti Mohd Jaffri, Loris Anak Noh, Caroline Anak Kiroh & Silverina Anabelle Kibat	120
24.	Capcut Dr Sharifah Shafinaz Sh Abdullah, Nur Afini Azwa binti Roslan, Nur Alya Nabila binti Ashariman, Nur Mazmira binti Mohamad Zuki &Nur Nabila binti Omar	124
25.	Regenerated Kenaf Core Cellulose Hydrogels and Films Prepared via Pre-Cooled Method Adam Khairul Faiz, Muhammad Khairil Hakim Ismail, Hatika Kaco & Mohd Shaiful Sajab	128
26.	Encapsulation of Winged Termites in Cellulose Nanofibre for the Fabrication of Cellulose Bioplastic Syahidatul Nadhilah Shah Lail, Noorul Jannah Aizul Hussin, Hatika Kaco & Mohd Shaiful Sajab	134
27.	Chinese Character Card Game: Learners' Attitudes and Motivation <i>Ting Hie-Ling</i>	140
28.	Coffee Capsule Vending Machine Mohd Sufian Ramli, Siti Sufiah Abd Wahid, Muhammad Hasif Razak & Muhammad Hakimi Md Said	146
29.	Corn-Based Bioplastic as Seedling Bag Nur Nadia Nasir & Siti Amira Othman	151
30.	Coupiers: Course Pre-Registration System Zeti Darleena Eri, Mohd Hanapi Abdul Latif, Mohd Atif Ramlan, Ruhana Jaafar, Sharifah Nurulhikmah Syed Yasin, Hasiah Mohamed & Sarah Yusoff	156
31.	Divorce Protection Takaful Siti Thaqifah Ruzaidy, Siti Adibah Embong, Mohammad Firdaus Mohammad Hatta & Arlinah Abd. Rashid	162
32.	Entrepreneurial Website Project "Www.Businessletter4you.Com" Akmal Syaifudin bin Kaharudin, Siti Zuraina binti Gafar @ Abd Ghaffar & Juritah Misman	168



33.	Early Flash Flood Detection and Avoidance System Muhammad Aidil Aisar Mohd Yatim, Muhammad Khalis Zuhri Izahar, Rohaiza Baharudin & Mohd Hussaini Abbas	174
34.	Ebook: Easy Research For All Sylvia Nabila Azwa Ambad	180
35.	e-Info_JK Formation Committee System for the School of Civil Engineering (Pka) Universiti Teknologi MARA Azlinda Saadon, Musmuliadi Kamaruding, Syahrun Neizam Mohd Dzulkifli, Mazidah Mukri, Noraida Mohd Saim, Dzulaikha Khairuddin & Siti Hamidah Abdull Rahman	183
36.	E-Module ABRA-Maths - Early Mathematics Learning viaMini Tennis Rahela Abdul Rahim, Haslinda Ibrahim, Fauziah Baharom, Mohd. Rahizam Abdul Rahim & Syahrul Ridhwan Morazuki	189
37.	Enhanced Microwave Heat Susceptor Crucible Assoc. Prof. Dr. Muhammad Azwadi Sulaiman, Fathin Asila Mohd Pabli, Syifa' Muhamad Sharifuddin, Assoc. Prof. Dr. Julie Juliewatty Mohamed & Dr. Norfadhilah Ibrahim	194
38.	Enhancement of Latent Fingerprint Using Dyed Eggshell Powder <i>Kavitha Rajagopal</i>	198
39.	Product Development - E-Personal Possessions Takaful (e-PPT) Siti Hasnulbariah binti Ahmad Rusmili, Nor Ashikin binti Dal Nia, Dania Carmila binti Said, Mohammad Firdaus bin Mohammad Hatta & Norzanah binti Mat Nor	200
40.	E-Pocket Note: An Interactive Video Learning for Effective Online Teaching and Learning Process Norhayati Zamri, Nor Bahiyah Omar, Norul Akma Mansor, Liyana Ab Rahman & Farah Husna Mohd Fatzel	205
41.	The Clauses SMM2 at Construction Site Board Game For (WBLFF) Roseline anak Ikau, Zafikha Aida Bidin, Syamimi Liyana Amat Rais, Amira Shazlin Adnan & Mohd Khairul Fitri othman	210
42.	e-Voting: Votehere4u 2.0 Adib Sarkawi, Aiza Johari, Azlina Bujang & Zainon Haji Bibi	215
43.	IO2TX Dr Sharifah Shafinaz Sh Abdullah, Nur Afini Azwa binti Roslan , Nur Alya Nabila binti Ashariman, Nur Mazmira binti Mohamad Zuki & Nur Nabila binti Omar	220



44.	Waste Segregation through Recycle and Composting Activities among the Community in Urban and Suburban Areas Ts. Dr. Norhafezah binti Kasmuri & SitiNurhafizah binti Abdull Razak	225
45.	Ez-Crutches 2.0: An Innovation of Assistive Device for Disabled Person Suzana binti Yusof, Sharifah Shafinaz binti Sharif Abdullah, Fatimah binti Sham & Norhafizatul Akma binti Shohor	231
46.	Facile-Fabricated Foamed Geopolymer Sphere for Heavy Metal Removal from Wastewater Tan Tee How, Mo Kim Hung, Lai Sai Hin & Ling Tung-Chai	236
47.	Finance and Me (FinME) – A Digital Learning Tool Carolin Ann Enchas, Shafinaz Lyana Abu Talib, Fatin Adilah Razali & Norizuandi Ibrahim	242
48.	Fun with Mathematic and Origami: Water Lily Origami Masnira Ramli, Wan Nurul Husna Wan Nordin, Amirah Sa'at & Nurul Fazila Lakasa	246
49.	Fund for Food: A Campus Food Pantry Toolkit to Help Fight Hunger on Campus Nurul Hafizah Mohd Yasin, Nurhaiza Nordin, Nurnaddia Nordin, Nik Noorhazila Nik Mud & Siti Zamanira Mat Zaib	252
50.	Edible Cookie Cup: Cuppa Cookie Raja Nur Hanisah Binti Raja Zainal Alam Shah, Nur Liyana A'tifah Binti Ahmad Jamalulail, Nur Farah Aqilah Binti Mohd Akram, Amera Nazirah Binti Mohd Yusoff & Noorshaadah Binti Omar	257
51.	GTNLARM21 Ts. Dr. Sharifah Shafinaz binti Sh Abdullah, Assoc. Prof. Ts. Dr. Zulkifli bin Mohamed, Aisyah Fitriah binti Asmala, Nur Fatihah binti Hanif & Nur Hanisah binti Mahadi	262
52.	Gulali Pandan Amelia binti Zaidan, Ainul Hayati binti Abdull Aziz, Nurul Syamilah binti Ismail, Noristisarah Abd Shattar & Siti Noraisah Dolah	267
53.	Hill Paddy Plough Jasrio Liugan, Sainah binti Melulin, Zurhizainih binti Halledy & 'Umairah Abd Khalid	272
54.	Historic Interior Scheme (HIS) Conservation Framework for Heritage Museum Building in Malaysia Norashikin Abdul Karim, Siti Norlizaiha Harun, Salwa Ayob & Zulkarnain Hazim	275



55.	I-Poket Perumahan: Panduan kepada Newbie Mahazril 'Aini Yaacob, Nurul Hidayana Mohd Noor, Hafizah Hammad Ahmad Khan, Zuraini Yaacob & Farah Amirah Fuad	283
56.	Development of HVAC Virtual Laboratory (HV-Lab Version 1.0) Mohd Faez bin Zainol, Ts. Shikh Ismail Fairus bin Shikh Zakaria & Dr. Muhammad Zulkarnain	287
57.	i-Care2u: Easy-To-Use Application Software to Enhance Knowledge and Awareness of Malaysians towards the Rights of Persons with Disabilities Muhammad Fikri Othman, Nur Ezan Rahmat, Norazlina Abdul Aziz, Nora Abdul Hak & Diyana Kamarudin	293
58.	Immersive Learner's Usability and Experience through VMMBG during Covid-19 Pandemic: An Evidence of a Higher Educational Institution Shahreena Daud, Idris Osman, Zarinah Abu Yazid, Norraeffa Md Taib & Amirudin Mohd Nor	297
59.	VCDT: The Virtual Classroom Debate Tutorial Approach Azlyn Ahmad Zawawi, Junaida Ismail, Irwana Nooridayu Mohd Hakimi Noorayuni Rusli & Intan Syahriza Azizan	304
60.	Indikator Teknik Pengajaran Bahasa Arab di UiTM Menerusi Teknologi Nurul Asma Mazlan, Suhaila Zailani @ Ahmad, Zamri Arifin, Mohd Faizulamri Mohd Saad & Nur Aqilah Norwahi	307
61.	Inquiry-Based Reciprocal Teaching Module Ting Pick Dew, Suyansah Swanto & Vincent Pang	311
62.	Instant Beef Stew Nursyadah binti Nordin, Norhidayah bt Abdullah & Muna Shakirah bt Mohamad	316
63.	Integrated Solar-IoT Monitoring and Predictive Maintenance Systems for Irrigation (S-IoTP) Hasyiya Karimah Adli, Ku Azmie Ku Husin, Khairul Nizar Syazwan Wan Salihin Wong & Muhammad Akmal Remli	320
64.	IOT Based Monitoring System for Oyster Mushroom Farming Pondok Seri Permai Pasir Putih Kelantan Muhd Azhar Bin Zainol, Sh Mohd Firdaus Bin Sh Abdul Nasir, Nor Suhada Binti Abdullah, Koay Mei Hyie, Siti Nur Amalina Binti Mohd Halidi, Hazimi Bin Ismail & Lesairuamin Bin Leiahs	325
65.	IoT Based Water Leakage Monitoring System Muhammad Azfar Shazmi Mohd Adnan & Zulkifli Mohamed	334
66.	i-Tabung Dayang Aniisah Mardhiyyah binti Abg Borhanuddin, Mohamad Nornashriq Irfan bin Nordin, Muhammad Akram bin Nazri, Muhammad Azwar Naim	340



74.

bin Amilan, Muhammad Fadhillah bin Mohd Zam Zam, Mohd Fazly bin Mohd Razali & Ima Ilyani binti Dato' Hj. Ibrahim 67. Kaedah Pengajaran CHM510: Dari Sudut Pandang Pelajar 343 Sheikh Ahmad Izaddin Sheikh Mohd Ghazali, Nur Nadia Dzulkifli, Nor Monica Ahmad, Jamil bin Mohamed Sapari, Ahmad Husaini Mohamed & Nurul Nadthira binti Che Awang 68. Ke Arah Kelestarian Kebun Komuniti dalam Usaha Menyantuni Golongan B40 348 Intan Syafinaz Mat Shafie, Yuslina Liza Mohd. Yusof, Nor Irvoni Mohd Ishar, Maryam Jameelah Mohd Hashim, Mohd Fairus Kholid, Muhammad Yasin Ramadhan Zahari & Sharidatul Akma Abu Seman 69. Uniquecare Takaful 353 Muhammad Sa'di Bin Mohd Saman, Nur Aimi Binti Abdul Azis, Mohammad Firdaus Bin Mohammad Hatta & Azlina Binti Hanif 70. #Kıtajagakıta: The Manifestation of Modern Jewellery Design 359 Mohd Faiz Jalaludin, Mohd Hakim Mohd Sharif, Adib Mohd Hasan & Muhammad Shafiq Muda 71. Kombu-Feed: A Nutritive & Prophylactic Alternative for Fish Production 363 Ruhil Hayati Hamdan, Tan Li Peng, Nora Faten Afifah Mohamed, Ain Auzureen Mat Zin & Ahmad Syazwan Samsuddin 72. Kriging Interpolated Rainfall Data in ArcGIS for a Sustainable Flood Modelling 368 Prediction Fahda Nurhani Ahmad Razan, Nur Fatin Nasuha Mhd Khatif & Ir. Nur Azwa Muhamad Bashar 73. Kuasai Rintas: Penulisan Ringkasan Bahasa Melayu Yang Lengkap 373 Gladys Sebi binti Entigar, Noor Haty binti Noor Azam, Milfadzhilah binti Mohd Jamil, Roziana binti Ahmed & Nur Elimtiaz bin Abidin

	in Open Distance Learning Masbiha Mat Isa, Alamah Misni & Faridatul Akma Ab Latif	
75.	LiBCO Noryana binti Ahmad Khusaini, Nur Hasni binti Nasrudin, Mohd Shamsul bin Daud, Noraini binti Abd Rahman, Rosida binti Ahmad Junid & Siti Fairuz binti Ibrahim	382

Landscape Architecture Design Studio-Based Using Process-Evaluation Model

378

76. Limit of Acceptable Change and Recreation Opportunity Spectrum as a Tool in
Developing a Management Plan. A Study in Templer Forest Eco Park &
Templer Forest Reserve



Syahidah Hanani Hamdan, Nur Sabrina Sabri, Muhammad Hazim Zakaria, Khairul Asri, Syanizatul Izreen Kamal, Nor Asma Safuraa Roslan, Ely Rouzee Jamaluddin & Nawfal Kamarul Bahrain

77.	Tweet It! Esl Writing Activity Module Using Twitter Nurshahirah Azman & Zaemah Abd Kadir	393
78.	Malaysian Secondary Boarding School Menu Planning System Suliadi F. Sufahani & Anuar M. Yusof	399
79.	Malaysian Studies Pocket Read Ani Juaini Bahrin, Farhana Yaakub, Firdausi Sufian (Dr), Nurfaizah Abbdullah & Saiful Zizi Jalil	405
80.	Mathematical Thinking Enhancement Program (MaTh-EP) Nurul Akmal Md Nasir, Parmjit Singh & Geethanjali Narayanan	410
81.	Medicine Reminder With Low Battery Alert "MEDMINDER" Syahirah Asyiqin Binti Alias, Luqman Hakim Bin Fazilah Shuhaimi, Khairin Farhana Binti Kharul Anuar, Muhammad Firdaus Bin Mangsor & Suhana Sulaiman	418
82.	Meow-Meow Food Dispenser Using Internet of Things (IOT) Programme Nor Diyana Md Sin, Saifaris Azizi Saiful Azam, Muhamad Danial Osman, Mohamad Zhafran Hussin, Norbaiti Sidik, Khairul Kamarudin Hasan	424
83.	Mesin Penapis Turpentin Turpentine Filter Machine (TFM) Hairulnisak binti Merman, Muhammad Salehuddin bin Zakaria, Aiman Yusri bin Mohamad Yusoff, Aimi Atikah binti Roslan & Azian binti Tahir	429
84.	Mind Your Right Booklet: Awareness on Cyber Defamation Law & Media Suria Fadhillah Md Pauzi, Musramaini Mustapha, Azniza Ahmad Zaini, Suhanom Mohd Zaki & Mohd Aidil Riduan Awang Kader	434
85.	Modelling the Effectiveness of Using Online Food Delivery Services Apps Among Customers in Klang Valley During Covid-19 Pandemic Prof Madya. Dr Rozita Naina Mohamed, Mohd Saifullah Bin Rusli & Prof.Madya. Dr.Halimahton Borhan	440
86.	The Innovation Process Modelling for Ethanol Gas Sensing Using Artificial Neural Network Muhammad Afiq Wazini bin Jemani, Vicinisvarri Inderan, Syahrul Fithry bin Senin, Norain Binti Isa & Lee Hooi Ling	447
87.	The Effectiveness of i-Lab v2 as a Teaching Tool for Online Distance Learning Nur Zaidani Wati binti Mohd Darwis, Noor Raifana binti Ab Rahim, Narita binti Noh & Juwita binti Asfar	453



88.	My Ecredit Banking Apps (MECBA) V3 Wan Razazila Wan Abdullah (Dr), Enny Nurdin Sutan Maruhun (Dr), Norzarina Nordin, Sunarti Halid & Ahmad Saiful Azlin Puteh Salin (Prof. Madya Dr)	459
89.	The Dynamics of MILO (Multimedia Interactive Learning Online) in Role Playing: Enhancing the Learning Process in Covid-19 Pandemic Woo Pak Yuan, Nina Farisha binti Isa & Ezwani Azmi	464
90.	The Continuance of External Review InformationSystem Adoption In Malaysia Mohd Norafizal Abd Aziz, Razulaimi Razali, Nik Rosli Abdullah & Shahrul Azam Abdullah	470
91.	Understanding Islamic Finance Concepts through Innovative Game: Name The Riba Transaction! Azilawati Banchit, Puteri Faida Alya Zainuddin & Lai Tze Wee	479
92.	Natmag Cleaner (Natural Magnificent Cleaner) Hani Hasriena binti Hasrin, Muhammad Firdaus bin Ahmad Nizam, Nur Amalin Batrisya binti Ujud, Deeny Robeatul Adawiyah binti Khairul Anuar & Norzalina binti Jenal	484
93.	New Fundamental Theory in Solving the Royalty Payment Problem Wan Noor Afifah binti Wan Ahmad & Suliadi Firdaus bin Sufahani	489
94.	Notebookly (A Pageless Notebook) Aimi Natasha binti Rujha, Amani binti Mohamad Soree Awankasim, Muhammad Faiz bin Abdul Hamid & Nur Dania Syahirah binti Mohd Asri	492
95.	Nutritious Digital Menu System for Malaysian Religious Primary School Children: Improving Good Memories *Azila M. Sudin, Suliadi F. Sufahani & Mohd A.A. Abdullah*	495
96.	Online Games for Learning Lewis Structure Wan Elina Faradilla Wan Khalid, Tuan Sarifah Aini Syed Ahmad, Nor Akmalazura Jani, Rohaiza Saat & Nurazira Mohd Nor	501
97.	Optimal Charging Schedule of Electric Vehicles Using Evolutionary Programming to Minimise Costs Hasmaini Mohamad, Norhasniza Md Razali, Ahmad Farid Abidin, Nur Ashida Salim & Zuhaila Mat Yasin	506
98.	The Smart Attendance of Microsoft Team (SAMT 2021) in an Online Learning Classroom Wan Normila Mohamad & Zahari bin Md Rodzi	511
99.	Penelitian Terhadap Kepelbagaian Fungsi Bandar Kecil Terhadap Penduduk Setempat di Gemas, Negeri Sembilan Natasya Farhana Nazry, Jahil Manjahil & Farzanna Yashera Abdulla	521



100.	Penentuan Kaedah Mengukur Kesanggupan Untuk Membayar (WTP) Dalam Pelancongan Nabila Farysha Dering & Jabil Mapjabil	525
101.	Penentuan Kecenderungan Tingkah Laku Pelancong yang Berkunjung ke Kota Kinabalu – Psikosentrik dan Alosentrik Farzanna Yashera Abdulla , Jabil Mapjabil & Natasya Farhana Nazry	531
102.	Penentuan Kuasa Beli Pengunjung terhadap Perkhidmatan Pelancongan Terpilih di Bandaraya Kota Kinabalu, Sabah Nurul Izzah Ismail & Jabil Mapjabil	535
103.	The Artificial Neuron Network for Photocatalytic Degradation of Acid Orange 7 Using Cerium Oxide (CeO ₂) Wan Nur'ain Awanis binti Wan Sa'ari, Vicinisvarri Inderan, Syahrul Fithry bin Senin & Nur Fadzeelah Abu Kassim	539
104.	Perception of Digital Reading Material for Academic Purposes among UMK Undergraduates Noor Syamimie Mohd Nawi, Lena Ramamurthy, Syakirah Shafien, Suhaida Omar & Nik Ahmad Farhan bin Nik Azim	544
105.	Perception of Language Awareness through Framegram: A Classroom Example Nik Ahmad Farhan bin Azim @ Nik Azim, Lena A/P Ramamurthy, Syakirah binti Shafien, Noor Syamimie binti Mohd Nawi & Shahidatul Maslina binti Mat So'od	548
106.	Perkasa @ Aps : Solusi kepada Kerapuhan Keluargayang Mempunyai Anak Cerebral Palsy Wan Rohila Ganti binti Wan Abdul Ghapar, Muhamad Fazil Ahmad, Norhashimah Yahya & Rahaya Mat Jamin	552
107.	Poket Peka Undang-Undang Dilettante V2:Pemberhentian Kerja Suria Fadhillah Md Pauzi, Muhammad Asyraf Azni, Suriyati Ujang, Azniza Ahmad Zaini & Ida Rosnita Ismail	556
108.	Power Generation Using Thermoelectric Power Generator with Parabolic Solar Concentrator Aneurin Nanggar anak Nyandang, Ir. Dr. Ts. Baljit Singh A/L Bhathal Singh & Dr. Muhammad Fairuz bin Remeli	562
109.	Prediction of Nanostructure of SnO ₂ Properties Using Artificial Neural Networks *Khadijah binti Mohd Suhami, Vicinisvarri Inderan, Syahrul Fithry bin Senin & Lee Hooi Ling	565
110.	Product Development - e-Ta'awun PA Takaful+ Mohd Faizan bin Mohd Afandi, Norazrisham bin Shamsuddin ,Muhamad Izmul Nizam bin Zubairi , Mohammad Firdaus bin Mohammad Hatta & Mohamad Nizam bin Jaafar	570



111.	Promoting Malayan Emergency State by Using Gaming Platform as An Illustrative Medium Mohammad Nor bin Anwar Hussin	577
112.	ProTecME Rosuzeita Fauzi, Syazwan Firdaus Abu Bakar, Roslinda Isa, Siti Nor Ismalina Isa, Diana Tasha Mohd Nazeri	583
113.	Protein as the Building Blocks of Life Rania Farzana binti Azmi, Azleen Nurkarmilya binti Azami, Nur Shafinaz binti Mohamad Salin & Wan Mazlina Md Saad, PhD	587
114.	Pull Up Crisp Container Mohamad Firdaus bin Shaari, Kamarul Asyraf bin Shamsudin & Nurul Fatihah binti Mohamad Azmi	589
115.	RE Protect-i Mohd Azeem bin Ahmad Zaini, Farid Akmal bin Fadzli, Mohd Saiful Izzat bin Mat Zahari, Wahida binti Ahmad & Mohammad Firdaus Mohammad Hatta	592
116.	ReProDB Web Application (Research Project Database) Jennifah Nordin, Afida Arapa , Ibianaflorinciliana Niane Anthony Aning & Intan Syahriza Azizan	598
117.	Rizbrunana: Advances in High-Fibre Biscuit Using Brown Rice and Banana Peel Nurul Hafizah Mohd Yasin, Derweanna Bah Simpong, Nur Farihin binti Abd Hadi Khan & Mazne Ibrahim	609
118.	Ready-To-Bake (RTB) Cookie Dough Muna Shakirah Bt Mohamad, Norhidayah Bt Abdullah & Nursyadah Bt Nordin	615
119.	RTGreennmFUND: Sejauhmanakah Keberkesanannya dalam Pengurusan Dana Ruang Terbuka Hijau Bandar Nabilaa Mohamed, Thenmolli Vadeveloo, Zarina Mohd Zain & Roni Ekha Putera	618
120.	TCD (Table Connector Design) Ramlan Mustapha, Maziah Mahmud, Surita Hartini Mat Hassan, Siti Norma Aisyah Malkan & Nurul Hidayah Che Hassan	622
121.	Self-Practice Ringkasan (SPRing): An Innovative Mobile Apps for Self-Practice Asmahani Mahdi, Zubaidah Bohari, Abdul Hadi Abdul Talip, Nurul Lizzan Kamarudin & Zainon Haji Bibi	629



122.	Revitalising Heritage Shophouses of Kota Bharu Kelantan Yasmin Mohd Faudzi, Najah Md Alwi, Nor Hafizah Anuar, Juliza Mohamad & Nik Nurul Hana Hanafi	633
123.	Smart 3-Wheel Bike "Empower Disabled Entrepreneurs With Technology" Nurnaddia Nordin, Nurhaiza Nordin & Nur Ilyana Amiira Nordin	638
124.	Takaful Sinar Ihsan Plus Nur Adibah binti Ab Aziry, Erlyn Marlina binti A.Rahman, Nurul Izzaty binti Mohamad Ridzuan & Mohammad Firdaus Mohammad Hatta	642
125.	Smart Keychain Mohd Hifadzly bin Husrin, Adeylson Ray Douni, Muhammad Azlan bin Moh Sali & Edrin Rosley	648
126.	Secured Multi Door Access System as A Web Application Nor Shamshillah Kamarzaman, Norhayati Abdul Jamil, Noraliza Azizan, Jaaz Suhaiza Jaafar & Muhamad Syafiq Ahmad Nazri	652
127.	Standard of Care Framework for Occupier During Pandemic Covid-19 (SOCO): A Facilitation for Understanding Law Relating to Tourism Industry Mohamad Sahizam Musa, Suria Fadhillah Md Pauzi, Shamsinar Abdul Rahman, Mohd Azim Zainal & Ida Rosnita Ismail	657
128.	Development Of Sound System Level Tools "SoQMeT" Muhammad Danial bin Abu Hanafiah, Muhammad Aleef bin Mohamad Yaziz, Muhammad Aiqal bin Mohd Sazali, Adhilla binti Ainun Musir, Nurulzatushima binti Abdul Karim & Daliah binti Hasan	664
129.	Stackable Pinewood Pallet Storage Keeper (SPPiKe) Nurrohana Ahmad, Hazlin Hasan, Sharifah Norhuda Syed Wahid, Mohd Aidil Riduan Awang Kader & Mastura Mohamad	670
130.	Sustainable Hybrid G-W Filter Nur Fatin Nasuha Mhd Khatif, Fahda Nurhani Ahmad Razan, Ir. Nur Azwa Muhamad Bashar & Nurakmal Hamzah	676
131.	Takaphone Takaful Muhammad Waizzulhakim bin Othamannor, Mohd Mazwan bin Mohd Jamil, Mohammad Firdaus bin Mohammad Hatta & Sharifah Faigah binti Syed Alwi	681
132.	Stay@Rural Application Muhammad Faezzul Farhan bin Yazid, Muhammad Hakim Zulqarnain bin Ajis, Mohamad Sazlyzam bin Ledei Dawin@Salim Dawin, Mohd Ashnawi bin Ab Gani & Dr. Spencer Hedley Mogindol	686



133.	Sajadah Pillow Nor Asyiqin Nadhirah binti Roslee Afendi, Sharifah Hafiza binti Abu Bakar, Nur Khaleqa Izzah binti Ikmal Hisam & Siti Hajar binti Md Shahar	689
134.	Pepper Casenitizer Nurfatihah Syahirah binti Zaidi Rahimy, Syahira Nisha Nabila binti Mohamad Shahril, Muhammad Afiq Syahmi bin Rosli, Nur Wani Syamimi binti Yaman & Alvin Gatu	693
135.	My_Watch - Changing the Way We Use Watches Nur Athilla binti Alimin, Nur Hadirah Faqihah binti Zainudin, Siti Nadiah Afiqah binti Suhairi, Joseph Joshua Rumpungan Jr & Adrianna binti Aziz	699
136.	Myeco Application Izz Fitri bin Hairul Sham, Nur Syahirah binti Dzulkarnain, Rosseryn Soubin Lonsiong & Siti Zuraini binti Ramley Alan	704
137.	Multipurpose Pushcart Farah Adlyna Yeoh , Noor Zizy Ameleena binti Jailani , Nur Amiratul Atiqah binti Nur Azli Yaacob & Sairah Saien	709
138.	Multipurpose Handle Stabilizer – To Help You Handle Your Life Nur Athilla binti Alimin, Nur Hadirah Faqihah binti Zainudin, Siti Nadiah Afiqah binti Suhairi, Joseph Joshua Rumpungan Jr & Adrianna Aziz	714
139.	The Travel Amenity Pod Wan Nuramalin binti Wan Hussin, Nur Alissya binti Nazri, Muhammad Takbir bin Arifuddin & Ahmad Fareez bin Yahya	719
140.	Toothbrush 2-In-1 Alice Evana Anak Robert, Latijah Obaun, Staffy Stephen & Christy Bidder	724
141.	Torch Bottle Muhammad Shazwan Puzi, Farzana Suaidah binti Suzaini, Nurul Aina Balqis binti Mohd Khairul Anuar & Nur Murniza binti Mohd Zaidi	727
142.	Tourism Application - Touch Siti Hafizah binti Dzulkarnain, Amira Naqiyyah binti Mustaffa Ma'arof, Nursyahidah binti Hamzah, Nur Hidayah binti Mohammad Hazlan & Boyd Sun Fatt	731
143.	Locallah Muhammad Faliq Aizat M.Amran, Nazmeen Fatima binti Istekhar Ahmad, Nur Izzati Nabilah binti Alias, Adriana binti Mohamad Faizal & Mohd Arsy Ardy bin Mohd Hardy	736
144.	Ez-Train Mobile App Siti Aishah binti Sha'ari, Alirah Itor, Muhammad Faizzudin bin Mohd Shukor, Nur Hazeera binti Madehie & Nurafigah binti Mohamad Musa	741



145.	Eventgo Cassandra Grace anak Hamarah, Nazira Farahin binti Nazarudin, Venessa Kumang Amen anak Victor Luna & Cindy Johnny	747
146.	Duo-Bottle Maybelyna Deborah Dick, Nurashikin Binti Hamzah, Jacqueline Henry & Nurafiqah Binti Mohamad Musa	752
147.	4 In 1 Safety Kit Nur Maisarah Afiqah binti Mazlan, Aina Afriena binti Afandi, Aida Najihah binti A.Lukman, Muhammad Irfan bin Mazlan & Nur Murniza binti Mohd Zaidi	755
148.	Augmented Reality Design: The Study of Property Development Marketing Tools Norzaful Anuwar bin Ahmad Najamuddin	761
149.	SMART Hygiene Kit Dg Kamisah Ag Budin, Jasmine Vivienne Andrew, Faiqah Mawardi, Mohammad Firdaus bin Mohamad & Dayang Haryani Diana Ag Damit	765



RE Protect-i

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ABSTRACT

Climate change is an inevitable and urgent global challenge with long-term implications for the sustainable development of all countries. As part of leading Islamic finance sector in the world, Malaysia can become a pioneer to become an environmentalist to contribute to the nature. Bank Negara Malaysia (BNM) issued a discussion paper on climate change and principle-based taxonomy in December 2019 as a guidance to facilitate financial institutions including takaful operators in identifying and classifying economic activities that can contribute to climate change objective. Malaysia is committed to reduce the carbon emission by 45% by 2030 in Paris Agreement 2016. Therefore, Takaful industry is not quite ready as it is almost not being discussed and it is not encouraging takaful operators to step up. The study aims to promote green environment via takaful product as well as to observe the viewpoints and potential demand on introduction of RE Protect-i in Malaysia. The study collected primary data via survey questionnaires from green energy consumers in Malaysia and secondary data including articles, books and internet resources. The finding of this study is that most of the green users in Malaysia realized the importance of RE Protect-i in Malaysia to improve climate change. In conclusion, RE Protect-i is one of the potential products from Islamic financial institutions (IFIs) and takaful operator that have a significant impact in promoting green environment in Malaysia as well as increase customer knowledge and awareness on the green environment through InsurTech or TakTech. The RE Protect-i gives a significant impact to climate change in Malaysia and helps takaful operators, regulators and policy makers to do further improvement and research related to product. Few studies have addressed the importance of green takaful to climate change which is big gap in the industry.

Keywords: Bank Negara Malaysia, Takaful Operator, InsurTech, Renewable Energy



INTRODUCTION

2% of carbon dioxide (CO2) emissions in 2019 make it the fastest growth in seven years according to the BP Statistical Review of World Energy 2019. It is a global issue and need to be taken into consideration by every country to preserve the environment. The CO2 excessive release will trap all the heat from leaving the atmosphere and cause unnatural warming. This increase in CO2 in the atmosphere is due to activities such as open burning, release CO2 from our cars due to combustion and from the use of natural gases. The government has started the initiative to help us reduce CO2 emission via various industries. All industries can help toplay an important role to help the government. A financial institution such as bank or takaful that contributes to the 3.1% economic growth of service sectors in the first quarter of 2020 can be a tool to contribute to the environment. As part of leading Islamic finance sector in the world, Malaysia can become a pioneer to become an environmentalist to contribute to the nature. This effort is being encouraged by the shariah. Al Baqarah verse number 11: "Do not damage the earth". Al A'raf verse 56: "Don't you cause destruction on Earth. These are the examples in Ouran for human to preserve the environment. Therefore, it is a wise idea and choice for the takaful operators to act as environmentalist and become a pioneer to educate the people on green environment and change the good act into business opportunity instead.

Problem Statement

The main challenge to this initiative for go green environment is when the public discussion on green environment is almost none and becomes a big gap in the takaful industry. Therefore, takaful industry is not quite ready as it is almost not being discussed and it is not encouraging takaful operators to step up (Muhamat et al., 2017). In both developing and developed countries, to take an initiative to a green environment or climate change is not an agenda. Bank Negara Malaysia (BNM) issued a discussion paper on climate change and principlebased taxonomy on 2019. It can be used as guidance to facilitate IFIs including takaful operators in identifying and classifying economic activities that contribute to climate change objective. During the ratification of Paris Agreement in 2016, Malaysia has committed to reduce the carbon emission by 45% by 2030. Government creates a partnership with private and business sectors to address the climate change because it is everyone's business to take care of. This effort as well will become a blessing in disguise for takaful operators to utilize this joint effort into business opportunity. It is parallel to Islamic teaching that preserve the environment and increase on the efficient use and sustainability of the resources and contribute to the green environment. Corporate social performance for Takaful operators is divided into four segments by Carroll (1979), legal, ethical, economic and discretionary responsibilities. By doing so to participate in leading the financial sectors for green environment, takaful can fulfil their discretionary responsibilities and meet all the conditions of being able to serve the society. In view of the above, the main focus of this study is to create a green takaful product which will promote green environment as well.

Objectives of RE- Protect i

The main objective of the study is (1) to create a green takaful product in Malaysia. Other than that, the study aims (2) to promote green environment via takaful product and (3) to implement the Value Based Intermediation guideline from BNM for Takaful Operator point of view.



LITERATURE REVIEW

Green environment is related to the concern of environmental conservation and improved health of the environment. According to World Health Organization (WHO), there are 13 million of death annually worldwide due to environmental causes. These include asthma, chronic obstructive pulmonary disease (COPD), cardiovascular and stroke. According to Wasim Aktar et al. in 2009, exposure to pesticides can affect our hormones in the body. It can even lead to immune suppression and cancer. Since there is an initiative globally to replace standard appliances to energy efficient appliances, it helps millions of these appliances to reduce carbon emission from polluting our air. Nowadays, with the growth of world population and technology, the used natural resource is more than tripled compared to last two decades. According to Environmental Protection Agency (EPA) in USA, switching to energy efficient appliances could help to reduce the carbon emissions by 19%. Taking this initiative and increase the awareness on green environment can protect the planet for future generation. The word "takaful" is a term which comes from the Arabic language whichis masdar or word derived from the word "takāfala" which means mutual guarantee or mutual protection. Takaful is a type of Islamic insurance where the participants contribute money to a pool system where it guarantees each of the participant against loss or damage. A takaful contract is an agreement between groups of individuals to the risk of certain accidents. They agree to protect each other in reducing the harmful effects of such accidents if it befalls one of the members joining the alliance made. Each member is therefore bound to pay a certain amount of contribution as a participation fee also known as premium. Takaful operators are in place where to formulate a strategic roadmap to advance VBI in their business offerings and practices.

METHODOLOGY

This study is conducted to develop green takaful product as well as to observe the viewpoints and potential demand on the introduction of RE Protect-i in Malaysia. The study applies primary and secondary research method. Primary data was collected via survey questionnaires from consumers in Malaysia and secondary data used in this research include articles, books and internet resources (Rusni et al., 2018). The secondary data collection is applied in order to develop green takaful product such as model use, pricing and others. The researchers refer to journal articles and internet sources as guideline to conduct this study. This method guides the researchers to come out with the principal, foundation and underlying contract that will be used in the green takaful product (Nazarov & Dhiraj, 2019). Besides, this study implements quantitative method in which 30 questionnaires were disseminated through online survey such as Google form and the targeted respondents were citizens anywhere in Malaysia to investigate their level of awareness with regards to the general takaful features in Malaysia. In addition, the open-ended questions were included to acquire customers' opinions and perceptions toward green takaful product, hence will increase the reliability and accuracy of the study.

RESULT AND DISCUSSION

RE Protect-i is a comprehensive fire takaful policy designed to meet the needs of green energy users who wish to protect their renewable equipment (RE) such as solar panel or photo-voltaic module (PV) solar panel system installed in the building such as house, commercial officeand factory. The coverage of RE Protect-i in PV solar panel system



includes the solarpanel itself, charge controller, inverter, batteries backup and any other additional declared items which involved in PV solar panel system. RE Protect-i provides the end-to-end protection to protect the valuable asset of the participants. Other than that, this takaful policy also covers personal liability and loss of use due to covered event mentioned unless extra coverage is applied. The policy will run on yearly basis where participants have the right to renew or terminate policy after 1 year. RE Protect-i contract consists of shariah concepts such as Tabarru', Wakalah, Ju'alah, Waqf, Donation, Hibah and Ibra'.

COMMERCIALIZATION VALUE

The estimation percentage of renewable energy shows the increasing of renewable energy from 8% in 2019 to 21% by 2025 (IEA, 2019). According to Energy Commission annual report 2019, Peninsular Malaysia had a population of approximately 26 million that was 99.9% electrified consisting of coal, gas, hydro and solar. Electricity is supplied to industrial consumers (40%), commercial consumers (35%) and domestic consumers (23%) whereby the remaining 2% is supplied to mining and agricultural activities and public lighting (Energy Commission, 2019). In addition, there are almost 7 million properties in Malaysia in 2019 according to the Malaysia Property Market Centre (NAPIC, 2019). Table 1 below shows a huge number of potentials RE Protect-i that can be commercialized in Malaysia which is 539213 properties in peninsular Malaysia. This data can be used to estimate the potential RE Protect-i participants from 2022 to 2025 in line with the increasing of properties year by year, and the most important is the increasing of renewable energy percentage to the consumers in Malaysia that definitely will create more demand to the green takaful product. Table 1 below shows the breakdown of electricity consumer:

Property Property Usage (%) Usage of RE Potential RE Protect-i Type (%) 3.2% 1.74 40% 3761 Industrial 117526 Consumer 2.8% Commercial 584,327 8.67 35% 16361 Consumer Domestic 6,038,315 89.59 23% 1.8% 111105 Consumer NA 2% NA Others NA 0.2%

100%

8.0%

539213

Table 1. Breakdown of Consumers

The premium is derived from claim cost plus expense plus profit. For RE Protect-i, the minimum premium RE Protect-i for domestic consumer is RM 22.004 per year which covered for at least RM20,000, while the minimum premium for Industrial and Plantation consumer is Rm 66.004 which is covered for at least RM60,000 of RE equipment. The premium will be increased if the participant wants to increase the sum insured value depending on the cost of the total PV solar panel system installed in their premises.

100.00

6740168

IP Ownership

The RE Protect-i is in the process of IP registration under Business Innovation and Technology Commercialization Centre (BITCOM).



Novelty and Originality

There is almost none of green takaful product such as general takaful specifically focus on the products that contain any renewable energy. However, instead of introducing a green takaful product, takaful companies introduce paperless policy where all the statements, quotations and policies will be issued via email or online. Therefore, the researchers would like to introduce a green general takaful product for houses, buildings and plantations. Therefore, the novelty of the product is tested to ensure the originality.

Social Responsibilities

The researchers believe that this product can cater to the need of potential contributors. RE Protect-i enables takaful roles to enhance Value Based Intermediation and promote green environment to the community by encouraging more people to use green energy as alternative source of energy for their daily activities and help to reduce CO2 emission.

Design, Display and Packaging of Product

RE Protect-i aims to give a futuristic and sophisticated visual on the product. RE stands for 'Renewable Energy' which basically means that this product is playing in a specific industry which is the renewable energy industry in Malaysia. Protect-i in the name shows that this product offers a type of protection that complies with the Shariah requirements. Protectby definition means to defend or guard from an attack, invasion, loss, annoyance, insult and others. Basically, this product simply offers compensation due to loss or damage after an incident. The compensation can be used for maintenance or purchasing new item. In a way, it 'protects' the item from total loss. RE and Protect-i basically sums up that this product offers a Shariah-compliant type of protection to customers who have installed Renewable Energy equipment in their properties or facilities due to damage from fire, floodand others. This will encourage more people to install RE equipment, and also promote takaful to be a pioneer in the industry. RE Protect-i offers benefits that does not just profit the participants, but also promotes the industry as well such as Ibra' and eligible to claim tax incentives from government which is Green Investment Tax Allowance (GITA) and Green Income Tax Exemption (GITE).

CONCLUSION AND RECOMMENDATION

Renewable Energy industry is growing rapidly around the world. The rise of supports and assistance provided by the government helps to encourage and promote the industry. RE Protect-i aims to be the pioneer of takaful product in the RE industry and hopefully can be a leading one. Based on the survey done by this study, 73% of the participants will purchase or subscribe to a green takaful product for their home or building in the future. Nowadays, even residential houses have started to install solar panel in order to reduce their monthly electricity cost. Therefore, the demand for green general takaful product, not just RE Protecti, will be a huge potential for the takaful industry to jump into. Takaful operators should be the leaders among financial institutions to promote Green Environment via takaful products. The researchers recommend that the RE Protect-i will be marketed and promoted through



effective ways. In the era of digitalisation, the promotion should be in a way of using the online marketing platform or web such as using the robo-advisory to help the potential participants to get more information about this product. The takaful operators, policy makers, and regulators should work together to boost the awareness of the green energy product into Malaysia market. Furthermore, this study also proves that demand for green takaful is not justlimited to buildings and properties. Participants have also listed their interest for green takafulin other industry sectors as well such as transportation and automotive, factory and machinery industry as well as the technology sectors. More green takaful products should be innovated because this is considered as an untapped market.

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