



INTERNATIONAL CONFERENCE ON GLOBAL EDUCATION VI

Theme

The Fourth Industrial Revolution: Redesigning Education

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VOLUME I
VOLUME II

1 - 1046
1045 - 2213

Sub-Theme: Curriculum Development

Title	Page
Irama Muzik Dalam Mempengaruhi Pengupayaan Motor Kasar Kanak-Kanak Sindrom Down – Satu Kajian Kes <i>Suraya Bai & Bainah Mustafa</i>	1 - 5
Fasilitator: Alternatif Strategi Pengajaran Dan Pembelajaran <i>Faridah Shariyah Binti Sharuddin</i>	6 - 15
Pembelajaran Berasaskan Projek (PbP) Menerusi Pertandingan Rekacipta Dan Projek Sains: Keupayaannya Dalam Melahirkan Pelajar Kreatif Dan Inovatif <i>Farihah Binti Mohd. Jamel</i>	16 - 23
The Language Learning Strategies (LLS) Used By Successful English Language Learners (SELL) Of SJK(C) Students In Labuan <i>Fatin Raihana Abd Halim</i>	24 - 32
Klinik Pedagogi: Satu Mekanisma Sokongan Peningkatan Kualiti Pedagogi Guru-Guru Dalam PdP Di Sekolah-Sekolah Band 5 Daerah Kulai. <i>Hairunnisak Binti Alimun, Julia Binti Abdul Muttalip, Zaidah Binti Yusof, Herryan Syah Bin Tupan @ Surian & Mohd Khairulnisa Bin Nashuri</i>	33 - 40
Tahap Pengetahuan Pedagogi Isi Kandungan (PPIK) Guru Pendidikan Islam Dalam Mengajar Jawi <i>Hazlan Bin Atan & Nik Mohd Rahimi Bin Nik Yusoff</i>	41 - 53
Tahap Kecergasan Fizikal Dalam Kalangan Murid Sekolah Menengah Rendah Di Kawasan Tangga Batu, Melaka <i>Liza Mohd Alias, Mohd Radzani Abdul Razak & Erwan Ismail</i>	54 - 62
Pengetahuan Unit Dan Pengunitan Pecahan Dalam Kalangan Guru Matematik <i>Mardhiyah Kharismayanda & Roslinda Rosli</i>	63 - 72
English Proficiency Level Among Students: A Case Study In Polytechnic Ungku Omar <i>Marliana Binti Jamaluddin</i>	73 - 81
Keberkesanan Peta Pemikiran (i-Think) Terhadap Penulisan Karangan Bahasa Inggeris <i>Mazura binti Mohd & Ruslin bin Amir (Phd)</i>	82 - 94
Model Amalan Penaakulan Pedagogi Dan Tindakan Pengajaran Guru Pendidikan Jasmani Sekolah Menengah Daerah Klang <i>Mohamed Faizul Mat Som, Shahrir Jamaluddin, Syed Kamaruzzaman Syed Ali & Mohd Faiz Mohd Baharan</i>	95 - 109
Guru Kreatif Pembina Budaya Cemerlang <i>Mohd Asri Bin Mansur, Faizzah Binti Mohd Zaki, Nor Halina Binti Abdul Razak & Gurmit Kaur A/P Hardeal Singh</i>	110 - 115

Kepekaan Nombor Dalam Kalangan Murid Tahap Satu <i>Mohd Azmi Ismail & Effandi Zakaria</i>	116 - 125
Aplikasi Kaedah Nyanyian Dalam Pembelajaran Pra Literasi Bahasa Inggeris Untuk Kanak-Kanak Pra Sekolah <i>Nor Fazila Binti Bahri & Faridah Binti Yunus</i>	126 - 133
Kajian Tinjauan Sistematis Aplikasi Kemahiran Berfikir Aras Tinggi (KBAT) Dalam Kalangan Pelajar Sekolah Menengah Dan Universiti <i>Nor Izwana Mohamad Ariffin & Effandi Zakaria</i>	134 - 145
Persepsi Guru Terhadap Pelaksanaan Pembelajaran Berasaskan Projek Dalam Mata Pelajaran Sains <i>Norhafiza Haron & Prof Lilia Halim</i>	146 - 162
Sorotan Literatur: Instrumen Pengukuran Kreativiti Sainifik Dalam Sains <i>Nur Erwani Binti Rozi & Lilia Binti Halim</i>	163 - 179
Hubungan Faktor Demografi Dengan Tahap Kebolehan Sains Awal Kanak-Kanak Pintar Cerdas <i>Rajmah Binti Othman, Intan Azlina Binti Abdullah, Hamidah Binti Abdul Hamid, Nor Fauzian Binti Kassim, Dr. Rozana Binti Abdul Rahim & Faridah Binti Abdul Rahman</i>	180 - 192
Kesan Penggunaan M-Pembelajaran Terhadap Sikap Dan Pencapaian Pelajar Bagi Kursus Asas Pengaturcaraan Di Politeknik <i>Rosmawati Binti Jaafar & Mona Masood</i>	193 - 200
Usage Of Educational Courseware Able To Improve Students Achievement On 'Mathematics Year 5-Rounding Off Numbers' In Primary Schools <i>Segar A/L Rajamanickam, Parameshvaran A/L Varaman & Huda Binti Azuddin</i>	201 - 210
Model - Model Pembelajaran Berasaskan Kerja (Work Based Learning) dan Pelaksanaan Di Politeknik Sultan Azlan Shah <i>Shaipul Anuar Bin Mohamed Zainudin & Mohd Amiruddin Bin Ab Aziz</i>	211 - 222
Percontohan Dalam Tajuk Pembezaan Oleh Guru Cemerlang Matematik Tambahan <i>Sharida Binti Abu Talib & Roslinda Binti Rosli</i>	223 - 234
Kebimbangan Matematik, Eikasi Kendiri Dan Pencapaian Matematik Tambahan (Mathematics Anxiety, Self-Efficacy And Additional Mathematics Performance) <i>Siti Zaharah Binti Yahya & Ruslin Bin Amir</i>	235 - 242
Faktor Yang Menyumbang Kepada Pencapaian Akademik Pelajar Terhadap Kursus Fundamentals Of Accounting Di Politeknik Seberang Perai <i>Suraya Binti Yope@Yahya & Suriani Binti Abdul Wahab</i>	243 - 251
The Importance of Using Visual Communications As A Teaching Method For Hearing- Impaired (Deaf) Students In Premier Polytechnics <i>Zanita Ismail, Aziam Mustafa, Noordini Abdullah, Tuty Kamis, Nor Zarina</i>	252 - 260

<i>Pitdin, Siti Mahanum Shaik Ismail, Haryanti Abdullah, Eni Mazriana Massa, Nurfaillah Mohamed Khalid, Nur Aina Shahida Mohd Fadil & Nurshafiqah Mohd Mizan</i>	
Model Perubahan Pencapaian Akademik Pelajar: Pengaplikasian Latent Growth Curve Model <i>Azizah Sarkowi & Norhayati Mohd Saad</i>	261 - 268
Keperluan e-Modul Interaktif Serta Keberkesanannya Di IPTA <i>Rohani Binti M Yusoff, Saw Kim Guan & Rozhan Mohammed Idrus</i>	269 - 278
The Development Of Local Content Curriculum Through The Utilization Of The Prologue Expression Of Jambi Melayu Language Speaker As Strengthening Cultural Identity <i>Andiopenta</i>	279 - 288
Application Of 2013 Curriculum In Improving Children's Partnership Through Montessori Method In Al-Falah Rhaudatul Athfal Tapanuli Utara <i>Widya Masitah & Novia Wahyuni</i>	289 - 294
Curriculum Design Of Culture-Based Character Education In Elementary School <i>Nurlaelah</i>	295 - 297
School Strategy In Improving Literacy Culture At SMP Negeri 2 Bukittinggi <i>Gantino Habibi, Rifma & Hadyanto</i>	298 - 302
Improving Quality And Competitiveness In Islamic Junior High School (SMP) Of Raudhatul Jannah Payakumbuh <i>Yenni Kurnia, Rifna & Alwen Bentri</i>	303 - 307

Sub-Theme: 21st Century

Title	Page
Strategi Pembelajaran Bahasa Arab Dan Tahap Kebimbangan Dalam Kalangan Pelajar Thailand Di Malaysia <i>Alida Samoephop & Harun Baharudin</i>	308 - 320
Mock Class 21 Suatu Instruksional Coaching Ke Arah Pak 21 <i>Asrifah Binti Amirul</i>	321 - 328
Keterlibatan Dan Komitmen Ibu Bapa Dalam Pendidikan Awal Kanak-Kanak Di Pusat Anak Permata Negara <i>Azmaini Binti Isa & Kamariah Binti Abu Bakar</i>	329 - 337
Tahap Kompetensi Pengetahuan Guru Sejarah Dalam Melaksanakan Kaedah Pengajaran Dan Pembelajaran Abad Ke-21 <i>Fazida Ahmad & Nurfaradilla Mohamad Nasri</i>	338 - 346
Aplikasi <i>Gamification</i> Dalam Pendidikan Abad Ke-21: Penggunaan Kahoot! Dalam Pentaksiran Formatif <i>Harlina binti Ishak & Azizah binti Sarkowi</i>	347 - 356
Transformasi Pendidikan: Isu Dan Cabaran Pendidikan Abad Ke 21 Melalui E-Pembelajaran Cidos Di Politeknik <i>Hasnida Ibrahim, Elyn Mohd Ridzwan, & Hamdan Zakaria</i>	357 - 367
Amalan Penerapan Kemahiran Berfikir Aras Tinggi (Kbat) Dalam Kalangan Ibu Bapa Terhadap Anak-Anak Mereka Di Rumah. Satu Perbandingan <i>Kanthasamy A/L Sundara Rajoo</i>	368 - 374
Professional Learning Community Practices In 21st Century Mathematics Learning <i>Mak Wai Fong</i>	375 - 386
Penerapan Kemahiran Insaniah Di Dalam Pengajaran Program Diploma Farmasi Kementerian Kesihatan Malaysia <i>Nik Hasnida binti Nik Leh, & Mohd Isa bin Hamzah</i>	387 - 399
Pembudayaan Konsep Filantropi Melalui Penggunaan Surau Sekolah <i>Nor liza binti Kila, & Noraizan binti Mohsin</i>	400 - 409
Cabaran Penerapan Pembelajaran Abad Ke-21 Dalam Mata Pelajaran Sains <i>Nur Syahfika Abdul Shukor, & Zolkepli Harun</i>	410 - 418
Inovasi Format Penulisan Resipi: Memudahkan Pemahaman Dan Meningkatkan Kadar Keberhasilan Produk Dalam Kelas Amali Kek <i>Nurul Sabrina Binti Khairuddin, & Muhammad Fauzi Bin Ishamuddin</i>	419 - 429
Hotech: Menguasai Kemahiran Menyelesaikan Soalan Bukan Rutin (KBAT) Matematik <i>Richeal Phil Thien Kim How</i>	430 - 443

Tahap Amalan Kemahiran Abad Ke 21 Dalam Pengajaran Dan Pembelajaran Di Kalangan Guru Matematik Sekolah Rendah <i>Rohani Binti Mohamed, & Kamisah binti Osman</i>	444 - 458
The Power Of Concordancer In English Language Teaching (Concept Paper): Progression From Needs Analysis For Malaysian Polytechnic Students (Malaysian And New Zealand Perspectives) <i>Seeni Mehraj Begam Bt V.K.S. Vyzul Karnine</i>	459 - 467
Gaya Pembelajaran Vak : Satu Kajian Dalam Kalangan Pelajar Ddt Polimas <i>Siti Nur Thazliah Binti Mohd Thazali, Salehah Binti Omar, & Noorheeza Binti Mohd Zaidin</i>	468 - 478
Keupayaan Menjana Idea Dalam Menyelesaikan Tugas Di Kalangan Pelajar Program Diploma Kejuruteraan Awam Politeknik <i>Suriati binti Ibrahim, Nurul Izza binti Abdul Ghani, & Nor Ashikin binti Marzuki</i>	479 - 487
Teaching And Learning In The 21st Century Skills Among The Lecturers Of College Community Perak, Malaysia <i>Yufiza Mohd Yusof, Siti Saleha Abd Azis, & Mohamad Asyraf Othoman</i>	488 - 512
Improving Students Vocabulary Mastery On Writing Skill In Anecdote Text Through Media Ficture <i>Nurainun waruwu</i>	513 - 521
Euphemism By The Proponents Of Presidential Candidates 2014 In Facebook Account: Sociopragmatic Perspective <i>Amelia Yuli Astuti, S.Hum., M.Hum.</i>	522 - 530
Implementation Of Character Education In The Framework Of Discipline Attitude At Sd Negeri 02 Payakumbuh <i>Dasril, Syufyarma Marsidin, & Yahya</i>	531 - 534

Sub Theme : Technical and Vocational Education Training

Title	Page
Effectiveness of Moslem Youth Study Activities on Youth Behavior Formation in Mamajang Urban Village Mamajang Sub-District Makassar City <i>Bambang Sampurno, S.Pd.I., M.A</i>	535 - 546
Pemahaman Dan Pelaksanaan Amalan Keselamatan Bengkel Ketika Latihan Amali <i>Ahmad Firdaus Bin Zawawil Anwar</i>	547 - 556
Vocational Education Graduate Competency Indicators: Validity and Reliability Analysis <i>Rodesri Mulyadi, ST, MT & Dr. Ir. Mulianti, MT</i>	557 - 568
Kajian Tahap Peningkatan Kemahiran Insaniah Pelajar Politeknik Melalui Program ‘Touch Point Cabinet Away Fasa 2’ Dalam Pemeraksanaan TVET <i>Nur Bazilah binti Ishak, Hasyimunfazlie bin Muhamad Yusoff, & Zakiah binti Hassan</i>	569 - 578
Redesigning TVET With Problem Based Learning : The Roles and Attributes Of Effective PBL Facilitators <i>Dr. Wan Hamiza Wan Muhd Zin</i>	579 - 590
The Development Of Civic Education Textbook On Legal And Human Rights Awareness For Senior High/ Vocational Schools Through Local Cultural Approach In Indonesia <i>Akmal, Azwar Ananda, Hasrul</i>	591 - 599

Sub Theme: Science, Technology, Engineering & Mathematic (STEM)

Title	Page
The Design And Development Of A Nozzle To Suit Liquid Fuel Thrust Device <i>Ahmad Firdaus Bin Zawawil Anwar</i>	600 -606
Roof Angles Gradient Measurement Instrument (RAGMI) <i>Ahmad Hariss Faizohar b. Ab. Fatah, Suhaimi bin Yajid, Asst. Prof. Dr. Anis Zafirah binti Mustapa</i>	607 - 616
Kajian Perbandingan Rekabentuk Struktur Kekuda Bumbung Keluli Ringan Jenis Howe Dan Fink <i>Ahmad Hariss Faizohar b. Ab. Fatah, Mohd Rushdy bin Yaacob, Asst. Prof. Dr. Anis Zafirah binti Mustapa</i>	617 - 624
A Study of Elimination Scrap Waste on Carpet Floor And Trim Trunk Side Slab In Automotive Industry <i>Hainol Akbar Zaman, Alawiah Abdullah, M. Fitra Aizi M. Fauzi, & Norazanani Tajuddin</i>	625 – 632
Pembelajaran Berasaskan Masalah Dalam Modul Projek 1 Pembangunan Sumo Robot <i>Junainah Hj. Abd Kadir, Mohd Syahrizad Elias, & Amir Abu Bakar</i>	633 – 639
Effect of Alumina On Electrical Tree Growth In Silicone Rubber Nanocomposite <i>M.Hafiz, M.Amini, M.Kamarol, & M.Mariatti</i>	640 -646
A Study To Reducing The Major Defect Rate In Injection Moulding For Cover Door Outside Handle, Rh (Keyless) (D63d) <i>Mohd Nazri Bin Mohd Sabri, Ameeruz Kamal B. Ab. Wahid, Mohd Mizan Bin Abdul Malik & Muhammad Syifaa' Bin Khalapiah</i>	647 - 654
Tahap Kecergasan Dan Penglibatan Murid Sekolah Menengah Luar Bandar Daerah Melaka Tengah <i>Mohd Shafee Bin Sulaiman</i>	655 - 662
Sumbangan Kokurikulum Dan Pendidikan Jasmani Terhadap Kecergasan Fizikal Pelajar <i>Mohd Tarmizi Bin Azeman & Mohd Radzani Abdul Razak</i>	663 - 671
Penglibatan Dalam Aktiviti Fizikal Dan Tahap Kecergasan Dalam Kalangan Murid Sekolah Luar Bandar Di Melaka <i>Noor Azmah Mat Adenan, Mohd Radzani Abdul Razak & Erwan Ismail</i>	672 - 679
The Element For Student Creativity Development: Approach Of Mind Mapping Technique On Engineering Design Creativity <i>N.M.M.Rasidi, S.Abdullah, D.A. Wahab, R. Ramli & R.M. Yassin</i>	680 - 690
Keberkesanan Program Latihan Pliometrik Bersama Kemahiran Sukan Spesifik Dalam Meningkatkan Keupayaan Otot Kaki <i>Nur Alwani Binti Abd Latif & Norlena Binti Salamuddin</i>	691 - 697

Peta Pemikiran <i>I-Think</i> Terhadap Skor Pencapaian Dan Minat Pelajar Kolej Vokasional Dalam Mata Pelajaran Sains Nur Fatin Afiqah Kamaruzaman, & Zolkepli Haron	698 - 711
Kesan Latihan Imageri Ke Atas Tahap Menjaring Bola Jaring Pelajar Pendidikan Jasmani Dan Kesihatan Nurul Fasihah Binti Nasarrudin, & Tajul Arifin Bin Muhamad	712 - 721
Fractal Koch Antenna For Indoor Tv And Fm Reception Ong Hui Niang, Ong Hui Ching & Norzelan bin Saleh	722 - 731
Design And Development Of Fuel Filler Door Polishing Fixture Putri Irda Ab Rahman, Alawiah Abdullah, Mohd Asmedi Yaacob & Khairul Faizah Shahrudin¹	732 - 741
Strategi Pembangunan Sukan Tenis Dalam Kalangan Pelajar Institusi Pengajian Tinggi: Kajian Meta Analisis Robiyatun Abdul Rahman, Wan Ahmad Munsif Wan Pa, & Mohd Radzani Abdul Razak	742 - 750
Aggregation Activity of Lactic Acid Bacteria (LAB) Isolated From Malaysian Fermented Foods. Ismail, S.N., Azmi, N.S., & Essam A.M	751 - 759
Penggunaan Imageri Dalam Kalangan Atlet Kejohanan Hoki Sekolah Berasrama Penuh (Sbp) Peringkat Kebangsaan 2017 Siti Norsuhailah Selamat & Tajul Arifin Muhamad	760 - 769
Review On Optimization of PID Direct Current Motor Speed Control Siti Zaleha Che Harun, & Zaharina Abu Hassan	770 - 778
Implementation Of Rigorous Mathematical Thinking Approach To Enhance Conceptual Understanding And Its Influence On Self-Regulated Learning Of High School Students Fiki Purnawan	779 - 786
The Comparison Of Mathematics Reasoning Ability Between Cooperative Learning Model Type <i>Group Investigation</i> (Gi) With <i>Jigsaw</i> At Smp Negeri 27 Medan Academic Year 2017/2018 Rizky Ikhwan Permana, & Zydny Rizki, Zul Amry	787 - 801
Artificial Intelligence Related To Psychology Juli Maini Sitepu	802 - 807
Enhancing The Capacity Of The Community Farmer Groups Through Institution Of Village Government Institution Titi Darmi, Richardo, & Novi Yanti	808 - 813
Analysis The Effect Of Raw Water Quality On Coagulant Dosage Using Regression And Correlation Methods Rizka Mayasari, & Merisha Hastarina	814 - 823

Practicality Of Problem Based Learning Module On Three Dimensional Space Material In X Grades Students At Sma Ekasakti Padang <i>Refnywidialistuti, S.Si, M.Pd</i>	824 - 829
The Plasticity Index Of Soils For Red Bricks By Burning In Traditional Furnace System For Ancient Building in Sumatera. <i>Ir. Hasnita, MSCE., & Ir. Samsudin Silaen., M.T.,</i>	830 - 837
The Role Of Small And Medium Enterprises (Smes) In Improving The Local Economic Growth <i>Agussalim M, Paulus Insap Santosa, Darmini Roza, & Rina Asmeri,</i>	838 - 844
Math Learning With Scientific Character Based By Using Instructional Media For Geometry Material In Elementary School <i>Nela Sari Yolanda, S. Si., M. Pd.</i>	845 - 851

Sub-Tema: Redesigning Learn Space

Title	Page
Mentor-Mentee: Meningkatkan Pencapaian Dan Motivasi Pelajar Pastri Kolej Komuniti Ledang <i>Aishah Binti Mohd Sidi & Nurul Sabrina Binti Khairuddin</i>	852-859
Pengurusan Iklim Sekolah Dan Hubungannya Dengan Kepuasan Kerja <i>Hamidah Abdul Aziz & Mohd Izham Mohd Hamzah</i>	860 - 865
Model <i>Flipped Classroom</i> : Pendedahan Pelajar-Pelajar Asasi Berkumpulan Besar Dalam Pembelajaran Kognitif Kursus Biologi <i>Ngai Suet Loo & Kamisah Bt. Osman</i>	866 - 878
Tahap Kepuasan Guru Terhadap Pendekatan <i>Flipped Classroom</i> Menggunakan Frog-Vle Dalam Subjek Sains Di Sekolah Menengah <i>Siti Hamidah Binti Mohamad Razali & Lilia Halim</i>	879 - 891
Kepentingan Kaedah <i>Flipped Classroom</i> Dalam Pembelajaran Fizik Di Sekolah Menengah <i>Nurul Fadhillah Binti Alias</i>	892 - 900
Improving Students Comprehension In Learning Porivera By Implementation Cooperative Script Tehnique In Biology Lesson At The X Mia-2 Sma Negeri 4 Padangsidempuan <i>Sri Ningsih</i>	901 - 909
Improving Studens' Writing Skill On Drama Through Number Head Together Technique In Indonesian Language Lesson At The Xi Ipa- 1 Sma Negeri 4 Padangsidempuan <i>Jahrona Sinaga</i>	910 - 917
Effect Of Word Of Mouth (Wom) On Student Decisions Choosing Program Bachelor Degree University Of Muhammadiyah Sumatera Utara With Brand Image As Intervening Variables <i>Mutia Arda, Se, M.Si</i>	918 - 927

The Effect Of Dzikir Practice To Peaceful Mind In The Dzikir Assembly Of Ummahat Ma'rang Padang Lampe <i>Muhammad Syahrul, S.Pd.,M.Pd</i>	928 - 932
Influence Of Social Media And Self Concept Of Style Life Students Sman 3 Solok City <i>Roza Karmila, Azwar Ananda & Junaidi Indrawadi</i>	933 - 939
Analysis Of Effect Of Corporate Image And Customer's Trust To Customer Loyalty In Pt.Pos Indonesia (Persero) Medan <i>Susi Handayani, Se, Mm</i>	940 - 951
Discourse Multy Repercentacy (Dmr) Model Learning On Improving The Result Of Student In Sharia Learning Accounting Subject <i>Isra Hayati</i>	952 - 958
Model Of Teacher Competency Development Smk Padang City <i>Susi Yuliantanty</i>	959 - 964
Analysis Of Factors Affering Lecturer Performance Faculty Of Economics And Business University Of Muhammadiyah Sumatera Utara <i>Dewi Andriany, S.E, M.M</i>	965 - 976
Application Of Learning Problem Based Learn Ing Model At Taxation Accounting Code <i>Zulia Hanum, Se, M.Si</i>	977 - 983
Government Policy On Student Behavior Program For Learning School Students To Increase Learning Achievement (Study On Uptd Education And Culture Of Rimbo Tengah District Of Bungo Regency) <i>Dedi Epriadi</i>	984 - 988
Supervision Contribution Of Head Of School And School Ikim On Teacher Discipline Mtsn Durian Tarung Padang <i>Azvi Rahmi</i>	989 - 994
The Contribution Of The Supervision Of The Head Of School And Teacher Emotional Intelligence On Teacher Performance <i>Handriadi, M.Pd</i>	995 - 1000
Improvement Of Student Learning Achievement Through The Implementation Of Active Learning Method Type Small Work Group <i>Muhammad Elfi Azhar</i>	1001 - 1010
The Application Of Design Thinking Learning In International Community Outreach By Collaborative Approach, Empathy And Local Culture <i>Kartika Ayu Ardhanariswari & Susanti Rina Nugraheni</i>	1011 - 1019
Designing Unfocused Task Based Language Teaching To Improve Students English Speaking Fluency <i>Feby Meuthia Yusuf</i>	1020 - 1029

Student Mental Revolution Model At The Junior High School <i>Sufyarma Marsidin, Anisah, Irsyad, & Tia Ayu Ningrum</i>	1030 - 1037
Development Of The Model Of Character Education At The Islamic Boarding School In Watangpone <i>Dr.Hj. Mardyawati, M.Ag</i>	1038 - 1046

Sub-Theme: Entrepreneurship Education

Title	Page
The Implementation Of Religious Approach “ Alqur’an Suroh Al ‘Alaqa Ayat 1-5” In Increasing Students’ Language’s Competence In English Reading Komprehension On Narrative Text <i>Dr.Siti Masitoh Sinaga.</i>	1047 - 1055
Effect Of Emotional Intelligence To Job Promotion With Performance As Intervening Variable In Pt. Bank Mandiri (Persero) Tbk. Region I Sumatera I Area Medan Balai Kota <i>Willy Yusnanda</i>	1056 - 1063
Effect Of Training And Emotional Intelligence On Employee Performance <i>Salman Farisi</i>	1064 - 1072
Innovation Of Accounting Learning Through Model Addie <i>Henny Zurika Lubis</i>	1072 - 1077
Effects Of Quality Of Taxation And Tax Justice On Perception Of Individual Taxpayers About Tax Evasion (Empirical Study On Kpp Pratama Medan Polonia) <i>Herry Wahyudi</i>	1078 - 1086
The Influence Of The Ratio Of Activity, Profitability And Price To Book Value Against The Price Earning Ratio On Trading Companies In Indonesia Stock Exchange Period Of 2015 – 2017 <i>Novien Rialdy</i>	1087 - 1094
Teacher Competency Development Through The Academic Supervision In Sd Negeri Binaan In North Padang City <i>Erpidawati</i>	1095 - 1101
The Effect Inequality Of Education With Economic Growth In North Sumatera 2010-2014 <i>Christy Haryasti</i>	1102 - 1107
The Influence Of Self Efficacy And Adversity Qoutient (AQ) On Student Achievement In Department Of Economic Education, Faculty Of Economics, State University Of Medan <i>Muhammad Fitri Rahmadana</i>	1108 - 1114
Entrepreneurship-Based Work Partners of Education Board Through Regional Technical Implementation Unit (UPTD) of Medan Learning Activity Center (SKB) as a Realiazation of Work Experience and Poor Household Consumption Management <i>Sujoko Waluyo, Dewi Kartika & Mutiara Shifa</i>	1115 - 1120
Effect Of Ads And Quality Of Products On Decision Of Purchasing Frisian Flag Product In Medan City <i>Nel Ariant</i>	1121 - 1130

Development Of Model Of Credit Distribution For Smes To Anticipate The Development Of Informal Financial Institutions (Case Study: In Smes In Deli Serdang District) <i>Julita</i>	1131 - 1142
The Influence Of Leadership And Compensation Against Employee Performance On Municipal Development Company Kota Medan,Indonesia <i>Jasman Saripuddin Hasibuan,Se,M.Si</i>	1143 - 1149
Planning Analysis Of Receivables And Inventory Supplies In Improving Profitability In Pt. Socfin Indonesia <i>Januri, Se.M.Si</i>	1150 - 1157
Effect Of Parental Financial Management Learning And Financial Education On Student Learning Outcomes <i>Delyana Rahmawanyapulungan, Ade Gunawan, Muhammad Irfannasution</i>	1158 - 1167
The Impact Of An Experiential Learning Approach In Teaching Entrepreneurship Education <i>Annafatmawaty binti Ismail & Nor Izwana binti Mohd Johari</i>	1168 - 1175
Penentu Kejayaan Perniagaan Dan Risiko Yang Dihadapi Oleh Usahawan Perusahaan Kecil Dan Sederhana Mara, Kuala Lumpur <i>Faridah Jaafar, Rahimawati M. Yusoff & Julianti Samsudin</i>	1176 - 1182
Mengenalpasti Faktor Yang Mendorong Penyertaan Kakitangan Kolej Poly-Tech Mara Dalam Gerakan Koperasi <i>Fitriyah Mirojono & Halimah Harun</i>	1183 - 1194
Consumer's Preference Of Life Insurance Product In Shah Alam <i>Natasya Mariz Mohamed, Hazariah Karsahid & Noorlaili Mohd Kassim</i>	1195 - 1200
Students' Intention Towards Entrepreneurship <i>Nor Linda Mokhtar</i>	1201 - 1213
Consumer Behaviour On Social Media Among Students And Staff In Politeknik Sultan Salahuddin Abdul Aziz Shah <i>Norfaizah Binti Abas, Aziam Mustafa, Rahida Binti Ramli, Tuty Kamis, Noorliza Afrizal, Qutreen Nada Ramli, Mumahamad Shazwan Sabri & Safirah Sheku</i>	1214 - 1223
Faktor-Faktor Yang Mempengaruhi Penguasaan Mata Pelajaran Keusahawanan Dalam Kalangan Pelajar Sekolah Menengah Di Melaka <i>Norhafizah Md Yusof & Norasmah Othman</i>	1224 - 1235
Faktor Kecenderungan Minda Teknousahawan Dalam Kalangan Pelajar Institusi Pengajian Tinggi <i>Nur Azira Amran & Radin Siti Aishah Radin A.Rahman</i>	1236 - 1246
Effect Of Organization Commitments And Organization Culture On The Performance Of Employees In Garuda Plaza Hotel Medan <i>Muhammad Arif</i>	1247 - 1259

Application Method Based Learning Project Courses Entrepreneurship Strategy In Students Entrepreneurship Interest <i>Dedek Kurniawan Gultom</i>	1260 - 1268
The Influence Of Compensation And Work Discipline On The Employees' Performance In Pt. Jc Utama Teknik Indonesia <i>Syahraini</i>	1269 - 1274
Improvement Of Students Learning Achievement Through Learning Community Model <i>Maya Sari</i>	1275 - 1285
The Influence Of The Leverage And The Size Of The Company Against Income Smoothing On The Manufacturing Companies Listed On The Indonesia Stock Exchange <i>Elizar Sinambela</i>	1286 - 1294
Effects Of Entrepreneurship Education On Entrepreneurial Motivation And Skills Of Students Of Economics Education, State University Of Medan <i>Putri Kemala Dewi Lubis</i>	1295 - 1303
Analysis Of Construct Validity Of Students Financial Education <i>Desi Astuti, Paham Ginting, Isfenti Sadalia & Amlys Syahputra Silalahi</i>	1304 - 1310
Analysis Of Ratio Liquidity And Ratio Of Activity In Pt. Trans Engineering Sentosa Medan Period 2012-2016 <i>Qahfi Romula Siregar, SE,MM, & Nur Annisa Lestari</i>	1311 - 1322
Conceptual Framework For Preparation Of Sharia Financial Statements For Micro Small And Medium Enterprises <i>Syafrida Hani & Sarwo Edi</i>	1323 - 1328
The Relationship Of Profile Of Entrepreneurial Spirit And Interest In Entrepreneurship Of Economic Faculty student Of Ekasakti University <i>Salfadri</i>	1329 - 1338
The Determinants Of Learning Innovation Of Macroeconomic Theory Of Economic Education Program At Faculty Of Teacher Training And Education Ekasakti University Of Padang <i>Detman, S.Pd, M.Pd.</i>	1339 - 1347
Community Behavior In Managing Waste Composition In Rambatan Market In Tanah Datar Regency <i>Candrianto</i>	1348 - 1359

Sub-Theme: Humanising The Fourth Industrial Revolution

Title	Page
Hubungan Gaya Keibubapaan dengan Tingkah Laku Warga Kerja dalam Kalangan Pensyarah JTMK, Polimas <i>Noorheeza Binti Mohd Zaidin & Siti Nur Thazliah Binti Mohd Thazali</i>	1360 - 1372
Factors Influencing Customer Satisfaction on Medical and Health Insurance Product in Shah Alam <i>Rohayah Adiman, Aziam Mustafa, Siti Rawaidah Mohd Razikin, Ainiza Silim, Nur Fatimah Hassan, Nadhira Lisna Zuber, & Shanthiniswary Gunasegaran</i>	1373 - 1383
Tahap Kebimbangan Kimia dalam Kalangan Pelajar Aliran Sains di Sekolah Menengah Daerah Hulu Langat <i>Fatin Mawaddah Zainuddin & Kamisah Osman</i>	1384 - 1395
Amalan Faktor Pemangkin Guru Berkualiti dalam Kalangan Guru Pendidikan Islam Sekolah Rendah <i>Razila Kasmin, Mohd Faiz Mohd Baharan, & Mashita Abu Hassan</i>	1396 - 1410
Teknik Membuat Papan Cerita: Satu Inovasi Bagi Meneroka Unsur Motivasi Moral dalam Pengajaran dan Pembelajaran Pendidikan Moral di Sekolah Menengah <i>Vasanthan Gurusamy</i>	1411 - 1418
Latihan Kemanusiaan Sukarelawan: Memperkasa Graduan Kolej Komuniti Ledang <i>Mohd Amirul Bin Ramlan, & Zurani Binti Buang</i>	1419 - 1426
Beban Tugas dan Tanggungjawab Guru Pembimbing dalam Penyeliaan Pengajaran Teknik dan Vokasional <i>Shariza Shorkan & Mohd Zolkifli Abd Hamid</i>	1427 - 1440
Hubungan Antara Tahap Tekanan dengan Pencapaian Statistik dalam Kalangan Pelajar Diploma Semester Pertama Kolej Swasta <i>Revathi Valusamy</i>	1441 - 1451
Kompetensi Pengajaran Guru Pendidikan Moral di Sekolah Menengah: Satu Kajian Rintis <i>Mohd Hasaidi Bin Hassan, & Nadarajan Thambu</i>	1452 - 1466
Peringkat Keprihatinan Guru Pemulihan Terhadap Pelaksanaan Program I-Think Menggunakan Model Cbam <i>Farah Ainaa Binti Ad'nan, & Prof. Dr. Hj. Zamri Mahamod</i>	1467 - 1476
Application Of Monopoly Guide Techniques In Career Mentoring To Improve Soultry Entrepreneurs Students In Sma Ekasakti Padang <i>Ibnu Sultan, & Syahdar Makkarodda</i>	1477 - 1486
Factors That Affect The Disclosure Of Corporate Social Responsibility (CSR) In Food And Beverage Subsector Companies Listed On The Indonesia Stock Exchange (IDX). <i>Fitriani Saragih, Se, M.Si</i>	1487 - 1497

Gender and Leadership <i>Imam Hanafi & Fenny Ayu Monia</i>	1498 - 1503
Kepentingan Muzik dan Nyanyian dalam Pendidikan Prasekolah <i>Mohamad Azam Samsudin & Kamariah Abu Bakar</i>	1504 - 1512
Honour Killing dan Modernisasi Hukum Pidana di Berbagai Negara Muslim <i>Nur Fadhilah Mappaselleng</i>	1513 - 1521

Sub-Theme: Education and Technology 4IR

Title	Page
Figurative Language Analysis Used In J.K Rowling Film “Harry Potter And The Order Of The Phoenix” And The Implication For Teaching English Through Literature <i>Darmawan Budiyanto</i>	1522 - 1529
Mainstreaming Of Educational Spiritual (The Position Of Islamic Education Absurdity In Global Civilization) <i>Bisyri Abdul Karim, & Ali Halidin</i>	1530 - 1545
Help Humans From Value Numbers Building Education For Human Not Human For Education <i>Dr. Ali Halidin, Dr. Nursetiawati, & St. Zakiah</i>	1546 - 1557
Enhancing Of Environmental Utility In Educational Counseling <i>Neviyarni S.</i>	1558 - 1564
Effect Of Education Budget In Improving Human Development Index In Indonesia <i>Dede Ruslan, Muammar Rinaldi, & Reza Aditia</i>	1565 - 1571
Interactive Game Application For Learning Mathematics: An Intelligent Tutoring System Development And Student Achievement Evaluation <i>Nur Azlina Mohamed Mokmin</i>	1572 - 1579
Mengupayakan Murid dengan Kemahiran Teknologi Melalui Pembinaan Laman Pembelajaran <i>Fazrina Bt Mohd Tahir & Mohamed Yusoff Bin Mohd. Nor</i>	1580 - 1587
Uart Wireless Trainer” Dikawal Melalui Aplikasi <i>Gauri Birasamy, Julia Sulaiman, Hashamiza Haruddin, & Siti Mariam</i>	1588 - 1595
Perkembangan ICT Dalam Sistem Pendidikan Tinggi Di Abad 21: ICT Sebagai Agen Perubahan Pendidikan <i>Hamdan Zakaria & Hasnida Ibrahim</i>	1596 - 1606
E-Program 95 : Semakan Kehadiran Murid-Murid SMKSB <i>Hanishah Binti Mohd & Mat Arifin Bin Ramli</i>	1607 - 1611

Penggunaan Ac Solar Hybrid Educational Trainer Sebagai Bahan Bantu Mengajar <i>Kafiza Bt Ahmad Kamaruzzaman' Mokhtar Bin Hashim & Mohamed Noor Azman Bin Bidin</i>	1612 - 1620
Keberkesanan Dan Kebolegunaan Koswer <i>Logic Gate</i> <i>Lim Bee Ling, & Norzilawati Binti Abdullah</i>	1621 - 1630
Teknologi Maklumat Terhadap Penerimaan Sistem Pengurusan Pembelajaran <i>Mohd Sanusi Deraman</i>	1631 - 1636
Penggunaan Model Utaut Dalam Mengenal Pasti Kesiediaan Dan Penerimaan Pelajar Jabatan Teknologi Maklumat Dan Komunikasi, Politeknik Seberang Perai Terhadap <i>Mobile Learning (M-Learning)</i> <i>Muna Ishak</i>	1637 - 1650
A Study On Multi-Slot Antenna Operated In 1ghz To 30ghz <i>Nadiyahatul Akmar Binti Abdul Latif, & Mohd Rusmi Bin Abdul Ghani</i>	1651 - 1658
Keberkesanan Sistem <i>Staff Workload Measurement (SWOM)</i> Untuk Politeknik Dan Kolej Komuniti Malaysia <i>Norbaya Bt Mhd Simin, Mazilah Abu Bakar & Rosnani Ahmad</i>	1659 - 1665
Penggunaan ' <i>Basic Electrical Kit</i> ' Sebagai Alat Bahan Bantu Mengajar (ABBM) Bagi Kursus <i>Det1013 Electrical Technology</i> . <i>Norzilawati Binti Abdullah, Aidawati Binti Zakaria, & Wan Sabariah Binti Wan Ismail</i>	1666 - 1673
Keberkesanan Teknik Pengajaran Mudah Perisian Autodesk Revit Dalam Melaksanakan <i>Building Information Modeling (BIM)</i> <i>Nur Hidayah Binti Ahmad & Mohd Erman Bin Derasid @ Nordin</i>	1674 - 1682
Press Play: Students' Perceptions And Attitudes Towards Podcast-Based Learning In Esl Learning <i>Nur Shazwani Shuhami, Muhammad Razuan Abdul Razak, & Hashim A. Rahim</i>	1683 - 1692
The Impact Of Web 2.0 Technology As A Technique To Improve ESL Speaking Skill In The 21 st Century <i>Nurul Ajleaa Binti Abdul Rahman</i>	1693 - 1701
Effectiveness Of Attendance System Using Rfid With "Drive Thru" Technique <i>Nurul Husna Abdul Kahar, Abu Bakar Ibrahim, & Che Zalina Zulkifli</i>	1702 - 1712
Pembangunan Perisian Pengajaran Dan Pembelajaran Bertajuk Pemodulatan Analog Dalam Kursus <i>Communication System Fundamentals</i> <i>Ong Hui Niang, Ong Hui Ching & Norzelan Bin Saleh</i>	1713 - 1720
Keberkesanan Penggunaan Video Animasi Dalam Kursus Kontrak Kewangan Islam Dalam Kalangan Pelajar Politeknik Seberang Perai. <i>Rashidan Bin Bakri, Maisurah Binti Abdul Malik & Noor Akma Binti Abdul Rashid</i>	1721 - 1730

Keberkesanan Penggunaan Video Dalam Pelaksanaan Amali Fusion Splicing Bagi Kursus Dep5313 Di Jke, Psmza <i>Salmi Bt Zakaria, Nadiyah Akmar Binti Abdul Latif, & Aifah Bt Arifin</i>	1731 - 1738
The Development Of Smart Grilling Machine <i>Tan Chin Chai</i>	1739 - 1744
Penggunaan VIRTEST plus 3D dalam Pengajaran dan Pembelajaran Hospitaliti: Satu Kajian kes di Kolej Komuniti Sungai Petani <i>Wei Boon Quah</i>	1745 - 1752
Massive Open Online Course dalam Kalangan Pensyarah Politeknik Seberang Perai <i>Farrah Waheda binti Abdullah & Mohd Rosli bin Saad</i>	1753 - 1765

Sub-Theme: Environmental Education

Title	Page
The Development Of Tunalaras Children Referred From Pattern Of As Parent <i>Mavianti</i>	1766 - 1772
Woman's Leadership Based On Local Wisdom (Case Study Of Wali Nagari Tigo Balai Matur Sub-District Agam Regency) <i>Annisa Fitri, Aldri Frinaldi, & Erianjoni</i>	1773 - 1779
Sharpen Naturalistic Intelligence Through Environmental Education In Childhood <i>Mawaddah Nasution</i>	1780 - 1786
Model of Communication Disaster Risk Reduction Eruption Mountain Sinabung through Table Top Exercise <i>Puji Lestari, Eko Teguh Paripurno, & Arif Rianto Budi Nugroho</i>	1787 - 1795
A Review of Paper Map Conversion <i>Jamaah Binti Hj.Sekon</i>	1796 - 1809
Development Of Solar PV System Towards Awareness And Understanding Of Renewable Energy Among Seberang Perai Polytechnic's Students <i>Mohamad Fadzil Basir Ahmad, & Rafizah Shaharuddin</i>	1810 - 1817
Kelestarian Alam Sekitar Melalui Program Pendidikan Luar <i>Azyani Mohd Azri & Muhammad Hussin</i>	1818 - 1828
Analysis Of The Composite Membranes Seeds Kelor (Moringa Oleifera) Polyvylidene flouride (Pvdf) And It's Utilization On Liquid Coal Waste <i>Marhaini, Legiso, & Neny Rochayani</i>	1829 - 1839

Sub-Theme: Digital Management in Education

Title	Page
The Leadership Style Of Principals That Plays The Role As A Salient Factor For High Performing And Low-Performing Schools In Indonesia <i>Hasmirati, Md. Kamrul Hasan & Dr. Ishak Sin</i>	1840 - 1861
Student's Perception On Application Based Courseware For Digital Electronic: A Case Study <i>Intan Shafinaz Abd. Razak, Zunainah Hamid & Nurzurawani Abd Razak</i>	1862 - 1873
Perception On Cidos Among Commerce Department Students In Politeknik Ungku Omar <i>Mariam binti Samsudin</i>	1874 - 1879
Penerimaan Penggunaan E-Pembelajaran Cidos di Politeknik Malaysia Berdasarkan Model Penerimaan Teknologi (TAM) <i>Mohd Fahmi Bin Md Yusop</i>	1880 - 1890
Penerimaan Pensyarah Kolej Komuniti Terhadap Modul Pembangunan Aplikasi Mudah Alih <i>Mohd Sahar Bin Sulaiman & Syarifah Nurul Farhana Binti Syed Mohd</i>	1891 - 1901
Penguasaan Kemahiran Manipulatif dengan Media Audio Visual <i>Nadirah Kamarudzaman & Zolkepli Haron</i>	1902 - 1912
Amalan Pengajaran Guru Kurikulum Bersepadu Dini Menggunakan Aplikasi VLE Frog di Sekolah Agama Bantuan Kerajaan (SABK) Negeri Selangor <i>Noraizan Mohsin, Mohd Faiz Mohd Baharan & Prof Madya Dr Mohd Nor Mamat</i>	1913 - 1921
Kesediaan Pelajar Kolej Komuniti Ampang Ke Arah Pendekatan Pembelajaran Teradun <i>Nur Aizya Mappissammeng & Mohd Norhisham Dollah</i>	1922 - 1931
Kesediaan Penggunaan Massive Open Online Courses (MOOC) Dalam Kalangan Pelajar Sijil Pengoperasian Perniagaan, Kolej Komuniti Ledang <i>Nurul Ain Binti Azmi & Razzatul Iza Zurita Binti Rasalli</i>	1932 - 1942
Analisis Keperluan Modul Pembangunan Aplikasi Mudah Alih <i>Syarifah Nurul Farhana Binti Syed Mohd, Mohd Sahar Bin Sulaiman & Siti Fatimah Binti Mohd Yassin</i>	1943 - 1951

Sub-Theme: Human Resources

Title	Page
Kursus Kokurikulum Berkredit-PISPA (DRB-5000) Terhadap Kemahiran Generik <i>Amran bin Yunus, Hasmawazi binti Hamzah, & Khairiana binti Razali</i>	1952 - 1965
Tahap Keberkesanan Latihan Ilmiah Mempengaruhi Kebolehpasaran Graduan Jurusan Kemahiran Teknikal dan Graduan Jurusan Kemahiran Generik <i>Aeefi Al Ghazali Mohd Idrus & Muhammad Bin Hussin</i>	1966 - 1975

Kemahiran Insaniah (Keusahawanan) dalam Isu Pengangguran Graduan <i>Farah Arina Binti Wahi Anuar & Muhammad Bin Hussin</i>	1976 - 1983
Mendepani Cabaran Revolusi Industri 4.0: Tahap Daya Saing Dalam Kalangan Pelajar Politeknik (Meeting The Challenges Of The 4 th Industrial Revolution: Competitiveness Level Among Polytechnics' Student) <i>Hasnah Muhamad</i>	1984 - 1997
Pembuatan Keputusan Pilihan Kerjaya dalam Kalangan Pelajar Lepas Diploma <i>Hazariah Karsahid, Noorlaili Mohd. Kassim & Natasya Mariz Mohamed</i>	1998 - 2006
Analisis SWOT Terhadap Pengurusan Kokurikulum di Sekolah <i>Zainal Abidin bin Saad, Che Mas binti Saud, Azizah binti Sarkowi, Nur Nabilah binti Modh Basri, Zakirah Imana Ho binti Abdullah, & Norzaini Hayati binti Baharudin</i>	2007 - 2014
Satu Inisiatif SIPartners+ PPD Gombak : Leadership Sharing Partners (LeShape) Sekolah-Sekolah Daerah Gombak Tahun 2017 <i>Ho Yip Leong, Faiza Binti Hussein, Fahrul Radzi Bin Bustami</i>	2015 - 2024
Amalan Kepimpinan Instruksional Guru Besar Dan Hubungannya Dengan Komitmen Guru: Kebolehlaksanaan Standard 1 SKPMG2 <i>Jaini Darsan & Mohd Izham Mohd Hamzah</i>	2025 - 2035
Gaya Kepimpinan Guru Besar dan Tahap Motivasi Guru di Sekolah Jenis Kebangsaan Tamil Daerah Muar dan Ledang, Johor <i>Mageshuary Rajan & Mohamed Yusoff bin Mohd Nor</i>	2036 - 2049
Kepimpinan Instruksional Guru Besar Dan Efikasi Kendiri Guru dalam Pelaksanaan Program Linus (The Headmaster's Instructional Leadership And The Teachers' Sense Of Efficacy In The Implementation Of Linus Program) <i>Mohd Nazri bin Rasid & Jamalul Lail Abdul Wahab</i>	2050 - 2065
Persepsi Majikan Terhadap Bakal Graduan Politeknik <i>Noorlaili Mohd Kassim, Natasya Mariz Mohamed, & Hazariah Karsahid</i>	2066 - 2074
Kebolehpasaran Kerja Siswazah Lepas Skim Latihan Graduan (SLG) <i>Norfadhilah Bt Hasan, Salmiza Bt Said, & Nazira Bt Yunus</i>	2075 - 2083
Work Integrated Learning (WIL) And Its Practices On The National Dual Training System <i>Norhayati Yahaya, Mohamad Sattar Rasul, & Ruhizan Mohamad Yasin</i>	2084 - 2095
Amalan Kepimpinan Distributif Guru Besar dan Motivasi Guru (Headteachers' Distributed Leadership Practices And Teachers' Motivation) <i>Nur Atiqah Ahmad & Mohd Izham Mohd Hamzah</i>	2096 -2108
Hubungan Daya Tahan dan Potensi Kebolehpasaran di Kalangan Pelajar UNIKL MICET, Melaka	2109 - 2116

(Relationship Between Resilience And Employability Potential Among UNIKL MICET Students) <i>Nurul Adila binti Ahamad Tajuddin & Ruslin Bin Amir</i>	
Pembangunan Modal Insan Holistik Terhadap Keusahawanan Sosial Pelajar IPT <i>Raifana Najlaa Muhammad Marzuki & Nurulhusna Azmi</i>	2117 - 2125
Amalan Pengurusan Kokurikulum dan Komitmen Terhadap Tugas Pengurus Kokurikulum Sekolah (Management Cocurricular Practices And Task Commitment Of School Cocurricular Managers) <i>Shafiq Aizatullah Shaharuddin & Mohd Izham Mohd Hamzah</i>	2126 - 2135
Principals' Leading Role In The Implementation Of Experiential Activities In The New National Curriculum In Vietnam <i>Tran Bao Ngoc</i>	2136 - 2150
Tahap Kepuasan Majikan Terhadap Pelajar Latihan Industri Diploma Teknologi Maklumat (Pengaturcaraan) Politeknik Sultan Abdul Halim Mu'adzam Shah <i>Zakiah Binti Osman</i>	2151 - 2160
Amalan Menyelia Dan Menilai Pengajaran Guru Dan Hubungannya Dengan Amalan Pembelajaran Kolektif Dan Aplikasi Dalam Kalangan Guru Besar Daerah Klang (Teaching Observation And Evauation And Its Relationship With Collective And Application Learning Among Primary School Leaders In Klang District) <i>Zalinda binti Rahmat & Mohd Izham bin Mohd Hamzah</i>	2161 - 2170
Amalan Kepimpinan Instruksional Pengetua dan Hubungannya Dengan Komitmen Guru di Sekolah Menengah Daerah Seremban, Negeri Sembilan <i>Zaliza Md Yasin & Mohd Izham Mohd Hamzah</i>	2171 - 2183
Amalan Kepimpinan Distributif Hubungannya Modal Psikologi di Sekolah Menengah Daerah Putrajaya <i>Zuraidah binti Muda & Mohd Izham bin Mohd Hamzah</i>	2184 - 2196
Legal Studyin The Concept Of "Good-Neighbourlines" And The Concept Of "Peaceful Co-Exixtence" In The Protection Of Migrant Workers Rights From Indonesia In Malaysia <i>Windi Arista, Sh., Mh.</i>	2197 - 2202
Konsep dan Cabaran Pembangunan Modal Insan di Malaysia <i>Mohd Nazri Bin Md Din</i>	2203 - 2213

MODEL OF COMMUNICATION DISASTER RISK REDUCTION ERUPTION MOUNTAIN SINABUNG THROUGH TABLE TOP EXERCISE

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Abstract

Activity eruption mountain sinabung in Kabupaten Karo north Sumatera are still active. Required training preparedness residents surrounding mount sinabung to reduce disaster risk achieved through training the implementation of model contingency plan. This study aims to find models of communication disaster preparedness through training rehearsal a table (table top exercise) or TTX. Models of communication international are thinking base of. Research methodology is done in descriptive qualitative to technique data collection interview, documentation, observation, and focus group discussion (FGD). Fgd participants divided into 8 small group, sectoral planning are divided according to the their respective fields that is management and posts emergency management disaster, sub division of sar and evacuation, sub the field of health and psikososal, sub division of evacuation and dwelling while evacuation, sub division of water and sanitation, sub transport, distribution and logistics, sub the security field and order, sub seeking, sub special field cattle. The results of the study found the implementation of models of communication training disaster preparedness eruption phase of mount sinabung optimal. The communication this is what needs to be improved when there eruption. The results of the study are expected to give their input on the development of contingency plan as a guideline planning for local governments to determine policy further in tackling sinabung the eruption phase of mount Governor of regulation.

Keywords: *models of communication disaster, the ship, training rehearsal the table*

Introduction

Karo district, North Sumatera, having a dormant volcano in 2010 until now. Status is still warning, the mountain of the great eruption on Monday morning (19/2). The impact of the Volcano Observatory Notice for Aviation (VONA) mountain Sinabung up to red. This is the umpteenth time the 2.451 meters above sea level was eruption. Mark the beginning of the year 2010 eruption phase of mount sinabung after 400 years was sleep since 1600 (<https://kumparan.com/@kumparannews/sejarah-letusan-gunung-sinabung>).

The impact of eruption the date of 19 February 2018 perceived by citizens of District Karo and Langkat. A regional disaster management agency set up a (BPBD) District Langkat north Sumatera, noted there were three subdistricts have been affected communities from phase of mount sinabung, Dsitrict Karo, on Monday (19/2) morning as investors bought the. These types are Sei Bingei, Kutambaru, and Bahorok. The distance that sub district leader of a friendly country with the District the land of Karo. The eruption had an amount of impact to the residents of its industrial activity among others many specks of dust a group of volcanic which knock over those three sub-districts black colored and the existence of the also material one and did not stones small. Parties sub district governments Kutambaru revenues from the divestment were to inquire

for and require a mask to its citizens as many as 200 a mask. The disaster struck near the community surrounding Mount Sinabung. A few days after the eruption, things have returned to normal. Nevertheless the community is still kept vigil if a burst of eruption happened again. The regional disaster management agency (BPBD) asks the community keep vigil anticipating the eruption phase of Mount Sinabung in case there is (<http://nasional.republika.co.id/berita/nasional/daerah/18/02/19/p4e612284-bpbd-tiga-kecamatan-terdampak-erupsi-sinabung>).

One of the ways is the BPBD namely renew documents contingency plan eruption phase of Mount Sinabung and conducted a pilot test on the table top simulation. Rehearsal of space is an exercise in the form of a discuss at the level of the decision makers from every institution discuss a case or problems that had occurred in the operation of disaster management based on scenario exercise to improve understanding of SOP, a book of directions, and duties and responsibilities each other (Paripurno, 28 Maret 2018). Rehearsal space was the implementation of models of communication disaster mitigation for reduction risk eruptive Sinabung disaster. The purpose of the dress rehearsal space is validating thought or idea, of the procedure, contingency plan, operating plan, cooperation agreement in the, and other; but also aims to solve problems in running planning and procedures to produce feedback for evaluation and the revision of the contingency plan. Other purposes the implementation of this is the ttx the achievement of the control and coordination between the ability. The parties involved in the process of disaster management need to have competence communication in coordinating. The ability to communicate technically, conceptual kinds of abilities by their respective fields which in synergy with other sectors. Targets are training may provide a test of the concept of contingency plan and standards they can manage the disaster risk reduction eruption phase of Mount Sinabung. Communication and coordination an important aspect that must be controlled the participants that the training was too.

In the science of communication, communication and coordination are very important to establish interaction useful reduce disaster risks. Models of communication relevant by the fact that figure 1

Components that was found in models of communication Berlo

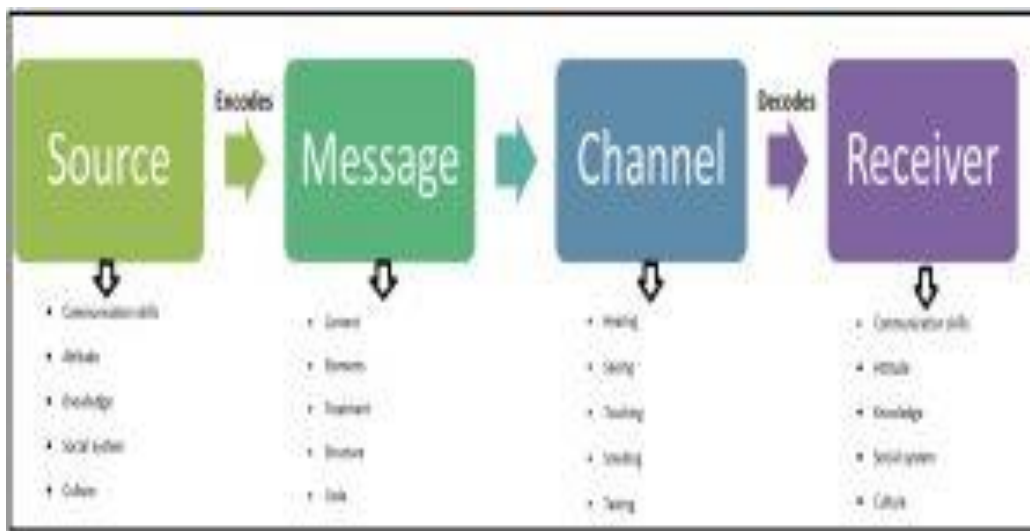


Figure 1. Model Komunikasi SMCR

Models of communication SMCR focused on the process called encoding and decoding occurring was the case before the sending of messages by sender and before message retrieval by the recipient. Some necessary component of the model a communication that which each of the components influenced by some factor that is sender, message, channel, and the receiver.

1. Sender

The sender is the source of a message originates or it can be said as a person who makes a message. The message will be sent by a sender a message to recipients a message. Several factors that could affect the sender and recipient a message, there are:

- a. **Skill in Communication** – Skill regarding communication well should be owned by messaging because the message will be being tasted easier to communicated compared with a message sent by a sender who does not have skill regarding good communication. Skill in communication includes skill in speaking, read, writing, listen to, and others.
- b. **Attitude** – effect a message created through messaging having attitude.
- c. **Knowledge** – Messages can be communicated more effectively if the sender of the message to have knowledge to create message.
- d. **The social system**– There are a few things that might affect the way the sender of the message in communicating the message: places and situations, and as the value of the social system, trust, law, the rules, religion and the others. That creates this there is a difference in create message.
- e. **Culture** – cultural differences become a reason for the difference in delivery of the message.

2. Message

Messages are the real delivered by the sender to recipients message. Messages can be shaped like text, video or the others. Factor of affecting messages are:

- a. **Message content** – Something that is in a message.
- b. **Elements message** – Elements message is about a nonverbal message inherent in the contents of as gesture, a sign, language use as a means of communication, and others.
- c. **Treatment** – Recipients messages will provide feedback because of the effect resulting from the way the sending of messages.
- d. **Structure message** – Pattern the formation of a message affects the effectiveness.
- e. **Code** –A message transmitted in the form of text, video, and others.

3. Channel

The media often used the phone to send a message, for example, the internet as communication media and all the other things used in communication media. Looking at in another form of communication such as communication between two or more persons (interpersonal), and communication is the fifth taste them through panca senses owned by human beings. And the

number of communication effectivity of fifth panca influenced by the human senses, the fifth panca the senses are:

- a. **Hear** – a message that is received through the sense of hearing.
- b. **See** – a message that is received through the sense of vision includes a nonverbal message.
- c. **Touch** – of part of the required a nonverbal message was transmitted through to the touch like her rides on his shoulders of slapping on the.
- d. **Kiss** – a message that is received through the sense of smell.
- e. **Feel** – a message is received via the sense of taste.

4. Receiver

The recipients were from someone who receives a message transmitted by messaging. Several factors affecting recipients message are:

- a. **Communication Skills**– the messages will get message good when having (communication skills skill about speak, writing, read, listening and others) good.
- b. **Attitude** – attitude a consumer message to receive messages..
- c. **Knowledge** – messages will easily well receive the message if the having knowledge.
- d. **Social system**– in a receptive manner a message which will cause the difference in receive messages influenced by a social system as the, trust, law, the rules, religion, and others.
- e. **Culture**– receive messages can be caused by the cultural divide(<https://pakarkomunikasi.com/model-komunikasi-berlo>).

Based models of communication Berlo, so the main questions in the implementation of the TTX namely:

1. Who deliver messages or who did?
2. You delivered or what is done?
3. Media that which is used or means of what is required?
4. When and how to do it?
5. Feedback what is required?

A few questions it was being debated in research findings this, and the evaluation of the implementation of models of communication through TTX disaster.

Research methodology

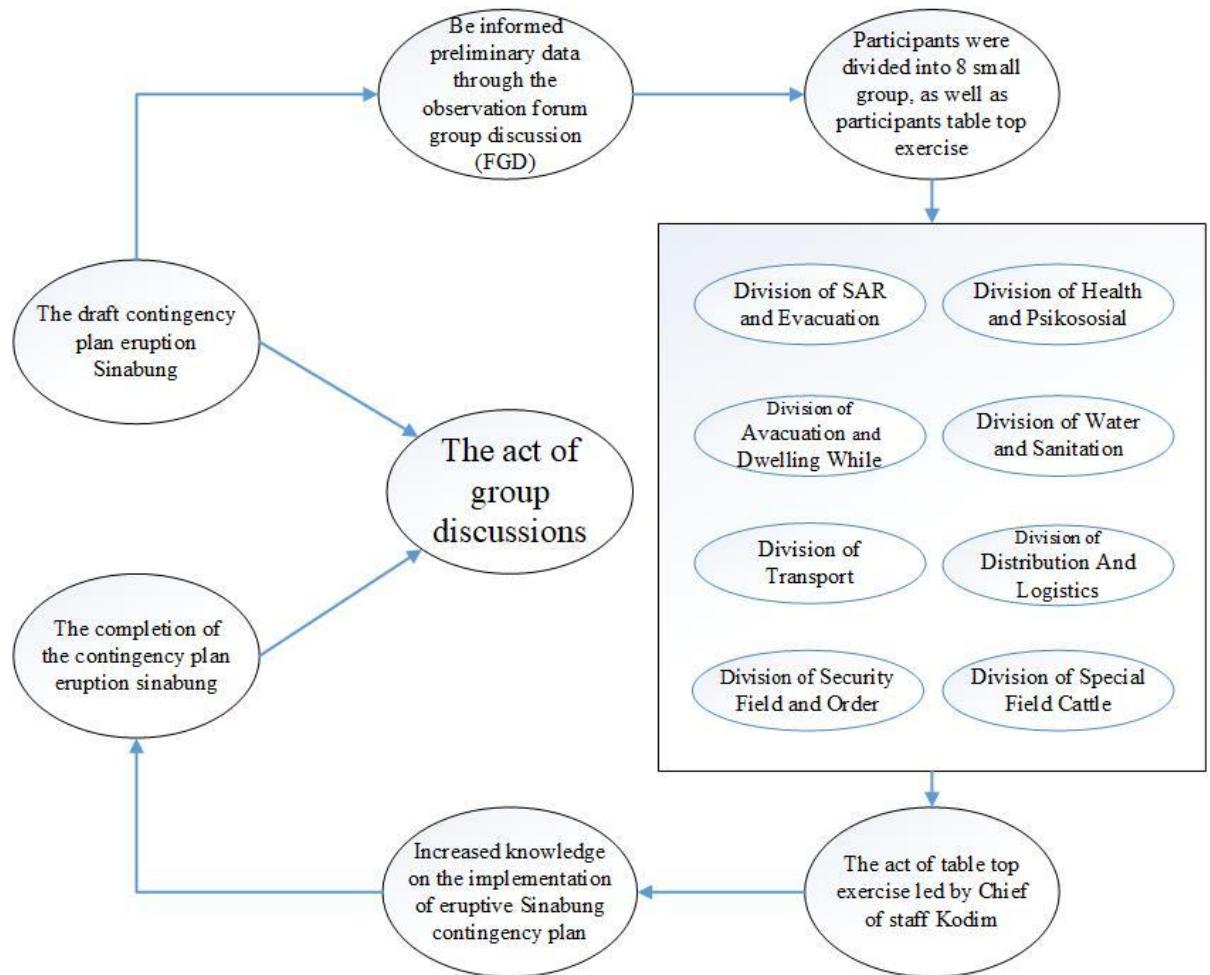
A method of the research was being conducted a sort of descriptive set by applying a technique based on the qualitative data collection to final publication the objective of the interview, documentation, observation, and focus group discussions (FGD) came up with a. The fgd participants divided into 8 clusters of small sectoral planning are divided according to their area there are management and a coordinating post posko for emergency services in charge of disaster management, sub division of sar and evacuation, sub the field of health and psikosial, sub division of evacuation and dwelling while evacuation, sub division of water and sanitation, sub transport, distribution and logistics, sub the security field and order, sub seeking, sub special field cattle.

The interviews were conducted with the officials in order obtain a sufficient set up a special body known as the (BPBD). After fgd were conducted training ttx the bank has led the commandant said, attended by students the works of participants from all administrative sectors, components of the community the victim, and the radical Islamic group agama. Although provided by the private sector. The results of the study have been analyzed in qualitative and made a report on the effectiveness of training TTX.

The Result and Discussion

Of the date of June 2 to March 2015 2018 eruption phase of Mount Sinabung are still in watch out (Putra, 2018). With the status of the watch out the government and the community around the Sinabung is expected to be able to do a variety of activities which could reduce the risk of disaster. One of the activities done by each local government District Karo North Sumatra that is drawing up contingency plan document reform work with researchers disaster in research institutes and devotion the community University of Pembangunan Nasional Veteran Yogyakarta. The draft of the document the renewal of contingency plan to boost production capacity have been arrayed years 2017 (with the assistance of research superior quality compared to other relatively high proportion of land of applied of these higher learning institutes PTUPT). A process must go through before this draft was officially launched as policies effective as bupati regulation is done a pilot project on a continuous model establishment plan contingency. The tests of being done by providing training or the dress rehearsal the table (table top exercise). Training is provided by way of models of communication a group of policy makers in DISTRICT Karo when what is to happen in charge of disaster management, such as a figure 2.

Figure 2. A Group in Models of Communication Table Top Exercise



According to the interviews of researchers with the observers of the observation post of Mount Sinabung (March 27, 2018), disaster handling is the part used from development in the framework of bookkeeping into the fourth paragraph. In its implementation, disaster management becomes the duty and responsibility of local governments together with the wider community. The responsibility that addresses the things that society needs to be caused by a disaster that is one form of the state for citizens.

Article 5 of Law Number 24 the Year 2007 on Disaster Management states that the implementation of disaster management is the responsibility of the Government and local government. Furthermore, Article 2 of Government Regulation Number 21 of 2008 concerning the Implementation of Disaster Management states that Disaster Management is implemented in a planned, integrated, coordinated and comprehensive manner to protect the community from disaster threats, risks, and impacts.

Disaster management in the pre-disaster phase includes activities undertaken in "non-disaster situations" and activities undertaken under the "potential disasters" situation. In the event of no disaster, one of the activities is disaster management planning (Article 5 paragraph [1] letter a PP

21/2008). While in the situation there are potential disaster activities include preparedness, early warning, and disaster mitigation. Contingency Planning by the provisions of Article 17 paragraph (3) of PP 21/2008 shall be conducted on condition of preparedness which produces Contingency Plan document. In the event of a disaster occurring, the Contingency Plan shall be changed into an Emergency Response Operation Plan or Operational Plan after the prior of the Rapid Assessment.

The nature of the contingency plan is "single hazard", this property is only used for 1 (one) type of threat. In some cases the real disaster, there may be a collateral impact or secondary disaster that is a new disaster / catastrophic disaster. For example, developing contingency plans to deal with the earthquake threats that the tsunami follows. It is possible that the earthquake / tsunami impacts in addition to casualties, damage to sectors, and other impacts, may also cause damage to industrial areas where there are many companies / factories that use hazardous materials / chemicals. In such cases, the contingency plan should also take into account emergency handling activities in the industrial sector that may require specific scenarios and coping methods as well as specific resources. Another example, if composing a Contingency Plan for volcanic eruption threats, it is necessary to take into account the possibility of a follow-up disaster or the second disaster of cold lava flood disaster.

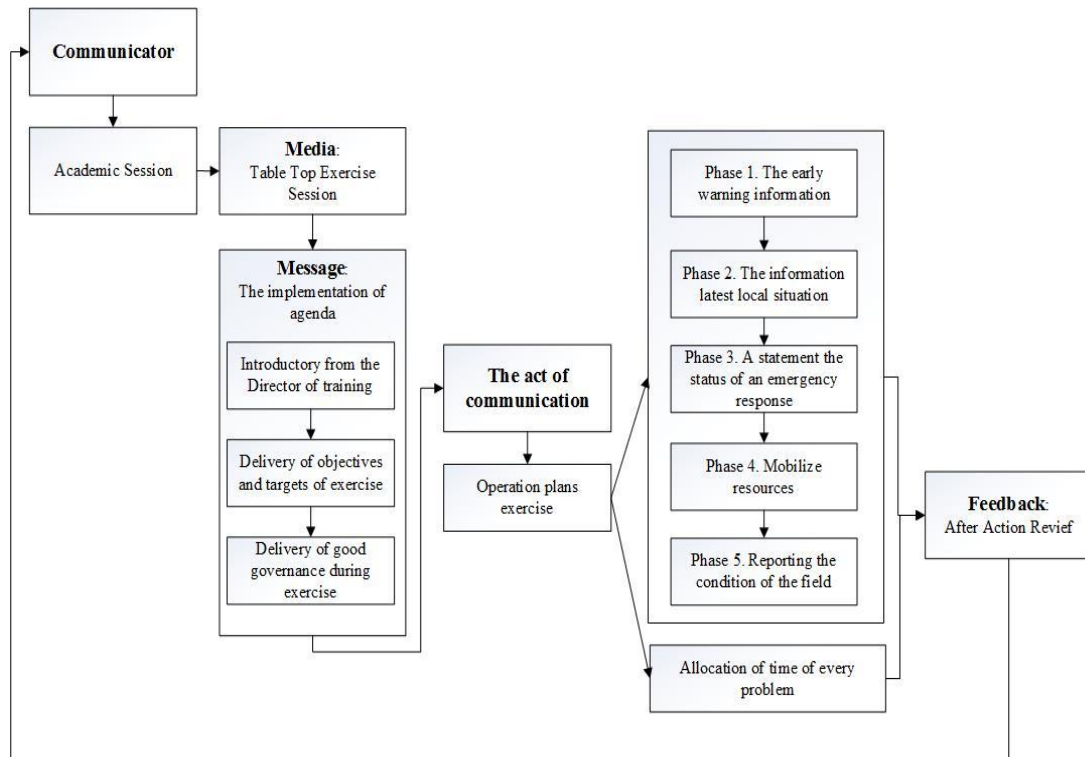


Figure 3. Disaster Communication Model For Disaster Risk Reduction Eruption Mount Sinabung through the rehearsal of the table

The disaster communication model Figure 2 describes the communication aspects that play a role in the training and coordination of the table rehearsal on disaster risk reduction eruption of Mount Sinabung. The communicator gives an explanation of the rules of the game during the training. The role of communicator performed by Dr. Eko Teguh Paripurno, Dr. Puji Lestari, and Arif Rianto Budi Nugroho. Message delivered regarding the implementation of communication model for disaster risk reduction eruption Sinabung. The main messages from Observation Post related

to the status of Mount Sinabung, namely; Normal, alert, alert, and Caution. Each status contains a different message to the community. The message in question is the introductory delivery of the Training Director, the delivery of objectives and objectives in the exercise, and the last one of the delivery of the rules of activity during the exercise. Then there is a communication action which has an exercise training plan in the form of phase and time allocation of each problem. The phases of each problem are:

1. Phase 1. Early Warning Information Stages - Monitoring posts will send information on early warning or disaster that will or has occurred to the Local Government.
2. Phase 2. Situation Stage of Information Situation - Monitoring posts will send progress on the situation to the local government and TNI / POLRI or the community.
3. Phase 3. Emergency Response Status - The Bupati will state the emergency response status and appoint an Emergency Response Command which will prepare and create command structure in enabling the operating plan by the Contingency Plan.
4. Phase 4. Resource Mobilization - The emergency response commands through the Post will mobilize the resources to the disaster site.
5. Phase 5. Field Condition Reporting - Command will report on field conditions on transportation, evacuation and rescue access, refugee camps, vulnerable groups, health, security, economy for deprivation of emergency response status.

The five phases that have been run will get feedback that conveys the compilation evaluation results according to the time allocation. Feedback obtained will be communicated to the communicator.

The results of this study reinforce Roskusumah's findings (2013) that to reduce the risk of Merapi eruption disaster, the government needs to increase the frequency of socialization and simulation of direct disaster to the community at lower levels, not only inviting representatives from government officials only. The Geological Agency should involve observers providing specialized training on disaster technical terms.

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