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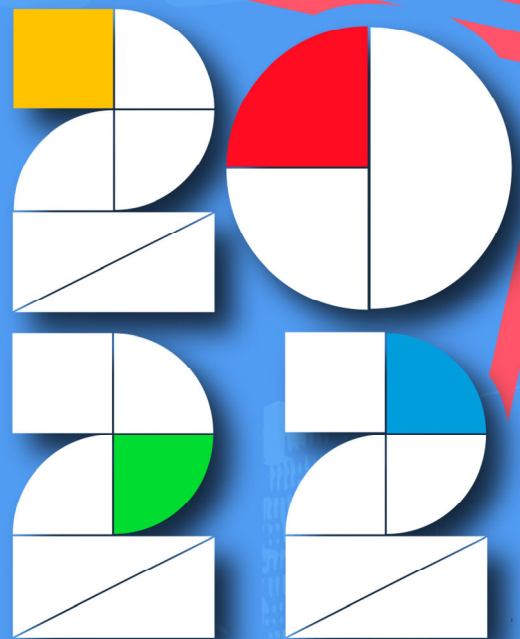
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Reengineering
Knowledge &
Creativity for
Global Excellence

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TECHNOLOGY, SCIENCE, SOCIAL SCIENCES AND
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TeSSH I 2022***

**Reengineering Knowledge and Creativity
for Global Excellence**

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30 June 2022
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Foreword

The papers compiled in these e-proceedings are papers presented online at Technology, Science, Social Sciences and Humanities International Conference 2022 (TeSSH I 2022) held on 30 June 2022 at Universiti Teknologi MARA (UiTM) Cawangan Kedah, Kedah, Malaysia. With the theme, ***Reengineering Knowledge and Creativity for Global Excellence***, the conference has brought together presenters of diverse background who shared their conceptual and empirical papers in broad areas that are subsumed under the fields of Technology, Science, Social Sciences and Humanities. These e-proceedings comprise current researches that were undertaken with the rigorous endeavour of knowledge enhancement to ensure that the world of academia will continue to flourish. It is thus hoped that readers will significantly benefit from knowledge contained in these proceedings.

TeSSH I 2022 and these e-proceedings would not have been possible without the great efforts from the presenters, and the generous support from the TeSSH I 2022 committee members and the Rector of UiTM Cawangan Kedah, Prof. Dr. Mohamad Abdullah Hemdi. A heartfelt gratitude is extended to all involved. It is hoped that these e-proceedings will be an impetus to stimulate further studies and research that benefit the society at large.

TABLE OF CONTENTS

1	A Conceptual Paper on Factors That Affect the Shariah Compliance Auditing Among the Islamic Financial Institutions in Malaysia	1
	Saifulrizan Norizan & Marjan Mohd Nor	
2	A Qualitative Study of Entrepreneurial Intention Among UiTM Kedah Accounting Students During Covid-19 Pandemic	8
	Mazlifa Md. Daud, Noora'in Omar, Muhammad Hariz Hamid, Mohd Hafiz Hashim & Anwar Johari	
3	A Review on By-Laws of Alor Setar City Council (MBAS)	21
	Nor Zaini Zainal Abidin, Nur Irinah Mohamad Sirat & Nurul Mazrah Manshor	
4	Accounting For Agriculture in Malaysia: A Special Attention to Aquaculture	27
	Saifulrizan Norizan, Mohd Halim Kadri, Zarina Abu Bakar & Juyati Mohd Amin	
5	Age-Friendly Environment for Older People: Challenges and Plans	34
	Noorlailahusna Mohd Yusof & Suziana Mat Yasin	
6	Aplikasi Inovasi E2 Kit 1.0 Dalam Proses Pengajaran Dan Pembelajaran Litar Asas Elektrik	40
	Siti Rohaiza Zainol, Noor Aziana Abu Taib & Wan Nadirah Rosli	
7	Basic Of Differentiation Using Three Alternative Approach in Seberang Perai Polytechnic	50
	Siti Faridah Ismail, Rosila Adnan & Rohani Hamsan	
8	Bio Natural Food Seasoning from Eugenia Cephalanthum Using Dehydration Method	60
	Hidayah Julaihi, Theivya A/P Santhanasamy & Felicia Bong Lee Chen	
9	Cabaran dan Masa Depan Muzium Negeri Kedah	68
	Juaini Jamaludin	
10	Co-Integration Between Malaysia Stock Market, ASEAN and ASEAN Plus Three Countries During Pre and Post 14th Malaysia's General Election: A Short Run Analysis	72
	Anas Fathul Ariffin, Muhammad Akmal Hakim & Muhammad Hilmi Samian	
11	Computer Science Students' Learning Preferences, Mental Health, And Emotional Issues During Pandemic Covid-19 While Moving Towards Endemic	78
	Ahmad Faiz Ghazali, Noor Azrin Zainuddin, Ahmad Kamalrulzaman Othman & Yusnita Sokman	
12	Customer's Satisfaction: The Role of Food Quality, Service Quality and Ease of Website in Online Food Delivery	86
	Nur Afifah Aliah Husaini, Norhamizan Hamir, Rashid Salleh & Zamri Ahmad	
13	Digital inheritance: Legal Challenges in Malaysia	98
	Nor Azlina Mohd Nor & Ahmad Shamsul Abd Aziz	

14	Digital Literacy: Presentation Made Easy with ACE Alice Shanthi, Nur Izzah Jamil, Sheela Paramasivam, Siti Noor Dian Ahmad & Mohd Nur Fitri Mohd Salim	106
15	Diploma Students' Perceptions of Online Assessment: The Anchor That Holds Them in The ESL Classroom Jaqueline Susan Rijeng, Imelia Laura Daneil, Kimberley Lau Yih Long, Tang Howe Eng & Christine Jacqueline Runggol	115
16	Evolusi Tadbir Urus Dan Perundangan Wakaf Di Malaysia: Satu Analisis Rohayati Hussin, Mohd Zulharmey Abdullah, Afiffudin Mohammed Noor & Farahdina Fazial	125
17	Exploring Strategies to Reduce Adolescents' Involvement in Risky Behaviours from The Perspective Of A Probation Officer Lina Mursyidah Hamzah, Sharifah Muzlia Syed Mustafa, Nurul Fitriah Alias & Norazah Abdul Aziz	142
18	Factors That Lead to Poor Mental Health of Social Media User among UiTM Kedah Degree Students Nur Elisa Aqila Amir Yusrie, Sarah Sabir Ahmad, Azfahane Zakaria & Mhd Azmin Mat Seman	147
19	How The Covid-19 Pandemic Has Increased the Risk of Compulsive Buying Behaviour And Online Shopping Addiction For Apparel Purchasing In Malaysia: An Overview Of Generation Y And Generation Z Normaziana Hassan, Basitah Taif & Rosita Mohd Tajuddin	155
20	Hubungan Antara Impak Teknologi Maklumat Dan Budaya Organisasi Dalam Kalangan Kakitangan FRIM Nor Arinah Mohamed Zemudin, Muhammad Badri Ishak, Nurul Madiha Mohd Ilham & Wan Nur Syazmira Wan Suhaimi	168
21	Inhibiting Factors to Successful Virtual Teaching and Learning in Engineering Science Topic from the Perspectives of Polytechnic Lecturers Nurul Ain Saipudin, Noorul Amilin Saipudin & Nornazira Suhairom	174
22	Inovasi Sosial Melalui Program Akademik Intensif untuk Pelajar STPM Aliran Sains Tercicir Marinah Muhammad, Wong Hie Ling, Aainaa Syazwani Mohamad Amir Hamzah & NoorJanatun Naim Jemali	183
23	Investigating the Usefulness of TikTok as an Educational Tool in Learning Chemistry Nur Farha Shaafi, Mohammad Mubarrak Mohd Yusof, Nurul Nabilla Mohammad Khalipah & Norhazly Mohd Hanif	187
24	IPQUEUE: Indoor Premises Control Using Quick Response (QR) Code for Covid-19 Pandemic Mohd Suffian Sulaiman, Zuraidah Derasit & Sharizah Shahar	200

25	Kajian Arah Kiblat Liang Lahat Lama Bagi Tanah Perkuburan Islam Syed Idrus Syed Salim & Nor Asmadi Asri	213
26	Keberkesanan Kaedah Masa Hakiki Sistem Penentududukan Sejagat Dalam Penubuhan Stesen Kawalan Kerja Ukur Tanah Asiah Abdul Satar, Nor Azme Nordin & Sulzakimin Mohamed	220
27	Kesediaan Pensyarah Sains Kejuruteraan Dalam Pelaksanaan Mini Projek Secara Hibrid Di Politeknik Tuanku Sultanah Bahiyah Nur Elyani Musa, Shamsul Arif Ismail & Azlina Hassan	229
28	Keunikan Partikel 'Lah' Dalam Terjemahan Surah Yasin di Malaysia Mohd Sufian Ismail & Anida Sarudin	238
29	LEVs As an Assessment Tool for Affective Domain In Laboratory Courses For Diploma In Civil Engineering Narita Noh, Noor Raifana Ab Rahim, Nur Zaidani Wati Mohd Darwis & Juwita Asfar	246
30	Measurements of Customer's Satisfaction towards Courier Services in Malaysia during Covid-19 among Students in UiTM Kedah Siti Nursyahirah Zaffendee, Sarah Sabir Ahmad, Azfahane Zakaria & Mhd Azmin Mat Seman	256
31	Measurements Of Depression Level Among Students in UiTM Kedah Adlin Mohd Anizam, Sarah Sabir Ahmad, Azfahane Zakaria & Syed Mohammed Alhady Syed Ahmad Alhady	264
32	Media Arts as An Art-Based Interventions in the Institutional Care Environment Raja Eda Shabina Raja Raimie, Mohammad Kamal Sabran & Nur Zaidi Azraai	270
33	Mengatasi Kesalahan Umum Yang Pelajar Lakukan Semasa Menjawab Soalan Peperiksaan Sains Kejuruteraan Nur Azilina Abdul Aziz, Koa Chee Hoon & Siti Aishah Azmi	279
34	Pelaksanaan Wakaf Air di Malaysia: Satu Tinjauan Tadbir Urus Dan Perundangan Nurul Mazrah Manshor, Rohayati Hussin, Syatirah Abu Bakar, Nur Irinah Mohamad Sirat & Salmah Roslim	288
35	Pembangunan MOOC Bagi Kursus Foundation Mandarin (Level II) Berpanduan Model ADDIE Ting Hie Ling	294
36	Pengaruh Budaya Merantau Terhadap Evolusi Seni Bina Rumah Tradisional Negeri Sembilan, Malaysia Mohamad Hanif Abdul Wahab, Azizi Bahauddin & Nor Aniswati Awang Lah	302
37	Pengesanan Graduan Kolej Komuniti Jelebu Ketika Pandemik Covid-19 Noor Aziana Abu Taib, Siti Rohaiza Zainol & Zainatul Fakhir Zainon	313
38	Penggunaan iPad Dalam Menambakbaik Interaksi Di Kalangan Pensyarah Dan Pelajar Bagi Kursus Matematik Kejuruteraan 1 Mohd Syukor Che Omar & Azlina Hassan	317

39	Penggunaan Video <i>YouTube</i> Dalam Pengajaran dan Pembelajaran Bahasa Mandarin: Satu Tinjauan Awal	328
	Lee Chai Chuen & Nor Azrina Mohd Yusof	
40	Penguatkuasaan Undang-Undang Dalam Menangani Penyalahgunaan Media Sosial di Malaysia	333
	Ahmad Shamsul Abd Aziz & Nor Azlina Mohd Nor	
41	Penyampaian Amalan Pengajaran Dan Pembelajaran (Laboratory Work) Secara Atas Talian Terhadap Pembelajaran Pelajar Diploma Geomatik Politeknik Sultan Haji Ahmad Shah	343
	Nur Aisah Ab Moin & Asiah Abdul Satar	
42	Pelaksanaan Ujian Pra Sebagai Alternatif Untuk Meningkatkan Pencapaian Markah Pelajar Bagi Kursus DBM20023 Matematik Kejuruteraan 2	351
	Siti Norhazlina Shafie & Rosila Adnan	
43	Persepsi Pelajar Terhadap Penggunaan E-Book Dalam Menyelesaikan Tugas Kajian Kes	359
	Farah Abdul Malek, Rohaida Abu Bakar & Liyana Murni	
44	Promoting Learner Autonomy Through Online Global Interactions Among ESL Students	365
	Sharina Saad, Rafidah Amat & Nor Asni Syahriza Abu Hassan	
45	Remote Learning in The Time of Post - Covid-19: The Conceptual Framework of An Interactive PdPR For Primary School Via Visual Basic Programming	380
	Aslina Omar, Samsiah Abdul Razak, Nur Insyirah Mohamad Radzi & Ini Imaina Abdullah	
46	Strategi Pembelajaran Bahasa Melayu dalam Kalangan Murid Cina di Sekolah Jenis Kebangsaan Cina	385
	Wee Kee Quan, Zamri Mahamod & Shamsul Aizuwani Nawi	
47	Stres Dan Kepuasan Kerja: Analisis Inferensi Faktor Gender Dan Status Perkahwinan Dalam Kepuasan Kerja Pensyarah IPG	397
	Punitha Muniandy, Khairani Zakariya, Azhar Mohd Ali & Ahmad Sukari Mohamad	
48	Student Satisfaction of Public Transportation at UiTM Kedah	408
	Muhammad Azizi Azizurrahim, Sarah Sabir Ahmad, Azfahane Zakaria & Mhd Azmin Mat Seman	
49	Sustainable Smart Retirement City: A Concept Paper	417
	Nazmi @ Nazni Noordin, Zaherawati Zakaria, Mohd Zool Hilmie Mohamed Sawal, Mohd Syahmizan Azmi & Adnan Aminuddin	
50	Teknik Retorik Lafaz-Lafaz Berkaitan Dengan Syaitan Dalam Al-Quran	425
	Muhamad Khairul Anuar Zulkepli, Burhanuddin Wahab, Ahmad Fauzi Yahaya & Mohd Zulkhairi Abd Hamid	
51	The Determinants and Impact of Social Media Content on Consumer Engagement	438
	Marha Abdol Ghapar, Azlina Shamsudin, Nazlin Emieza Ngah & Nur Dalila Adenan	

52	The Distraction That Affects Students Focus	446
	Nur Khalyda Kamarol Hisham, Sarah Sabir Ahmad, Azfahanee Zakaria & Syed Mohammed Alhady Syed Ahmad Alhady	
53	The Effects of Varying the Duty Cycle to The Output Voltage in Buck Converter	455
	Nurhazwani Saleh	
54	The Impact of i-Pulih Model Towards Methamphetamine Addicts Recovery in PUSPEN Tampin, Melaka	462
	Muhammad Dhamir Audi Azizul, Wan Munira Wan Jaafar, Azlina Mohd Khir & Samir Muhazzab Amin	
55	The Implementation of National Education Assessment System in Malaysian Primary Schools	473
	Shanusi Ahmad, Nor Hasnida Che Md Ghazali & Mohd Nazir Md Zabir	
56	The Influence of Leadership Style on Lecturer's Performance	481
	Azlina Shamsudin, Nalin Emieza Ngah, Marha Abdol Ghapar & Nur Dalila Adenan	
57	The Internet Addiction (IA) Among Youth Generation	487
	Muhammad Arif Ikhwan Aminuddin, Sarah Sabir Ahmad, Azfahanee Zakaria & Mhd Azmin Mat Seman	
58	The Relationship Between Curricular Activities Among Students' Leadership	493
	Syarifah Nur Bahirah Syed Jamalulil, Sarah Sabir Ahmad, Azfahanee Zakaria & Syed Mohammed Alhady Syed Ahmad Alhady	
59	The Role Entrepreneurship Education in Moderating Intention to Be An Entrepreneur Among Students With Learning Disabilities In Malaysia	504
	Nazlin Emieza Ngah, Nur Dalila Adenan, Azlina Shamsudin & Marha Abdol Ghapar	
60	The Usage of Open Green Space (Planting Strip Area) at the Perimeter of Terrace House Unit by The Residents: Case Study in Taman Sinar Intan, Sungai Petani	511
	Mohd Zikri Mohd Zaki, Nurul Izzaty Zulkipli, Ahmad Faisol Yusof & Tajul Edrus Nordin	
61	The Use of Scaffolding in Helping Students Complete Tasks That Require Higher Order Thinking Skills	525
	Syakirah Mohammed, Fathiyah Ahmad @ Ahmad Jali, Robekkah Harun & Sharina Saad	
62	Time Passed and How Much Time Is Left? A Study on Motivation to Graduate on Time (GOT)	537
	Nur Dalila Adenan, Marha Abdol Ghapar, Nazlin Emieza Ngah & Azlina Shamsudin	
63	Underground Mapping for Islamic Mausoleum	546
	Syed Idrus Syed Salim, Nor Azme Nordin & Sulzakimin Mohamed	

Co-Integration Between Malaysia Stock Market, ASEAN and ASEAN Plus Three Countries During Pre and Post 14th Malaysia's General Election: A Short Run Analysis

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ABSTRACT

This study aimed to know whether there exists a link between Malaysia stock market with other ASEAN stock markets (Indonesia, Singapore, Thailand, Vietnam, and Philippines) and ASEAN plus three stock markets (China, Japan and Korea) before and after the 14th Malaysian General Election held on 9 May 2018. This paper ran the correlation test to determine the relationship between the stock markets and as a result, the correlation between the stock markets increased after the General Election.

Key Words: Co-integration; Correlation stock markets; Malaysia General Election

INTRODUCTION

Stock market have countless factors that can affect their value. According to a study by Allahwiah and Amro (2012), the internal and external factors have effect on the stock prices of the listed companies in Amman Stock. The study also figured out that inflation rate was the biggest factor that impacted the price while nature of the firm offered the least impact. Another factor that can affect stock market is co-integration. Co-integration is the degree to which two variables are sensitive to the same average price over a specific period. It is important for investors to study the co-integration between the companies. In addition, testing the co-integration between the companies can help investors to decide which companies they should invest their money in. Thus, they have a higher chance to minimize their loss and maximize their profits. According to The Balance (Kuepper, 2020), during the 1997 Asian financial crisis, many Asian countries such as South Korea, Malaysia, Thailand, Indonesia, Singapore, and the Philippines faced 70% loss in their value of stock market and currencies even though they posted impressive growth rates before the crisis. For investors who only invested in these countries, they had to bear higher losses because the countries showed co-integration between them. This can be prevented by studying the co-integration first before they proceed to invest their money.

In addition, every stock has its own pattern and there are market trends such as bull and bear market. Bull market refers to the market that is on the rise or in other words the market is in an uptrend. During a bull market, the country's economy is strong. On the other hand, a bear market refers to a weakening market when the economy of the country is slow, and most stocks are declining in value. Investors cannot run from the downward movement of stock prices. In that case, what they can do to maximize their profit is they have to invest in many stock companies as a mean of diversification. Investing a bigger sum in one area does not necessarily guarantee more profits. They should know whether each company that they have invested in have the integration factor between the companies. If they invest in two companies which have co-integration between the companies, then the investor will have to face bigger losses. Although a company is in a different country, there is still a possibility they have co-integration between them. According to research by Mei, Chien, Te and Hui (2010), they found that from 1994 to 2002 there had at most one co-integrating vector between six stock markets in their study. Overall, China and ASEAN-5 had gradually increased their regional financial integration. Besides that, China and Indonesia have statistically significant and negative result on the estimated coefficients of error correction terms. Meanwhile, the coefficients of other countries are insignificant which means there is co-integration only between China and Indonesia's stock markets.

According to Wuthisatian (2014), a study was conducted on 2 January 1997 up to 19 December 2013 to look at the stock market co-integration. The result stated that Hong Kong showed the highest average of stock price while Thailand had the lowest average of stock prices. It also stated that developed countries tend to exhibit a lower volatility degree than the Asian stock market. Indonesia is a country that have the most volatility market while Thailand has moderate volatility stock market. Volatility is important to investors because they can apply volatility data on expected long-term risks to support their portfolios with the associated expected returns. Hence, investor can reduce their risk by knowing the volatility and apply diversification in investment.

Investors generally do not like uncertainty whereby there is inability to forecast the future value or stock prices. When uncertainty exists or is increasing, investors are more willing to sell off their shares. When the stock market is declining, many investors tend to sell their shares before the value exceeds their stop loss. According to New Straits Times (2019), Malaysian Industrial Development Finance (MIDF) Research said that foreign investor took out RM187.2 million net of local equities in the third week of November 2019. The amount was lower than the preceding week of November 2019 which was RM408.5 million. MIDF Research also stated that RM9.17 billion of local equities was taken out by basis foreign funds from Malaysia, making up 78.4 per cent of the previous year's total foreign outflow of RM11.69 billion. Furthermore, Malaysia created history during the 14th General Election in 2018 when the country's federal opposition, 'Pakatan Harapan' won with a simple majority. One of the hopes after the election was the abolishment of Goods and Services Tax (GST). However, after their victory, Malaysia had to go through various challenges and face economic instability due to transition of government. According to FMT News (2019), since the 14th General Election, Bursa Malaysia's market capitalization had decreased by RM157 billion and the FBM KLCI saw their market barometer dropped to 1,629 points compared to 1,846 points just before the 2018 General Election. Therefore, main objective of this study is to do a short run analysis by studying the co-integration between Malaysia stock market, ASEAN, and ASEAN plus three stock markets before and after Malaysia's 14th General Election.

PREVIOUS STUDIES

Numerous studies have been done by other researchers such as (Narayan et al., 2011; Chien et al., 2015) on the stock markets co-integration and they found long-run and short-run relationship between stock indices of different countries which leads to a possible convergence of stock markets.

In a study conduct by Wuthisatian (2014), using the full samples from 1997-2013 data, explained that there is a weak long-run relationship between Thailand and others 11 major trading markets. In the sample of 1997-2000, Thailand shows strong co-movement with all other markets except Philippines whereas in 2006-2009, Thailand showed that co-integration with other stock

markets is absent. For the remaining sample of 2000-2003, the Thailand market displayed a single co-integration vector with the Korean stock market. The 2003-2009 sub-sample also showed that Thailand market had co-integration with three other markets namely the New York, NASDAQ, and Austria markets. In addition, for the sub-samples 2009-2013, Thailand shared the long-run relationship with the NASDAQ, Malaysia, and Philippines stock markets (Wuthisatian, 2014).

According to Gupta and Guidi (2012), by using the Johansen Co-integration test, Dr. Syriopoulus had confirmed that Central Europe emerging markets and several developed stock markets in 1999-2003 have short and long-run relationship. In another study, Jang and Sul (2002) stated that after the 1997 financial crisis, the co-integration among Asian stock markets had dramatically increased. Chi et al. (2006) added the integration between Asian emerging equity markets with Japanese and US equity market increased immediately after the crisis. Another study by Ariffin et al. (2013) indicated that Nikkinen et al. (2012) shows that during the 2008 global financial crisis, Baltic region offered evidence that their regional stock markets integration was present in their area. Using co-integration test, the study investigated the period beginning 3 January 2004 until 30 June 2009 and found a linkage between developed European stock and emerging stock markets. The result showed the emerging stocks market were segmented before the crisis and highly integrated during the 2008 financial crisis. According to these papers, it can well explain that the existence of the integration between countries stock markets.

METHODOLOGY

This study will retrieve daily index data along with the data on Malaysia's, ASEAN, and ASEAN plus three countries stock markets indices collected from website Yahoo Finance. The data will be collected from 19 September 2016 until 31 December 2019. According to a survey by Jang and Sul (2002), the stock returns data will be calculated using the formula:

$$R = 100 \times [\ln S_t - \ln S_{t-1}]$$

where: R = Stock Return
 S_t = Stock price current year
 S_{t-1} = Stock price previous year

ANALYSIS AND RESULTS

In this section, the results of descriptive statistics and correlation analysis used in this study will be discussed and elaborated. Statistical software namely EViews was used to conduct the analysis.

Descriptive Statistics

Table 1 presents the descriptive of the daily stock returns for the six Asian markets and the China, Japan, and Korea markets during the two periods under investigation. During the pre-General Election all of the stock markets, there is a positive average daily return excepts for the Philippines stock market. As for the post-General Election, this study deduced that Malaysia, Indonesia, Singapore and Japan have negative stock returns while the others five stock markets show positive average daily returns during post-General Election. Among the nine markets, Vietnam recorded the highest average daily stock returns for both the pre-General Election (0.2245) and post-General Election (0.0749). Meanwhile, Philippines recorded the lowest average daily stock returns for pre-General Election (-0.0511) and Indonesia post-General Election (-0.1237).

Based on the standard deviation listed in Table 1, the volatility for the post-General Election increased compared to pre-General Election except for Vietnam and Korea. Both these countries showed decrease in volatility. As can be observed in Table 1, the average stock market returns are not normally distributed for the two sub-periods since all the value of the Jarque-Bera are highly

significant and these values lead to the rejection of the null hypothesis of normal distribution which is (H_0 : normally distributed).

Table 1 Descriptive Statistics of the Stock Returns

Period	Mean	Standard Deviation	Jarque-Bera	Probability
<u>Malaysia</u>				
Post-General Election	0.0172	0.5320	170.3138	0.0000
Post-General Election	-0.0537	0.6971	248.2778	0.0000
<u>Indonesia</u>				
Post-General Election	0.0754	1.1585	1699.7250	0.0000
Post-General Election	-0.1237	1.6277	2458.7980	0.0000
<u>Singapore</u>				
Post-General Election	0.0432	0.7521	74.0045	0.0000
Post-General Election	-0.0594	0.8911	72.3343	0.0000
<u>Thailand</u>				
Post-General Election	0.0714	0.7562	1369.3290	0.0000
Post-General Election	0.0025	0.8519	32.7452	0.0000
<u>Vietnam</u>				
Post-General Election	0.2245	1.1935	773.6141	0.0000
Post-General Election	-0.0594	-0.0594	243.9603	0.0000
<u>Philippines</u>				
Post-General Election	-0.0511	1.0886	67.3860	0.0000
Post-General Election	0.0699	1.12472	69.4910	0.0000
<u>China</u>				
Post-General Election	0.0946	1.3814	121.4758	0.0000
Post-General Election	0.0562	2.4123	985.3606	0.0000
<u>Japan</u>				
Post-General Election	0.0857	1.1583	966.8113	0.0000
Post-General Election	-0.0307	1.41125	1281.6130	0.0000
<u>Korea</u>				
Post-General Election	0.0857	1.1583	966.8113	0.0000
Post-General Election	0.0181	0.9824	57.6839	0.0000

Correlation Analysis

Table 2 shows the correlation of the stock returns for the two sub-periods and highlights the short-run relations between the movements of the nine stock markets. Correlation coefficient is used to measure the extent of the association between stock markets. Before Malaysia's General Election, Korea recorded the highest correlation relations with Singapore (0.5113) which means the stock markets have strong positive linear relationship whereas the lowest correlation relation for the pre-election are China and Thailand (0.0437) which mean weak relationship between the stocks. After the 14th General Election, Korea and Singapore recorded the highest correlation (0.5349) again while Malaysia recorded the lowest correlation with China (0.1082). However, all the correlation of the stock returns showed positive value. This indicates that all the stock return pairs showed positive relationship. Table 2 also showed that the correlation for each stock markets from before the General Election was higher after the votes were counted. This situation also means that the short-run interactions among pairs of the stock markets returns appear to be increasing. This finding is consistent with Abd Majid et al. (2009) who suggested that the change in the correlation coefficient among ASEAN markets proves that limited short-term diversification benefits within the region.

Table 2 Correlation of the Stock Returns for the Two Sub-periods

Pre-General Election periods									
	IDX	KLSE	KOSPI	MSCI	NIKKEI	PSEI	SET	SZSE	VN
IDX	1.0000								
KLSE	0.3191	1.0000							
KOSPI	0.2666	0.4021	1.0000						
MSCI	0.2136	0.3771	0.5174	1.0000					
NIKKEI	0.1589	0.2946	0.4928	0.5013	1.0000				
PSEI	0.3262	0.4063	0.3165	0.3004	0.2743	1.0000			
SET	0.2963	0.2103	0.2889	0.3772	0.2774	0.1670	1.0000		
SZSE	0.1343	0.1417	0.3310	0.2470	0.2438	0.1333	0.0437	1.0000	
VN	0.1850	0.0944	0.1470	0.1002	0.1625	0.1340	0.1919	0.2551	1.0000
Post-General Election Period									
	VN	SZSE	SET	PSEI	NIKKEI	MSCI	KOSPI	KLSE	IDX
VN	1.0000								
SZSE	0.3615	1.0000							
SET	0.1673	0.2415	1.0000						
PSEI	0.2384	0.1622	0.2453	1.0000					
NIKKEI	0.2843	0.2561	0.1825	0.2767	1.0000				
MSCI	0.2949	0.4037	0.4256	0.3438	0.4115	1.0000			
KOSPI	0.3387	0.3918	0.3888	0.3379	0.4910	0.5349	1.0000		
KLSE	0.1977	0.1082	0.3423	0.3944	0.2709	0.3917	0.3968	1.0000	
IDX	0.1692	0.1553	0.1762	0.3540	0.1689	0.3378	0.2949	0.2978	1.0000

Notes: -

KLSE = Malaysia
IDX = Indonesia
SET = Thailand

MSCI = Singapore
PSEI = Philippines
VN = Vietnam

KOSPI = Korea
NIKKEI = Japan
SZSE = China

CONCLUSIONS

Information ranging from 19 September 2016 to 31 December 2019 for Malaysia, ASEAN and ASEAN plus three markets had been used to examine the co-integration relationship between the stock markets. To determine whether the data have meaningful relationships between the stock markets in the short run, various econometric tests had been used. First, descriptive statistics had been used to know whether the data are normally distributed or not. The result from this test confirms that the data are normally distributed. The correlation analysis was then run to find the short-term relationship between the stock market. Before the 14 Malaysia General Election, this study found that the highest correlation with Malaysia Stock Market is Philippine (0.4063) and the highest correlation with Malaysia Stock Market was recorded for the after General Election is Korea Stock Market, which is (0.3968). Even though the result show weak relationship but the relationship is positive.

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