

MODEL KONSEP INTEGRITI KE ARAH PENINGKATAN KUALITI
PENILAIAN RAKAN (*PEER ASSESSMENT*)

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Tesis ini dikemukakan sebagai
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DEDIKASI

Teristimewa buat...

Ayahanda, bonda dan ibu tersayang...

Zainal Abidin Bin Bahari,

Almarhumah Patmah Bte Saad,

Ramlah Binti Jusoh

Serta ibu yang membesarku dengan penuh rasa cinta...

Ishah Binti Abdulah

Keluargku Tercinta...

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ABSTRAK

Penilaian rakan memerlukan seseorang pelajar untuk menilai hasil kerja rakan mereka dalam sesuatu tugas. Namun, penilaian rakan ini kurang diamalkan di institusi pengajian tinggi kerana kualiti penilaian ini masih diragui terutamanya dari aspek integriti pelajar sebagai penilai. Sehubungan itu, kajian ini mencadangkan satu model integriti ke arah peningkatan kualiti penilaian rakan. Kajian ini dijalankan menggunakan reka bentuk *multiphase* yang terdiri daripada tiga (3) fasa. Pada fasa I (Analisis dokumen dan temu bual), dokumen daripada tahun 2010 hingga 2018 telah digunakan dan temu bual daripada enam (6) pakar dalam bidang Pendidikan Teknikal dan Vokasional (PTV) telah memperoleh tiga (3) elemen integriti iaitu, Integriti Diri (Motivasi diri, keberanian, disiplin diri, dan ketelusan), Interaksi Sosial (Kejujuran, keadilan, konsisten, amanah, dan perpaduan), dan Komitmen Kerja (Usaha, tanggungjawab, dan etika). Bagi fasa II (Pembangunan instrumen) pula, teknik *Modified Delphi* (MD) digunakan bagi memperoleh konsensus daripada pakar mengenai item-item yang dibina. Hasil daripada persetujuan pakar MD terdapat 90 item digunakan dalam kajian rintis I dan dianalisis menggunakan *Winsteps*; dan 19 item telah disingkirkan. Seterusnya, Kajian rintis II dijalankan bagi tujuan mendapatkan kesahan dan kebolehpercayaan item yang digunakan menggunakan *Exploratory Factor Analysis* (EFA). Hasil analisis EFA mendapati 3 item bertindih dan disingkirkan bagi menjalankan fasa akhir. Pada Fasa III (Pembangunan model), sebanyak 543 soal selidik telah dianalisis dengan menggunakan *Structural Equation Modelling* (SEM-AMOS). Hasil *Miximum Likelihood Estimates* menunjukkan nilai C.R $> \pm 1.96$ bagi pekali regresi antara integriti dan kualiti penilaian adalah positif dan signifikan ($\beta = 0.85$, C.R = 12.558, $p < 0.001$). Ini menggambarkan bahawa integriti mempengaruhi kualiti penilaian. Manakala, kesediaan memperuntukkan masa merupakan *partial mediator* ($rc=0.23$) yang sederhana penting kepada integriti dan kualiti penilaian rakan secara tidak langsung. Namun, jantina merupakan *full moderator* kepada kesan integriti terhadap kualiti penilaian rakan kerana pelajar perempuan mendapatkan nilai $\Delta\chi^2 = 16.754$ lebih besar daripada 3.84 berbanding dengan lelaki iaitu nilai $\Delta\chi^2 = 3.218$. Model integriti boleh dijadikan sebagai satu model panduan yang digunakan oleh pensyarah bagi mengaplikasikan penilaian rakan secara sistematik dan meramalkan kemungkinan yang akan berlaku semasa aktiviti penilaian ini dijalankan.

ABSTRACT

Peer assessment (PA) requires students to evaluate their peers' work in an assignment. However, peer assessment less popular in higher educational institutions since the quality issue has been questioned, especially the students' integrity. Therefore, this study proposes PA integrity model to improve the peer assessment quality. This research was developed using a multiphase design within three (3) phases. In Phase I (Document analysis and interview), the documents from 2010 to 2018 are used and interviews of six (6) experts in Technical and Vocational Education (TVE) yields three (3) elements of integrity, namely Self-Integrity (self-motivation, courage, self-discipline and transparency); Social Interaction (honesty, fairness, consistency, trustworthiness and unity); and Work Commitment (effort, responsibility and ethics). In Phase II (Instrument development), the Modified Delphi (MD) technique was used to obtain consensus from the experts on the items being developed. As a result of the MD experts' consent, 90 items were used in Pilot Study I and analyzed using Winsteps; in this case, 19 items were removed. Next, Pilot Study II was conducted to obtain the item validity and reliability through Exploratory Factor Analysis (EFA). The results showed that 3 items overlapped and removed in order to proceed to the final phase. In phase III (Model development), a total of 543 completed questionnaires were analysed using Structural Equation Modelling (SEM-AMOS). The results; the Mixed Likelihood Estimates indicate that the value of $C.R > \pm 1.96$ for the regression coefficient between integrity and the quality of the peer assessment was positive and significant ($\beta = 0.85$, $C.R = 12.558$, $p < 0.001$). This indicated that integrity influenced the quality of the peer assessment. Meanwhile, the provision of time allocation was a partial mediator with moderate $rc=0.23$ of the integrity and quality of peer assessments. However, gender was a full moderator of the impact of integrity on peer assessment's quality, as female students record a value of $\Delta\chi^2 = 16.754$, which was greater than 3.84 compared with the males with a value of $\Delta\chi^2 = 3.218$. The Integrity Model can be used to guide lecturers in implementing a systematic peer assessment, as well as predict the probability of occurrence of these variables during the assessment.

ISI KANDUNGAN

	PENGAKUAN	ii
	DEDIKASI	iii
	PENGHARGAAN	iv
	ABSTRAK	v
	ABSTRACT	vi
	ISI KANDUNGAN	vii
	SENARAI JADUAL	xiii
	SENARAI RAJAH	xvii
	SENARAI SIMBOL DAN SINGKATAN	xix
	SENARAI LAMPIRAN	xxi
BAB 1	PENDAHULUAN	1
	1.1 Pengenalan	1
	1.2 Latar Belakang	4
	1.3 Penyataan Masalah	9
	1.4 Objektif Kajian	9
	1.5 Soalan Kajian	10
	1.6 Hipotesis Kajian	11
	1.7 Kerangka Konsep Kajian	12
	1.8 Kepentingan Kajian	15
	1.9 Skop Kajian	16
	1.10 Batasan Kajian	17

1.11	Definisi Terminologi dan Definisi Operasi	18
1.12	Rumusan	20
BAB 2	KAJIAN LITERATUR	21
2.1	Pengenalan	21
2.2	Pendidikan Teknikal dan Vokasional (PTV)	22
2.3	Penilaian Rakan (<i>Peer Assessment</i>)	24
2.3.1	Kebaikan dan Kelemahan Penilaian Rakan	25
2.3.2	Teori dalam Penilaian Rakan	29
2.3.3	Kumpulan Sasaran Penilaian Rakan	31
2.3.4	Kepentingan Penilaian Rakan kepada PTV	33
2.3.5	Ringkasan	34
2.4	Integriti	35
2.4.1	Model Integriti	36
2.4.2	Integriti dalam Penilaian Rakan	39
2.4.3	Kepentingan Integriti Pelajar dalam Penilaian Rakan	42
2.4.4	Isu-Isu Integriti Pelajar dalam Penilaian Rakan	43
2.4.5	Ringkasan	45
2.5	Kualiti Penilaian Rakan	45
2.5.1	Kesahan Penilaian Rakan	46
2.5.2	Kebolehpercayaan Penilaian Rakan	47
2.5.3	Ringkasan	48
2.6	Integriti Mempengaruhi Kualiti Penilaian Rakan	48
2.7	Mediator dan Moderator	49
2.7.1	Kesediaan Memperuntukkan Masa dalam Aktiviti Penilaian Rakan sebagai <i>Mediator</i>	49
2.7.2	Perbezaan Jantina dalam Aktiviti Penilaian Rakan sebagai <i>Moderator</i>	50
2.8	Rumusan	51

BAB 3	METODOLOGI	52
3.1	Pengenalan	52
3.2	Reka Bentuk Kajian	52
3.3	Prosedur Kajian	55
3.4	Fasa I: Analisis Dokumen dan Temu Bual Pakar	57
3.4.1	Analisis Dokumen	57
3.4.2	Temu Bual Pakar	60
3.4.3	Kesahan dan Kepercayaan (Trustworthiness)	66
3.5	Fasa II: Pembangunan Instrumen	69
3.5.1	<i>Modified Delphi</i>	69
3.5.2	Pengujian Instrumen: Kajian Rintis	73
3.6	Fasa III: Pembangunan Model Konsep Integriti Ke arah Peningkatan Kualiti Penilaian Rakan	80
3.6.1	Populasi dan Pensampelan Kajian	80
3.6.2	Lokasi Kajian	83
3.6.3	Analisis fasa III	85
3.6.4	Ringkasan Fasa III	96
3.7	Rumusan	99
BAB 4	DATA ANALISIS: FASA I	100
4.1	Pengenalan	100
4.2	Elemen dan Sub Elemen Integriti	100
4.2.1	Analisis Dokumen	101
4.2.2	Temu Bual Pakar	108
4.2.3	Triangulasi Dapatan Analisis Dokumen dan Temu Bual	131
4.3	Rumusan	133
BAB 5	DATA ANALISIS: FASA II	134
5.1	Pengenalan	134
5.2	Pembangunan Instrumen Kajian	135
5.2.1	Kata Kunci	135
5.2.2	Modified Delphi: Kesepakatan Panel Pakar	137
5.3	Kajian Rintis I	182
5.3.1	<i>Back to Back Translation</i>	183

5.3.2	Kesahan	183
5.3.3	Kebolehpercayaan dan Indeks Pengasingan	184
5.3.4	Nilai <i>Point Measure Correlation</i> [PTMEA CORR. (<i>Polarity</i> Item)]	185
5.3.5	Kesesuaian Item (<i>Item Fit</i>)	186
5.3.6	Pengukuran Nilai Korelasi Residual Terpiawai	187
5.3.7	Taburan Aras Kesukaran Item dan Kebolehan Responden	187
5.3.8	Ringkasan Kajian Rintis I	189
5.4	Kajian Rintis II	190
5.4.1	<i>Exploratory Factor Analysis</i> : Integriti	190
5.4.2	<i>Exploratory Factor Analysis</i> : Kualiti Penilaian Rakan	197
5.4.3	Ringkasan Kajian Rintis II	199
5.5	Rumusan	200
BAB 6	DATA ANALISIS: FASA III	201
6.1	Pengenalan	201
6.2	Penerokaan dan penyaringan data atau <i>exploratory data analysis</i> (EDA)	201
6.2.1	Samakan soal selidik	202
6.2.2	Analisis <i>univariate normality</i>	203
6.3	Analisis awalan khusus bagi pra-syarat ujian SEM-AMOS	203
6.3.1	Saiz sampel	204
6.3.2	Bilangan pemboleh ubah dalam model regresi	204
6.3.3	Data skala selang atau data nisbah	205
6.3.4	Analisis <i>multivariate normality</i>	205
6.3.5	Analisis <i>linearity</i> dan <i>homoscedasticity</i>	207
6.3.6	Pemboleh ubah indikator yang bebas	209
6.3.7	Analisis <i>multicollinearity</i>	209

6.4	Ringkasan penerokaan dan penyaringan data dan pra-syarat SEM-AMOS	210
6.5	Demografi responden	211
6.6	Analisis pooled confirmatory factor analysis (PCFA)	214
6.7	Analisis model struktur hubungan integriti terhadap kualiti penilaian rakan bagi pelajar PTV	221
6.8	Analisis model struktur pengaruh <i>mediator</i> kesediaan memperuntukkan masa penilaian rakan terhadap integriti dan kualiti penilaian rakan bagi pelajar PTV	222
6.9	Analisis model struktur pengaruh <i>moderator</i> jantina terhadap integriti dan kualiti penilaian rakan bagi pelajar PTV	225
6.10	Rumusan	229
BAB 7	RUMUSAN, PERBINCANGAN DAN CADANGAN	230
7.1	Pengenalan	230
7.2	Rumusan Dapatan Kajian	230
7.2.1	Rumusan Fasa I	230
7.2.2	Rumusan Fasa II	231
7.2.3	Rumusan Fasa III	232
7.3	Perbincangan Dapatan Kajian	232
7.3.1	Elemen dan Sub Elemen Integriti	233
7.3.2	Hubungan integriti ke arah peningkatan kualiti penilaian rakan	240
7.3.3	Kesan <i>Mediator</i> Kesediaan Memperuntukkan Masa untuk Hubungan Integriti dan Kualiti Penilaian Rakan	243
7.3.4	Kesan <i>Moderator</i> Jantina Di Antara Integriti dan Kualiti Penilaian Rakan	245
7.3.5	Model integriti ke arah peningkatan kualiti penilaian rakan	246
7.4	Sumbangan Kajian	253

7.5	Implikasi Kajian	256
7.6	Cadangan Kajian Lanjutan	258
7.7	Penutup	259
RUJUKAN		260
LAMPIRAN		296
VITA		391



SENARAI JADUAL

Jadual 2.1: Ringkasan kebaikan penilaian rakan	27
Jadual 2.2: Ringkasan Kelemahan Penilaian Rakan	29
Jadual 2.3: Kumpulan sasaran kajian lepas penilaian rakan	31
Jadual 3.1: Contoh penggunaan <i>boolean operator</i> analisis dokumen	60
Jadual 3.2: Termasuk dan tidak termasuk kriteria artikel yang dimuat turun	60
Jadual 3.3: Tarikh, tempoh masa dan tempat sesi temu bual	62
Jadual 3.4: Skala <i>Likert</i> persetujuan item	71
Jadual 3.5: Interpretasi nilai skor min <i>modified delphi</i>	71
Jadual 3.6: Skor julat antara kuartil bagi kesepakatan panel pakar	72
Jadual 3.7: Teknik pensampelan kajian rintis	74
Jadual 3.8: Interpretasi skor <i>Cronbach Alpha</i>	76
Jadual 3.11: Populasi dan sampel kajian pada semester 1 sesi 2017/2018	83
Jadual 3.12: Nilai <i>Goodness of Fit</i> yang disarankan	94
Jadual 3.13: Analisis kesahan dan kebolehpercayaan konstruk yang disarankan	95
Jadual 3.14: Ringkasan kaedah analisis fasa III	97
Jadual 4.1: Bilangan artikel yang digunakan	101
Jadual 4.2: Senarai semak tema bagi analisis dokumen	105
Jadual 4.3: Penyusunan tema (<i>First Level</i>) dikeluarkan	110
Jadual 4.4: Penyusunan tema peringkat kedua (<i>Second Level</i>)	110
Jadual 4.5: Penyemakan semula tema kajian	113
Jadual 4.6: Ringkasan analisis tematik	117
Jadual 4.7: Dapatan fasa I bagi sub elemen dan elemen integriti	118
Jadual 5.1: Kata kunci operasi item integriti	136

Jadual 5.2: Kata kunci operasi item dari kesediaan memperuntukkan masa dan kualiti penilaian rakan	137
Jadual 5.3: Analisis demografi panel pakar <i>modified delphi</i>	137
Jadual 5.4: Pusingan <i>modified delphi</i> motivasi diri (<i>Self-Motivation</i>)	140
Jadual 5.5: Pusingan <i>modified delphi</i> keberanian (<i>Courage</i>)	143
Jadual 5.6: Pusingan <i>modified delphi</i> disiplin diri (<i>Self-Discipline</i>)	146
Jadual 5.7: Pusingan <i>modified delphi</i> ketelusan (<i>Transparency</i>)	148
Jadual 5.8: Pusingan <i>modified delphi</i> kejujuran (<i>Honesty</i>)	151
Jadual 5.9: Pusingan <i>modified delphi</i> keadilan (<i>Fairness</i>)	155
Jadual 5.10: Pusingan <i>modified delphi</i> konsistensi (<i>Consistency</i>)	159
Jadual 5.11: Pusingan <i>modified delphi</i> amanah (<i>Trustworthiness</i>)	162
Jadual 5.12: Pusingan <i>modified delphi</i> perpaduan (<i>Unity</i>)	165
Jadual 5.13: Pusingan <i>modified delphi</i> usaha (<i>Effort</i>)	167
Jadual 5.14: Pusingan <i>modified delphi</i> tanggungjawab (<i>Responsibility</i>)	170
Jadual 5.15: Pusingan <i>modified delphi</i> etika (<i>Ethics</i>)	173
Jadual 5.16: Pusingan <i>modified delphi</i> kesediaan memperuntukkan masa	176
Jadual 5.17: Pusingan <i>modified delphi</i> kualiti penilaian rakan (Kesahan)	178
Jadual 5.18: Pusingan <i>modified delphi</i> kualiti penilaian rakan (Kebolehpercayaan)	181
Jadual 5.19: Nilai kebolehpercayaan dan pengasingan responden bagi keseluruhan konstruk instrumen	184
Jadual 5.20: Nilai kebolehpercayaan dan pengasingan item bagi keseluruhan konstruk	185
Jadual 5.21: Nilai <i>Point Measure Correlation</i> bagi item yang disingkirkan	186
Jadual 5.22: Korelasi residual terpiawai terbesar	187
Jadual 5.23: Ringkasan jumlah item yang kekal dan gugur	189
Jadual 5.24: <i>Rotation Component</i> matrik bagi Integriti	192
Jadual 5.25: Nilai <i>Cronbach's Alpha</i> menguji kebolehpercayaan konstruk integriti	197

Jadual 5.26: <i>Component</i> matrik bagi konstruk kualiti penilaian rakan	198
Jadual 5.27: Nilai <i>cronbach's alpha</i> menguji kebolehpercayaan konstruk kualiti penilaian rakan	198
Jadual 5.28: Ringkasan <i>exploratory factor analysis</i> (EFA) bagi konstruk integriti, dan kualiti penilaian rakan	199
Jadual 5.29: Ringkasan item kekal dan item yang digugurkan	199
Jadual 6.1: Ujian <i>univariate normality skewness</i> dan <i>kurtosis</i>	203
Jadual 6.2: Ujian <i>multivariate normality skewness</i> dan <i>kurtosis</i>	205
Jadual 6.3: Ujian <i>mahalanobis distance</i>	206
Jadual 6.4: Ujian <i>cook's distance</i>	207
Jadual 6.5: Matrik korelasi	209
Jadual 6.6: Ujian <i>tolerance</i> dan <i>variance inflation factor</i> (VIF)	210
Jadual 6.7: Ringkasan penerokaan dan penyaringan data dan ujian pra-syarat SEM	210
Jadual 6.8: Analisis demografi responden	212
Jadual 6.9: <i>Modification Indices</i> (MI)	215
Jadual 6.10: Ringkasan indeks kesepadanan (<i>fitness indexes</i>) bagi model pengukur	218
Jadual 6.11: <i>Composite reliability</i> (CR) dan <i>convergent validity</i>	219
Jadual 6.12: Matriks punca kuasa dua purata varians terekstrak (AVE) dan korelasi pemboleh ubah pendam	220
Jadual 6.13: Keputusan akhir model pengukuran bagi model pengukur	221
Jadual 6.14: Analisis kesan pengaruh integriti terhadap kualiti penilaian rakan	222
Jadual 6.15: Kesan <i>mediator</i> kesediaan memperuntukkan masa terhadap integriti dan kualiti penilaian	224
Jadual 6.16: Kesediaan memperuntukkan masa penilaian rakan merupakan <i>partial mediator</i>	225
Jadual 6.17: Ujian <i>moderator</i> terhadap pelajar lelaki PTV	227
Jadual 6.18: Ujian <i>moderator</i> terhadap pelajar perempuan PTV	228

Jadual 7.1: Panduan pelaksanaan penilaian rakan yang berintegriti



SENARAI RAJAH

Rajah 1.1: Kerangka konsep kajian	14
Rajah 2.1: Carta Kajian Literatur	22
Rajah 2.2: <i>Competency Model of Integrity</i> oleh Barnard (2011)	38
Rajah 3.1: <i>Multiphase Design</i> berdasarkan adaptasi daripada Creswell dan Plano-Clark (2011) dan Haines, (2011)	54
Rajah 3.2: Prosedur Kajian	56
Rajah 3.3: Sistem kod	64
Rajah 3.4: Prosedur <i>back to back translation</i>	75
Rajah 3.5: Teknik pensampelan berlapis dan rawak mudah	82
Rajah 4.1: Proses pemilihan artikel	102
Rajah 4.2: Elemen dan sub elemen integriti	132
Rajah 5.1: Taburan item dan persetujuan responden	188
Rajah 6.1: <i>Box-plot</i> bagi integriti, kesediaan memperuntukkan masa dan kualiti penilaian rakan	202
Rajah 6.2: <i>Linearity</i> bagi integriti, peruntukan masa dan kualiti penilaian rakan	208
Rajah 6.3: <i>Homoscedasticity</i> bagi ZPRED dengan SRESID	208
Rajah 6.4: <i>Pooled confirmatory factor analysis measurement model</i>	216
Rajah 6.5: <i>Revised pooled confirmatory factor analysis measurement model</i>	217
Rajah 6.6: Kesan di antara integriti dengan kualiti penilaian rakan	222
Rajah 6.7: Model persamaan struktur kesan <i>mediator</i> kesediaan memperuntukkan masa terhadap integriti dan kualiti penilaian rakan	223
Rajah 6.8: Pelajar Lelaki PTV (<i>Constraint Model</i>)	226
Rajah 6.9: Pelajar Lelaki PTV (<i>Unconstraint Model</i>)	226

Rajah 6.10: Pelajar Perempuan PTV (<i>Constraint Model</i>)	227
Rajah 6.11: Pelajar Perempuan PTV (<i>Unconstraint Model</i>)	228
Rajah 7.1: Pengaruh integriti terhadap kualiti penilaian rakan	240
Rajah 7.2: <i>Partial mediator</i> kesediaan memperuntukkan masa terhadap integriti dengan kualiti penilaian rakan	244
Rajah 7.3: <i>Full moderator</i> jantina mempengaruhi integriti terhadap kualiti penilaian rakan	246
Rajah 7.4: Model integriti ke arah peningkatan kualiti penilaian rakan	252



SENARAI SIMBOL DAN SINGKATAN

KPM	-	Kementerian Pendidikan Malaysia
PnP	-	Pengajaran dan Pembelajaran
PPPM	-	Pelan Pembangunan Pendidikan Malaysia
PTV	-	Pendidikan Teknikal dan Vokasional
PCFA	-	<i>Pooled Confirmatory Factor Analysis</i>
MD	-	<i>Modified Delphi</i>
JAK	-	Julat Antara Kuartil
PTMEA CORR	-	<i>Point Measure Correlation</i>
UTHM	-	Universiti Tun Hussein Onn Malaysia
UPSI	-	Universiti Pendidikan Sultan Idris
UPM	-	Universiti Putra Malaysia
UTM	-	Universiti Teknologi Malaysia
EFA	-	<i>Exploratory Factor Analysis</i>
KMO	-	<i>Kaiser-Meyer-Olkin Measure of Sampling Adequacy</i>
SEM	-	<i>Structural Equation Modelling</i>
AMOS	-	<i>Analysis of Moment Structure</i>
EDA	-	<i>Exploratory Data Analysis</i>
IQR	-	<i>Interquartile Rang</i>
CLT	-	<i>Central Limit Theorem</i>
C.R	-	<i>Critical Region</i>
r	-	Korelasi
VIF	-	<i>Variance Inflation Factor</i>
RMSEA	-	<i>Root Mean Square Error of Approximation</i>
GFI	-	<i>Goodness of Fit Index</i>
AGFI	-	<i>Adjusted Goodness of Fit Index</i>
CFI	-	<i>Comparative Fit Index</i>
IFI	-	<i>Incremental Fit Index</i>

TLI	-	<i>Tucker Lewis Index</i>
NFI	-	<i>Normed Fit Index</i>
MI	-	<i>Modification Indices</i>
CR	-	<i>Composite Reliability</i>
AVE	-	<i>Average Variance Extracted</i>
SP/SD	-	Sisihan Piawaian
PTV	-	Pendidikan Teknikal dan Vokasional



SENARAI LAMPIRAN

- A1 Petikan Analisis Dokumen
- A2 Protokol Temu Bual
- A3 Surat Pelantikan Pengesahan Protokol Temu Bual
- A4 Pengesahan Protokol Temu Bual
- A5 *Participant Information Sheet*
- A6 Surat Pelantikan Pakar Temu Bual
- A7 Pengesahan Menjalani Sesi Temu Bual
- A8 Pengesahan Transkrip Temu Bual
- A9 Surat dan Pengesahan *Member Checking* (Perbincangan Formal)
- A10 *Member Checking* (Perbincangan Tidak Formal)
- B1 Surat Pelantikan Pakar *Modified Delphi*
- B2 Pengesahan Pakar *Modified Delphi*
- C1 Surat Pelantikan *Back to Back Translation*
- C2 Pengesahan *Back to Back Translation*
- C3 Surat Pelantikan Kesahan Bahasa, Muka dan Kandungan Bagi Soal Selidik
- C4 Pengesahan Bahasa, Muka dan Kandungan Bagi Soal Selidik
- C5 Jadual Kesesuaian Item (Item Fit)
- D1 Soal Selidik Kajian
- D2 Jadual Pensampelan
- D3 Surat Kebenaran Mengedarkan Soal Selidik
- D4 Jadual *Chi-Square Distribution*
- D5 Analisis Data Temu Bual
- D6 Boxplot

BAB 1

PENDAHULUAN

1.1 Pengenalan

Malaysia sedang berusaha menambah baik sistem pendidikan kepada yang lebih sistematik serta melaksanakan transformasi kepada pendidikan bertaraf global. Pada Majlis Perutusan Tahunan 2014, Kementerian Pendidikan Malaysia (KPM) memutuskan untuk melaksanakan tiga gelombang transformasi bagi pendidikan di Malaysia (Kementerian Pendidikan Malaysia, 2013a). Gelombang pertama (1) telah dilaksanakan pada tahun 2013 hingga 2015 iaitu memberi penekanan kepada penambahbaikan sistem pendidikan dari segi kualiti guru, kualiti kepimpinan sekolah dan meningkatkan kadar literasi Bahasa Melayu, Bahasa Inggeris dan *numeracy* (keupayaan untuk melakukan operasi asas matematik dan memahami idea) (Kementerian Pendidikan Malaysia, 2013a). Gelombang kedua (2) telah dijalankan pada 2016 hingga 2020 iaitu perubahan struktur pendidikan Negara untuk mempercepatkan perubahan semua inisiatif bagi gelombang pertama (Kementerian Pendidikan Malaysia, 2013a). Gelombang ketiga (3) dilaksanakan pada 2012 hingga 2025 iaitu memfokuskan kepada anjakan ke arah kecemerlangan dalam pendidikan (Kementerian Pendidikan Malaysia, 2013a). Pada permulaan pelaksanaan gelombang ketiga, semua sekolah, guru dan pengetua atau guru besar perlu menunjukkan prestasi melebihi nilai minimum yang diangggarkan oleh kementerian pendidikan.

Bagi meningkatkan prestasi, anjakan terhadap pengurusan berasaskan sekolah dan membangunkan model kejayaan sekolah berdasarkan inovasi adalah perlu dalam pembelajaran. Selain itu, usaha membangunkan sistem pengekalan kemajuan sendiri yang mampu mencetus inovasi serta dapat meningkatkan pencapaian tahap maksimum (Kementerian Pendidikan Malaysia, 2013a). Oleh itu, guru-guru perlu

membuat inovasi dalam pengajaran dan pembelajaran (PdP) supaya lebih menarik perhatian pelajar dalam pembelajaran. Hal ini turut memberi kesan terhadap transformasi sistem pengurusan dalam Pendidikan Teknik dan Vokasional (PTV) di dalam Pelan Pembangunan Pendidikan Malaysia 2014.

Pelan Pembangunan Pendidikan Malaysia 2014 (PPPM) juga turut menitikberatkan transformasi dalam PTV. Transformasi dalam usaha penerapan (*reengineering*) sistem PTV sedia ada sehingga terbentuk satu sistem pendidikan vokasional yang baru. Hal ini dapat menyumbang kepada agenda transformasi Malaysia sebagai negara yang berpendapatan tinggi (Kementerian Pendidikan Malaysia, 2013b). Sistem PTV baru digerakkan oleh sumber manusia yang responsif kepada pelbagai inisiatif kerajaan dan kolaborasi dengan industri bagi menginovasi PdP yang berupaya menghasilkan tenaga kerja mahir serta boleh menjadi usahawan.

Oleh sebab itu, pelajar perlu didedahkan dengan pelbagai proses dalam sistem pendidikan termasuklah perlu dinilai dengan sewajarnya agar dapat melahirkan generasi yang berdaya saing serta mencapai piawaian yang telah ditetapkan oleh PPPM. Penilaian yang dijalankan perlulah mencapai kualiti yang ditetapkan tanpa sebarang unsur-unsur yang boleh merendahkan kualiti penilaian tersebut (Topping, 1998; Topping, 2009; Topping, 2011). Sehubungan itu, penekanan terhadap penambahbaikan kualiti penilaian dalam Pendidikan Teknikal dan Latihan Vokasional menjadi agenda penting di negara selaras dengan hasrat negara menjadi sebuah negara berpendapatan tinggi. Peningkatan kemahiran perlu sejajar dengan kebolehpasaran pelajar tersebut (Kementerian Pendidikan Malaysia, 2013b).

Oleh yang demikian, kaedah PdP yang berinovasi dan pelbagai memudahkan pelajar memahami isi pembelajaran yang disampaikan. Kepelbagaian kaedah PdP seperti menggunakan kemudahan teknologi dan juga media sosial dapat menarik minat pelajar. Generasi masa kini yang lahir dari latar belakang akademik, sosial dan ekonomi yang pelbagai memerlukan kaedah PdP yang berinovasi dan menarik perhatian agar dapat memotivasikan pelajar untuk belajar (Biber, Czech, Harris, & Melton, 2013; Rawal & Pandey, 2013; Kapil & Roy, 2014). Namun, kajian yang lebih teliti mengenai kaedah PdP diperlukan supaya tidak menjejaskan integriti akademik yang telah diterap oleh setiap institusi pengajian.

Integriti akademik merujuk kepada memberi komitmen kepada lima aspek iaitu kejujuran, hormat, amanah, adil dan tanggungjawab meskipun dalam menghadapi situasi yang sukar (Carter, 2008; Chertok, Barnes, & Gilleland, 2014).

Aspek –aspek ini boleh diterapkan kepada pelajar melalui penilaian alternatif seperti penilaian rakan. Penilaian rakan merupakan satu penilaian yang melibatkan pelajar menilai rakan mereka dalam sesuatu tugas. Proses penilaian rakan turut melibatkan proses PdP di mana pelajar berinteraksi dengan pelajar lain dengan memberi beberapa pandangan dan penambahbaikan hasil kerja rakan mereka (Topping, 2009; McDonald, 2016; Elshami & Abdalla, 2018). Penilaian rakan ini merupakan satu penilaian yang berterusan dan menyeluruh kerana melibatkan penilaian sebagai pembelajaran, penilaian untuk pembelajaran dan penilaian tentang pembelajaran. Proses penilaian rakan boleh dilaksanakan dalam pelbagai aktiviti pembelajaran contohnya pembentangan, projek atau tugas individu, kuiz, penulisan, projek berkumpulan, latihan mengajar, pembentangan atau tugas berkumpulan, kajian kes, *portfolio* dan kelas *microteaching*.

Penilaian rakan sesuai digunakan kepada generasi masa kini kerana penilaian ini dapat memberi motivasi kepada pelajar untuk belajar (Tseng & Tsai, 2010; Harrison, O'hara, & McNamara, 2015; Elshami & Abdalla, 2017; Elshami & Abdalla, 2018). Selain itu, penilaian ini memberi peluang kepada pelajar terlibat secara langsung dalam penilaian iaitu termasuklah membangunkan kualiti pembelajaran (Kollar & Fischer, 2010) dan pembangunan kuasa bersuara pelajar terhadap PdP mereka (Casey, Burke, Houghton, Mee, Smith, Van Der Putten, Bradley & Folan, 2011), membangunkan kebolehan membuat keputusan dalam sesuatu perkara (Yen, 2012; Ubaque Casallas & Pinilla Castellanos, 2016) dan dapat meningkatkan kecekapan sosial (De Grez, Valcke, & Berings, 2010; Issa, 2012; Liang, Wang, Lu, Qian, & Yin, 2011; Moore & Teather, 2012; Feyli & Ayatollahi, 2016; Kulturel-Konak, Konak, Kremer, Esparragoza, & Yoder, 2014; Lee, 2015; Vasu, Chai, & Nimehchisalem, 2016; Planas-Lladó *et al.*, 2018). Selain itu, penilaian merupakan cara bagi menentukan sejauh mana keberkesanan PdP mencapai objektif yang ditetapkan (Donnon, McIlwrick, & Woloschuk, 2013). Dengan kata lain, penilaian membantu guru dan pensyarah untuk mengukur tahap pencapaian objektif pengajaran yang disampaikan kepada pelajar.

Oleh itu, tahap pengetahuan pelajar perlu dinilai dengan cara yang berkesan bagi memastikan gred yang diberikan selari dengan pencapaian pelajar yang sebenar. Menurut Bidabadi, Isfahani, Rouhollahi, & Khalili (2016), penilaian dapat membantu pensyarah-pensyarah dalam mengetahui kebolehan dan tahap kefahaman pelajar mereka. Selain itu, penilaian juga membantu pensyarah menentukan objektif

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