

ภาคผนวก จ

ผลการวิเคราะห์ข้อมูล

มหาวิทยาลัยราชภัฏสุราษฎร์ธานี

มหาวิทยาลัยราชภัฏสุราษฎร์ธานี

Item-Total Statistics				
	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item- Total Correlation	Cronbach's Alpha if Item Deleted
G1	326.0121	1127.696	.634	.987
G2	325.8758	1128.995	.571	.987
G3	325.7485	1126.908	.566	.987
G4	326.1924	1125.354	.526	.988
G5	325.9606	1124.948	.638	.987
G6	325.8424	1129.629	.516	.988
G7	325.7909	1134.339	.426	.988
G8	325.6470	1130.906	.564	.987
G9	325.8379	1128.364	.552	.987
G10	325.6970	1124.303	.671	.987
G11	325.6212	1125.747	.654	.987
G12	325.7409	1123.085	.721	.987
G13	325.7424	1122.759	.694	.987
G14	325.8061	1124.451	.657	.987
G15	325.7545	1125.032	.669	.987
G16	326.0833	1118.541	.713	.987
G17	326.0409	1119.296	.622	.987
G18	326.0227	1121.151	.701	.987
G19	326.1712	1116.333	.666	.987
T20	326.1318	1116.190	.696	.987
T21	325.8833	1118.379	.757	.987
T22	325.8788	1117.739	.777	.987
T23	325.9833	1128.769	.541	.988
T24	325.8333	1124.952	.644	.987
T25	325.9318	1122.021	.699	.987
T26	326.0364	1119.155	.608	.987
T27	326.0788	1118.844	.636	.987
T28	326.0485	1117.840	.705	.987
T29	325.9848	1118.589	.830	.987

T30	326.1121	1120.066	.723	.987
T31	326.0409	1117.314	.792	.987
T32	325.9515	1117.952	.791	.987
T33	326.1318	1119.784	.604	.987
T34	326.1015	1119.782	.653	.987
T35	326.0030	1121.678	.758	.987
I36	325.9333	1119.319	.820	.987
I37	325.9242	1118.240	.822	.987
I38	325.9288	1117.368	.854	.987
I39	325.9924	1117.109	.779	.987
I40	325.9758	1115.996	.749	.987
I41	325.9500	1116.815	.851	.987
I42	325.8652	1118.827	.790	.987
I43	325.8470	1117.881	.774	.987
I44	325.9515	1116.875	.798	.987
I45	325.8924	1119.137	.735	.987
I46	325.8939	1115.822	.809	.987
I47	325.7848	1120.803	.760	.987
I48	325.8818	1120.784	.768	.987
I49	325.8864	1117.737	.782	.987
I50	325.8697	1119.837	.722	.987
I51	325.8333	1121.092	.703	.987
I52	325.8348	1120.642	.745	.987
I53	325.8424	1120.713	.768	.987
I54	325.8076	1114.760	.805	.987
I55	326.0182	1118.397	.718	.987
E56	326.1530	1118.816	.638	.987
E57	325.9106	1118.950	.799	.987
E58	325.9470	1113.729	.828	.987
E59	325.9712	1117.621	.844	.987
E60	326.0242	1119.250	.725	.987
E61	325.9242	1119.290	.799	.987

E62	325.9591	1116.725	.769	.987
E63	325.9545	1119.148	.753	.987
E64	325.9803	1118.839	.792	.987
E65	325.7697	1122.086	.686	.987
E66	325.8424	1118.861	.778	.987
E67	325.9273	1120.936	.760	.987
E68	325.8152	1125.134	.668	.987
E69	325.9212	1120.428	.764	.987
E70	325.9258	1120.169	.799	.987
E71	325.8803	1119.954	.758	.987
E72	325.9424	1120.877	.740	.987
E73	325.9667	1120.211	.671	.987
E74	325.9652	1122.304	.700	.987
E75	325.9258	1123.252	.703	.987
E76	325.8879	1121.587	.741	.987

Reliability Statistics	
Cronbach's Alpha	N of Items
.988	76

Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item- Total Correlation	Cronbach's Alpha if Item Deleted
GK1	47.6224	25.903	.769	.963
GK2	47.4708	25.329	.732	.964
GK3	47.8233	24.393	.746	.964
TS1	47.6979	24.706	.862	.961
TS2	47.7998	24.349	.820	.962
TS3	47.7895	24.433	.860	.961
IL1	47.6945	24.190	.891	.960
IL2	47.6176	24.433	.868	.960
IL3	47.6141	24.542	.818	.962
EM1	47.7242	24.345	.859	.961
EM2	47.6126	24.789	.858	.961
EM3	47.6813	24.892	.774	.963

Item Statistics

	Mean	Std. Deviation	N
GK1	4.3911	.41113	660
GK2	4.5427	.50364	660
GK3	4.1902	.61347	660
TS1	4.3156	.50525	660
TS2	4.2136	.57036	660
TS3	4.2239	.53760	660
IL1	4.3189	.54791	660
IL2	4.3959	.53309	660
IL3	4.3994	.54891	660
EM1	4.2892	.54804	660
EM2	4.4009	.49797	660
EM3	4.3321	.53309	660

Reliability Statistics

Cronbach's Alpha	N of Items
.965	12

Mean	4.38	4.21	4.17	4.27	4.13	4.12	4.19	4.21	4.22
	4.18	4.23	4.23	4.23	4.22	4.20	4.25	4.25	4.20
	4.14	4.17	4.11	4.11	4.09	4.23	4.25	4.25	4.15
	4.31	4.21	4.27	4.18	4.22	4.21	4.24	4.34	4.33
	4.32	4.36	4.35	4.35	4.30	4.29	4.30	4.24	4.25
	4.30	4.27	4.29	4.22	4.31	4.30	4.30	4.26	4.30
	4.18	4.30	4.28	4.29	4.36	4.34	4.36	4.42	4.38
	4.32	4.28	4.27	4.29	4.37	4.39	4.35		
Std. Deviation		.665	.640	.681	.659	.720	.680	.694	.614
	.674	.711	.714	.691	.664	.664	.681	.636	.637
	.692	.616	.681	.643	.693	.678	.667	.646	.688
	.662	.672	.590	.627	.641	.680	.723	.663	.613
	.631	.674	.634	.617	.600	.598	.644	.633	.613
	.593	.633	.622	.647	.664	.662	.631	.632	.631
	.644	.642	.665	.672	.604	.588	.600	.604	.579
	.568	.579	.616	.610	.599	.590	.595	.627	
Skewness		-.598	-.215	-.400	-.418	-.392	-.392	-.380	-.390
	-.362	-.579	-.565	-.511	-.425	-.342	-.332	-.332	-.268
	-.499	-.169	-.342	-.103	-.314	-.407	-.425	-.282	-.424
	-.557	-.579	-.177	-.354	-.252	-.477	-.528	-.502	-.429
	-.583	-.782	-.770	-.396	-.318	-.231	-.432	-.349	-.186
	-.150	-.349	-.342	-.427	-.468	-.493	-.405	-.413	-.440

	-.324	-.454	-.987	-.517	-.318	-.288	-.394	-.532	-.397	-.353
	-.157	-.182	-.339	-.219	-.301	-.318	-.485	-.439		
Kurtosis	-.674	-.650	-.155	-.453	-.362	.034	-.473	.594	-.557	
	.183	-.161	-.172	-.214	-.495	-.613	-.322	-.667	.564	-.006
	-.105	-.387	-.600	-.325	.217	-.242	-.700	-.622	-.745	-.127
	-.187	.042	-.276	-.336	-.100	-.271	.086	-.216	-.229	.128
	1.053	1.384	-.659	-.658	-.609	-.363	-.677	-.553	-.279	-.519
	-.677	-.249	-.379	.058	-.439	-.296	-.300	.059	-.366	-.371
	.537	2.741	-.227	-.161	-.681	-.172	.297	-.733	-.696	-.696
	-.639	-.217	-.586	-.136	-.684	-.151	-.663			

มหาวิทยาลัยราชภัฏสุราษฎร์ธานี

Correlations

	GK1	GK2	GK3	TS1	TS2	TS3	IL1	IL2	IL3	EM1	EM2	EM3
GK1 Pearson Correlation	1	.794**	.667**	.677**	.624**	.677**	.687**	.684**	.614**	.600**	.677**	.565**
Sig. (2-tailed)		.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
N	660	660	660	660	660	660	660	660	660	660	660	660
GK2 Pearson Correlation	.794**	1	.470**	.542**	.517**	.625**	.630**	.743**	.715**	.610**	.676**	.670**
Sig. (2-tailed)	.000		.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
N	660	660	660	660	660	660	660	660	660	660	660	660
GK3 Pearson Correlation	.667**	.470**	1	.798**	.748**	.706**	.744**	.594**	.527**	.704**	.639**	.466**
Sig. (2-tailed)	.000	.000		.000	.000	.000	.000	.000	.000	.000	.000	.000
N	660	660	660	660	660	660	660	660	660	660	660	660
TS1 Pearson Correlation	.677**	.542**	.798**	1	.841**	.752**	.795**	.722**	.668**	.767**	.810**	.658**
Sig. (2-tailed)	.000	.000	.000		.000	.000	.000	.000	.000	.000	.000	.000
N	660	660	660	660	660	660	660	660	660	660	660	660
TS2 Pearson Correlation	.624**	.517**	.748**	.841**	1	.827**	.855**	.653**	.563**	.761**	.691**	.592**
Sig. (2-tailed)	.000	.000	.000	.000		.000	.000	.000	.000	.000	.000	.000
N	660	660	660	660	660	660	660	660	660	660	660	660
TS3 Pearson Correlation	.677**	.625**	.706**	.752**	.827**	1	.837**	.730**	.707**	.768**	.712**	.677**
Sig. (2-tailed)	.000	.000	.000	.000	.000		.000	.000	.000	.000	.000	.000
N	660	660	660	660	660	660	660	660	660	660	660	660
IL1 Pearson Correlation	.687**	.630**	.744**	.795**	.855**	.837**	1	.803**	.717**	.812**	.761**	.639**

	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	660	660	660	660	660	660	660	660	660	660	660	660
IL2	Pearson Correlation	.684**	.743**	.594**	.722**	.653**	.730**	.803**	1	.912**	.739**	.762**	.780**
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	660	660	660	660	660	660	660	660	660	660	660	660
IL3	Pearson Correlation	.614**	.715**	.527**	.668**	.563**	.707**	.717**	.912**	1	.750**	.727**	.799**
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	660	660	660	660	660	660	660	660	660	660	660	660
EM1	Pearson Correlation	.600**	.610**	.704**	.767**	.761**	.768**	.812**	.739**	.750**	1	.801**	.692**
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	660	660	660	660	660	660	660	660	660	660	660	660
EM2	Pearson Correlation	.677**	.676**	.639**	.810**	.691**	.712**	.761**	.762**	.727**	.801**	1	.776**
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	660	660	660	660	660	660	660	660	660	660	660	660
EM3	Pearson Correlation	.565**	.670**	.466**	.658**	.592**	.677**	.639**	.780**	.799**	.692**	.776**	1
	Sig. (2-tailed)	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	N	660	660	660	660	660	660	660	660	660	660	660	660

** . Correlation is significant at the 0.01 level (2-tailed).

ET

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.	.939
Bartlett's Test of Sphericity	Approx. Chi-Square
	4.633E3
	df
	66
	Sig.
	.000

GK

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.	.897
Bartlett's Test of Sphericity	Approx. Chi-Square
	1.081E4
	df
	171
	Sig.
	.000

TS

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.	.880
Bartlett's Test of Sphericity	Approx. Chi-Square
	1.035E4
	df
	120
	Sig.
	.000

IL

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.	.919
Bartlett's Test of Sphericity	Approx. Chi-Square
	1.991E4
	df
	190
	Sig.
	.000

EM

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.927
Bartlett's Test of Sphericity	Approx. Chi-Square	1.770E4
	df	210
	Sig.	.000

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L I S R E L 8.52

BY

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TI
DA NI=12 NO=660 NG=1 MA=CM
SE
1 2 3 4 5 6 7 8 9 10 11 12 /
MO NY=12 NK=1 NE=4 LY=FU,FI BE=FU,FI GA=FU,FI PH=SY,FR PS=DI,FR
TE=SY,FI
LE
GK TS IL EM
LK
ET
FI PH(1,1)
FR LY(2,1) LY(3,1) LY(5,2) LY(6,2) LY(8,3) LY(9,3) LY(11,4)
LY(12,4) GA(1,1)
FR GA(2,1) GA(3,1) GA(4,1) TE 1 1 TE 2 2 TE 3 3 TE 4 4 TE 5 5 TE
6 6 TE 7 7
FR TE 8 8 TE 9 9 TE 10 10 TE 11 11 TE 12 12 TE 8 7 TE 9 3 TE 5 4
TE 3 2 TE 12 10
FR TE 11 8 TE 10 7 TE 10 9 TE 9 4 TE 9 5 TE 10 2 TE 12 8 TE 4 2
TE 2 1 TE 12 9
FR TE 11 5 TE 8 4 TE 7 4 TE 8 3 TE 4 3 TE 5 3
VA 0.57 LY(1,1)
VA 0.53 LY(4,2)
VA 0.61 LY(7,3)
VA 0.34 LY(10,4)
VA 1.00 PH(1,1)
PD
OU ME=ML AM RS EF FS SS SC IT=250

TI

Number of Input Variables 12
Number of Y - Variables 12
Number of X - Variables 0
Number of ETA - Variables 4

Number of KSI - Variables 1
 Number of Observations 660

TI

Covariance Matrix

	GK1	GK2	GK3	TS1	TS2
TS3	-----	-----	-----	-----	-----

GK1	0.43				
GK2	0.33	0.44			
GK3	0.32	0.34	0.47		
TS1	0.20	0.25	0.25	0.60	
TS2	0.23	0.25	0.27	0.33	0.52
TS3	0.29	0.29	0.31	0.32	0.34
0.53					
IL1	0.30	0.29	0.31	0.26	0.27
0.32					
IL2	0.33	0.31	0.31	0.26	0.27
0.32					
IL3	0.35	0.32	0.37	0.21	0.25
0.34					
EM1	0.18	0.18	0.17	0.13	0.15
0.17					
EM2	0.34	0.32	0.32	0.23	0.25
0.32					
EM3	0.34	0.32	0.32	0.23	0.27
0.33					

Covariance Matrix

	IL1	IL2	IL3	EM1	EM2
EM3	-----	-----	-----	-----	-----

IL1	0.57				
IL2	0.42	0.46			
IL3	0.36	0.37	0.51		
EM1	0.16	0.20	0.19	0.16	
EM2	0.33	0.39	0.38	0.23	0.50
EM3	0.34	0.38	0.39	0.22	0.43
0.49					

TI

Parameter Specifications

LAMBDA-Y

	GK	TS	IL	EM
	-----	-----	-----	-----
GK1	0	0	0	0
GK2	1	0	0	0

GK3	2	0	0	0
TS1	0	0	0	0
TS2	0	3	0	0
TS3	0	4	0	0
IL1	0	0	0	0
IL2	0	0	5	0
IL3	0	0	6	0
EM1	0	0	0	0
EM2	0	0	0	7
EM3	0	0	0	8

GAMMA

	ET

GK	9
TS	10
IL	11
EM	12

PSI

	GK	TS	IL	EM
	-----	-----	-----	-----
	13	14	15	16

THETA-EPS

	GK1	GK2	GK3	TS1	TS2
TS3	-----	-----	-----	-----	-----
	17	18	19	20	21
	22	23	24	25	26
	27	28	29	30	31
	32	33	34	35	36
	37	38	39	40	41
	42	43	44	45	46
	47	48	49	50	51
	52	53	54	55	56
	57	58	59	60	61
	62	63	64	65	66
	67	68	69	70	71
	72	73	74	75	76
	77	78	79	80	81
	82	83	84	85	86
	87	88	89	90	91
	92	93	94	95	96
	97	98	99	100	101

THETA-EPS

EM3	IL1	IL2	IL3	EM1	EM2
-----	-----	-----	-----	-----	-----

	-----	-----	-----	-----	-----
IL1	30				
IL2	33	34			
IL3	0	0	38		
EM1	40	0	41	42	
EM2	0	44	0	0	45
EM3	0	46	47	48	0

49

TI

Number of Iterations = 13

LISREL Estimates (Maximum Likelihood)

	LAMBDA-Y			
	GK	TS	IL	EM
GK1	0.57	--	--	--
GK2	0.54 (0.02) 22.53	--	--	--
GK3	0.55 (0.03) 20.00	--	--	--
TS1	--	0.53	--	--
TS2	--	0.58 (0.04) 13.68	--	--
TS3	--	0.71 (0.06) 12.76	--	--
IL1	--	--	0.61	--
IL2	--	--	0.64 (0.03) 25.15	--
IL3	--	--	0.67 (0.04) 18.23	--
EM1	--	--	--	0.34

EM2	--	--	--	0.63 (0.02) 29.00
-----	----	----	----	-------------------------

EM3	--	--	--	0.63 (0.02) 26.89
-----	----	----	----	-------------------------

GAMMA

	ET

GK	0.97 (0.05) 20.98
TS	0.76 (0.07) 11.59
IL	0.93 (0.05) 17.48
EM	0.97 (0.05) 20.88

Covariance Matrix of ETA and KSI

	GK	TS	IL	EM	ET
	-----	-----	-----	-----	-----
GK	1.01				
TS	0.73	0.82			
IL	0.90	0.70	0.85		
EM	0.94	0.73	0.90	1.09	
ET	0.97	0.76	0.93	0.97	1.00

PHI

ET

1.00

PSI

Note: This matrix is diagonal.

GK	TS	IL	EM
-----	-----	-----	-----
0.07 (0.03) 2.45	0.24 (0.04) 5.51	-0.01 (0.02) -0.54	0.16 (0.02) 6.86

Squared Multiple Correlations for Structural Equations

GK	TS	IL	EM
0.93	0.70	1.01	0.86

Squared Multiple Correlations for Reduced Form

GK	TS	IL	EM
0.93	0.70	1.01	0.86

W_A_R_N_I_N_G: PSI is not positive definite

THETA-EPS

	GK1	GK2	GK3	TS1	TS2
TS3	0.10 (0.01) 8.72				
GK1		0.02 (0.01) 2.00			
GK2			0.04 (0.01) 4.41		
GK3				0.03 (0.01) 3.27	
TS1					0.07 (0.02) 3.95
TS2					
TS3					
IL1				0.03 (0.02) 2.13	

0.12
(0.02)
6.25

--	IL2	--	--	-0.01	0.03	--
				(0.01)	(0.01)	
				-1.70	2.97	
--	IL3	--	--	0.04	-0.03	-0.02
				(0.01)	(0.01)	(0.01)
				4.14	-2.16	-2.11
--	EM1	--	0.01	--	--	--
			(0.00)			
			2.77			
--	EM2	--	--	--	--	-0.02
						(0.01)
						-2.23
--	EM3	--	--	--	--	--

THETA-EPS

	IL1	IL2	IL3	EM1	EM2
EM3	-----	-----	-----	-----	-----

IL1	0.26				
	(0.02)				
	12.95				
IL2	0.09	0.11			
	(0.01)	(0.01)			
	7.81	11.08			
IL3	--	--	0.13		
			(0.01)		
			10.48		
EM1	-0.02	--	-0.01	0.03	
	(0.00)		(0.00)	(0.00)	
	-4.38		-3.06	8.94	
EM2	--	0.03	--	--	0.07
		(0.01)			(0.01)
		4.66			9.15
EM3	--	0.02	0.01	-0.02	--
0.06		(0.01)	(0.01)	(0.00)	
(0.01)					

7.26 2.82 1.92 -4.26

Squared Multiple Correlations for Y - Variables

	GK1	GK2	GK3	TS1	TS2
TS3	0.76	0.66	0.64	0.39	0.53

Squared Multiple Correlations for Y - Variables

	IL1	IL2	IL3	EM1	EM2
EM3	0.55	0.76	0.75	0.81	0.86

Goodness of Fit Statistics

Degrees of Freedom = 29
 Minimum Fit Function Chi-Square = 27.51 (P = 0.54)
 Normal Theory Weighted Least Squares Chi-Square = 27.80 (P = 0.53)

Estimated Non-centrality Parameter (NCP) = 0.0
 90 Percent Confidence Interval for NCP = (0.0 ; 15.19)

Minimum Fit Function Value = 0.066
 Population Discrepancy Function Value (F0) = 0.0
 90 Percent Confidence Interval for F0 = (0.0 ; 0.036)

Root Mean Square Error of Approximation (RMSEA) = 0.0
 90 Percent Confidence Interval for RMSEA = (0.0 ; 0.035)

P-Value for Test of Close Fit (RMSEA < 0.05) = 1.00

Expected Cross-Validation Index (ECVI) = 0.30
 90 Percent Confidence Interval for ECVI = (0.30 ; 0.34)

ECVI for Saturated Model = 0.37
 ECVI for Independence Model = 26.81

Chi-Square for Independence Model with 66 Degrees of Freedom = 11209.83

Independence AIC = 11233.83
 Model AIC = 125.80
 Saturated AIC = 156.00
 Independence CAIC = 11294.31
 Model CAIC = 372.77

Saturated CAIC = 549.14

Normed Fit Index (NFI) = 1.00
 Non-Normed Fit Index (NNFI) = 1.00
 Parsimony Normed Fit Index (PNFI) = 0.44
 Comparative Fit Index (CFI) = 1.00
 Incremental Fit Index (IFI) = 1.00
 Relative Fit Index (RFI) = 0.99

Critical N (CN) = 756.14

Root Mean Square Residual (RMR) = 0.0071
 Standardized RMR = 0.014
 Goodness of Fit Index (GFI) = 0.99
 Adjusted Goodness of Fit Index (AGFI) = 0.97
 Parsimony Goodness of Fit Index (PGFI) = 0.37

TI

Fitted Covariance Matrix

	GK1	GK2	GK3	TS1	TS2
TS3	0.43				
GK1	0.43				
GK2	0.33	0.45			
GK3	0.32	0.34	0.47		
TS1	0.22	0.25	0.24	0.59	
TS2	0.24	0.23	0.26	0.32	0.52
TS3	0.30	0.28	0.29	0.31	0.34
0.53					
IL1	0.31	0.30	0.30	0.26	0.25
0.30					
IL2	0.33	0.31	0.31	0.27	0.26
0.32					
IL3	0.34	0.33	0.37	0.22	0.25
0.34					
EM1	0.18	0.18	0.17	0.13	0.14
0.18					
EM2	0.34	0.32	0.32	0.24	0.25
0.33					
EM3	0.34	0.32	0.32	0.24	0.27
0.33					

Fitted Covariance Matrix

	IL1	IL2	IL3	EM1	EM2
EM3	0.57				
IL1	0.57				
IL2	0.42	0.47			
IL3	0.35	0.37	0.51		
EM1	0.17	0.20	0.19	0.16	

	EM2	0.34	0.39	0.38	0.23	0.50
	EM3	0.34	0.38	0.39	0.22	0.43
0.49						

Fitted Residuals

	GK1	GK2	GK3	TS1	TS2
TS3	-----	-----	-----	-----	-----

GK1	0.00				
GK2	0.00	0.00			
GK3	0.00	0.00	0.00		
TS1	-0.02	0.00	0.00	0.01	
TS2	-0.01	0.02	0.01	0.01	0.00
TS3	0.00	0.01	0.02	0.01	0.00
0.00					
IL1	-0.01	0.00	0.01	0.00	0.02
0.01					
IL2	0.00	-0.01	0.00	-0.01	0.01
0.00					
IL3	0.00	-0.01	0.00	-0.01	0.00
0.00					
EM1	0.00	0.00	-0.01	-0.01	0.00
-0.01					
EM2	0.01	0.00	0.00	-0.02	0.00
-0.01					
EM3	0.00	0.01	-0.01	-0.01	0.00
0.00					

Fitted Residuals

	IL1	IL2	IL3	EM1	EM2
EM3	-----	-----	-----	-----	-----

IL1	0.00				
IL2	-0.01	0.00			
IL3	0.01	0.00	0.00		
EM1	0.00	0.00	0.00	0.00	
EM2	-0.01	0.00	0.00	0.00	0.00
EM3	0.00	0.00	0.00	0.00	0.00
0.00					

Summary Statistics for Fitted Residuals

Smallest Fitted Residual = -0.02
 Median Fitted Residual = 0.00
 Largest Fitted Residual = 0.02

Stemleaf Plot

```

- 1|865
- 1|31
- 0|998766666555
- 0|333333322221111111000000000000
    
```

0|1111112222223334
 0|56679
 1|012334
 1|77
 2|2

Standardized Residuals

	GK1	GK2	GK3	TS1	TS2
TS3	-----	-----	-----	-----	-----

GK1	- -				
GK2	-0.86	-1.48			
GK3	-0.20	-1.00	-0.24		
TS1	-1.53	-0.19	0.47	2.60	
TS2	-0.97	1.60	2.38	2.61	1.45
TS3	-0.47	0.73	2.39	2.29	0.22
- -					
IL1	-1.82	-0.32	1.14	-0.07	1.28
1.18					
IL2	-0.81	-1.15	-0.07	-0.91	1.59
0.34					
IL3	1.03	-0.97	-0.30	-1.52	0.66
0.37					
EM1	0.65	-0.32	-1.62	-0.79	0.12
-1.51					
EM2	1.46	-0.07	-0.89	-1.32	0.11
-0.78					
EM3	0.43	0.93	-1.30	-1.30	-0.20
-0.05					

Standardized Residuals

	IL1	IL2	IL3	EM1	EM2
EM3	-----	-----	-----	-----	-----

IL1	-1.36				
IL2	-2.02	-2.01			
IL3	1.19	-0.77	0.79		
EM1	-0.55	0.73	-1.48	1.36	
EM2	-1.59	-1.11	-0.21	1.26	0.18
EM3	-0.08	0.06	-0.28	1.22	-0.04
0.88					

Summary Statistics for Standardized Residuals

Smallest Standardized Residual = -2.02
 Median Standardized Residual = -0.07
 Largest Standardized Residual = 2.61

Stemleaf Plot

- 2|00
 - 1|8665555

```

- 1|433321000
- 0|999888855
- 0|33332222211111000
  0|11122344
  0|56777899
  1|01222334
  1|5566
  2|344
  2|66

```

```

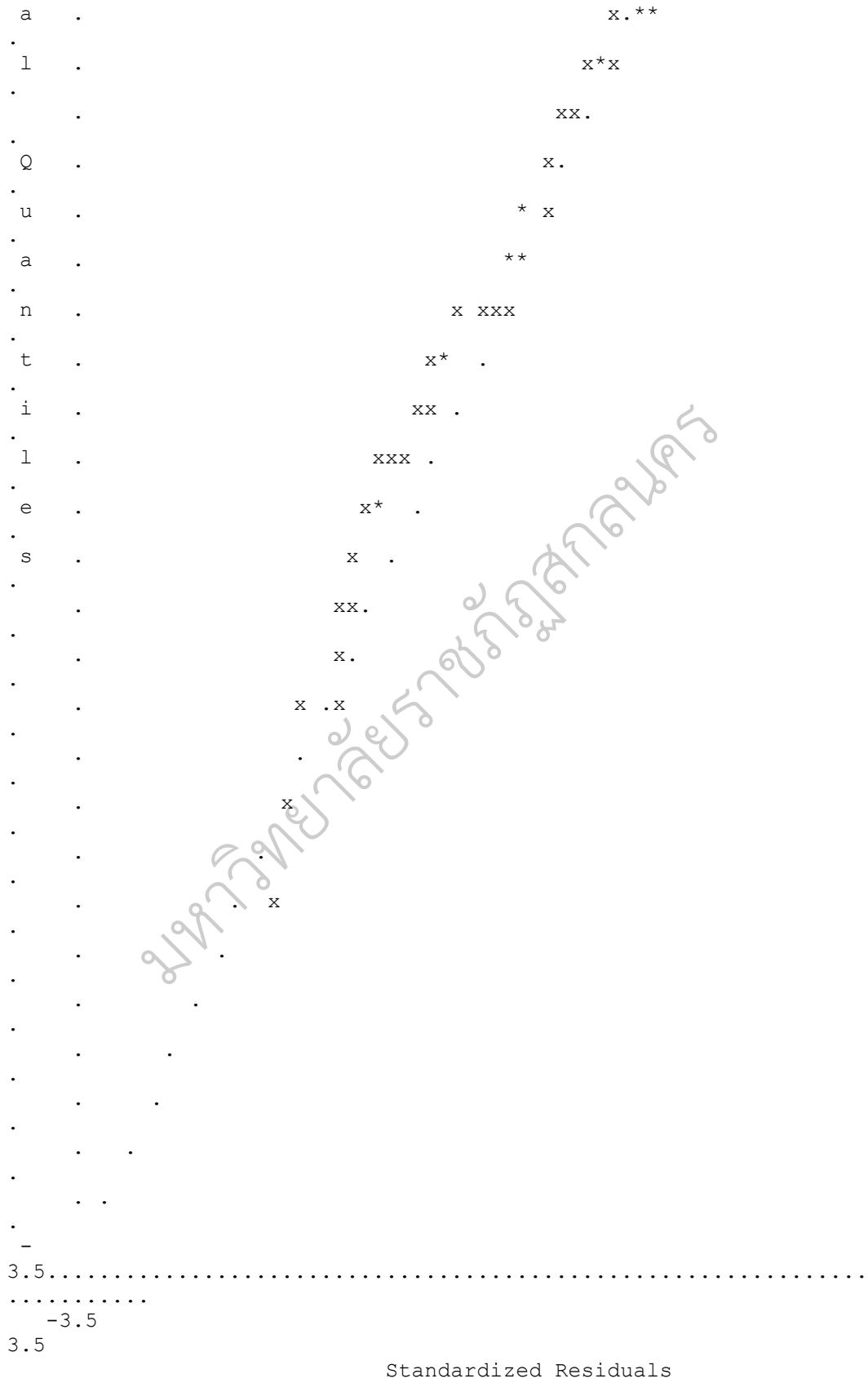
Largest Positive Standardized Residuals
Residual for      TS1 and      TS1      2.60
Residual for      TS2 and      TS1      2.61

```

TI

Qplot of Standardized Residuals





TI

Modification Indices and Expected Change

Modification Indices for LAMBDA-Y

	GK	TS	IL	EM
	-----	-----	-----	-----
GK1	- -	1.86	0.05	0.46
GK2	- -	0.33	2.81	1.86
GK3	- -	4.83	0.79	6.29
TS1	1.92	- -	2.02	1.62
TS2	1.37	- -	1.84	0.64
TS3	1.31	- -	0.13	0.47
IL1	0.23	0.54	- -	0.73
IL2	0.35	0.06	- -	1.41
IL3	0.01	0.29	- -	0.12
EM1	0.28	0.78	0.17	- -
EM2	1.09	0.12	0.77	- -
EM3	0.01	0.01	0.07	- -

Expected Change for LAMBDA-Y

	GK	TS	IL	EM
	-----	-----	-----	-----
GK1	- -	-0.07	-0.23	0.05
GK2	- -	0.03	1.71	0.09
GK3	- -	0.13	-1.66	-0.25
TS1	-0.11	- -	-0.13	-0.07
TS2	0.10	- -	0.14	0.05
TS3	0.22	- -	0.43	-0.05
IL1	-0.10	0.04	- -	-0.08
IL2	-0.09	0.01	- -	0.11
IL3	0.03	-0.03	- -	0.03
EM1	-0.02	-0.02	-0.02	- -
EM2	0.15	-0.01	1.00	- -
EM3	0.01	0.00	0.03	- -

Standardized Expected Change for LAMBDA-Y

	GK	TS	IL	EM
	-----	-----	-----	-----
GK1	- -	-0.06	-0.21	0.05
GK2	- -	0.03	1.57	0.10
GK3	- -	0.12	-1.53	-0.26
TS1	-0.11	- -	-0.12	-0.08
TS2	0.10	- -	0.13	0.05
TS3	0.22	- -	0.39	-0.06
IL1	-0.10	0.04	- -	-0.09
IL2	-0.09	0.01	- -	0.11
IL3	0.03	-0.03	- -	0.04
EM1	-0.02	-0.02	-0.02	- -
EM2	0.15	-0.01	0.92	- -
EM3	0.01	0.00	0.03	- -

Completely Standardized Expected Change for LAMBDA-Y

	GK	TS	IL	EM
	-----	-----	-----	-----
GK1	- -	-0.10	-0.32	0.07
GK2	- -	0.04	2.36	0.15
GK3	- -	0.17	-2.22	-0.37
TS1	-0.14	- -	-0.15	-0.10
TS2	0.13	- -	0.17	0.07
TS3	0.30	- -	0.54	-0.08
IL1	-0.13	0.05	- -	-0.12
IL2	-0.13	0.01	- -	0.16
IL3	0.04	-0.04	- -	0.05
EM1	-0.06	-0.05	-0.06	- -
EM2	0.22	-0.02	1.30	- -
EM3	0.01	0.01	0.04	- -

Modification Indices for BETA

	GK	TS	IL	EM
	-----	-----	-----	-----
GK	- -	0.78	1.36	0.12
TS	0.78	- -	0.12	1.36
IL	1.36	0.12	- -	0.78
EM	0.12	1.36	0.78	- -

Expected Change for BETA

	GK	TS	IL	EM
	-----	-----	-----	-----
GK	- -	0.07	2.73	0.05
TS	0.26	- -	-0.60	-0.14
IL	-0.38	0.02	- -	0.14
EM	0.11	-0.09	-2.27	- -

Standardized Expected Change for BETA

	GK	TS	IL	EM
	-----	-----	-----	-----
GK	- -	0.08	2.95	0.05
TS	0.28	- -	-0.72	-0.15
IL	-0.41	0.03	- -	0.15
EM	0.11	-0.09	-2.36	- -

No Non-Zero Modification Indices for GAMMA

No Non-Zero Modification Indices for PHI

Modification Indices for PSI

	GK	TS	IL	EM
	-----	-----	-----	-----
GK	- -	- -	- -	- -
TS	0.78	- -	- -	- -
IL	1.36	0.12	- -	- -
EM	0.12	1.36	0.78	- -

Expected Change for PSI

	GK	TS	IL	EM
GK	- -			
TS	0.02	- -		
IL	-0.03	0.01	- -	
EM	0.01	-0.02	0.02	- -

Standardized Expected Change for PSI

	GK	TS	IL	EM
GK	- -			
TS	0.02	- -		
IL	-0.03	0.01	- -	
EM	0.01	-0.02	0.02	- -

Modification Indices for THETA-EPS

	GK1	GK2	GK3	TS1	TS2
TS3					
GK1	- -				
GK2	- -	- -			
GK3	- -	- -	- -		
TS1	0.21	- -	- -	- -	
TS2	1.55	1.73	- -	- -	- -
TS3	0.02	0.12	4.83	2.02	2.02
IL1	2.39	0.13	0.79	- -	0.01
IL2	0.25	1.09	- -	- -	0.71
IL3	1.02	1.06	- -	- -	- -
EM1	0.06	- -	1.35	0.07	0.15
EM2	0.95	0.10	0.11	0.05	- -
EM3	0.37	2.29	1.55	0.31	0.20

Modification Indices for THETA-EPS

	IL1	IL2	IL3	EM1	EM2
EM3					
IL1	- -				
IL2	- -	- -			
IL3	0.85	0.85	- -		
EM1	- -	1.53	- -	- -	
EM2	2.16	- -	0.12	0.09	- -

EM3	0.39	--	--	--	0.09
-----	------	----	----	----	------

Expected Change for THETA-EPS

	GK1	GK2	GK3	TS1	TS2
TS3	-----	-----	-----	-----	-----
GK1	--	--	--	--	--
GK2	--	--	--	--	--
GK3	--	--	--	--	--
TS1	-0.01	--	--	--	--
TS2	-0.01	0.01	--	--	--
TS3	0.00	0.00	0.02	0.03	-0.03
IL1	-0.01	0.00	0.01	--	0.00
IL2	0.00	-0.01	--	--	0.01
IL3	0.01	-0.01	--	--	--
EM1	0.00	--	-0.01	0.00	0.00
EM2	0.01	0.00	0.00	0.00	--
EM3	0.00	0.01	-0.01	-0.01	0.00

Expected Change for THETA-EPS

	IL1	IL2	IL3	EM1	EM2
EM3	-----	-----	-----	-----	-----
IL1	--	--	--	--	--
IL2	--	--	--	--	--
IL3	0.01	-0.01	--	--	--
EM1	--	0.01	--	--	--
EM2	-0.01	--	0.00	0.00	--
EM3	0.01	--	--	--	0.00

Completely Standardized Expected Change for THETA-EPS

	GK1	GK2	GK3	TS1	TS2
TS3	-----	-----	-----	-----	-----
GK1	--	--	--	--	--
GK2	--	--	--	--	--
GK3	--	--	--	--	--
TS1	-0.01	--	--	--	--
TS2	-0.02	0.03	--	--	--
TS3	0.00	-0.01	0.05	0.05	-0.06

0.01	IL1	-0.02	0.01	0.02	- -	0.00
0.00	IL2	0.01	-0.01	- -	- -	0.01
-0.01	IL3	0.02	-0.02	- -	- -	- -
-0.02	EM1	0.00	- -	-0.02	0.01	0.01
0.00	EM2	0.01	0.00	0.00	0.00	- -
0.01	EM3	-0.01	0.02	-0.02	-0.01	-0.01

Completely Standardized Expected Change for THETA-EPS

	IL1	IL2	IL3	EM1	EM2
EM3	-----	-----	-----	-----	-----
IL1	- -	- -	- -	- -	- -
IL2	- -	- -	- -	- -	- -
IL3	0.01	-0.02	- -	- -	- -
EM1	- -	0.02	- -	- -	- -
EM2	-0.02	- -	0.01	0.01	- -
EM3	0.01	- -	- -	- -	-0.01

Maximum Modification Index is 6.29 for Element (3, 4) of LAMBDA-Y

TI

Factor Scores Regressions

	ETA				
	GK1	GK2	GK3	TS1	TS2
TS3	-----	-----	-----	-----	-----
GK	0.42	0.17	0.19	-0.03	0.05
TS	0.08	0.02	-0.05	0.11	0.24
IL	0.22	0.08	0.06	0.00	0.07
EM	0.08	-0.03	0.00	0.01	0.04

	ETA				
	IL1	IL2	IL3	EM1	EM2
EM3	-----	-----	-----	-----	-----

0.11	GK	0.06	0.19	0.18	0.27	0.04
0.01	TS	0.03	0.02	0.18	0.12	0.07
0.15	IL	0.09	0.17	0.27	0.40	0.07
0.59	EM	0.19	-0.24	0.10	0.88	0.37

TI

Standardized Solution

LAMBDA-Y

	GK	TS	IL	EM
GK1	0.57	--	--	--
GK2	0.54	--	--	--
GK3	0.55	--	--	--
TS1	--	0.48	--	--
TS2	--	0.53	--	--
TS3	--	0.64	--	--
IL1	--	--	0.56	--
IL2	--	--	0.59	--
IL3	--	--	0.62	--
EM1	--	--	--	0.35
EM2	--	--	--	0.66
EM3	--	--	--	0.66

GAMMA

	ET
GK	0.96
TS	0.84
IL	1.01
EM	0.93

Correlation Matrix of ETA and KSI

	GK	TS	IL	EM	ET
GK	1.00				
TS	0.81	1.00			
IL	0.97	0.84	1.00		
EM	0.89	0.77	0.93	1.00	
ET	0.96	0.84	1.01	0.93	1.00

PSI

Note: This matrix is diagonal.

	GK	TS	IL	EM
	0.07	0.30	-0.01	0.14

TI

Completely Standardized Solution

LAMBDA-Y

	GK	TS	IL	EM
GK1	0.87	--	--	--
GK2	0.81	--	--	--
GK3	0.80	--	--	--
TS1	--	0.62	--	--
TS2	--	0.73	--	--
TS3	--	0.88	--	--
IL1	--	--	0.74	--
IL2	--	--	0.87	--
IL3	--	--	0.87	--
EM1	--	--	--	0.90
EM2	--	--	--	0.93
EM3	--	--	--	0.94

GAMMA

	ET
GK	0.96
TS	0.84
IL	1.01
EM	0.93

Correlation Matrix of ETA and KSI

	GK	TS	IL	EM	ET
GK	1.00				
TS	0.81	1.00			
IL	0.97	0.84	1.00		
EM	0.89	0.77	0.93	1.00	
ET	0.96	0.84	1.01	0.93	1.00

PSI

Note: This matrix is diagonal.

	GK	TS	IL	EM
	0.07	0.30	-0.01	0.14

THETA-EPS

	GK1	GK2	GK3	TS1	TS2
TS3					
GK1	0.24				
GK2	0.04	0.34			
GK3	--	0.09	0.36		

	TS1	--	0.08	0.06	0.61	
	TS2	--	--	0.05	0.13	0.47
	TS3	--	--	--	--	--
0.22	IL1	--	--	--	0.06	--
--	IL2	--	--	-0.02	0.06	--
--	IL3	--	--	0.08	-0.05	-0.04
--	EM1	--	0.04	--	--	--
--	EM2	--	--	--	--	-0.03
--	EM3	--	--	--	--	--

THETA-EPS

		IL1	IL2	IL3	EM1	EM2
EM3		-----	-----	-----	-----	-----
-----	IL1	0.45				
	IL2	0.17	0.24			
	IL3	--	--	0.25		
	EM1	-0.07	--	-0.04	0.19	
	EM2	--	0.06	--	--	0.14
	EM3	--	0.03	0.03	-0.06	--

0.13

TI

Total and Indirect Effects

Total Effects of X on ETA

	ET

GK	0.97 (0.05) 20.98
TS	0.76 (0.07) 11.59
IL	0.93 (0.05) 17.48
EM	0.97 (0.05) 20.88

BETA*BETA' is not Pos. Def., Stability Index cannot be Computed

Total Effects of ETA on Y

	GK	TS	IL	EM
	-----	-----	-----	-----
GK1	0.57	- -	- -	- -
GK2	0.54 (0.02) 22.53	- -	- -	- -
GK3	0.55 (0.03) 20.00	- -	- -	- -
TS1	- -	0.53	- -	- -
TS2	- -	0.58 (0.04) 13.68	- -	- -
TS3	- -	0.71 (0.06) 12.76	- -	- -
IL1	- -	- -	0.61	- -
IL2	- -	- -	0.64 (0.03) 25.15	- -
IL3	- -	- -	0.67 (0.04) 18.23	- -
EM1	- -	- -	- -	0.34
EM2	- -	- -	- -	0.63 (0.02) 29.00
EM3	- -	- -	- -	0.63 (0.02) 26.89

Total Effects of X on Y

	ET

GK1	0.55 (0.03) 20.98

GK2	0.52 (0.03) 18.75
GK3	0.53 (0.03) 18.20
TS1	0.40 (0.03) 11.59
TS2	0.44 (0.03) 13.61
TS3	0.54 (0.03) 17.32
IL1	0.57 (0.03) 17.48
IL2	0.60 (0.03) 22.13
IL3	0.62 (0.03) 21.87
EM1	0.33 (0.02) 20.88
EM2	0.61 (0.03) 21.52
EM3	0.61 (0.03) 22.01

TI

Standardized Total and Indirect Effects

Standardized Total Effects of X on ETA

ET

GK	0.96
TS	0.84
IL	1.01
EM	0.93

Standardized Total Effects of ETA on Y

	GK	TS	IL	EM
	-----	-----	-----	-----
GK1	0.57	- -	- -	- -
GK2	0.54	- -	- -	- -
GK3	0.55	- -	- -	- -
TS1	- -	0.48	- -	- -
TS2	- -	0.53	- -	- -
TS3	- -	0.64	- -	- -
IL1	- -	- -	0.56	- -
IL2	- -	- -	0.59	- -
IL3	- -	- -	0.62	- -
EM1	- -	- -	- -	0.35
EM2	- -	- -	- -	0.66
EM3	- -	- -	- -	0.66

Completely Standardized Total Effects of ETA on Y

	GK	TS	IL	EM
	-----	-----	-----	-----
GK1	0.87	- -	- -	- -
GK2	0.81	- -	- -	- -
GK3	0.80	- -	- -	- -
TS1	- -	0.62	- -	- -
TS2	- -	0.73	- -	- -
TS3	- -	0.88	- -	- -
IL1	- -	- -	0.74	- -
IL2	- -	- -	0.87	- -
IL3	- -	- -	0.87	- -
EM1	- -	- -	- -	0.90
EM2	- -	- -	- -	0.93
EM3	- -	- -	- -	0.94

Standardized Total Effects of X on Y

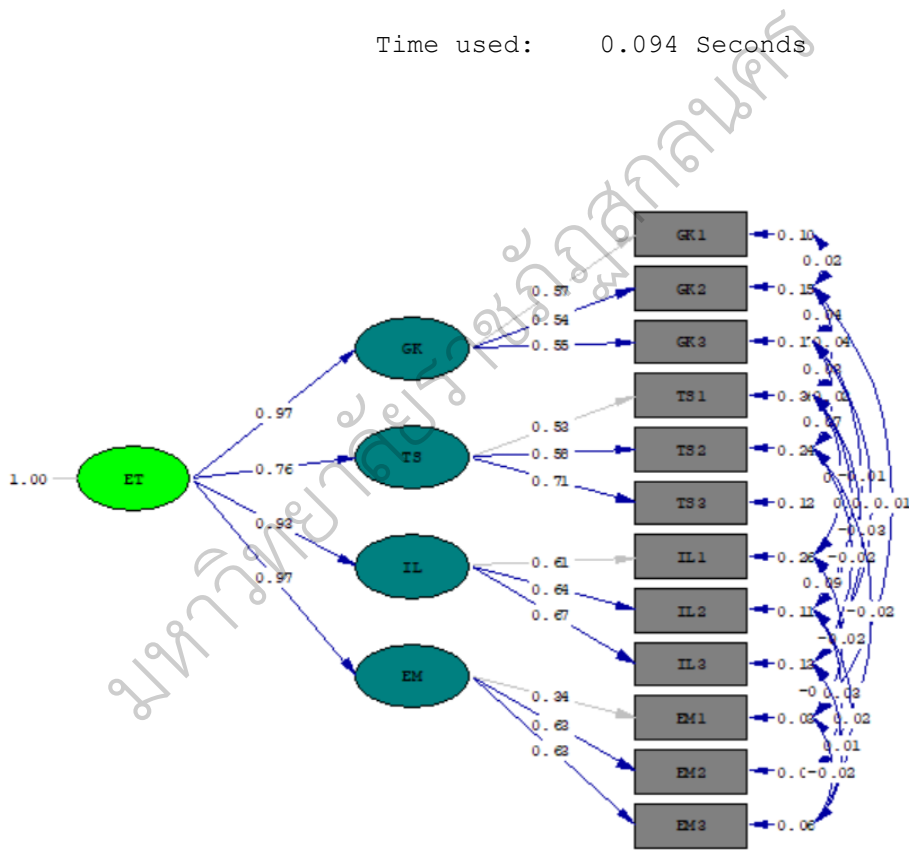
	ET

GK1	0.55
GK2	0.52
GK3	0.53
TS1	0.40
TS2	0.44
TS3	0.54
IL1	0.57
IL2	0.60
IL3	0.62
EM1	0.33
EM2	0.61
EM3	0.61

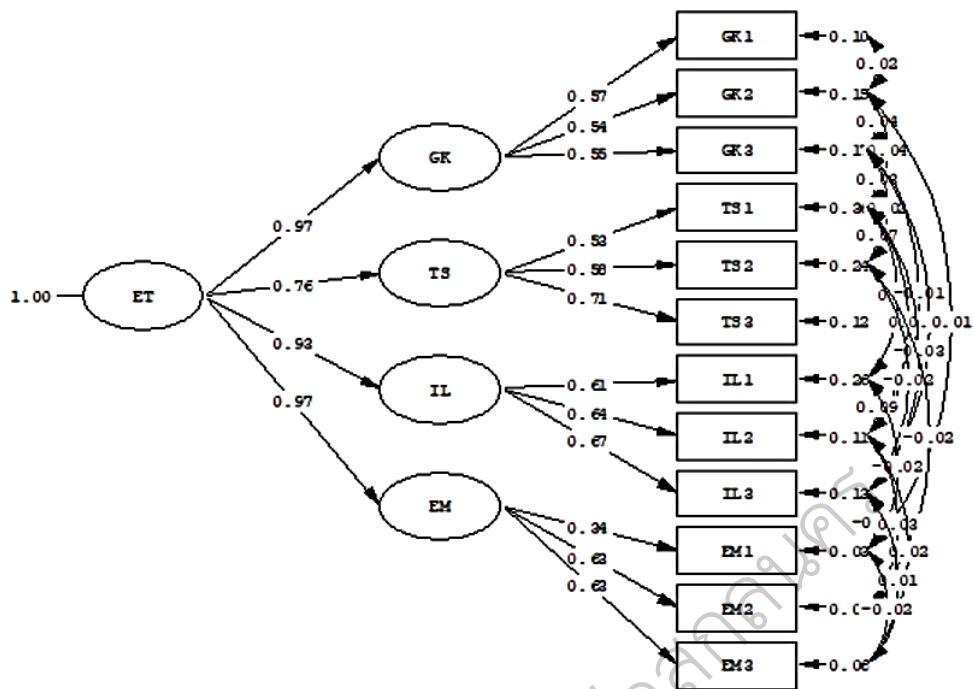
Completely Standardized Total Effects of X on Y

	ET
GK1	0.84
GK2	0.78
GK3	0.77
TS1	0.52
TS2	0.61
TS3	0.74
IL1	0.75
IL2	0.87
IL3	0.87
EM1	0.83
EM2	0.86
EM3	0.87

Time used: 0.094 Seconds



Chi-Square=27.80, df=29, P-value=0.52852, RMSEA=0.000



Chi-Square=27.80, df=29, P-value=0.52852, RMSEA=0.000

มหาวิทยาลัยราชภัฏ