

APPENDIX - XIIIFacultywise Calculation of ANOVA

1. Faculty of Arts

Academic Life (AL)

		Low	High
Socio- Economic Background (SEB)	Low	N = 28	N = 21
		$\bar{X} = 49.07$	$\bar{X} = 54.81$
		$\Sigma X = 1374$	$\Sigma X = 11.51$
		$\Sigma X^2 = 69350$	$\Sigma X^2 = 64057$
	High	N = 7	N = 13
		$\bar{X} = 63.71$	$\bar{X} = 59.69$
		$\Sigma X = 376$	$\Sigma X = 776$
		$\Sigma X^2 = 20670$	$\Sigma X^2 = 47000$

'F' Table

Sources of Variance	Sum of Squares	df	Mean Squares	'F' ratio
1. Academic Life	34.34	1	34.34	7.26 **
2. Socio-economic background	22.66	1	22.66	4.79 *
3. AL $\times$ SEB	0.01	1	0.01	0.003
4. Within	-	65	4.73	-

Note * indicates significant at 0.05 level

** indicates significant at 0.01 level

2. Faculty of Science

Academic Life (AL)

		Low	High
Socio-economic Background (SEB)	Low	N = 35	N = 24
		$\bar{X}$ = 55.31	$\bar{X}$ = 59.21
		ΣX = 1936	ΣX = 1421
		ΣX^2 = 109790	ΣX^2 = 85711
	High	N = 26	N = 35
		$\bar{X}$ = 55.96	$\bar{X}$ = 59.31
		ΣX = 1455	ΣX = 2076
		ΣX^2 = 82445	ΣX^2 = 124916

'F' Table

Sources of Variance	Sum of squares	df	Mean Squares	'F' ratio
1. Academic Life	13.14	1	13.14	7.91*
2. Socio-economic background	0.14	1	0.14	.08
3. AL x SEB	0.08	1	0.08	.05
4. Within		116	1.66	-

Note : * indicates significant at 0.05 level.

Academic Life (AL)

		Low	High
Socio-economic background (SEB)	Low	N = 30	N = 20
		$\bar{X}$ = 49.77	$\bar{X}$ = 54.55
		ΣX = 1493	ΣX = 1091
		ΣX^2 = 74914	ΣX^2 = 60491
	High	N = 14	N = 26
		$\bar{X}$ = 51	$\bar{X}$ = 55.65
		ΣX = 714	ΣX = 1447
		ΣX^2 = 36734	ΣX^2 = 82053

'F' Table

Sources of Variance	Sum of squares	df	Mean Squares	'F' ratio
1. Academic Life	22.24	1	22.24	11.74**
2. Socio-economic background	1.36	1	1.36	0.72
3. AL x SEB	0.00	1	0.00	0.00
4. Within	-	86	1.895	-

Note ** indicates significant at 0.01 level

4. Faculty of Education & Psychology

Academic Life (AL)

		Low	High
Socio-economic background (SEB)	Low	N = 4	N = 5
		$\bar{X} = 55.25$	$\bar{X} = 61.60$
		$\Sigma X = 221$	$\Sigma X = 308$
		$\Sigma X^2 = 12315$	$\Sigma X^2 = 19476$
	High	N = 8	N = 4
		$\bar{X} = 62.5$	$\bar{X} = 57.5$
		$\Sigma X = 500$	$\Sigma X = 230$
		$\Sigma X^2 = 32038$	$\Sigma X^2 = 13570$

'F' Table

Sources of Variance	Sum of squares	df	Mean squares	'F' ratio
1. Academic Life	0.45	1	0.45	0.02
2. Socio-economic background	2.48	1	2.48	0.12
3. AL x SEB	32.21	1	32.21	1.53
4. Within	-	17	20.99	-

5. Faculty of Law

Academic Life (AL)

		Low	High
Socio-economic Background (SEB)	Low	N = 13	N = 6
		$\bar{X}$ = 54.08	$\bar{X}$ = 56.50
		ΣX = 703	ΣX = 339
		ΣX^2 = 38227	ΣX^2 = 19205
	High	N = 3	N = 5
		$\bar{X}$ = 58	$\bar{X}$ = 60
		ΣX = 174	ΣX = 300
		ΣX^2 = 10124	ΣX^2 = 18166

'F' Table

Sources of Variance	Sum of Squares	df	Mean Squares	'F' ratio
1. Academic Life	4.88	1	4.88	1.25
2. Socio-economic background	13.77	1	13.77	3.53
3. AL x SEB	0.05	1	0.05	0.013
4. Within	-	23	3.90	-

6. Faculty of Fine Arts

		<u>Academic Life (AL)</u>	
		Low	High
Socio-economic Background (SEB)	Low	N = 2	N = 3
		$\bar{X} = 65.5$	$\bar{X} = 71.67$
		$\Sigma X = 131$	$\Sigma X = 215$
		$\Sigma X^2 = 8585$	$\Sigma X^2 = 15433$
	High	N = 3	N = 3
		$\bar{X} = 64.34$	$\bar{X} = 61.67$
		$\Sigma X = 193$	$\Sigma X = 185$
		$\Sigma X^2 = 12701$	$\Sigma X^2 = 11549$

'F' Table

Source of Variance	Sum of Squares	df	Mean Squares	'F' ratio
1. Academic Life	3.06	1	3.06	0.126
2. Socio-economic background	31.13	1	31.13	1.278
3. AL x SEB	19.37	1	19.37	0.795
4. Within	-	7	24.35	-

Faculty of Engineering

Academic Life (AL)

		Low	High
Socio-economic background (SEB)	Low	N = 74	N = 68
		$\bar{X}$ = 63.07	$\bar{X}$ = 64.28
		ΣX = 4667	ΣX = 4371
		ΣX^2 = 297299	ΣX^2 = 284929
	High	N = 85	N = 75
		$\Sigma \bar{X}$ = 64.60	$\Sigma \bar{X}$ = 63.68
		ΣX = 5491	ΣX = 4776
		X^2 = 358833	X^2 = 307618

'F' Table

Sources of Variance	Sum of squares	df	Mean squares	'F' ratio
1. Academic Life	0.02	1	0.02	0.00
2. Socio-economic background	0.22	1	0.22	0.33
3. AL x SEB	1.13	1	1.13	1.69
4. Within	-	298	0.67	-

8. Faculty of Medicine

		<u>Academic Life (AL)</u>	
		Low	High
Socio-economic background (SEB)	Low	N = 19	N = 17
		$\bar{X}$ = 56.37	$\bar{X}$ = 56.41
		ΣX = 1071	ΣX = 959
		ΣX^2 = 61011	ΣX^2 = 54890
	High	N = 13	N = 13
		$\bar{X}$ = 59.00	$\bar{X}$ = 58.15
		ΣX = 767	ΣX = 756
		ΣX^2 = 45451	ΣX^2 = 44094

'F' Table

Sources of Variance	Sum of squares	df	Mean squares	'F' ratio
1. Academic Life	0.17	1	0.17	0.008
2. Socio-economic background	4.77	1	4.77	0.24
3. AL x SEB	0.20	1	0.20	0.009
4. Within	-	58	20.09	-

Academic Life (AL)

		Low	High
Socio economic background (SEB)	Low	N = 13	N = 6
		$\bar{X}$ = 57.77	$\bar{X}$ = 58.84
		ΣX = 751	ΣX = 353
		ΣX^2 = 43945	ΣX^2 = 21427
	High	N = 9	N = 7
		$\bar{X}$ = 62.00	$\bar{X}$ = 62.43
		ΣX = 558	ΣX = 437
		ΣX^2 = 34676	ΣX^2 = 27377

'F' Table

Sources of Variance	Sum of Squares	df	Mean Squares	'F' ratio
1. Academic Life	0.57	1	0.57	0.10
2. Socio-economic background	15.29	1	15.29	2.72
3. AL x SEB	0.09	1	0.09	0.02
4. Within	-	31	5.62	-

10. Faculty of Social Work

		<u>Academic Life (AL)</u>	
		Low	High
Socio-economic background (SEB)	Low	N = 4	N = 2
		$\bar{X} = 58.25$	$\bar{X} = 57.50$
		$\Sigma X = 233$	$\Sigma X = 115$
		$\Sigma X^2 = 13629$	$\Sigma X^2 = 6673$
	High	N = 2	N = 5
		$\bar{X} = 70.50$	$\bar{X} = 62.60$
		$\Sigma X = 141$	$\Sigma X = 313$
		$\Sigma X^2 = 10205$	$\Sigma X^2 = 19679$

'F' Table

Sources of Variance	Sum of squares	df	Mean squares	'F' ratio
1.Academic Life	18.71	1	18.71	1.00
2.Socio-economic background	75.25	1	75.25	4.00
3.AL x SEB	12.78	1	12.78	0.68
4.Within	-	9	18.78	-

11. Faculty of Home Science

		<u>Academic Life (AL)</u>	
		Low	High
Socio-economic background (SEB)	Low	N = 11	N = 2
		$\bar{X}$ = 61.73	$\bar{X}$ = 68.50
		ΣX = 679	ΣX = 137
		ΣX^2 = 42679	ΣX^2 = 9389
	High	N = 2	N = 8
		$\bar{X}$ = 67.00	$\bar{X}$ = 63.88
		ΣX = 134	ΣX = 511
		ΣX^2 = 9178	ΣX^2 = 32777

'F' Table

Sources of Variance	Sum of squares	df	Mean squares	'F' ratio
1. Academic Life	3.32	1	3.32	0.19
2. Socio-economic background	0.11	1	0.11	0.006
3. AL x SEB	24.70	1	24.70	1.39
4. Within	-	19	17.78	-

Annotation: $\bar{X}$ = Mean Score

ΣX = sum total of the scores.

ΣX^2 = sum total of the squares of the scores.

Σdf = Degree of freedom.
