## FAILURE TIMES OF BEARINGS

## 11. The One-Way ANOVA in SPSS

To direct SPSS to perform the One-Way ANOVA, click on *Statistics* from the menu bar, and then on *Compare Means* from the pull-down menu.



Now click on One-Way ANOVA from the pull-down menu to open the One-Way ANOVA dialog box. Click on and move the *Time* variable to the Dependent List box using the upper right arrow button. Then click on and move the *Code* variable to the Factor box using the lower right arrow button.

🗧 One-Way ANOVA			×
		D <u>e</u> pendent List: time	0K <u>P</u> aste <u>R</u> eset
		<u>F</u> actor: code(? ?) Define Range	Cancel Help
	<u>C</u> ontra	asts Post <u>H</u> oc	<u>O</u> ptions

Click on the *Define Range* button to open the One-Way ANOVA: *Define Range* dialog box.

One-Way ANOVA: Define Range		×
M <u>i</u> nimum:	1	Continue
M <u>a</u> ximum:	5	Cancel
		Help

The SPSS output for ANOVA is displayed in Section 7.

To obtain the multiple comparisons for our poblem, click on *Post Hoc...* tab in the *One-Way Anova* dialog box. The following dialog box will be displayed:

ne-Way ANOVA: Post Hoc Multiple Comparisons	×
Tests □ <u>L</u> east-significant difference □ <u>B</u> onferroni □ <u>D</u> uncan's multiple range test □ <u>S</u> tudent-Newman-Keuls □ <u>T</u> ukey's <u>h</u> onestly significant difference □ <u>T</u> ukey's b □ <u>S</u> <u>c</u> heffé	Continue Cancel Help
⊂ Sample Size Estimate	

The SPSS outputs for multiple comparisons are displayed in Section 11.