



**FAKULTI PENGURUSAN & INDUSTRI HALAL**

<b>PROGRAM</b>	<b>Diploma in Accountancy</b>
<b>COURSE NAME</b>	<b>INTRODUCTION TO STATISTICS</b>
<b>COURSE CODE</b>	<b>STA104</b>
<b>CREDIT HOUR</b>	<b>3</b>
<b>SYNOPSIS</b>	This course introduces the basic statistical concepts in general applications. The topics include basic concepts of sampling methods, method of data collection, introductory methods in descriptive and inferential statistics. Specific topics include methods of describing data, correlation & regression analysis, time series analysis, index numbers and probability. Students will be exposed to statistical project which involve analyzing primary or secondary data in enhancing their understanding in solving real problems. Statistical Analysis using Excel or SPSS will be introduced.
<b>COURSE STRUCTURE</b>	
<b>CHAPTER</b>	<b>TOPICS</b>
<b>1</b>	<b>Introduction to Statistics</b>  1.1 Definition of statistics 1.2 Terms in statistics 1.3 Types of statistics 1.4 Sources of data 1.5 Types of variable 1.6 Scale of measurement 1.7 Sampling technique 1.8 Data Collection Methods
<b>2</b>	<b>Describing Data</b>  2.1 Data organization and presentation 2.2 Measures of Central Tendency 2.3 Measures of Location 2.4 Measures of Dispersion 2.5 Measures of Skewness
<b>3</b>	<b>Correlation and Regression</b>  3.1 Correlation (Pearson's Product Moment Correlation) 3.2 Simple linear regression



<b>4</b>	<b>Index Number</b>  4.1 Types of index numbers 4.2 Calculate and explain unweighted index number 4.3 Calculate and explain weighted index number
<b>5</b>	<b>Time Series</b>  5.1 Component of time series 5.2 Multiplicative time series model 5.3 Trend Analysis (Moving Average Method) 5.4 Seasonal Variations 5.5 Forecasting
<b>6</b>	<b>Introduction to Probability</b>  6.1 Set theory 6.2 Addition rules 6.3 Multiplication rules and conditional probability 6.4 Counting rules (Permutations and Combinations) 6.5 Tree Diagram 6.6 Bayes' Theorem
<b>References:</b>	<b>Allan G. Bluman 2011, <i>Elementary Statistics</i>, 8 Ed., McGraw-Hill [ISBN: 0073386103]</b>