Lecture

Schedule				
То	pic 1: Introduction to Statistics	1-2		
•	Types of variables			
•	Organizing and visualizing data			
•	Measures of central tendency			
•	Measures of variation			
•	Exploring numerical data			
•	Use of Excel			
Topic 2: Basic Probability 3				
•	Basic probability concepts			
•	Conditional probability			
•	Counting rules			
То	pic 3: Discrete and Continuous Probability Distributions	4,6		
•	Discrete probability distribution			
•	Binomial distribution			
•	Continuous probability distribution			
•	Normal distribution			
No	class in week 5 due to public holidays	5		
То	pic 4: Sampling Distribution	7		
•	Introduction to sampling distribution			
•	Sampling distribution of the sample mean			
•	Sampling from normal population			
•	Sampling from non-normal population			
То	pic 5: Confidence Interval Estimation for the Population Mean	8		
•	Introduction to parameter estimation			
•	Confidence interval estimation for population mean with known			
	standard deviation			
•	Confidence interval estimation for population mean with unknown			
	standard deviation			
•	Sample size determination			
То	pic 6: Hypothesis Testing for the Population Mean	9-10		
•	Introduction to hypothesis testing			
•	Hypothesis testing for the population mean with known standard			
	deviation			
•	Hypothesis testing for the population mean with unknown standard			
	deviation			
	pic 7: Confidence Interval Estimation and Hypothesis Testing for the	11		
Po	pulation Proportion			
•	Sampling distribution of the sample proportion			
•	Confidence interval estimation for the population proportion			
•	Sample size determination			
•	Hypothesis testing for the population proportion			
Topic 8: Simple Linear Regression 12-3				
•	Measuring the association between two numerical variables			
•	Simple linear regression model			
•	Statistical significance of a linear regression model			

Tutorial

Week	Topic & Questions
1	No tutorial
2	Topic 1: Q1 – Q6
3	Topic 1: Q7 – Q12
4	Topic 2: Q1 – Q6
5	No class
6	Topic 3: Q1 – Q10
7	Topic 3: Q11 – Q17
8	Topic 4: Q1 – Q7
9	Topic 5: Q1 – Q8
10	Topic 6: Q1 – Q2
11	Topic 6: Q3 – Q7
12	Topic 7: Q1 – Q7
13	Topic 7: Q8 – Q11
Revision week	Topic 8: Q1 – Q16

Online Quiz

Quiz No.	Week	Topics	Date & Time
1	3	1	19 September 2020 (Sat) 09:00am – 20 September 2020 (Sun) 08:59am
2	7	2 & 3	17 October 2020 (Sat) 09:00am – 18 October 2020 (Sun) 08:59am
3	9	4 & 5	31 October 2020 (Sat) 09:00am – 1 November 2020 (Sun) 08:59am
4	13	6 & 7	28 November 2020 (Sat) 09:00am – 29 November 2020 (Sun) 08:59am

Assignment 1 (Topic 1 to 2): Due 4 October 2020 (Sun), 11:59pm

Assignment 2 (Topic 3 to 5): Due 15 November 2020 (Sun), 11:59pm