STAT 100	Course Type : Elective	Course Credits: 3
Class Timings: :00 am – 8:50 am (MWF)	Section: A	Online Office Hours (Zoom): Monday to Friday- 10:00 to 10:50a.m. Zoom Meeting ID : 251 516 6895 Passcode: 123456
nstructor Name: Mustansar	Aatizaz Amjad	
 Assignments will be provide a structure of the s	aterial will be uploaded on Mood ovided on Moodle and submission aded on Moodle. The shared on Moodle (Use the sa red online during class time be uploaded on Moodle e uploaded on Moodle ovided on Moodle and submission	ons are also required on Moodle. Assignment
nstructor Contact Details Email: <u>mustansaramjad@fccol</u> Office Hours (online): Monday Coom Meeting ID: 462 816 58 Passcode: 123456 Guidelines for contacting instru • Online Meeting • Google hangouts grou • If in-person make an a	to Friday- 10:00 to 10:50a.m. 305 uctor: p	
Course Description: Pre-requisites if any: Node of Instruction: Asynchror	nous/ Synchronous Among Students: online discuss	ion forume

• Students are recommended to log in at least 10 minutes before the start of the session to do the necessary checks.

- Be sure to name yourself for your slot on the screen. It will make it easy to get a report of the students' attendance. If your slot carries a different name, to rename: click 3 dots near your video window OR in the participants' list, over your name, and click "rename" to make the change
- Please stay muted when not speaking.
- Please turn off your camera during class.
- Be respectful of others' opinion
- If the session is recorded do not post isolated comments that may be taken out of context.

Considerations for Students with Limited Internet/Technology Access:

• Student with limited internet connections may send an email to instructor with their concern.

[OPTIONAL]: Program Objectives Addressed (which goals of the academic program/department does this course address?)

- A. Demonstrate knowledge about basic statistical concepts, terms and techniques
- B. Analyze various types of data and interpret the results effectively
- C. Think critically about applications of Statistics in various fields
- D. Practice high moral and ethical values in their personal and professional lives and in their communities

Course objective/learning outcomes

At the end of the course the student will:

- 1. Be able to perform arithmetic operations and handle quantitative problems.
- 2. Identify the types of data and use appropriate methods to collect, summarize, classify and present data.
- 3. Be able to distinguish between population and sample and identify various types of variables.
- 4. Be able to calculate different measures of central tendency and dispersion.
- 5. Be able to understand and calculate index numbers and interpret the results.
- 6. Be able to understand basics of correlation and fit a free hand trend line to a time series.

Wk	Topic/ Title	Teaching-Learning Activities		Assessment & Rubrics
VVK		Synchronous (Simultaneously conducted) Presentation / Lecture Live Video-Audio Small Group Discussion/ Breakout Rooms In-class quiz Q&A/ Live Chat	Asynchronous (postal/ Moodle/ email) Discussion blogs WhatsApp Readings Moodle Quizzes Assignment Submission Online Content/ Recordings Lecture notes/ Annotated PPT Experiential learning	
		In-Person/ Online	Off-campus and offline	
1	Understanding the definition.	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	
	Introduction to basic concepts and terminology	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	

Course Content, Learning Material & Activities Schedule

2	Variables, Data collection,	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	Quiz 1
	Data presentation,	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	
3	Classification and Tabulation	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	Assignment 1
	Cont	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	
4	Charts and Graphs: Bar charts and pie-chart	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	Quiz 2
	Cont	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	
5	Introduction to Measures of central tendency. Arithmetic mean,	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	
		In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	
6	Median, quantiles and mode	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	
		In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	
7	Geometric mean and Harmonic mean	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	Assignment 2
	Cont	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint	

			Presentations	
8	Introduction to measures of dispersion.	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	
	Absolute and relative measures of dispersion. (range ; quartile deviation and their coefficients)	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	
		MIDTERM	S	
9	Mean Deviation (with mean and median) and its coefficient	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	
	Standard Deviation/ Variance; Coefficient of Variation	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	
10	Bivariate Data and Correlation	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	Assignment 3
	Cont,	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	
11	Scatter Plot and Free-hand Trend	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	
	Cont.	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	
12	Index Numbers, Unweighted Index Numbers	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	Case Study
	Cont.	In-class lecture; Also, on Zoom	Reading Material, Practice Material,	

			PowerPoint Presentations	
13	Weighted Index Numbers	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	
	Weighted aggregative method	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	
14	Weighted average of relative method	In-class lecture; Also, on Zoom	Reading Material, Practice Material, PowerPoint Presentations	
	Revision			
15	CULMINATING PROJECT			
16	FINAL EXAM			

'Out-of-class' Study Required (across all 3 categories of students -- those attending in-person, online, or asynchronously)

- 1. Students are expected to study 3 hours a week
- 2. If you have any questions please join online office hours
- 3. Assignment submissions will be on Moodle

Textbooks, Materials, Supplies and other Resources

- Mason, Lind, and Marchal, "Statistical Techniques in Business and Economics" McGraw Hill, New York.
- Larry J. Stephens, "Theory and Problems of Beginning Statistics" Schaum's Outline Series McGraw Hill.
- Anderson, Sweeney and Williams, "Statistics for Business and Economics" 9e Thomson South-Western.
- Prof. Sher Muhammad Ch. And Prof. Dr. Shahid Kamal, Introduction to Statistical Theory Part 1, Ilmi Kitab Khana.

Course Requirements:

The breakup is as follows: (may be increase or	decrease)
Class Participation	5%
Assignments:	10%
Quizes	10%
Midterm exam:	25%
Case Study	10%
Final term exam:	40%
TOTAL	100%

[OPTIONAL] Missed Assignments/ Make-Ups/ Extra Credit

No delayed assignments.
No Make-up class and exam

-No retake exam

Attendance Policy:

If a student does not attend a minimum of 70% of total classes, he/she will not be permitted to take the final examination in the course.

Classroom Participation:

Students must participate in classroom for class activities and may ask questions related to lesson taught.

Grading Legend

Below is the grading legend of FCCU (published in all catalogues and available on the FCCU website) as approved by the Academic Council and applies for Fall as well

Grade	Point Value	Numerical Value	Meaning	
A	4.00	93-100		
A-	3.70	90-92	Superior	
B+	3.30	87-89		
В	3.00	83-86	Good	
В-	2.70	80-82		
C+	2.30	77-79		
С	2.00	73-76	Satisfactory	
C-	1.70	70-72		
D+	1.30	67-69	Dessing	
D	1.00	60-66	Passing	
F	0.00	59 or below	Failing	

Student Conduct & Other Issues:

- Consider including ground rules for appropriate classroom interactions, as well as a clear statement of expectations that classroom interactions will remain civil, respectful, and supportive.

- If any student faces any issues or has any concerns regarding the classroom climate and interactions, please feel free to contact VR office <u>gloriacalib@fccollege.edu.pk</u>

Changes to the Syllabus:

This syllabus was designed to convey course information and requirements as accurately as possible. It is important to note however that it **may** be subject to change during the course depending on the needs of the class and other situational factors. Such changes would be for your benefit and you will be notified of them as soon as possible.

Student Support Services

Student Counseling Services Writing Center Mercy Health Center

Other Useful Policy Documents:

Sexual Harassment Policy Anti-Corruption Policy Academic integrity Plagiarism Policy Academic Calendar

I expect that you will strictly follow the core values of FCCU and put your entire efforts to learn as per the course requirements, attend classes, read the textbook(s)/other assigned reading material and do the assignments in the stipulated time period

Developed by CLT (2020) from:

FCC Policy for Fall Semester 2020 https://www.aascu.org/ https://blended.online.ucf.edu/

Note:

PI see https://unitguides.mq.edu.au/ for additional options. Macquarie University has their syllabus online (called Unit Guides and are publicly viewable) See additional information for <u>Syllabus Checklist</u> and for <u>How to Create a Syllabus</u>

Please also consider High Impact Practices for your classes