MDA102 STATISTICAL METHODS

Lecture 1 June 22, 2020

MISSION

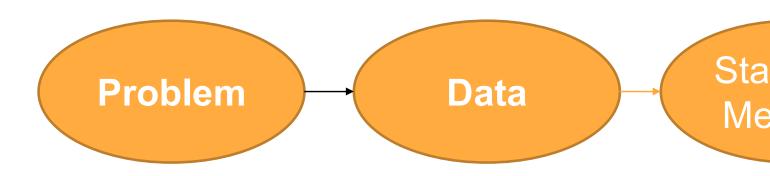
CHRIST is a nurturing ground for an individual's holistic development to make effective contribution to the society in a dynamic environment

VISION

Introduction

Data and Statistical methods

Statistical methods derive meaningful insights from the data.



Statistics - Definition

Statistics is a branch of science which deals with

- Collection
- Tabulation
- Analysis

of scientifically observed data.

Statistics – Key aspects

A few key activities that define the field of Statistics are

- Descriptive statistics exploratory data analysis, unsupervised summaries
- Inference process of making conclusions about populations from
- Prediction Prediction is the process of trying to guess an outcome and some predictors.
- Experimental Design act of controlling your experimental processound conclusions.

Syllabus

First two aspects, Descriptive statistics and Inferential statistics a

By the end of this course you will be able to

- Understand R and R studio and create reports using R markdowr
- Analyze data for a given problem
- Apply probability and statistics in real life problems
- Draw scientific inference from data using R

Evaluation Pattern – only CIA courses (Theory + La

3 rd Week	5 th Week	7 th Week	10 th Week	Last Week	Attendance	Reg Ass
Comp-1	Comp-2	Test-1	Comp-3	Test-2		
20	30	30	30	40	10	

- Comp-1, Comp-2 & Comp-3: Assignment /Class Test / Quiz / Pr
- Test-1: Descriptive Test Theory (60 minutes)
- Test-2: Comprehension Test (should include Lab)
- If a student fails to appear for any of Test-1 or Test-2, there will be
 To appear for the repeat test, the student has to apply for the test
 the approval by the Course Coordinator and Head of the Department

Evaluation Pattern – CIA + ESE (Theory)

4th Week	8th Week		Total	
CIA-1	CIA-2	Attendance		
30	35	5	70	

CIA-1 & CIA-2:

- Assignment/Class Test/Quiz/Presentation/Demonstration etc.
- Minimum 2 components to be included for each CIA
- One of the component should be a Test (Descriptive or Objective