

## DAILY ASSESSMENT FORMAT

Date:	22 <sup>nd</sup> July 2020	Name:	K B KUSHI
Course:	coursera	USN:	4AL17EC107
Topic:	Basic statistics	Semester & Section:	6 & B
GitHub Repository:	KUSHI-COURSES		

### SESSION DETAILS

#### Session images

Basic Statistics > Week 3 > 3.02 Probability
Prev | Next

**Probability & Randomness**

- Reading: Probability & randomness 10 min
- Video: 3.01 Randomness 4 min
- Video: 3.02 Probability 4 min**

Sample space, events & tree diagrams

Probability & sets

Conditional probability & Independence

Review

#### 3.02 Probability

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English

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**Notes** [All notes](#)

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#### Report:

Understanding statistics is essential to understand research in the social and behavioural sciences. In this course you will learn the basics of statistics; not just how to calculate them, but also how to evaluate them. This course will also prepare you for the next course in the specialization - the course Inferential Statistics.

In the first part of the course we will discuss methods of descriptive statistics. You will learn what cases and variables are and how you can compute measures of central tendency (mean, median and mode) and dispersion (standard deviation and variance). Next, we discuss how to assess relationships between variables, and we introduce the concepts correlation and regression.

The second part of the course is concerned with the basics of probability: calculating probabilities, probability distributions and sampling distributions. You need to know about these things in order to understand how inferential statistics work.

The third part of the course consists of an introduction to methods of inferential statistics - methods that help us decide whether the patterns we see in our data are strong enough to draw conclusions about the underlying population we are interested in. We will discuss confidence intervals and significance tests.

You will not only learn about all these statistical concepts; you will also be trained to calculate and generate these statistics yourself using freely available statistical software.

Before we can understand probability, we first have to understand another concept: randomness. The first video explains this concept. It also shows that even though randomness is everywhere around us, humans are nonetheless bad in assessing it.

Once we understand randomness, we can define probability as a way to quantify randomness. The second video explains how this quantification can be accomplished by experiments which record the relative frequency that certain events of interest occur. It follows that probabilities are always larger or equal to zero and smaller or equal to one; and also, that the sum of the probabilities for all possible events equals one. Due to the very nature of random events, the experiments may have to continue for a while before the relative frequencies represent the probabilities accurately, but the law of large numbers dictates that it will do so eventually.

#### DAILY ASSESSMENT FORMAT

Date:	22 <sup>nd</sup> July 2020	Name:	K B KUSHI
Course:	workshop	USN:	4AL17EC107
Topic:	How to develop Pythonic coding rather than Python coding	Semester & Section:	6 & B
GitHub Repository:	KUSHI-COURSES		

#### SESSION DETAILS

Session images

← → ↺

meet.google.com/ocp-dooi-hxi

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12:49 PM

You

REC

Badhusha Mohideen is presenting

Namratha Nair and 146 more

Day 2 Session 2 ppt - Libre-... Day 2 session 2 Examples p... meet.google.com is sharing... Meet - Day 2 Online worksho... 4 days workshop Day 2 - File...

Day 2 session 2 Examples programs.docx - LibreOffice Writer

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