

Research Boot-Camp

COURSE PLAN — FUNDAMENTALS OF RESEARCH

DATE	ACTIVITIES	RECOMMENDED ALLOCATION
1 st Oct	<u>Lesson-1:</u> Orientation session + Research Methodology 101	<u>80 mins</u>
2 nd Oct	<u>Quiz-1:</u> Fundamentals of research and applications	<u>15mins</u>
	<u>Lesson-2:</u> Methods, models, paradigms, designs of research	<u>80 mins</u>
3 rd Oct	<u>Quiz-2:</u> Extensive assessment on designing a sample research	<u>30 mins</u>
	<u>Lesson-3:</u> Data Analysis 101 + Elaborate methodology	<u>90 mins</u>
4 th Oct	<u>Quiz-3:</u> Data analysis skills + Sample dissertation	<u>25 mins</u>
	<u>Lesson-4:</u> Common mistakes + Examples + Tips	<u>80 mins</u>
5 th Oct	ASSIGNMENT: Curating a sample plan for research	<u>60 mins</u>
	<u>Lesson-5:</u> Sampling + Statistics + Ethics	<u>60 mins</u>
6 th Oct	<u>Quiz-4:</u> Sampling + Statistics + Ethics	<u>15 mins</u>
	<u>Lesson-6:</u> Data Visualization in Excel: Spreadsheets	varies
7 th Oct	<u>Lesson-7:</u> Uni-variate data visualization	<u>100 mins</u>
8 th Oct	BREAK	
9 th Oct	ASSIGNMENT: Format a huge data set in conventional style	<u>60 mins</u>
	<u>Lesson-8:</u> Bi-variate data and data analyzing tips	<u>30 mins</u>
10 th Oct	<u>Lesson-9:</u> Revising Quantitative data analysis, data collection and sampling method	<u>80 mins</u>
11 th Oct	<u>Quiz-5:</u> Researching Fundamentals + Steps of Research	<u>30 mins</u>
	<u>Lesson-10:</u> Visualization Fundamentals and Best Practices 1	<u>60 mins</u>

12 th Oct	<u>ASSIGNMENT:</u> Conducting proper sampling for datasets <u>Lesson-11:</u> Visualization Fundamentals and Best Practices 2	<u>60 mins</u> <u>60 mins</u>
13 th Oct	<u>ASSIGNMENT:</u> Visualizing sampled datasets and curating a final research paper with citation and description	<u>120 mins</u>
14 th Oct	<u>DISCUSSION: REMARKS THROUGHOUT THE COURSE</u>	

Notes:

1. You will have to take notes based on the course materials you are assigned each day. You will be required to submit your notes in a specific drive folder.
2. You will be required to sign-in with an ***openLearn account*** to collect your certification
3. Quizzes will be held via **Google Form**. Submission will close on 11:59 PM of the day it was assigned. Writing-based question remarks will be provided via email.
4. You may look more into the internet to find relatable resources for better understanding.

Resources:

1. **YOUTUBE PLAYLIST** -(1st Oct to 5th Oct) - Research Methodology & Design 101
2. **OpenLearn** -(6th Oct to 9th Oct) - Data analysis: visualisations in Excel
3. **YOUTUBE COURSE PART 1** -(11th Oct to 13th Oct) -
 Part 1: Introduction – Data Visualization Fundamentals and Best Practices with Robert K...