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Course Content

Learning Instruments-2

There are various instruments of learning that are important to be used effectively together.

The following learning instruments are similar to the ones in the previous course:

1. **Practice exercises**, which are available towards the end of the week's content, are a set of questions to quickly get you to practice the key libraries/functions covered in the video content.

2. A practice **hands-on quiz** based on the topics covered in the three weeks is available for the learners to attempt. This quiz will help you practice the implementation of statistical techniques on a dataset. It is highly recommended to attempt this quiz after the third mentored learning session and before the project.

3. **Video Lectures** form the foundation of learning material for this course. The lectures are designed from a business application perspective to help you utilize the statistical tools to solve various business problems using Python.

4. **Test Your Understanding** quizzes are interspersed with video lectures to nudge you to check your grasp on the concepts covered in the videos watched and will be helpful in tracking your progress along the course.

5. The **hands-on notebooks** and associated **datasets** can be found at the start of each week's module.

6. The graded elements of the course include the following:

- **2 quizzes**, one due each week
- **1 hands-on project**

7. There will be 2 **mentored learning sessions** in this course. The session plan and related material for the same will be shared in this course a few days before the session. It is a great

practice to prepare a list of questions that you want to ask in the session.

Week	Case Study
1	Engineering Colleges
2	Tourism Services

8. Towards the end of the week's content, you will be provided with the following learning instruments:

- The **lecture slides** that were used in the videos by the faculty
- **Additional case studies** are detailed problem-solving exercises based on the content covered over the week

9. Towards the end of the week, there are optional videos under the **Additional Learning Material** section that deep-dive into some of the concepts covered in the week or introduce new related concepts. These will not be a part of the graded assessments of the course.

10. For the more mathematically aligned learners who seek a deeper understanding of the classic statistics theories and derivations of statistical formulas, we have **reference materials** that will include reading material and monographs at the end of each week's content

Guidelines:

1. While watching the **hands-on video lectures**, it is highly recommended that you work simultaneously with the Prof by downloading the shared dataset and hands-on notebook(s)

2. It is recommended to get your hands dirty with the **practice exercises** before attempting the graded quiz.

3. It is a very good idea to attempt the **additional case studies** yourself first and then refer to the shared solution to compare the analysis and findings.

4. You can refer to the **FAQ pages** to quickly find answers to the common questions asked by the learners regarding the week's content and the project.

5. It is recommended to go through the **reference materials** if you are interested in further exploration of the topics covered in the week.

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