

Instructor: Siva Athreya

Class Hours: Wednesday and Friday: 9:10-10:25.

Teaching Assistants: Ishaan Taneja and Prashant Sharma.

Texts:

1. Statistics: The Art and Science of Learning from Data by Alan Agresti, Christine A. Franklin, Bernhard Klingenberg
2. Using R for Introductory Statistics by John Verzani
3. simpleR Using R for Introductory Statistics by John Verzani. Available online at: <https://cran.r-project.org/doc/contrib/Verzani-SimpleR.pdf>
4. Probability and Statistics with Examples Using R by Siva Athreya, Deepayan Sarkar, and Steve Tanner.
5. R for Data Science by Hadley Wickham and Garrett Golemund.

E-Mail: You may use the following e-mail address: athreya@cmi.ac.in for all correspondences with the course.

WWW-page: I shall maintain a course home-page, at the following address: <http://www.isibang.ac.in/~athreya/Teaching/>. The page should serve as an archive of handouts at the very least. All assignments will be posted on Moodle platform.

Classes: Classes will be on zoom platform and details are available on Moodle platform.

Scoring: Final Exam 40%, Midterm 20%, Quizzes 25% , In-class Worksheets and Homework 15%. The Final exam will be held in the last week of December and the precise date will be announced later. The midterm will be held on October 29th, 2021.

Homework: Homework will be due every Friday (starting 2nd week) and will need to be uploaded as single pdf file on Moodle platform. Please refer to methods to submit Homework at <https://www.isibang.ac.in/~athreya/Teaching/PaSwR/hwsi.pdf>.

Studying: The course requires at least two hours of study for each hour of class time. Homework will be posted on the web. It is imperative that you try, (and write up solutions for), the homework problems *BEFORE* their respective due dates. The problems given

are a small selection so please do try other problems for practice from the text(s). You are encouraged to work together on solving the problems.

Quizzes: There will be a quiz every Friday (starting 2nd week). The *Quizzes* will all be closed book and based on individual work. They will be held on Moodle platform. On certain days you will need to upload the answers as a single pdf file.

In-class Worksheets: Regularly (as often as once a week) throughout the semester we shall do a worksheet in class. You will do the worksheet in breakout rooms on your own computing device. You may work together with other class members in your breakout rooms. You will need to upload the answers to the worksheet in pdf format on moodle after class.

Wednesday Evening Data Science Hour: In the second half of the semester the tentative plan is to have weekly lectures by researchers in the field to give a one hour class. This (extra) class will be held Wednesday evening between 6pm-8pm.

Office hours: Office hours are the times during the week when I will be (solely) available for the purpose of answering student difficulties and helping everybody get unstuck from there problems.

- Office hours that I will have (in the same zoom room) during the week are:-
Wednesday: 8:30-9:00am and **Thursday:** 7pm-8pm.
- The Teaching Assistants will hold office hours during the week at:-
Tuesday:9:00-10:00am and **Thursday:** 9:00-10:00am.

Feedback: Please feel free to drop me an email or come to an office hour, to clear up difficulties or to just discuss mathematics. We can set up zoom session for the same as well. I would appreciate feedback from you as the course progresses. If there are suggestions/clarifications that you have then feel free to ask me.