

Dr. Mindaugas Šarpis

Lessons on Data Analysis from CERN

Lecture 1

Course orientation and motivation

Course structure

- **Lectures**

- **Theory / Overviews**

- Main goal is exposure

- **Discussion**

- Building intuition. Interactivity is important

- **Seminars**

- **Demos**
- **Hands on Sessions**
- **Case Studies**

***Seminar / Lecture ratio may change depending on the topic and demand Please follow communication by coordinators**

Grading Structure

- **2 x 20% Quiz**
- **1 x 60% Final Project**

*Project can be presented at any stage during the course or at the end

**Students are graded according to their previous expertise. One should be able to explain what they did, how and why

Main goals

- Build intuition for good practices
- Be aware of a plethora of available free tools
- Build competences in relevant areas
- Use what you have learned for your own projects

Project Details

- Should include elements of data analysis, using good practices and tools
- May be related to your field of study / current work
- Can be a specific tool / method / algorithm or a broader workflow implementation
- Code or the structure has to be modular / extendable / configurable
- Student has to be able to explain what they did, how and why
- A report of 1 page has to be submitted highlighting the main aspects of the project. A 5-10 min presentation has to be prepared (format is up to your discretion)

September 3rd (CERN)	September 10th
September 17th (CERN)	September 24th
October 1st	October 8th
October 15th	October 22nd (CHEP)
October 29th	November 5th
November 12th (project details)	November 19th (ROME)
November 26th (CERN) (quiz?)	December 3rd
December 10th	December 17th (projects)

~~December 24th~~ (Christmas)

Intro to CERN