COURSE OVERVIEW

- The course provides a survey of the theory and application of methods to work with hypotheses and models
- Topics covered will include overview of different statistical tests, logic and probabilistic inference, hypotheses testing framework
- Applications are astronomical models
- This course is part of a sequence of courses on Big Data track
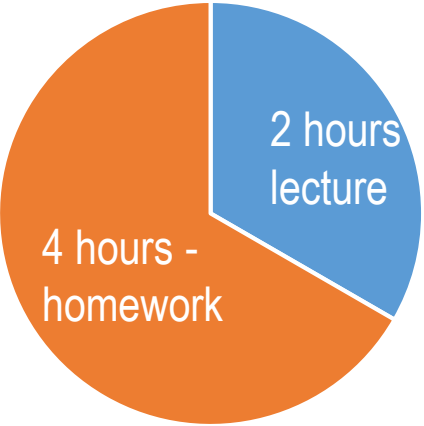- This course is taught for 1st and 2nd year masters students

COURSE OUTCOMES

Course Goals for Students
- The main objective of this course is to overview hypothesis-driven approach and the skills needed to do empirical research in data-intensive domains
- The course aims to provide students with techniques and receipts for applying statistical/probabilistic framework to assess quality of models
- The course will also emphasize recent developments in hypothesis management and will present some open questions and areas of ongoing research

HOW STUDENT TIME IS SPENT

During an average week, students were expected to spend 6 hours on the course, roughly divided as follows:

	M	T	W	Th	F
1			15.02		
2			22.02		
3			01.02		
4			08.03		
5			15.03		
6			22.03		
7			29.03		
8			05.04		
9			12.04		
10			CON		
11			EXAM		

Pie chart: 2 hours lecture, 4 hours - homework

ASSESSMENT

- 40% - Homework
- 60% - Final exam