

REII424 2017 - Lecture and Practical Planning

Month	Date	Theme	8:00 - 9:15	9:30 - 10: 45	13:00 - 17:45
JULY	7				
	14				
	21	No classes - Lecturer Sick Leave			
	28	Introduction to the IoT & Data Science	Introduction	Data Science Roadmap	Lab 1: Exploring the World of Big Data
AUGUST	4	No classes - Sport Day			
	11	Big Data	Databases for Big Data	E-lecture: Cloud Infrastructure	Lab 2: Packing your Toolbox
	18	Data Munging and Visualisation	String Manipulation, Regular Expressions, and Data Cleaning	Lab3: Data Cleaning	Practical 1a: Extracting meaning from Data
	25	Data Munging and Visualisation	Visualizations and Simple Metrics	Lab4: Visualisations and Initial Exploration	Practical 1b: Extracting meaning from Data
	29	Competency Test 1	Study Units 1 - 4: Computer Based Open Book Assessment		
SEPTEMBER	1	No classes - Assessment week			
	8	Introduction to the Big Practical Challenge	E-lecture and work on your own		
	15	Statistical Techniques	Clustering and Dimensionality Reduction	Regression	Lab5: Seeking Patterns in the Data
	22	Statistical Techniques	Time Series Analysis & Probability	Lab 6: Statistics and Data Analytics	Practical 2: Seeing the Invisible in Data
	29	Machine Learning	Feature Extraction	Lab 7: Machine Learning in MATLAB I	
OCTOBER	6	RECESS			
	10	Competency Test 2	Study Unit 5 (And integration of knowledge in Study Units 1- 4): Computer Based Open Book Assessment		
	13	No classes - Assessment week			
	20	Machine Learning	Classification	Lab 8: Machine Learning in MATLAB II	Practical 3: Using Machine Learning to Explore Datasets
	27	Big Practical Challenge	Work on your own on Practical		
NOVEMBER	3	Big Practical Challenge	Big Practical Challenge Demonstration (Integration of Knowledge)		
	10	Review Session	Review Session	Review Session (Optional)	
	17	No classes - EXAM			
	24	No classes - EXAM			

GENERAL NOTES:

Colour coding legend:

	TEST
	LECTURE
	LAB EXERCISE
	PRACTICAL
	SUGGESTED ITOU SESSION

Semester (Competency) Tests:

- I 29 August 2017
- II 10 October 2017

Study Units 1-4

Study Unit 5 (And integration of knowledge in Study Units 1- 4)

Practical Demonstration:

- 1 NO DEMO, ONLY ELECTRONIC SUBMISSION
- 2 NO DEMO, ONLY ELECTRONIC SUBMISSION
- 3 NO DEMO, ONLY ELECTRONIC SUBMISSION

Exam:

- P PRACTICAL EXAM (BIG CHALLENGE): 3 November 2017
- I 13 November 2017
- II 30 November 2017