Week Number	Begin date	Module Heading	Topic	Textbook Chapters	HWK
	,	Your R environment and building charts	Installing R, installing R Studio and installing	Chapter 1, 2, 6, (R Environment)	HWK 1 Charts
1	January 8. 2018		ggplot2. Create some fundamental charts	Chapter 3 (Building charts) Book: R for Data Science, Hadley Wickham	Due 14 Jan
	,	Data transformation in R	Get a first taste of data transformation methods in	Chapter 4, 5 R for Data Science Hadley	HWK 2 dplyr
2	January 15. 2018		dplyr (you will use them a lot!).	Wickham	Due 21 Jan
		Big data & data analysis workflow	Introduction to the concepts of Big data and the 6	Chapter 6, 7, 8 R for Data Science, Hadley	HWK 3 Big Data
			V's, exploratory data analysis and workflow in data analysis	Wickham Chapter 1 Data Collection, Integration and	Due 28 Jan
3	January 22. 2018		,	Analysis. Yain, Schedlbauer, Durant	
		Data wrangling: data import and strings	Introduction to data wrangling. Learn how to import data and process strings	Chapter 9, 10, 11, 14, 15 R for Data Science, Grolemund. Wickham	HWK 4 Data Import
4	January 29. 2018		import dam and process surings	Chapter 6 Data Collection, Integration and Analysis, Jain, Schedlbauer, Durant	Due 4 Feb
		Data wrangling: dates and times	Learn how to handle factors and date time objects	Chapter 2, 3, 4 Data Collection, Integration and Analysis. Yain, Schedlbauer, Durant	HWK 5 Dates and Times
5	February 5. 2018		objects	Chapter 16, "R for Data Science" Hadley Wickham	Due 11 Feb
		Data wrangling: tidy and relational data	Introduction to tidy data and relational data.	Chapter 12, 13 R for Data Science, Hadley Wickham	HWK 6 TidyR
6	February 12. 2018			Wickitain	Due 18 Feb
		Data Collection through Web Scraping and APIs	Using rvest (as well as other tools) to scrape a web site.	Chapter 7, Data collection, integration and analysis, Jain, Schedlbauer and Durant	HWK 7A Web Scraping with a toolkit
7	February 19. 2018		web site.	anarysis, Jani, Schedioader and Durant	Due 22 Oct
		R Programming practice	Introduction to functions and functional programming in R, more in-depth look at data	Chapter 17, 18, 19, 21 R for Data Science, Hadley Wickham and Garrett Grolemund	HWK 7B Web APIs
			analysis pipelines.	Tradely Wickham and Garrett Grotemand	Due 4 Mar
			Homework is a comprehensive practicum on		HWK 8 Web Scraping Practicum
8	February 26. 2018		web scraping and data retrieving.		Due 11 Mar
9	March 5. 2018	Spring Bread			Duc 11 Mai
		Data practicum and project proposal	Continue working on assignment from Week 8		Project proposal due this week
10	March 12. 2018				Due 11 Mar
		The Relational Model			HWK 10 SQLite
					Due 18 Mar
11	March 19. 2018				Feedback on your fellow students' Project proposal
		NoSQL Databases		Chapter 13, 14 Data collection, integration and	
12	March 26. 2018	Document & Graph NoSQL Databases		analysis. Jain, Schedlbauer, Durant	HWK 12 MongoDB
		Document & Graph 1905QL Databases			
13	April 2. 2018	Other programming concepts		Chapter 20 R for Data Science, Hadley Wickham	Due 1 Apr
		Onici programming concepts		Chapter 20 K for Data Science, fractiey wicknam	
14	April 9. 2018				Due 22 Apr
15	April 16. 2018	Storage Design & Term Project			