


PERÍODO: 2017.1		
CENTRO UNIVERSITÁRIO CTC DEPARTAMENTO DE INFORMÁTICA		
INF2391	<i>Data Science</i>	
	Prof. Simone DJ Barbosa Prof. Hélio Côrtes Vieira Lopes	
	CARGA HORÁRIA TOTAL: 45	CRÉDITOS: 3
	Pré-requisito: n/a	

OBJETIVOS	Present fundamental concepts of Data Science with emphasis in reproducible research. Illustrate all concepts by real examples, which will be implemented in R.
EMENTA	Introduction to reproducible research`. Getting data. Preparing data for analysis. Exploring data. Modeling methods. Delivering results through documents with embedded code. Showing results with tables and figures
PROGRAMA	Introduction to reproducible research Introduction to R Getting data Preparing data for analysis Exploring data Modeling methods Delivering results with knitR, LaTeX, and Markdown Showing results with tables and figures
AValiação	Implemented coursework, presentations, and written assignments.
BIBLIOGRAFIA PRINCIPAL	Gandrud, Christopher. Reproducible research with R and RStudio. CRC Press, 2013. Kuhn, Max, and Kjell Johnson. Applied predictive modeling. New York: Springer, 2013. Lamigueiro, Oscar Perpinan. Displaying Time Series, Spatial, and Space-time Data with R. CRC Press, 2014. Xie, Yihui. Dynamic Documents with R and knitr. CRC Press, 2013. Zumel, Nina, and John Mount. Practical data science with R, 2014.
BIBLIOGRAFIA COMPLEMENTAR	