

DRONACHARYA COLLEGE OF ENGINEERING

KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Department: CSE I

Academic Session: (MAY- AUG 2021)

Lecture Plan with Assignment questions

Subject with code: DATA SCIENCE (PCC-CSE-320G)

Name of Faculty with designation : Ms. SAMEEKSHA KUKRETI, Assistant Professor

Month	Date & Day	Sem-Class	Unit	Topic/Chapter covered	Write Lecture Wise Questions
	LEC 1	6th sem CSE I		Concept of Data Science	Question related to data science
	LEC 2	6th sem CSE I		Traits of Big data	Question related to big data
	LEC 3	6th sem CSE I		Web Scraping	Q1) Web Scrapping tools
	LEC 4	6th sem CSE I		Analysis vs Reporting	Q1)Discuss different types of analysis tools Q2) Diff b/w analysis & reporting
	LEC 5	6th sem CSE I		Collection, storing, processing, describing and modelling	Q1) data science lifecycle steps.
	LEC 6	6th sem CSE I		Statistical modelling	Q1)Explain regression model & classification model
	LEC 7	6th sem CSE I		Algorithm modelling	
	LEC 8	6th sem CSE I		AI and data science	Q1) Difference between AI,DS & ML
	LEC 9	6th sem CSE I		Myths of Data science	Q1) Different Myths of DS

	LEC 10	6th sem CSE I		Class Test	
	LEC 11	6th sem CSE I		Toolkits using Python: Matplotlib	PRACTICAL
	LEC 12	6th sem CSE I		Toolkits using Python:NumPy	PRACTICAL
	LEC 13	6th sem CSE I		Toolkits using Python:Scikit-learn, NLTK	PRACTICAL
	LEC 14	6th sem CSE I		Visualizing Data: Bar Charts, Line Charts	PRACTICAL
	LEC 15	6th sem CSE I		Scatterplots, Working with data	PRACTICAL
	LEC 16	6th sem CSE I		Reading Files, Scraping the Web	Q1)Explai various Scraping techniques.
	LEC 17	6th sem CSE I		Class Test	
	LEC 18	6th sem CSE I		Data Science Methodology: Business Understanding	Q1) What is business Understanding in data science ? Q2) Discuss different aproaches followed in business Understanding.
	LEC 19	6th sem CSE I		Data Science Methodology:Analytic Approach	Q1) What is Analytical approach in data science ? Q2) Discuss different aproaches followed in Analytics.
	LEC 20	6th sem CSE I		Data Requirements, Data Collection, Data Understanding	Q1)Explain the following terms Data Requirements, Data Collection, Data Understanding.
	LEC 21	6th sem CSE I		Data Preparation, Modeling, Evaluation, Deployment, feedback	Q1)Explain the following terms data Preparation, Modeling, Evaluation, Deployment, feedback

	LEC 22	6th sem CSE I		Data Science Application: Prediction and elections	Q1) Discuss different approaches followed in Prediction.
	LEC 23	6th sem CSE I		Data Science Application:Recommendations	Q1) Discuss Collaborative filter algo
	LEC 24	6th sem CSE I		Data Science Application:business analytics	Q1) Role of business analyst in data science ?
	LEC 25	6th sem CSE I		Business process modelling techniques, Use case Modelling	Question
	LEC 26	6th sem CSE I		clustering	Q1) Difference between grid based & modelling based clustering methods Q2) Explain K-means clustering technique
	LEC 27	6th sem CSE I		Hierarchical Clustering,Fuzzy Clustering.	Q1) Diff b/w Hierarchical Clustering,Fuzzy Clustering
	LEC 28	6th sem CSE I		text analytics	Q1) Role of text analyst in data science ? Q2) Discuss various text analysis tools.
	LEC 29	6th sem CSE I		Visualizing Data	Visualization technique
	LEC 30	6th sem CSE I		Important Question Discussion	
	LEC 31	6th sem CSE I		Class Revision	
	LEC 32	6th sem CSE I		Class Revision	