DRONACHARYA COLLEGE OF ENGINEERING

KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Department: CSE II

Academic Session: (MAY- AUG 2021)

Lecture Plan with Asssignment 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 II		Concept of Data Science	Question related to data science
	LEC 2	6th sem CSE II		Traits of Big data	Question related to big data
	LEC 3	6th sem CSE II		Web Scraping	Q1) Web Scrapping tools
	LEC 4	6th sem CSE II		Analysis vs Reporting	Q1)Discuss different types of analysis tools Q2) Diff b/w analysis & reporting
	LEC 5	6th sem CSE II		Collection, storing, processing, describing and modelling	Q1) data science lifecycle steps.
	LEC 6	6th sem CSE II		Statistical modelling	Q1)Explain regression model & classification model
	LEC 7	6th sem CSE II		Algorithm modelling	
	LEC 8	6th sem CSE II		AI and data science	Q1) Difference between AI,DS & ML
	LEC 9	6th sem CSE II		Myths of Data science	Q1) Different Myths of DS

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

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