

UNIVERSITAS JEMBER FAKULTAS ILMU KOMPUTER PROGRAM STUDI SISTEM INFORMASI

KONTRAK KULIAH					
Nama Mata Kuliah	:	Data Science			
Kode Mata Kuliah	:	KFU1104			
Semester/Tahun Akademik	<u>:</u>	Pilihan			
SKS	:	3			
Koordinator Mata Kuliah	<u>:</u>	Nelly Oktavia Adiwijaya, S.Si, MT, CEC [1]			
Tim Pengajar	<u>:</u>	Nelly Oktavia Adiwijaya, S.Si, MT, CEC			
Diskripsi Mata Kuliah	:	Matakuliah ini berisi kajian mengenai konsep data science dan metodologinya. Mata kuliah ini berisi kajian megenai analisis deskriptif, prediktif, dan preskriptif. Mata kuliah ini juga berisi konsep big data dan tren analisis data science di masa depan			
Capaian Pembelajaran Matakuliah	:	 Mahasiswa mampu menjelaskan konsep Data Science Mahasiswa mampu menjelaskan tentang metodologi data science Mahasiswa dapat melakukan analisa deskriptif Mahasiswa dapat melakukan analisis prediktif Mahasiswa dapat melakukan analisis preskriptif Mahasiswa dapat menjelaskan konsep big data dan toolsnya Mahasiswa dapat menjelaskan tentang tren ke depannya dari analisis data science 			
Bahan Kajian	:	Overview Of Data Science (1, 2) About Data (3) Methodology of Data Science (2,3) Business Understanding & Data Collection Data Preparation & Data Analysis Data Visualization & Data Modelling Business Intelligent & Data Warehousing Descriptive Analitics: Nature of Data, Statistical modeling, and visualization (1) Predictive Analysis 1: Data mining process, methods & Algorithm Predictive Analysis 2: Text, Web, & Social Media Analytics Prescriptive Analytics: Optimization & Simulation Big Data Concept and tools Future trends, privacy & Managerial considerations in analytics			
Referensi	:	1. Ramesh Sharda, Turban, dkk,, Business Intelligence, Analytics, and Data Science A Managerial Perspective, 2018, Pearson (5DS)			

					 Data Science and Big Data Analy Discovering, Analyzing, Visualiz Presenting Data by EMC Educati (4DS) Principles of Data Science by Sin (2DS) 	ing and on Services
Tugas			:	- N	Mahasiswa membuat analisis dari studi k nasing-masing jenis analisis (Nilai Kuis & Mahasiswa membuatAnalisis & Insight da UAS)	& UTS)
Kriteria Penilaian			Mahasiswa dapat menuangkan ide kreatif dalam analisis yang dibuat. Mahasiswa dapat melakukan analisa komprehensif pada data2 yang diolah. Mahasiswa dapat menghasilkan insight yang menarik dan solutif dari analisis data Kuis dan UTS: Studi kasus analisis UAS: Project kelompok anggota 2 orang			
Jadwal Perkuliahan		:				
	Pertemuan ke	Tang Jam	Tanggal dan		Bahan Kajian	Dosen Pengampu
	1	Jaiii			Overview Of Data Science	1
	2				About Data	1
	3				Methodology of Data Science (2,3)	1
	4				Business Understanding & Data	1
					Collection	
	5				Data Preparation & Data Analysis	1
	6-				Data Visualization & Data Modelling	
	7	ı				1
					Business Intelligent & Data Warehousing	
	Q				(case study)	1
1	8 9-				(case study) UTS	
	8 9-				(case study) UTS Descriptive Analitics 1: Nature of Data,	1
					(case study) UTS	1
	9-				(case study) UTS Descriptive Analitics 1: Nature of Data, Statistical modeling, and visualization Descriptive Analitics 2: Business Intelligent & Data Warehousing	1
	9-				(case study) UTS Descriptive Analitics 1: Nature of Data, Statistical modeling, and visualization Descriptive Analitics 2: Business Intelligent & Data Warehousing Predictive Analysis 1: Data mining	1 1 1
	9- 10 11-				(case study) UTS Descriptive Analitics 1: Nature of Data, Statistical modeling, and visualization Descriptive Analitics 2: Business Intelligent & Data Warehousing Predictive Analysis 1: Data mining process, methods & Algorithm	1 1 1
	9- 10				(case study) UTS Descriptive Analitics 1: Nature of Data, Statistical modeling, and visualization Descriptive Analitics 2: Business Intelligent & Data Warehousing Predictive Analysis 1: Data mining process, methods & Algorithm Predictive Analysis 2: Text, Web, &	1 1 1
	9- 10 11- 12				(case study) UTS Descriptive Analitics 1: Nature of Data, Statistical modeling, and visualization Descriptive Analitics 2: Business Intelligent & Data Warehousing Predictive Analysis 1: Data mining process, methods & Algorithm Predictive Analysis 2: Text, Web, & Social Media Analytics	1 1 1
	9- 10 11-				(case study) UTS Descriptive Analitics 1: Nature of Data, Statistical modeling, and visualization Descriptive Analitics 2: Business Intelligent & Data Warehousing Predictive Analysis 1: Data mining process, methods & Algorithm Predictive Analysis 2: Text, Web, & Social Media Analytics Prescriptive Analytics: Optimization &	1 1 1
	9- 10 11- 12 13-				(case study) UTS Descriptive Analitics 1: Nature of Data, Statistical modeling, and visualization Descriptive Analitics 2: Business Intelligent & Data Warehousing Predictive Analysis 1: Data mining process, methods & Algorithm Predictive Analysis 2: Text, Web, & Social Media Analytics Prescriptive Analytics: Optimization & Simulation	1 1 1
	9- 10 11- 12				(case study) UTS Descriptive Analitics 1: Nature of Data, Statistical modeling, and visualization Descriptive Analitics 2: Business Intelligent & Data Warehousing Predictive Analysis 1: Data mining process, methods & Algorithm Predictive Analysis 2: Text, Web, & Social Media Analytics Prescriptive Analytics: Optimization &	1 1 1

Jember, Agustus 2021

Dosen Pembina/Koordinator Matakuliah Perwakilan Mahasiswa

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	Mengetahui,							
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NIP:								