

DOUBLE DEGREE | Academic Year 2023/2024

SEMESTER 1			SEMESTER 2		
	SKS	ECTS		SKS	ECTS
English 1	2	3	English 2	2	3
Algorithms & Object-Oriented Programming	4	6	Data Structures & Algorithms	3	4
Data Science Programming Language	2	3	Server-side Web Programming	4	6
Relational Database Design & Lab	3	4	Web Development Life Cycle Project	2	3
Discrete Mathematics	2	3	Introduction to Entrepreneurship	2	3
Web Design Fundamental	2	3	Ethics & Religious Philosophy	2	3
Analytical & Creative Thinking	3	4	Linear Algebra for Data Science	2	3
Statistics for Data Science	2	3	Probability for Data Science	2	3
Linux Fundamental & Computer Network	2	3	System Admin & Maintenance	2	3
Total Mandatory	22	32	Total Mandatory	21	31
Extracurricular Courses			Extracurricular Courses		
German Language and Culture 1	2	0	German Language and Culture 2	2	0
TOTAL	24	32	TOTAL	23	31

SEMESTER 3			SEMESTER 4		
	SKS	ECTS		SKS	ECTS
English 3	2	3	English 4	2	3
Client-side Front-End Web Development	2	3	Back-End Web Development & tools	3	4
Personal & Professional Development	4	6	Framework-based Web Programming	3	4
Non-Relational Database Design & Lab	3	4	Pancasila & Civic	3	4
Advanced Object-Oriented Programming	3	4	Network Security & Lab	3	4
Computer Security & Lab	3	4	Mobile Web Service & API (Middleware)	2	3
UI/UX Design & Evaluation	2	3	Introduction to Artificial Intelligence and Laboratory	3	5
Back-end System Administration	3	4	Math for Machine Learnings	3	5
Total Mandatory	22	31	Total Mandatory	22	32
Extracurricular Courses			Extracurricular Courses		
German Language and Culture 3	2	0	German Language and Culture 4	2	0
TOTAL	24	31	TOTAL	24	32

SEMESTER 5			SEMESTER 6		
	SKS	ECTS		SKS	ECTS
Internship 1	2	10	Internship 2	6	20
Indonesian Language	2	3			
Cross-Platform Mobile App Development	2	3	JOINT DEGREE SUBJECTS		
Pattern Recognition & Image Processing	3	4	ERP and Lab	2	3
Big Data Infrastructure	2	3	Current Developments in Business IT	1	2
Cross Study Program or Faculty Elective Course	2	3	Challenges in Int. Management (Globalization and CSR)	1	2
			SINGLE DEGREE SUBJECTS		
			Cross Study Program or Faculty Elective Course	4	7
				4	7
TOTAL	13	26	TOTAL	10	27

SEMESTER 7			SEMESTER 8		
	SKS	ECTS		SKS	ECTS
English 5	2	3	Thesis	6	20
Research Methodology	2	3	Professional Competence Assessment (PCA)	3	4
Data Science using Python	2	3	Character and Professional Development Program (CPDP)	2	3
Data Mining	3	4	Cross Study Program or Faculty Elective Course	2	3
Native Mobile App Development	3	5			
Secure Software Development Life Cycle	2	3			
Machine Learning & Deep Learning	4	5			
Big Data Analytics	3	5			
TOTAL	21	31	TOTAL	13	30

Total Compulsory : 144 SKS
Total ECTS : 240 ECTS
SKS : Satuan Kredit Semester
ECTS : European Credit Transfer System

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