

## KURIKULUM PRODI S1 TEKNIK KOMPUTER KONSENTRASI CYBER SECURITY DAN IOT

### DAFTAR MATA KULIAH SEMESTER 1

NO	KODE_MK	MATA KULIAH	COURSE	SIFAT	TEORI/ PRAKTEK	SKS
1	TK001	Etika Profesi	Professional Ethics	Wajib	2T	2
2	TK003	Bahasa Inggris 1	English 1	Wajib	2T	2
3	TK005	Fotografi	Photography	Wajib	2T	2
4	TK006	Ekonomi Kreatif	Creative Economy	Wajib	2T	2
5	TK011	Pendidikan Agama / Etika Muslim	Religious Education / Muslim Ethics	Wajib	2T	2
6	TK012	Pendidikan Agama / Etika Non-Muslim	Religious Education / Non-Muslim Ethics	Wajib	2T	2
7	TK013	Pendidikan Pancasila	Pancasila Education	Wajib	2T	2
8	TK028	Success Skill	Success Skill	Wajib	2T	2
9	TK079	Desain Grafis	Graphic Design	Wajib	2P	2
10	TK086	Pengantar Sistem Komputer	Introduction to Computer Systems	Wajib	2P	2
11	TK087	Matematika Diskrit	Discrete Mathematics	Wajib	2T	2
12	TK088	Aljabar Linear	Linear Algebra	Wajib	2T	2
<b>SUBTOTAL SKS</b>						<b>22</b>

### DAFTAR MATA KULIAH SEMESTER 2

NO	KODE_MK	MATA KULIAH	COURSE	SIFAT	TEORI/ PRAKTEK	SKS
1	TK002	Lingkungan Bisnis	Business Environment	Wajib	2T	2
2	TK046	Pendidikan Kewarganegaraan	Civic education	Wajib	2T	2
3	TK089	Fisika Dasar	Basic Physics	Wajib	2T	2
4	TK080	Kewirausahaan	Entrepreneurship	Wajib	2T	2
5	TK090	Organisasi dan Arsitektur Komputer	Computer Organization and Architecture	Wajib	2T	2
6	TK014	Bahasa Inggris 2	English 2	Wajib	2T	2
7	TK023	Multimedia	Multimedia	Wajib	2P	2
8	TK008	Sistem Operasi	Operating Systems	Wajib	2T/2P	4
9	TK004	Matematika Teknik	Engineering Mathematics	Wajib	4T	4
<b>SUBTOTAL SKS</b>						<b>22</b>

### DAFTAR MATA KULIAH SEMESTER 3

NO	KODE_MK	MATA KULIAH	COURSE	SIFAT	TEORI/ PRAKTEK	SKS
1	TK043	Bahasa Inggris 3	English 3	Wajib	2T	2
2	TK015	Algoritma Komputer & Struktur Data	Computer Algorithms & Data Structures	Wajib	2T/2P	4
3	TK091	Pemrograman Dasar	Basic Programming	Wajib	2T/2P	4
4	TK020	Pengolahan Basisdata	Database Processing	Wajib	2T/2P	4
5	TK092	Metode Numerik	Numerical Methods	Wajib	2T	2
6	TK016	Jaringan Komputer 1	Computer Networks 1	Wajib	2T/2P	4
7	TK093	Keamanan Dasar	Basic Security	Wajib	2T	2
8	TK082	Dasar-dasar IoT	IoT Basics	Wajib	2T	2
<b>SUBTOTAL SKS</b>						<b>24</b>

### DAFTAR MATA KULIAH SEMESTER 4

NO	KODE_MK	MATA KULIAH	COURSE	SIFAT	TEORI/ PRAKTEK	SKS
1	TK021	Pemrograman Web	Web Programming	Wajib	2T/2P	4
2	TK094	Pemrograman Berorientasi Object	Object Oriented Programming	Wajib	2T/2P	4
3	TK095	Statistik dan Probabilitas	Statistics and Probability	Wajib	2T	2
4	TK038	Bahasa Indonesia & Penulisan Ilmiah	Indonesian Language & Scientific Writing	Wajib	2T	2
5	TK085	Metodologi Penelitian Dasar	Basic Research Methodology	Wajib	2T	2
6	TK022	Jaringan Komputer 2	Computer Network 2	Wajib	2T/2P	4
7	TK096	Kecerdasan Buatan	Artificial Intelligence	Wajib	2T	2
8	TK097	Komputasi Awan	Cloud Computing	Konsentrasi CyberSecurity	2T	2
9	TK098	Kriptografi Dasar	Basic Cryptography	Konsentrasi CyberSecurity	2T	2
10	TK063	IoT Platform	IoT Platform	Konsentrasi IoT	2T	2
11	TK099	Sistem Akuisisi Data	Data Acquisition System	Konsentrasi IoT	2T	2
<b>SUBTOTAL SKS</b>						<b>28</b>

### DAFTAR MATA KULIAH SEMESTER 5

NO	KODE_MK	MATA KULIAH	COURSE	SIFAT	TEORI/ PRAKTEK	SKS
1	TK100	Metodologi Penelitian Lanjut	Advanced Research Methodology	Wajib	2T	2
2	TK101	Rekayasa Perangkat Lunak	Software Engineering	Wajib	2T/2P	4
3	TK102	Big Data	Big Data	Wajib	2T	2
4	TK027	Kejahatan Cyber & Hukum Pidana	Cybercrime and Criminal Law	Konsentrasi CyberSecurity	2T	2
5	TK103	Jaringan Komputer 3	Computer Networks 3	Konsentrasi CyberSecurity	2T/2P	4
6	TK034	Sistem Pertahanan Jaringan	Network Defense Systems	Konsentrasi CyberSecurity	2T/2P	4
7	TK104	OS Server & Sistem Admin	Server OS & Admin Systems	Konsentrasi CyberSecurity	2P	2
8	TK105	Rangkaian Listrik	Electrical Circuits	Konsentrasi IoT	2T	2
9	TK106	Elektronika Dasar	Basic Electronics	Konsentrasi IoT	2T	2
10	TK107	Sistem Digital	Digital Systems	Konsentrasi IoT	2T/2P	4
11	TK108	Sistem Tertanam	Embedded Systems	Konsentrasi IoT	2T/2P	4
12	TK109	Pemrograman Berorientasi Object Lanjut	Advanced Object Oriented Programming	Pilihan	2P	2
13	TK110	Pemrograman Web Lanjut	Advanced Web Programming	Pilihan	2P	2
<b>SUBTOTAL SKS</b>						<b>36</b>

### DAFTAR MATA KULIAH SEMESTER 6

NO	KODE_MK	MATA KULIAH	COURSE	SIFAT	TEORI/ PRAKTEK	SKS
1	TK111	Capstone Project	Capstone Project	Wajib	2T	2
2	TK112	Kriptografi Dasar	Basic Cryptography	Konsentrasi CyberSecurity	2T	2

3	TK035	Cybersecurity Standard & Audit	Cybersecurity Standard & Audit	Konsentrasi CyberSecurity	2T	2
4	TK040	Ethical Hacking	Ethical Hacking	Konsentrasi CyberSecurity	2T/2P	4
5	TK113	Keamanan Web	Web Security	Konsentrasi CyberSecurity	2P	2
6	TK114	Insiden Respon	Incident Response	Konsentrasi CyberSecurity	2T	2
7	TK115	Jaringan Sensor Nirkabel	Wireless Sensor Networks	Konsentrasi IoT	2T/2P	4
8	TK116	Sensor dan Teknologi	Sensors and Technology	Konsentrasi IoT	2T/2P	4
9	TK117	Sistem Cerdas	Intelligent Systems	Konsentrasi IoT	2T/2P	4
10	TK118	Jaringan Nirkabel	Wireless Networks	Pilihan	2T/2P	4
<b>SUBTOTAL SKS</b>						<b>30</b>

**DAFTAR MATA KULIAH SEMESTER 7**

NO	KODE_MK	MATA KULIAH	COURSE	SIFAT	TEORI/ PRAKTEK	SKS
1	TK083	Bisnis Digital	Digital Business	Pilihan	2T	2
2	TK044	Manajemen Strategik	Strategic Management	Pilihan	2T	2
3	TK075	Machine Learning	Machine Learning	Pilihan	2T	2
4	TK078	Magang	Internship	Pilihan	8T	8
5	TK053	Skripsi	Thesis	Wajib	6T	6
<b>SUBTOTAL SKS</b>						<b>20</b>

**DAFTAR MATA KULIAH SEMESTER 8**

NO	KODE_MK	MATA KULIAH	COURSE	SIFAT	TEORI/ PRAKTEK	SKS
1	TK078	Magang	Internship	Pilihan	8T	8
2	TK053	Skripsi	Thesis	Wajib	6T	6
<b>SUBTOTAL SKS</b>						<b>14</b>

**Keterangan :**

	Mata Kuliah Wajib = 104 SKS
	Mata Kuliah Konsentrasi Cyber Security = 28 SKS
	Mata Kuliah Konsentrasi IoT = 28 SKS
	Mata Kuliah Pilihan = 22 SKS, Minimal diambil 12 SKS
T	Perkuliahan di Ruang Kelas Teori atau Lapangan
P	Perkuliahan di Laboratorium Komputer atau Lapangan

**Jumlah SKS Syarat Kelulusan = 144 SKS**  
**MK Wajib 104 SKS + MK Konsentrasi 28 SKS + MK Pilihan 12 SKS = 144 SKS**  
 Jumlah total MK teori ditawarkan = 134 SKS  
 Jumlah total MK Praktik ditawarkan = 50 SKS  
 Jumlah SKS Magang = 8 SKS