

Kurikulum Program Sarjana Program Studi Teknik Komputer TA 2020-2021

Konsentrasi : Cybersecurity & IoT

No	Kode	Matakuliah	Course	SKS	Teori/Prak	Semester
1	TK001	Etika Profesi	Professional Ethics	2	T	1
2	TK002	Lingkungan Bisnis	Business Environment	2	T	1
3	TK005	Fotografi	Photography	2	T	1
4	TK007	Instalasi Hardware	Hardware Installation	2	P	1
5	TK013	Pendidikan Pancasila	Education of Indonesia Ideology	2	T	1
6	TK059	Keamanan Dasar & Kriptografi	Fundamental Security & Cryptography	4	T	1
7	TK079	Desain Grafis	Graphic Design	2	P	1
8	TK080	Kewirausahaan	Entrepreneurship	2	T	1
9	TK081	Pengantar Manajemen Sumber Daya Sistem (SO)	Introduction to System Resource Management (OS)	4	2T/2P	1
Subtotal				22	16T/6P	
10	TK003	Bahasa Inggris 1	English 1	2	T	2
11	TK004	Matematika Teknik	Engineering Mathematics	4	T	2
12	TK011	Pendidikan Agama / Etika Muslim	Religious Education - Moslem Ethics	2	T	2
13	TK012	Pendidikan Agama / Etika Non-Muslim	Religious Education - Non-Moslem Ethics	2	T	2
14	TK015	Algoritma Komputer & Struktur Data	Computing Algorithms & Data Structure	4	2T/2P	2
15	TK016	Jaringan Komputer 1	Computer Networks 1 (CCNA 1)	4	2T/2P	2
16	TK023	Multimedia	Multimedia	2	P	2
17	TK028	Success Skill	Success Skill	2	T	2
18	TK082	Dasar-dasar IoT	Fundamental of Internet of Things (IoT)	2	T	2
Subtotal				24	18T/6P	
19	TK014	Bahasa Inggris 2	English 2	2	T	3
20	TK017	Pemrograman Python	Python Programming (Python Basic)	4	2T/2P	3
21	TK021	Pemrograman Web	Web Programming (php basic-front end)	4	2T/2P	3
22	TK022	Jaringan Komputer 2	Computer Networks 2 (CCNA 2)	4	2T/2P	3
23	TK018	Keamanan Manusia & Organisasi	Human & Organizational Security	2	T	3
24	TK034	Sistem Pertahanan Jaringan	Network Defence System (CND)	4	2T/2P	3
25	TK061	OS Server & Sistem Admin	OS Server & System Admin	4	2T/2P	3
26	TK062	Elektronika dan Sistem Digital	Electronics and Digital Systems	4	2T/2P	3
27	TK064	Edge Computing	Edge Computing	4	2T/2P	3
28	TK065	Teknologi Sensor	Sensor Technology	2	T	3

			Subtotal	34	20T/14P	
29	TK006	Ekonomi Kreatif	Creative Economy	2	T	4
30	TK020	Pengolahan Basisdata	Database Processing	4	2T/2P	4
31	TK031	Jaringan Komputer 3	Computer Network 3 (CCNA3)	4	2T/2P	4
32	TK046	Pendidikan Kewarganegaraan	Civic Educations	2	T	4
33	TK083	Bisnis Digital	Digital Business	2	T	4
34	TK019	Dasar-dasar Cybersecurity	Cybersecurity Fundamentals (CyberOps)	4	2T/2P	4
35	TK027	Kejahatan Cyber & Hukum Pidana	Cybercrime & Criminal Justice	2	T	4
36	TK068	Sistem Pertahanan Jaringan Lanjut	Advanced Network Defence System (CND)	4	2T/2P	4
37	TK057	Teknologi Deteksi Lokasi	Location Detection Technologies	4	2T/2P	4
38	TK063	IoT Platform	IoT Platform	2	T	4
39	TK069	IoT untuk Rumah Cerdas dan Gedung	IoT for Smart Home & Building	4	2T/2P	4
			Subtotal	30	18T/12P	
40	TK037	Metodologi Penelitian	Research Methodology	2	T	5
41	TK038	Bahasa Indonesia & Penulisan Ilmiah	Indonesian Language & Scientific Writing	2	T	5
42	TK067	Pemrograman Python Lanjut	Advanced Python Programming	4	2T/2P	5
43	TK072	Komputasi Awan	Cloud Computing	4	2T/2P	5
44	TK033	Penilaian Kerentanan Sistem	System Vulnerability Assessment	2	T	5
45	TK049	Analisis Malware & Respon Kejadian	Malware Analysis & Incident Response	4	2T/2P	5
46	TK040	Ethical Hacking	Ethical Hacking (CEH)	4	2T/2P	5
47	TK058	IoT untuk Kota Cerdas	IoT for Smart City	4	3T/1P	5
48	TK073	Kecerdasan Buatan	Artificial Intelligence	4	2T/2P	5
49	TK035	Cybersecurity Standard & Audit	Cybersecurity Standard & Audit (ISO27001)	2	T	5
50	TK077	Big Data	Big Data	4	T	5
			Subtotal	36	25T/11P	
51	TK039	Web Sistem & Keamanan	Web System & Security	4	2T/2P	6
52	TK047	Forensik Digital & Investigasi	Digital Forensic & Investigation (CHFI)	4	2T/2P	6
53	TK048	Mobile Security & Media Forensic	Mobile Security & Media Forensic	4	2T/2P	6
54	TK075	Machine Learning	Machine Learning	4	3T/1P	6
55	TK076	Pengembangan Perangkat Keras	Hardware Development (Drone & 3D Printer)	4	2T/2P	6
56	TK041	Jaringan Komputer 4	Computer Network 4 (MTCNA & MTCRE)	4	2T/2P	6
57	TK043	Bahasa Inggris 3	English 3	2	T	6
58	TK044	Manajemen Strategik	Strategic Management (Project Management)	2	T	6
59	TK050	Keamanan IoT	Security of IoT	2	P	6
60	TK051	Statistik	Statistics	2	T	6
61	TK066	Pemrograman Seluler*	Mobile Programming*	4	2T/2P	6
			Subtotal	36	21T/15P	
62	TK032	Kriptografi Lanjut	Advanced Cryptography	4	T	7

63	TK056	Magang-16	Internsip-16 (Practical Work)	16	T	7
64	TK070	Pemrograman Web Lanjut	Advanced Web Programming (php-back end)	4	2T/2P	7
65	TK071	Pengembangan Aplikasi Seluler Lanjut	Advanced Mobile Application Development	4	2T/2P	7
66	TK078	Magang-8*	Internsip-8* (Practical Work)	8	T	7
Subtotal				36	32T/4P	
67	TK053	Skripsi <--	Thesis <--	6	T	7 - 8
Subtotal				6	6T	
TOTAL				224	156T/68P	

Keterangan :

	Mata Kuliah Wajib = 92 SKS
	Mata Kuliah Pilihan = 58 SKS, minimal diambil = 16 SKS
	Mata Kuliah Konsentrasi Cybersecurity = 42 SKS, minimal di ambil 36 SKS
	Mata Kuliah Konsentrasi IoT = 36 SKS
T	Perkuliahan di Ruang Kelas Teori atau Lapangan
P	Praktikum di Laboratorium Komputer atau Lapangan

Teori	Praktik
69.64%	30.36%

Jumlah SKS Syarat Kelulusan = 144 SKS
MK Wajib 92 SKS + MK Konsentrasi 36 SKS + MK Pilihan 16 SKS = 144 SKS
 Jumlah total MK Teori ditawarkan = 156 SKS
 Jumlah total MK Praktik ditawarkan = 68 SKS
 Jumlah SKS MK Magang = 8 atau 16 SKS