Kurikulum Program Sarjana Program Studi Teknik Komputer TA 2020-2021
Konsentrasi : Cybersecurity & IoT

No	Kode	Matakuliah	Course	SKS	Teori/Prak
1	TK001	Etika Profesi	Professional Ethics	2	T
2	TK002	Lingkungan Bisnis	Business Environment	2	T
3	TK003	Bahasa Inggris 1	English 1	2	T
4	TK005	Fotografi	Photography	2	T
5	TK007	Instalasi Hardware	Hardware Installation	2	P
6		Keamanan Dasar & Kriptografi	Fundamental Security & Cryptography	4	T
7		Desain Grafis	Graphic Design	2	P
8		Kewirausahaan	Entrepreneurship	2	T
9		Pengantar Manajemen Sumber Daya Sistem (SO)	Introduction to System Resource Management (OS)	4	2T/2P
			Subtotal	**22**	**16T/6P**
10	TK004	Matematika Teknik	Engineering Mathematics	4	T
11	TK011	Pendidikan Agama / Etika Muslim	*Religious Education - Moslem Ethics*	2	T
12	TK012	Pendidikan Agama / Etika Non-Muslim	*Religious Education - Non-Moslem Ethics*		
13	TK014	Bahasa Inggris 2	English 2	2	T
14	TK015	Algoritma Komputer & Struktur Data	Computing Algorithms & Data Structure	4	2T/2P
15	TK016	Jaringan Komputer 1	Computer Networks 1 (CCNA 1)	4	2T/2P
16	TK023	Multimedia	Multimedia	2	P
17	TK028	Success Skill	Success Skill	2	T
18		Dasar-dasar IoT	Fundamental of Internet of Things (IoT)	2	T
			Subtotal	**22**	**16T/6P**
19	TK013	Pendidikan Pancasila	Education of Indonesia Ideology	2	T
20	TK017	Pemrograman Python	Python Programming (Python Basic)	4	2T/2P
21	TK021	Pemrograman Web	Web Programming (php basic-front end)	4	2T/2P
22	TK022	Jaringan Komputer 2	Computer Networks 2 (CCNA 2)	4	2T/2P
23	TK018	Keamanan Manusia & Organisasi	Human & Organizational Security	2	T
24	TK061	OS Server & Sistem Admin	OS Server & System Admin	4	2T/2P
25		Sistem Pertahanan Jaringan 1	Network Defence System 1 (CND)	4	2T/2P
26	TK062	Elektronika dan Sistem Digital	Electronics and Digital Systems	4	2T/2P
27	TK066	Edge Computing	Edge Computing	4	2T/2P
28	TK067	Teknologi Sensor	Sensor Technology	2	T

				Subtotal	34	20T/14P
29	TK046	Pendidikan Kewarganegaraan	Civic Educations		2	T
30	TK031	Jaringan Komputer 3	Computer Network 3 (CCNA3)		4	2T/2P
31	TK020	Pengolahan Basisdata	Database Processing		4	2T/2P
32	TK006	Ekonomi Kreatif	Creative Economy		2	T
33		Bisnis Digital	Digital Business		2	T
34	TK019	Dasar-dasar Cybersecurity	Cybersecurity Fundamentals (CyberOps)		4	2T/2P
35	TK027	Kejahatan Cyber & Hukum Pidana	Cybercrime & Criminal Justice		2	T
36		Sistem Pertahanan Jaringan 2	Network Defence System 2 (CND)		4	2T/2P
37	TK070	UI/UX Design	UI/UX Design		2	P
38	TK075	Teknologi Deteksi Lokasi	Location Detection Technologies		4	2T/2P
39		Pemrograman Seluler	Mobile Programming		4	2T/2P
				Subtotal	34	18T/14P
40	TK037	Metodologi Penelitian	Research Methodology		2	T
41	TK038	Bahasa Indonesia & Penulisan Ilmiah	Indonesian Language & Scientific Writing		2	T
42	TK064	Pemrograman Python Lanjut	Advanced Python Programming		4	2T/2P
43		Komputasi Awan	Cloud Computing		4	2T/2P
44	TK033	Penilaian Kerentaan Sistem	System Vulnerability Assessment		2	T
45	TK049	Analisis Malware	Malware Analysis		4	2T/2P
46	TK040	Ethical Hacking	Ethical Hacking (CEH)		4	2T/2P
47		Cybersecurity Standard & Audit	Cybersecurity Standard & Audit (ISO27001)		2	T
48	TK076	IoT untuk Rumah Cerdas dan Gedung	IoT for Smart Home & Building		4	2T/2P
49	TK080	Machine Learning	Machine Learning		4	3T/1P
50	TK081	IoT untuk Kota Cerdas	IoT for Smart City		4	3T/1P
				Subtotal	36	24T/12P
51	TK039	Web Sistem & Keamanan	Web System & Security		4	2T/2P
52	TK047	Forensik Digital & Investigasi	Digital Forensic & Investigation (CHFI)		4	2T/2P
53	TK048	Mobile Security & Media Forensic	Mobile Security & Media Forensic		4	2T/2P
54	TK071	Kecerdasan Buatan	Artificial Intelligence		4	2T/2P
55	TK082	Pengembangan Perangkat Keras	Hardware Development (Drone & 3D Printer)		4	2T/2P
56		Sistem Tertanam	Embeded System		4	2T/2P
57	TK041	Jaringan Komputer 4	Computer Network 4 (MTCNA & MTCRE)		4	2T/2P
58	TK043	Bahasa Inggris 3	English 3		2	T
59	TK050	Keamanan IoT	Security of IoT		2	P
60	TK044	Manajemen Stratejik	Strategic Management (Project Management)		2	T
61	TK051	Statistik	Statistics		2	T
				Subtotal	36	20T/16P
62	TK084	Magang-8*	Internsip-8* (Practical Work)		8	T

63	TK056	Magang-16	Internsip-16 (Practical Work)	16	T
64	TK068	Kriptografi Lanjut	Advanced Cryptography	4	T
65	TK072	Pemrograman Web Lanjut	Advanced Web Programming (php-back end)	4	2T/2P
66	TK078	Pengembangan Aplikasi Seluler Lanjut	Advanced Mobile Application Development	4	2T/2P
67		Big Data	Big Data	4	T
			Subtotal	**40**	**36T/4P**
68	TK053	Skripsi <--	Thesis <--	6	T
			Subtotal	**6**	**6T**
			TOTAL	**230**	**158T/72P**

Keterangan :

		Teori	**Praktik**
	Mata Kuliah Wajib = 90 SKS	68.70%	31.30%
	Mata Kuliah Pilihan = 52 SKS, minimal diambil = 10 SKS		
	Mata Kuliah Konsentrasi Cybersecurity = 44 SKS		
	Mata Kuliah Konsentrasi IoT = 44 SKS		
T	Perkuliahan di Ruang Kelas Teori atau Lapangan		
P	Praktikum di Laboratorium Komputer atau Lapangan		

Jumlah SKS Syarat Kelulusan = 144 SKS
MK Wajib 90 SKS + MK Konsentrasi 44 SKS + MK Pilihan 10 SKS = 144 SKS
Jumlah total MK Teori ditawarkan = 152 SKS
Jumlah total MK Praktik ditawarkan = 70 SKS
Jumlah SKS MK Magang = 8 atau 16 SKS