

**Struktur Kurikulum Program Sarjana Program Studi Teknik Komputer TA 2017-2018**  
**Konsentrasi : Cybersecurity**

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	TK003	Bahasa Inggris 1	English 1	2	T	1
4	TK004	Matematika Teknik	Engineering Mathematics	4	T	1
5	TK005	Fotografi	Photography	2	T	1
6	TK006	Ekonomi Kreatif	Creative Economy	2	T	1
7	TK007	Instalasi Hardware	Hardware Installation (ITE or CompTIA A+)	2	P	1
8	TK008	Sistem Operasi	Operating System (Linux)	4	2T/2P	1
9	TK009	Keamanan Dasar	Fundamental Security (CSCU)	2	T	1
10	TK010	Keamanan Data & Kriptografi	Data Security & Cryptography	2	T	1
<b>Subtotal</b>				<b>24</b>	<b>20T/4P</b>	
11	TK011	Pendidikan Agama / Etika Muslim	Religious Education - Moslem Ethics		T	2
12	TK012	Pendidikan Agama / Etika Non-Muslim	Religious Education - Non-Moslem Ethics	2	T	2
13	TK013	Pendidikan Pancasila	Education of Indonesia Ideology	2	T	2
14	TK014	Bahasa Inggris 2	English 2	2	T	2
15	TK015	Algoritma Komputer & Struktur Data	Computing Algorithms & Data Structure	4	2T/2P	2
16	TK016	Jaringan Komputer 1	Computer Networks 1 (CCNA1)	4	2T/2P	2
17	TK017	Pemrograman Python	Python Programming	4	2T/2P	2
18	TK018	Keamanan Manusia & Organisasi**	Human & Organizational Security**	2	T	2
19	TK019	Dasar-dasar Cybersecurity**	Cybersecurity Fundamentals**	4	T	2
<b>Subtotal</b>				<b>24</b>	<b>18T/6P</b>	
20	TK020	Pengolahan Basisdata	Database Processing	4	2T/2P	3
21	TK021	Pemrograman Web	Web Programming	4	2T/2P	3
22	TK022	Jaringan Komputer 2	Computer Networks 2 (CCNA2)	4	2T/2P	3
23	TK023	Multimedia	Multimedia	2	P	3

24	TK024	Dasar Pemrograman Java & Keamanan Pemrograman*	Java Fundamentals & Security Programming* (Oracle + ECSP)	4	2T/2P	3
25	TK025	Virtualisasi & Komputasi Awan*	Virtualization & Cloud Computing* (Vmware & Openstack or Azure)	4	2T/2P	3
26	TK026	Sistem Admin & Layanan Jaringan**	System Admin & Network Service**	4	2T/2P	3
27	TK027	Kejahatan Cyber & Hukum Pidana**	Cybercrime & Criminal Justice**	2	T	3
			<b>Subtotal</b>	<b>28</b>	<b>14T/14P</b>	
28	TK028	Success Skill	Success Skill	2	T	4
29	TK029	Pemrograman C++	C++ Programming	4	2T/2P	4
30	TK030	E-Commerce & Security*	E-Commerce & Security	2	T	4
31	TK031	Jaringan Komputer 3*	Computer Network 3 (CCNA3)	4	2T/2P	4
32	TK032	Kriptografi Lanjut	Advanced Cryptography (authentication & fraud detection)	4	T	4
33	TK033	Penilaian Kerentanan Sistem**	System Vulnerability Assessment**	2	T	4
34	TK034	Sistem Pertahanan Jaringan**	Network Defence System** (CND)	4	2T/2P	4
35	TK035	Cybersecurity Standard & Audit**	Cybersecurity Standard & Audit* (ISO27001)	2	T	4
36	TK036	IoT Platform*	IoT Platform*	2	T	4
			<b>Subtotal</b>	<b>26</b>	<b>18T/8P</b>	
37	TK037	Metodologi Penelitian	Academic Writing	2	T	5
38	TK038	Bahasa Indonesia & Penulisan Ilmiah	Indonesian Language	2	T	5
39	TK039	Web Sistem & Keamanan**	Web System & Security**	4	2T/2P	5
40	TK040	Ethical Hacking**	Ethical Hacking** (CEH)	4	2T/2P	5
41	TK041	Jaringan Komputer 4*	Computer Network 4* (CCNA4 & MTCNA)	4	2T/2P	5
42	TK042	Sensor Cerdas*	Smart Sensor*	4	2T/2P	5
43	TK043	Bahasa Inggris 3*	English 3*	2	T	5
44	TK044	Manajemen Stratejik*	Strategic Management* (Project Management)	2	T	5
			<b>Subtotal</b>	<b>24</b>	<b>16T/8P</b>	
45	TK045	Kepemimpinan	Leadership	2	T	6
46	TK046	Pendidikan Kewarganegaraan	Civic Educations	2	T	6
47	TK047	Forensik Digital & Investigasi**	Digital Forensic & Investigation** (CHFI)	4	2T/2P	6

48	TK048	Mobile Security & Media Forensic**	Mobile Security & Media Forensic**	4	2T/2P	6
49	TK049	Analisis Malware*	Malware Analysis*	2	T	6
50	TK050	Keamanan IoT*	Security of IoT*	2	P	6
51	TK051	Statistik*	Statistics*	2	T	6
52	TK052	Kewirausahaan*	Entrepreneurship*	2	T	6
				<b>Subtotal</b>	<b>20</b>	<b>16T/4P</b>
53	TK053	Skripsi	Thesis	6	T	7
54	TK054	Analisis Keamanan* <--	Security Analyst* (ECISA) <--	2	P	7
55	TK055	IoT untuk Kota Cerdas* <--	IoT for Smart City* <--	2	P	7
56	TK056	Magang-16* (Praktek Kerja)	Internsip-16* (Practical Work)	16	T	7
		Magang-8* -->	Internsip-8* (Practical Work) -->	8	T	7
		Magang-4*	Internsip-4* (Practical Work)	4	T	7
				<b>Subtotal</b>	<b>38</b>	<b>34T/4P</b>
	TK053	Skripsi	Thesis	6	T	8
57	TK057	Penanganan & Respons Insiden* <--	Incident Handling & Response* (ECIH) <--	2	T	8
58	TK058	Teknologi Deteksi Lokasi* <--	Location Detection Technologies* <--	2	T	8
				<b>Subtotal</b>	<b>4</b>	<b>4T</b>
				<b>TOTAL</b>	<b>188</b>	<b>140T/48P</b>

Keterangan :

	Mata Kuliah Wajib = 86 SKS
*	Mata Kuliah Pilihan = 60 SKS (termasuk 16 SKS Magang), minimal diambil = 24 SKS
*	Mata Kuliah Pilihan Cybersecurity = 12 SKS; MK Pilihan IoT = 12 SKS; MK Pilihan Umum = 36 SKS (termasuk 16 SKS Magang)
**	Mata Kuliah Konsentrasi Cybersecurity = 34 SKS
T	Perkuliah di Ruang Kelas Teori atau Lapangan
P	Praktikum di Laboratorium Komputer atau Lapangan

**Jumlah SKS Syarat Kelulusan = 144 SKS**

**MK Wajib 86 SKS + MK Pilihan 24 SKS + MK Konsentrasi 34 SKS = 144 SKS**

Jumlah total MK Teori ditawarkan = 140 SKS 74.47%

Jumlah total MK Praktik ditawarkan = 48 SKS 25.53%

Jumlah SKS MK Magang (maksimum) = 16 SKS 8.51%