



PROGRAM STUDI D-IV/SARJANA TERAPAN TEKNOLOGI REKAYASA JARINGAN TELEKOMUNIKASI

POLITEKNIK NEGERI MEDAN

Semester 1

No	Kode MK	Mata Kuliah	SKS		Jam	
			Teori	Praktik	Teori	Praktik
1	JTMPK21101	Agama <i>Religion</i>	2		100	
2	JTMPK21102	Pancasila <i>Indonesian State Ideology</i>	2		100	
3	JTMKK21103	Matematika Teknik I <i>Engineering Mathematics I</i>	2		100	
4	JTMKK21104	Rangkaian Listrik Arus Searah <i>Direct Current Electric Circuit</i>	2		100	
5	JTMKK21105	Alat Ukur dan Pengukuran <i>Instrumentation and Measurement</i>	2		100	
6	JTMKK21106	Perangkat Telekomunikasi <i>Telecommunication Devices</i>	2		100	
7	JTMKB21107	Pemrograman Komputer I <i>Computer Programming I</i>		2		200
8	JTMKB21108	Praktikum Rangkaian Listrik Arus Searah <i>Direct Current Electrical Circuit Laboratory Practice</i>		2		200
9	JTMKB21109	Praktikum Alat Ukur dan Pengukuran		2		200
10	JTMKB21110	Praktik Elektronika Mekanik <i>Mechanical Electronics Workshop Practice</i>		2		200
			12	8	600	800
			20		1400	

Semester 2

No	Kode MK	Mata Kuliah
1	JTMKK21201	Matematika Teknik II <i>Engineering Mathematics II</i>
2	JTMKK21202	Rangkaian Listrik Arus Bolak Balik <i>Alternating Current Electric Circuit</i>
3	JTMKK21203	Rangkaian Elektronika <i>Electronic Circuit</i>
4	JTMKK21204	Teknik Digital <i>Digital Techniques</i>
5	JTMKK21205	Medan Elektromagnetik <i>Electromagnetic Field</i>
6	JTMKK21206	Sistem Tenaga Listrik <i>Electric Power System</i>
7	JTMKB21207	Pemrograman Komputer II <i>Computer Programming II</i>
8	JTMKB21208	Praktikum Rangkaian Listrik Arus Bolak Balik <i>Alternating Current Electric Circuit Laboratory Practice</i>
9	JTMKB21209	Praktikum Rangkaian Elektronika <i>Electronic Circuit Laboratory Practice</i>
10	JTMKB21210	Praktikum Teknik Digital <i>Digital Engineering Laboratory Practice</i>

Semester 3

No	Kode MK	Mata Kuliah	SKS		Jam	
			Teori	Praktik	Teori	Praktik
1	JTMKB21301	Sistem Telekomunikasi <i>Telecommunication System</i>	2		100	
2	JTMKB21302	Elektronika Telekomunikasi <i>Telecommunication Electronic</i>	2		100	
3	JTMKB21303	Pengolahan Sinyal Digital <i>Digital Signal Processing</i>	2		100	
4	JTMKB21304	Komunikasi Data <i>Data Communication</i>	2		100	
5	JTMKB21305	Jaringan Komputer <i>Computer Network</i>	2		100	
6	JTMKB21306	Saluran Transmisi <i>Transmission Line</i>	2		100	
7	JTMPB21307	Praktikum Sistem Telekomunikasi <i>Telecommunication System Laboratory Practice</i>		2		200
8	JTMPB21308	Praktikum Pengolahan Sinyal Digital <i>Digital Signal Processing Laboratory Practice</i>		2		200
9	JTMPB21309	Praktikum Jaringan Komputer <i>Computer Network Laboratory Practice</i>		2		200
10	JTMPB21310	Praktikum Saluran Transmisi <i>Transmission Line Laboratory Practice</i>		2		200
			12	8	600	800
			20		1400	

Semester 4

No	Kode MK	Mata Kuliah
1	JTMKB21401	Sistem Transmisi Radio <i>Radio Transmission System</i>
2	JTMKB21402	Sistem Komunikasi Digital <i>Digital Communication System</i>
3	JTMKB21403	Mikroprosesor dan antarmuka <i>Microprocessor and Interfacing</i>
4	JTMKB21404	Sistem Komunikasi Serat Optik <i>Optical Fiber Communication System</i>
5	JTMKB21405	Jaringan Telekomunikasi <i>Telecommunication Network</i>
6	JTMKB21406	Antena dan Propagasi <i>Antenna and Propagation</i>
7	JTMPB21407	Praktikum Sistem Transmisi Radio <i>Radio Transmission System Laboratory Practice</i>
8	JTMPB21408	Praktikum Sistem Komunikasi Digital <i>Digital Communication System Laboratory Practice</i>
9	JTMPB21409	Praktikum Sistem Komunikasi Serat Optik <i>Optical Fiber Communication System Laboratory Practice</i>
10	JTMPB21410	Praktik Pengawatan dan Teknologi PCB <i>Wiring and PCB Technology Laboratory Practice</i>

Semester 5

No	Kode MK	Mata Kuliah	SKS		Jam	
			Teori	Praktik	Teori	Praktik
1	JTMPK21501	Kewarganegaraan <i>Civils</i>	2		100	
2	JTMKB21502	Internet of Things (IoT) <i>Internet of Things (IoT)</i>	2		100	
3	JTMKB21503	Keamanan Jaringan <i>Network Security</i>	2		100	
4	JTMKB21504	Rekayasa Trafik <i>Traffic Engineering</i>	2		100	
5	JTMKB21505	Sistem Komunikasi Selular <i>Cellular Communication System</i>	2		100	
6	JTMKB21506	Teknik Gelombang Mikro <i>Microwave Technique</i>	2		100	
7	JTMPB21507	Praktikum Jaringan Telekomunikasi <i>Telecommunication Network Laboratory Practice</i>		2		200
8	JTMPB21508	Praktikum Antena dan Propagasi <i>Antenna and Propagation Laboratory Practice</i>		2		200
9	JTMPB21509	Praktikum Internet of Things (IoT) <i>Internet of Things (IoT) Laboratory Practice</i>		2		200
10	JTMPB21510	Praktikum Sistem Komunikasi Selular <i>Cellular Communication System Laboratory Practice</i>		2		200
			12	8	600	800
			20		1400	

Semester 6

No	Kode MK	Mata Kuliah
1	JTMBB21601	Etika Budaya Sumatera Utara <i>Ethics and North Sumatera Culture</i>
2	JTMPK21602	Bahasa Indonesia <i>Bahasa Indonesia</i>
3	JTMKK21603	Bahasa Inggris Teknik I <i>Engineering English I</i>
4	JTMKB21604	Rancangan dan Realisasi Sistem Telekomunikasi
5	JTMKB21605	Teknologi Nirkabel Pita Lebar <i>Wireless Broadband Technologies</i>
6	JTMKB21606	Sistem Komunikasi Satelit <i>Satellite Communication System</i>
7	JTMPB21607	Rekayasa Jaringan Selular <i>Cellular Network Engineering</i>
8	JTMPB21608	Rekayasa Jaringan Telekomunikasi <i>Telecommunication Network Engineering</i>
9	JTMPB21609	Praktikum Keamanan Jaringan
10	JTMPB21610	Praktikum Perawatan dan Perbaikan Peranekat Telekomunikasi

Semester 7

No	Kode MK	Mata Kuliah	SKS		Jam	
			Teori	Praktik	Teori	Praktik
1	JTMBB21701	Etika Profesi <i>Professional Ethics</i>	2		100	
2	JTMKK21702	Bahasa Inggris Teknik II <i>Engineering English II</i>	2		100	
3	JTMKK21703	Penulisan Karya Ilmiah <i>Scientific Writing</i>	2		100	
4	JTMKB21704	Manajemen Proyek <i>Project Management</i>	2		100	
5	JTMKB21705	Regulasi Telekomunikasi	2		100	

Semester 8

No	Kode MK	Mata Kuliah
1	JTMBB21801	Magang <i>Internship</i>
2	JTMPB21802	Skrripsi <i>Final Project</i>

6	JTMPB21706	Keselamatan dan Kesehatan Kerja dan Lingkungan <i>Work Safety, Health, and Environment</i>	2		100	
7	JTMPB21707	Kewirausahaan bidang Teknologi <i>Technopreneurship</i>	2		100	
			14	0	700	0
			14		700	

Jumlah Mata Kuliah : 62
 Jumlah SKS Total : 146
 Jumlah SKS Teori : 85 58,2%
 Jumlah SKS Praktik : 61 41,8%
 Jumlah Menit Total : 11190
 Jumlah Menit Teori : 4250 38,0%
 Jumlah Menit Praktik : 6940 62,0%

Keterangan Kode Mata Kuliah :
 MPK = Mata Kuliah Pengembangan Kepribadian
 MKK = Mata Kuliah Keilmuan Keterampilan
 MKB = Mata Kuliah Keahlian Berkarya
 MPB = Mata Kuliah Sikap dan Perilaku Berkarya
 MBB = Mata Kuliah Berkehidupan Bermasyarakat

0	12	0	2040
12		2040	