

SEMESTER 1					
No	Kode	Nama Mata Kuliah		SKS	
				Teori	Praktik
1	KEMPK21101	Agama	Religion	2	
2	KEMPK21102	Pancasila	State Ideology	2	
3	KEMPK21103	Bahasa Indonesia	Bahasa Indonesia	2	
4	KEMKK21104	Kimia Teknik	Engineering Chemical	2	
5	KEMKK21105	Matematika Teknik 1	Engineering Mathematics 1	2	
6	KEMKK21106	Fisika Teknik	Engineering Physics	2	
7	KEMKB21107	Material Teknik	Engineering Materials	2	
8	KEMKB21108	Mekanika Teknik	Mechanics of Materials	2	
9	KEMKB21109	Praktik Menggambar Teknik Listrik	Electrical Drawing Practice		2
10	KEMKB21110	Praktik Menggambar Teknik dan Perpipaan	Engineering and Piping Drawing Practice		2
11	KEMKB21111	Praktikum Sistem Pemipaan dan Katup	Piping and Valve Systems Laboratory		2
	JUMLAH			16	6

SEMESTER 2					
No	Kode	Nama Mata Kuliah		SKS	
				Teori	Praktik
1	KEMBB21001	Etika dan Budaya Sumatera Utara	Ethics and North Sumatra Cultures	2	
2	KEMPK21202	Kewarganegaraan	Civics	2	
3	KEMPB21203	Kewirausahaan	Entrepreneurship	2	
4	KEMKK21204	Matematika Teknik 2	Engineering Mathematics 2	2	
5	KEMKB21205	Manajemen Limbah	Waste Management	2	
6	KEMKK21206	Elemen Mesin	Machine Element	2	
7	KEMKB21207	Instrumentasi	Instrumentation	2	
8	KEMKB21208	Rangkaian Listrik Arus Searah	Principles and Working of Direct Current Machines	2	
9	KEMKB21209	Rangkaian Elektronika	Electronic Circuit	2	
10	KEMKB21210	Praktikum Instalasi Listrik	Electrical Installation Laboratory Practice		2
11	KEMKB21211	Praktikum Pengukuran Listrik	Electrical Measurement Laboratory Practice		2
	JUMLAH			18	4

SEMESTER 3					
No	Kode	Nama Mata Kuliah		SKS	
				Teori	Praktik
1	KEMKB21301	Keselamatan, Kesehatan Kerja dan Lingkungan	Work Safety, Health, and Enviroment	2	
2	KEMKB21302	Mekanika Fluida	Fluid Mechanics	2	
3	KEMKB21303	Termodinamika	Thermodynamics	2	
4	KEMKB21304	Perpindahan Panas	Heat Transfer	2	
5	KEMKB21305	Sumber Energi Terbarukan	Renewable Energy and Non Renewable Energy	2	
6	KEMPB21306	Elektronika Daya	Power Electronics	2	
7	KEMKB21307	Rangkaian Listrik Arus Bolak Balik	Principles and Working of Alternating Current machines	2	
8	KEMKB21308	Sistem Pengaturan Mekanik Dan Listrik	Mechanical and Electrical Control System	2	
9	KEMKB21309	Mesin Arus Searah dan Transformator	Electric Machinery and Transformers	2	
10	KEMKK21310	Praktikum Aplikasi Desain Berbasis Komputer	Computer Aided Design Application Practice		2
11	KEMKB21311	Praktikum Mesin Arus Searah dan Transformator	Direct Current Machinery and Transformer Laboratory Practice		2
	JUMLAH			18	4

SEMESTER 4					
No	Kode	Nama Mata Kuliah		SKS	
				Teori	Praktik
1	KEMPK21401	Bahasa Inggris Teknik 1	Engineering English 1	2	
2	KEMKB21402	Energi Baru Terbarukan	Sustainable Renewable Energy	2	
3	KEMKB21403	Mesin Fluida	Fluid Machinery	2	
4	KEMKB21404	Mesin Kalor	Heat Engine	2	
5	KEMKB21405	Sistem Pembangkit Tenaga	Power Generation	2	
6	KEMKB21406	Mesin Sinkron dan Asinkron	Synchronous and Asynchronous Motor	2	
7	KEMKB21407	Praktikum Instrumentasi dan Pengaturan	Instrumentation and Control Laboratory Practice		2
8	KEMKB21408	Praktikum Pengukuran Fluida dan Kalor	Thermal Engineering Systems Laboratory Practice		2
9	KEMKB21409	Praktikum Konversi Energi 1	Energy Conversion Laboratory Practice 1		2
10	KEMKB21410	Praktikum Mesin Sinkron dan Asinkron	Synchronous and Asynchronous Motor Laboratory Practice		2
		JUMLAH		12	8

SEMESTER 5					
No	Kode	Nama Mata Kuliah		SKS	
				Teori	Praktik
1	KEMPK21501	Bahasa Inggris Teknik 2	Engineering English 2	2	
2	KEMKB21502	Teknik Boiler	Boiler	2	
3	KEMKB21503	Manajemen dan Audit Energi	Energy Management and Audit	2	
4	KEMKB21504	Distribusi Energi dan Sistem Proteksi	Energy Distribution and Protection System	2	
5	KEMKB21505	Teknik Tegangan Tinggi	High Voltage Transmission	2	
6	KEMKB21506	Praktikum Distribusi Energi dan Sistem Proteksi	Energy Distribution and Protection System Laboratory Practice		2
7	KEMKB21507	Praktikum Teknik Tegangan Tinggi	High Voltage Transmission Laboratory Practice		2
8	KEMKB21508	Praktikum Konversi Energi 2	Energy Conversion Laboratory Practice 2		2
9	KEMKB21509	Praktikum Elektronika Daya dan Sistem Penggerak	Power Electronics and Machines Drives Laboratory Practice		2
10	KEMKK21510	Aplikasi Program Komputer	Supervisory Control and Data Acquisition Laboratory		2
		JUMLAH		10	10

SEMESTER 6					
No	Kode	Nama Mata Kuliah		SKS	
				Teori	Praktik
1	KEMBB21601	Magang	Internship		4
2	KEMPB21602	Tugas Akhir	Final Project		6
		JUMLAH		0	10