

Mata Kuliah : Mesin Konversi Energi
 Kode/Bobot/Semester : MP 2.13.2.3/3 SKS (1-2)/II
 Capaian Pembelajaran : Mampu melakukan perawatan, penjadwalan, perakitan dan analisis mesin konversi energi, serta mengetahui potensi energi baru terbarukan di Indonesia

No	Kompetensi	Sub Kompetensi / Pokok Bahasan	Tatap Muka ke
1	Mengenal mesin konversi energi	1.1 Pengertian energi	1
		1.2 Jenis-jenis energi	
		1.3 Pengenalan jenis-jenis mesin konversi energi	
2	Mengidentifikasi sumber energi fosil	2.1 Pengertian energi fosil	2
		2.2 Jenis energi fosil	
		2.3 Aplikasi mesin konversi energi fosil	
3	Mesin konversi energi konvensional/ fosil	3.1 Motor diesel	3
		3.2 Motor bensin	4
		3.3 Gas turbin	
		3.4 Steam turbin	
		3.5 Kompresor	
		3.6 Pompa	6
		3.7 Motor listrik	
		3.8 Generator listrik	
		3.9 Refrigerator	
Ujian Tengah Semester			8
4	Mengidentifikasi sumber energi terbarukan	4.1 Pengertian energi terbarukan	9
		4.2 Jenis energi terbarukan	
		4.3 Aplikasi mesin konversi energi terbarukan	
5	Mesin konversi energi terbarukan/ renewable energy	5.1 Pembangkit listrik tenaga surya	10
		5.2 Solar dryer	11
		5.3 Fuel cell	
		5.4 Pembangkit listrik tenaga air	
		5.5 Mikrohidro	
		5.6 Run of the river	13
		5.7 Pembangkit listrik tenaga angin	
		5.8 Pembangkit listrik tenaga panas bumi	
		5.9 Biomassa padat	
		5.10 Biomassa cair	
		5.11 Biogas	
Ujian Akhir Semester			16

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