

SILABUS MAGISTER TEKNIK GEOFISIKA ITS

Semester	No.	Kode MK	Mata Kuliah	Course	36 SKS	
					Teori	Praktik
I	1	CF245101	Matematika Rekayasa	Engineering Mathematics	2	
	2	CF245102	Geologi Regional	Regional Geology	2	
	3	CF245103	Design Thinking	Design Thinking	2	
	4	CF245104	Pembelajaran Mesin untuk Kebumihan	Machine Learning For Geoscience	2	
	5	CF2451XX	MK Pilihan-1	Elective Course-1	2	
	6	CF2451XX	MK Pilihan-2	Elective Course-2	2	
					12	0
			Total Semester I		12	
II	1	CF245213	Pemodelan Geofisika	Geophysical Modelling	2	
	2	CF245214	Diseminasi Ilmiah	Scientific Dissemination	2	
	3	CF245215	Asesmen Risiko Bencana	Hazard Risk Assessment	2	
	4	CF2452XX	MK Pilihan-3	Elective Course-3	2	
	5	CF2452XX	MK Pilihan-4	Elective Course-4	2	
	6	CF2452XX	MK Pilihan-5	Elective Course-5	2	
					12	0
			Total Semester II		12	
III	1	CF2453XX	Proyek Lapangan Bidang Keahlian	Specialized Field Project		4
		CF245323	Proyek Lapangan Minyak Dan Gas Bumi	Petroleum Specialized Field Project	0	4
		CF245324	Proyek Lapangan Geotermal	Geothermal Specialized Field Project	0	4
		CF245325	Proyek Lapangan Kebencanaan Geologi	Geological Hazard Specialized Field Project	0	4
	2	CF2453XX	MK Pilihan-6	Elective Course-6	2	
					2	4
			Total Semester III		6	
IV	1	CF245431	Tesis	Thesis	0	6
			Total Semester IV		6	
			Total SKS		36	

MATA KULIAH PILIHAN						
Semester		Kode MK	Mata Kuliah	Course	SKS	
					Teori	Praktik
I		CF245105	Interpretasi Kuantitatif	Quantitative Interpretation	2	
		CF245106	Geologi Minyak dan Gas Bumi	Petroleum Geology	2	
		CF245107	Petrofisika	Petrophysics	2	
		CF245108	Metode Magnetotelurik	Magnetotellurics Method	2	
		CF245109	Sistem Magmatik dan Gunung Api	Volcanic And Magmatic System	2	
		CF245110	Dinamika Gempa Bumi	Earthquake Dynamics	2	
		CF245111	Geofisika Dekat Permukaan	Near Surface Geophysics	2	
		CF245112	Teknologi Geospasial Untuk Geofisika	Geospatial Technology For Geophysics	2	
II		CF245216	Eksplorasi Seismik Refleksi	Reflection Seismic Exploration	2	
		CF245217	Metode Seismik Pasif	Passive Seismic Method	2	
		CF245218	Sistem Geotermal	Geothermal System	2	
		CF245219	Evaluasi Prospek Geotermal	Geothermal Prospect Evaluation	2	
		CF245220	Hidrodinamika Tsunami	Tsunami Hydrodynamics	2	
		CF245221	Eksplorasi Medan Potensial	Potential Field Exploration	2	
		CF245222	Analisis Bahaya Air Tanah	Groundwater Hazard Analysis	2	
III		CF245326	Geofisika Reservoir	Reservoir Geophysics	2	
		CF245327	Monitoring Geotermal	Geothermal Monitoring	2	
		CF245328	Sistem Peringatan Dini	Early Warning System	2	
		CF245329	Dinamika Gunung Api	Dynamics of Volcanoes	2	
		CF245330	Analisis Bahaya Seismik	Seismic Hazard Analysis	2	

