

Silabus Mata Kuliah Program Studi Magister Teknik Geofisika ITS

MATA KULIAH WAJIB						
Semester	No.	Kode MK	Mata Kuliah	Course	36 SKS	
					Teori	Praktik
I	1	CF245101	Matematika Rekayasa	Engineering Mathematics	2	
	2	CF245103	Geologi Regional	Regional Geology	2	
	3	CF245104	Design Thinking	Design Thinking	2	
	4	CF245105	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	CF245214	Pemodelan Geofisika	Geophysical Modelling	2	
	2	CF245215	Diseminasi Ilmiah	Scientific Dissemination	2	
	3	CF245216	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	CF245322	MK Pilihan-1 (Proyek Bidang Keahlian)	Specialized Project		4
	2	CF2453XX	MK Pilihan-6	Elective Course-6	2	
					2	4
			Total Semester III		6	
IV	1	CF245431	Tesis	Thesis	4	2
			Total Semester IV		6	
Total SKS					36	

MATA KULIAH PILIHAN						
Semester		Kode MK	Mata Kuliah	Course	SKS	
					Teori	Praktik
I		CF245106	Interpretasi Kuantitatif	Quantitative Interpretation	2	
		CF245107	Geologi Minyak dan Gas Bumi	Petroleum Geology	2	
		CF245108	Metode Magnetotelurik	Magnetotellurics Method	2	
		CF245109	Sistem Magmatik dan Gunungapi	Volcanic And Magmatic System	2	
		CF245110	Dinamika Gempa Bumi	Earthquake Dynamics	2	
		CF245111	Petrofisika	Petrophysics	2	
		CF245112	Geofisika Dekat Permukaan	Near Surface Geophysics	2	
		CF245113	Teknologi Geospasial Untuk Geofisika	Geospatial Technology For Geophysics	2	
II		CF245215	Eksplorasi Seismik Refleksi	Reflection Seismic Exploration	2	
		CF245216	Sistem Geotermal	Geothermal System	2	
		CF245217	Evaluasi Prospek Geotermal	Geothermal Prospect Evaluation	2	
		CF245218	Metode Seismik Pasif	Passive Seismic Method	2	
		CF245219	Hidrodinamika Tsunami	Tsunami Hydrodynamics	2	
		CF245220	Eksplorasi Medan Potensial	Potential Field Exploration	2	
III		CF245221	Analisis Bahaya Air Tanah	Groundwater Hazard Analysis	2	
		CF245323	Proyek Lapangan Minyak Dan Gas Bumi	Petroleum Specialized Project	0	4
		CF245324	Geofisika Reservoir	Reservoir Geophysics	2	
		CF245325	Proyek Lapangan Geotermal	Geothermal Specialized Project	0	4
		CF245326	Geotermal Monitoring	Geothermal Monitoring	2	
		CF245327	Proyek Lapangan Kebencanaan Geologi	Geological Hazard Specialized Project	0	4
		CF245328	Sistem Peringatan Dini	Early Warning System	2	
		CF245429	Dinamika Gunung Api	Dynamics of Volcanoes	2	
		CF245430	Analisis Bahaya Seismik	Seismic Hazard Analysis	2	