

Kurikulum Transformasi S1 Teknik Mesin 2024--2028

Semester 1

No	Kode MK	Mata Kuliah	SKS	Kriteria	Subject
1	1000002018	Pendidikan Pancasila	2	General Education	Pancasila
2	2120104159	Matematika 1	4	Basic Science	Mathematics 1
3	2120103109	Fisika 1	3	Basic Science	Physics 1
4	2120102162	Kimia Dasar	2	Basic Science	Basic Chemical
5	2120102166	Ilmu Hayat	2	Basic Science	Life Sciences
6	2120102163	Statistika dan Probabilitas	2	Basic Science	Statistics and Probability
7	2120102128	Gambar Teknik	2	Engineering Topic	Engineering Drawing
8	2120103164	Material Teknik	3	Engineering Topic	Materials Engineering
			20		

Semester 2

No	Kode MK	Mata Kuliah	SKS	Kriteria	Subject
1	1000002024	Pendidikan Agama Budha	2	General Education	Buddhist Education
	1000002025	Pendidikan Agama Hindu			Hindu Religious Education
	1000002026	Pendidikan Agama Islam			Islamic Education
	1000002027	Pendidikan Agama Katholik			Catholic Religious Education
	1000002028	Pendidikan Agama Khonghucu			Confucian Religious Education
2	1000002033	Pendidikan Kewarganegaraan	2	General Education	Citizenship Education
3	2120104160	Matematika 2	4	Engineering Topic	Mathematics 2
4	2120103119	Fisika 2	3	Engineering Topic	Physics 2
5	2120101161	Praktek Fisika*	1	Engineering Topic	Physics Practices
6	2120102165	Praktek Material Teknik*	2	Engineering Topic	Materials Engineering Practice
7	2120102153	Mekanika dan Kekuatan Material 1	2	Engineering Topic	Mechanics and Strength of Materials 1
8	2120102129	Gambar Mesin	2	Engineering Topic	Mechanical Engineering Drawing
9	2120102115	Kinematika Dinamika 1	2	Engineering Topic	Dynamic Kinematics 1
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Semester 3

No	Kode MK	Mata Kuliah	SKS	Kriteria	Subject
1	1000002003	Bahasa Indonesia	2	General Education	Indonesian
2	2120104108	Matematika 3	4	Basic Science	Mathematics 3
3	2120102174	Mekanika dan Kekuatan Material 2	2	Engineering Topic	Mechanics and Strength of Materials 2
4	2120104172	Elemen Mesin	4	Engineering Topic	Machine Elements
5	2120102122	Termodinamika 1	2	Engineering Topic	Thermodynamics 1
6	2120102123	Mekanika Fluida 1	2	Engineering Topic	Fluid Mechanics 1
7	2120102134	Perpindahan Kalor dan Massa 1	2	Engineering Topic	Heat and Mass Transfer 1
8	2120102116	Kinematika Dinamika 2	2	Engineering Topic	Dynamic Kinematics 2
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Semester 4

No	Kode MK	Mata Kuliah	SKS	Kriteria	Subject
1	1000002047	Pendidikan Jasmani dan Kebugaran	2	General Education	Physical Education and Fitness
2	2120102102	Kewirausahaan	2	General Education	Entrepreneurship
3	2120104118	Matematika 4	4	Basic Science	Mathematics 4
4	2120102126	Termodinamika 2	2	Engineering Topic	Thermodynamics 2
5	2120101167	Praktek Termodinamika	1	Engineering Topic	Thermodynamics Practices
6	2120102127	Mekanika Fluida 2	2	Engineering Topic	Fluid Mechanics 2
7	2120101168	Praktek Mekanika Fluida	1	Engineering Topic	Fluid Mechanics Practices
8	2120102135	Perpindahan Kalor dan Massa 2	2	Engineering Topic	Heat and Mass Transfer 2
9	2120102171	Praktek Perpindahan Kalor dan Massa	1	Engineering Topic	Heat and Mass Transfer Practices
10	2120102173	Proses Manufaktur	3	Engineering Topic	Manufacturing Process
			20		

Semester 5

No	Kode MK	Mata Kuliah	SKS	Kriteria	Subject
1	1000002046	Literasi Digital	2	General Education	Digital Literacy
2	2120102008	Bahasa Inggris	2	General Education	English
3	2120103175	Metodologi Penelitian	3	General Education	Research Methodology
4	2120102169	Praktek Proses Manufaktur	2	Engineering Topic	Manufacturing Process Practices
5	2120102048	Mekatronika	2	Engineering Topic	Mechatronics
6	2120102176	Pengukuran Teknik	2	Engineering Topic	Metrology
7	2120102091	Teknik Tenaga Listrik	2	Engineering Topic	Electrical Power Engineering
8	2120101177	Praktek Teknik Tenaga Listrik	1	Engineering Topic	Electrical Power Engineering Practices
9	2120102170	Praktek Computer Aided Design	2	Engineering Topic	Computer Aided Design Practices
10	2120102179	Getaran Mekanik	2	Engineering Topic	Mechanical Vibration
11	2120101178	Praktek Getaran Mekanik	1	Engineering Topic	Mechanical Vibration Practices
			21		

Semester 6

No	Kode MK	Mata Kuliah	SKS	Kriteria	Subject
1	2120120180	Merdeka Belajar Kampus Merdeka	20	Engineering Topic	Independent Learning Independent Campus
			20		

Semester 7

No	Kode MK	Mata Kuliah	SKS	Kriteria	Subject
1	2120102137	Sistem Kendali Kontrol	2	Engineering Topic	Control System
2	2120102074	Praktek Fenomena Dasar Mesin	2	Engineering Topic	Basic Engine Phenomenon Practices
3	2120102181	Mesin Konversi Energi	3	Engineering Topic	Energy Conversion Machine
4	2120102182	Praktek Mesin Konversi Energi	1	Engineering Topic	Energy Conversion Machine Practices
5	2120102138	Capstone Design	3	Engineering Topic	Capstone Design
6		Mata Kuliah Pilihan 1	2	Engineering Topic	
7		Mata Kuliah Pilihan 2	2	Engineering Topic	
8		Mata Kuliah Pilihan 3	2	Engineering Topic	
9	1000002104	Seminar Proposal Tugas Akhir	2	Engineering Topic	Final Praject Proposal Seminar
			19		

Semester 8

No	Kode MK	Mata Kuliah	SKS	Kriteria	Subject
1	1000004105	Tugas Akhir	4	Engineering Topic	Final Project
			4		

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Kode Warna

SKS

Matematika & ilmu Dasar	29
Dasar Teknik Mesin	36
Perancangan Teknik & Proyek	50 (+20MBKM)
Umum/Institusional	19
Kekhasan Prodi	10
Total	144

Semester 6 (MBKM)

No	Kode MK	Mata Kuliah	SKS	Kriteria	Subject
1	2120102184	PERENCANAAN PROGRAM MAGANG INDUSTRI	2	Engineering Topic	INDUSTRIAL INTERNSHIP PROGRAM PLANNING
2	2120104189	KESELAMATAN DAN KESEHATAN KERJA	4	Engineering Topic	HEALTH AND WORK SAFETY AND LAW EMPLOYMEN
3	2120104190	MANAJEMEN INDUSTRI	4	Engineering Topic	INDUSTRIAL MANAGEMENT
4	2120104188	MANAJEMEN KUALITAS	4	Engineering Topic	QUALITY MANAGEMENT
5	2120102186	ETIKA PROFESI	2	Engineering Topic	PROFESSIONAL ETHICS
6	2120102191	DISEMINASI MAGANG INDUSTRI	2	Engineering Topic	DISSEMINATION OF INDUSTRIAL INTERNSHIP
7	2120102185	EVALUASI PROGRAM MAGANG INDUSTRI	2	Engineering Topic	EVALUATION OF THE INDUSTRIAL INTERNSHIP PRO

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No	Kode MK	Mata Kuliah Pilihan KONVERSI ENERGI	SKS	Kriteria	Subject
1	2120102095	Teknologi Pembakaran dan Bahan Bakar	2	Engineering Topic	Combustion and Fuel Technology
2	2120102142	Bio Energi	2	Engineering Topic	Bio Energy
3	2120102143	Energi Surya	2	Engineering Topic	Solar Energy
4	2120102144	Energi Angin dan Air	2	Engineering Topic	Wind and Water Energy

No	Kode MK	Mata Kuliah Pilihan MANUFAKTUR	SKS	Kriteria	Subject
1	2120102183	Keandalan Dan Manajemen Pemeliharaan	2	Engineering Topic	Reliability And Maintenance Management
2	2120102145	Material Maju	2	Engineering Topic	Advanced Materials
3	2120102146	Desain Pengelasan	2	Engineering Topic	Welding Design
4	2120102147	Perlakuan Bahan	2	Engineering Topic	Material Treatment