

Kurikulum Transformasi S1 Teknik Mesin 2024--2028
Semester 1

No	Kode MK	Mata Kuliah	SKS	Kriteria	Subject
1	1000002018	Pancasila	2	General	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	1000002003	Bahasa Indonesia	2	General	Indonesian
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 1000002025 1000002026 1000002027 1000002028	Agama Budha Agama Hindu Islam Katholik Khonghucu Agama Agama Agama	2	General	Buddhist Hindu Islamic Catholic Religious Religious Religious Religious Confucian
2	1000002033	Kewarganegaraan	2	General	Citizenship
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
			20		

SEMESTER 3					
No	Kode MK	Mata Kuliah	SKS	Kriteria	Subject
1	2120102163	Statistika dan Probabilitas	2	Basic Science	Statistics and Probability
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
			20		

Semester 4

No	Kode MK	Mata Kuliah	SKS	Kriteria	Subject
1	1000002047	Jasmani dan Kebugaran	2	General	Physical and Fitness
2	2120102102	Kewirausahaan	2	General	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	Digital Literacy
2	2120102008	Bahasa Inggris	2	General	English
3	2120103175	Metodologi Penelitian	3	General	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 Projoct
			4		

Total

144

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 EMPLOYME
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