

Kurikulum Program Studi D4 Teknologi Rekayasa Otomasi (TRO)

Semester	Kode Mata Kuliah	Nama Mata Kuliah/Blok/Modul ¹	Bobot SKS ²		RPS ³	Keterangan (Pelaksanaan Merdeka Belajar) ⁴
			Teori	Praktek		
I	TROMPK101	1. Bahasa Indonesia (<i>Indonesian Language</i>)	2	0	✓	
	TROMKK101	2. Matematika Terapan (<i>Applied Mathematics</i>)	1	1	✓	
	TROMKK102	3. Fisika Terapan (<i>Applied Physics</i>)	1	1	✓	
	TROMKB101	4. Komponen Elektronika (<i>Electronic Components</i>)	1	1	✓	
	TROMKB102	5. Alat Ukur dan Pengukuran (<i>Measuring and Measurement</i>)	1	1	✓	
	TROMKB103	6. Rangkaian Listrik (<i>Electrical circuits 1</i>)	1	1	✓	
	TROMKB104	7. Elektronika Analog (<i>Analog Electronics</i>)	2	0	✓	
	TROMPB101	8. Pemrograman Komputer (<i>Computer Programming</i>)	0	2	✓	
	TROMPB102	9. Praktek Bengkel Elektronika Mekanik (<i>Mechanical Technology Basic Workshop</i>)	0	2	✓	
Total Semester I			9	9	18	
II	TROMPK201	1. Pancasila (<i>Pancasila</i>)	2	0	✓	
	TROMKB201	2. Pengantar Teknologi Informasi (<i>Introduction to Information Technology</i>)	1	1	✓	
	TROMKB202	3. Elektronika Digital (<i>Digital Electronics</i>)	2	0	✓	
	TROMKB203	4. Rangkaian Listrik 2 (<i>Electric Circuit2</i>)	1	1	✓	
	TROMPB201	5. Praktek Menggambar Teknik (<i>Practice Drawing Techniques</i>)	0	2	✓	
	TROMPB202	6. Praktikum Elektronika Analog (<i>Analog Electronics Laboratory</i>)	0	2	✓	

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			Teori	Praktek		
	TROMPB203	7. Praktikum Elektronika Digital (<i>Digital Electronics Laboratory</i>)	0	2	✓	
	TROMPB204	8. Praktek Pengawatan dan Teknik Printed Circuit Boar (<i>Wiring Practice and Printed Circuit Board Engineering Laboratory</i>)	0	2	✓	
	TROMPB205	9. Praktikum Rangkaian Listrik (<i>Electrical Circuit Laboratory</i>)	0	2	✓	
Total Semester II			6	12	18	
III	TROMKB301	1. Komunikasi Data dan Jaringan Komputer (<i>Data Communication and Computer Networks</i>)	2	0	✓	✓
	TROMKB302	2. Sistem Tertanam (<i>Embedded System</i>)	2	0	✓	
	TROMKB303	3. Pengolahan Sinyal (<i>Signal Processing</i>)	2	1	✓	
	TROMKB304	4. Elektronika Industri (<i>Industrial Electronics</i>)	2	0	✓	
	TROMKK301	5. Kimia Industri (<i>Chemical industry</i>)	1	1	✓	✓
	TROMKK302	6. Statistika dan Probabilitas (<i>Statistics and Probability</i>)	1	1	✓	
	TROMPB301	7. Aplikasi Pemograman Komputer (<i>Computer Programming Applications</i>)	0	2	✓	
	TROMPB302	8. Praktikum Elektronika Industri (<i>Industrial Electronics</i>)	0	2	✓	

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			Teori	Praktek		
		<i>Laboratory</i>				
	TROMPB303	9. Praktikum Sistem Tertanam (<i>Embedded System Laboratory</i>)	0	2	✓	
Total Semester III			10	9	19	
IV	TROMKB401	1. Sistem Kendali (<i>Control System</i>)	2	1	✓	
	TROMKB402	2. Pengaturan Motor Listrik (<i>Electric Motor Control</i>)	2	0	✓	
	TROMKB403	3. Teknik Interface (<i>Interface Engineering</i>)	2	0	✓	
	TROMKB404	4. K3 dan Lingkungan (<i>K3 and Environment</i>)	2	1	✓	✓
	TROMKB405	5. Sistem Instrumentasi (<i>Instrumentation System</i>)	1	1	✓	✓
	TROMPB401	6. Praktikum Pengaturan Motor Listrik (<i>Electric Motor Control Laboratory</i>)	0	2	✓	
	TROMPB402	7. Praktikum Teknik Interface (<i>Interface Engineering Laboratory</i>)	0	2	✓	
	TROMPB403	8. Praktikum Jaringan Komputer (<i>Computer network Laboratory</i>)	0	2	✓	✓
	TROMPB404	9. Realisasi Rancangan 1 (<i>Design Realization 1</i>)	0	2	✓	
Total Semester IV			9	11	20	
V	TROMKB501	1. AI (<i>Artificial Intelligent</i>)	2	1	✓	✓
	TROMKK501	2. Bahasa Inggris Keteknikaan (<i>Engineering English</i>)	1	1	✓	
	TROMKB502	3. Mekatronik (<i>Mechatronics</i>)	2	0	✓	✓
	TROMKB503	4. PLC (<i>PLC</i>)	2	1	✓	
	TROMPB501	5. Praktikum Sistem Kendali (<i>Control System</i>)	0	2	✓	

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		<i>Laboratory)</i>				
	TROMPB502	6. Praktikum Mekatronika (<i>Mechatronics Laboratory</i>)	0	2	✓	
	TROMPB503	7. Praktikum PLC (<i>PLC Laboratory</i>)	0	2	✓	
	TROMPB504	8. Praktikum Instrumentasi (<i>Instrumentation Laboratory</i>)	0	2	✓	
	TROMPK501	9. Etika dan Budaya SUMUT (<i>SUMUT Ethics and Culture</i>)	2	0	✓	
Total Semester V			9	11	20	
VI	TROMKB601	1. Pemeliharaan dan Perbaikan (<i>Maintenance and Repair</i>)	2	0	✓	✓
	TROMKB602	2. IoT (<i>Internet of Things</i>)	2	0	✓	
	TROMKB603	3. DCS dan SCADA (<i>DCS and SCADA</i>)	1	1	✓	
	TROMKB604	4. Robot Industri (<i>Industrial Robot</i>)	1	1	✓	✓
	TROMPB601	5. Aplikasi Database (<i>Database Application</i>)	0	2	✓	
	TROMPB602	6. Praktikum Pemeliharaan dan Perbaikan (<i>Maintenance and Repair Laboratory</i>)	0	2	✓	
	TROMPB603	7. Praktikum IoT (<i>Internet of Things Laboratory</i>)	0	2	✓	
	TROMPB604	8. Praktikum DCS dan SCADA (<i>DCS and SCADA Laboratory</i>)	0	2	✓	
	TROMPB605	9. Praktikum Robot Industri (<i>Industrial Robot Laboratory</i>)	0	2	✓	

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			Teori	Prak tek		
Total Semester VI			6	12	18	
VII	TROMBB701	1. Manajemen Industri (<i>Industrial Management</i>)	1	1	✓	
	TROMKK701	2. Penulisan Karya Ilmiah (<i>Scientific Writing</i>)	1	1	✓	
	TROMBB702	3. Technopreneurship (<i>Technopreneurship</i>)	1	1	✓	✓
	TROMBB703	4. Etika Profesi (<i>Professional ethics</i>)	1	1	✓	
	TROMPK701	5. Agama (<i>Religion</i>)	2	0	✓	
	TROMPB70 1	6. Magang / PKL (<i>Internships/ PKL</i>)	0	6	✓	
	TROMKK702	7. Bahasa Mandarin (<i>Mandarin language</i>)	2	0	✓	✓
	TROMPK702	8. Kewarganegaraan (<i>Civics Education</i>)	2	0	✓	
Total Semester VII			10	10	20	
VIII	TROMPB801	1. Skripsi (Skripsi)	0	6	✓	
	TROMPB802	2. Magang / PKL (<i>Internships/ PKL</i>)	0	4	✓	
	TROMPB803	3. Realisasi Rancangan 2 (<i>Design Realization 2</i>)	0	2	✓	
	TROMPB804	4. Seminar (<i>Seminar</i>)	0	1	✓	
Total Semester VIII			0	13	13	
Total sks			59	87	146	

Keterangan:

Persentasi Kurikulum	
Berdasarkan SKS	Berdasarkan Jam
Total keseluruhan SKS yaitu 146 SKS, Terbagi atas : <ul style="list-style-type: none"> ▪ Teori : 40.41 % (59 SKS) ▪ Praktik : 59,59 % (87 SKS) 	Total keseluruhan Jam yaitu 212 Jam, Terbagi atas : <ul style="list-style-type: none"> ▪ Teori : 27.83 % (59 Jam) ▪ Praktik : 72.17% (153 Jam)