

Terjemahan nama-nama Mata Kuliah pada Kurikulum 2015 PS Teknik Elektro FTUH
(berdasarkan Susunan Mata Kuliah Revisi 3.1. Juni 2016)

KODE	Bahasa Indonesia	English
	<i>Semester 1:</i>	
077U002	Pendidikan Kewarganegaraan	<i>Civic Education</i>
080U002	Bahasa Indonesia	Bahasa Indonesia
085U003	Matematika Dasar I	<i>Basic Mathematics 1</i>
086U003	Fisika Dasar I	<i>Basic Physics 1</i>
111D4103	Rangkaian Listrik I	<i>Electrical Circuits 1</i>
112D4102	Rangkaian Logika	<i>Logic Circuits</i>
113D4102	Menggambar Teknik	<i>Engineering Drawing</i>
114D4102	Kimia Teknik	<i>Engineering Chemistry</i>
	<i>Semester 2:</i>	
072U002	Agama (Islam, Katholik, dst)	<i>Religious Studies (Islam, Catholic, etc)</i>
07XU002	PANCASILA	<i>State Ideology: PANCASILA</i>
081U002	Bahasa Inggris	<i>English</i>
090U003	Matematika Dasar II	<i>Basic Mathematics 2</i>
089U003	Fisika Dasar II	<i>Basic Physics 2</i>
121D4103	Rangkaian Listrik II	<i>Electric Circuits 2</i>
122D4102	Sistem Digital	<i>Digital Systems</i>
123D4102	Pemrograman Komputer	<i>Computer Programming</i>
101D4101	Prakt. Rangkaian Listrik	<i>Electric Circuits Laboratory</i>
102D4101	Mi	<i>Digital Systems Laboratory</i>
	<i>Semester 3:</i>	
079U002	Wawasan IPTEKS	<i>Science, Technology and Art Insight</i>
230D4103	Matematika Teknik I	<i>Engineering Mathematics 1</i>
231D4102	Dasar Tenaga Listrik	<i>Basic Electric Power (Systems)</i>
232D4102	Dasar Telekomunikasi	<i>Basic Telecommunication (Systems)</i>
233D4102	Dasar Elektronika	<i>Basic Electronics</i>
234D4102	Material Elektro Teknik	<i>Electrical Engineering Materials</i>
235D4102	Fisika Teknik	<i>Engineering Physics</i>
201D4101	Prakt. Dasar Tenaga Listrik	<i>Basic Electric Power laboratory</i>
	<i>Semester 4:</i>	
078U002	Wawasan Sosial Budaya Bahari	<i>Maritime Social-Cultural Insight</i>
240D4103	Matematika Teknik II	<i>Engineering Mathematics 2</i>
241D4102	Sistem Linier	<i>Linear Systems</i>
242D4102	Mesin-Mesin Listrik	<i>Electric Machines</i>
243D4102	Dasar Multimedia	<i>Basic Multimedia</i>
244D4102	Elektronika Terintegrasi	<i>Integrated Electronics</i>
245D4102	Sistem Mikroprosesor dan Antarmuka	<i>Microprocessor Systems and Interfaces</i>
246D4102	Dasar Sistem Kendali	<i>Basic Control Systems</i>
204D4102	Prakt. Elektronika Terintegrasi	<i>Integrated Electronics Laboratory</i>
205D4102	Prakt. Sistem Mikroprosesor dan Antarmuka	<i>Microprocessor Systems and Interfaces Laboratory</i>
	<i>Semester 5:</i>	
350D4102	Ekonomi Teknik	<i>Engineering Economics</i>
351D4102	Probabilitas dan Statistik	<i>Probability and Statistics</i>
352D4102	Pengukuran Listrik	<i>Electrical Measurement</i>
353D4102	Medan Elektromagnetik	<i>Electromagnetics</i>
	<i>Semester 6:</i>	
360D4102	Metode Numerik	<i>Numerical Methods</i>
361D4102	Konversi Energi	<i>Energy Conversion</i>
362D4102	Teknik Lingkungan	<i>Environmental Engineering</i>
36XD4102	Manajemen dan Kewira-usahaan	<i>Management and Entrepreneurship</i>
	X = 3,4, dan/atau 5 (Pilih minimal salah satu):	Select minimum 1 (one) course:
363D4102	(1) Manajemen Teknik	<i>(1) Engineering Management</i>
364D4102	(2) Pengambilan Keputusan & Pemasaran	<i>(2) Decision Making and Marketing</i>
365D4102	(3) Kewira-usahaan	<i>(3) Entrepreneurship</i>

KODE	Bahasa Indonesia	English
	<i>Semester 7:</i>	
403D4102	Kerja Praktek	<i>Practical (On the Job) Training</i>
470D4102	Metode Penelitian dan Penulisan Ilmiah	<i>Research Methods and Scientific Writing</i>
401D4102	Seminar Usulan Penelitian	<i>Seminar (Research Proposal)</i>
404D4108	Kegiatan Penelitian di Laboratorium I	<i>Laboratory Research Works 1</i>
	<i>Semester 8:</i>	
406D4104	Kuliah Kerja Nyata	<i>Student Community Service Programs</i>
402D4102	Seminar Hasil Penelitian	<i>Seminar (Research Results)</i>
405D4108	Kegiatan Penelitian di Laboratorium II	<i>Laboratory Research Works 2</i>
400D4104	SKRIPSI	<i>Final Research Report</i>
	Ujian Penutup Strata/Sidang Sarjana	<i>Final Examination</i>
	PAKET MATA KULIAH PILIHAN	<i>ELECTIVE COURSES:</i>
	<i>Semester 5:</i>	<i>Odd Semesters</i>
	Paket TEKNIK ENERGI LISTRIK 1	<i>ELECTRIC POWER ENGINEERING 1 Electives:</i>
303D4102	Transmisi Arus Bolak-Balik	<i>Alternating Current Transmission Systems</i>
304D4102	Analisis Sistem Tenaga Listrik	<i>Electric Power System Analysis</i>
305D4102	Pembangkit Tenaga Listrik	<i>Electric Power Generation Systems</i>
306D4102	Analisis Mesin Listrik 1 + Praktikum	<i>Electric Machines Analysis 1 + Laboratory</i>
307D4102	Sistem Proteksi 1	<i>Electric Power Protection System 1</i>
	Paket SISTEM TENAGA LISTRIK 1	<i>ELECTRIC POWER SYSTEM 1 Electives:</i>
303D4102	Transmisi Arus Bolak-Balik	<i>Alternating Current Transmission Systems</i>
304D4102	Analisis Sistem Tenaga Listrik	<i>Electric Power System Analysis</i>
411D4102	Teknik Kendali Sistem Tenaga Listrik	<i>Electric Power Systems Control Engineering</i>
305D4102	Pembangkit Tenaga Listrik	<i>Electric Power Generation Systems</i>
307D4102	Sistem Proteksi 1	<i>Electric Power Protection System 1</i>
	Paket ANTENA dan PROPAGASI	<i>ANTENNA and PROPAGATION Electives:</i>
310D4103	Antena dan Propagasi + Praktikum	<i>Antenna and Propagation + Laboratory</i>
311D4102	Saluran Transmisi Telekomunikasi	<i>Telecommunication Transmission Systems</i>
312D4103	Sistem Transmisi dan Frekuensi Tinggi + Praktikum	<i>High Frequency and Transmission Systems + Lab.</i>
313D4102	Komunikasi Satelit	<i>Satellite Communication Systems</i>
	Paket JARINGAN TELEKOMUNIKASI	<i>TELECOMMUNICATION NETWORKS Electives:</i>
314D4102	Jaringan Telekomunikasi Telepon	<i>Telephone Telecommunication Network</i>
315D4103	Teknologi <i>Switching</i> + PRAKTIKUM	<i>Switching Technology + Laboratory</i>
316D4102	Perangkat Lunak Telekomunikasi	<i>Telecommunication Softwares</i>
317D4102	Sistem Saluran Komunikasi Tenaga Listrik	<i>Power Line Carrier for Communication Transmission</i>
	Paket PERANCANGAN JARINGAN TELEKOMUNIKASI	<i>TELECOMMUNICATION NETWORK DESIGN Electives:</i>
314D4102	Jaringan Telekomunikasi Telepon	<i>Telephone Telecommunication Network</i>
316D4102	Perangkat Lunak Telekomunikasi	<i>Telecommunication Softwares</i>
318D4103	Sistem Berbasis Mikroprosesor + Praktikum	<i>Microprocessor-based Systems + Laboratory</i>
319D4102	Perancangan Jaringan Teresterial	<i>Terrestrial Network Design</i>
	Paket SISTEM KOMUNIKASI 1	<i>COMMUNICATION SYSTEMS 1 Electives:</i>
313D4102	Komunikasi Satelit	<i>Satellite Communication Systems</i>
320D4102	Komunikasi Data	<i>Data Communication</i>
321D4103	Teknologi Jaringan Akses	<i>Access Network Technology</i>
322D4102	Komunikasi Serat Optik	<i>Optical Fibre Communication</i>
323D4102	Komunikasi Digital	<i>Digital Communication</i>
	Paket JARINGAN KOMPUTER	<i>COMPUTER NETWORK Electives:</i>
320D4102	Komunikasi Data	<i>Data Communication</i>
324D4102	Jaringan Komputer + Praktikum	<i>Computer Network + Laboratory</i>
325D4102	<i>Mobile Programming</i>	<i>Mobile Programming</i>
326D4102	<i>Web Programming</i>	<i>Web Programming</i>
327D4102	<i>Cloud Computing</i>	<i>Cloud Computing</i>
	Paket SISTEM KENDALI 1	<i>CONTROL SYSTEMS 1 Electives:</i>
328D4103	Sistem Kendali + Praktikum	<i>Control Systems + Laboratory</i>
329D4102	Teknologi Kendali Proses	<i>Process Control Technology</i>
330D4102	Robotika Industri	<i>Industrial Robotics</i>
	+ MINIMAL 2 SKS DARI:	<i>+ Minimum 2 CR elected from:</i>
301D4102	Iluminasi	<i>Illumination</i>
331D4103	Sistem Instrumentasi Elektronika + Praktikum	<i>Electronic Instrumentation Systems + Laboratory</i>
332D4102	SCADA Berbasis Jaringan Komputer	<i>Computer Network-based SCADA</i>
	Paket APLIKASI MIKROPROSESOR	<i>MICROPROCESSOR APPLICATION Electives:</i>
318D4103	Sistem Berbasis Mikroprosesor + Praktikum	<i>Microprocessor-based Systems + Laboratory</i>
334D4103	Perancangan Sistem Digital + Praktikum	<i>Digital System Design + Laboratory</i>
	+ MINIMAL 3 SKS DARI:	<i>+ Minimum 3 CR elected from:</i>
335D4103	Arsitektur Komputer 1 + Praktikum	<i>Computer Architecture 1 + Laboratory</i>
330D4102	Robotika Industri	<i>Industrial Robotics</i>
331D4103	Sistem Instrumentasi Elektronika + Praktikum	<i>Electronic Instrumentation Systems + Laboratory</i>
332D4102	SCADA Berbasis Jaringan Komputer	<i>Computer Network-based SCADA</i>
333D4102	Otomasi Industri + PRAKTIKUM (PLC)	<i>Industrial Automation + Laboratory (PLC)</i>

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Paket DIVAIS ELEKTRONIKA		<i>ELECTRONIC DEVICES Electives:</i>
489D4102	Rangkaian Penguat Operasional	<i>Operational Amplifier Circuits</i>
491D4102	Divais Mikroelektronika	<i>Microelectronic Devices</i>
447D4102	<i>Systems on Chip</i>	<i>Systems on Chip</i>
334D4103	Perancangan Sistem Digital + Praktikum	<i>Digital System Design + Laboratory</i>
PAKET MATA KULIAH PILIHAN <i>Semester 6:</i>		<i>ELECTIVE COURSES:</i> <i>Even Semesters</i>
Paket TEKNIK ENERGI LISTRIK 2		<i>ELECTRIC POWER ENGINEERING 2 Electives:</i>
370D4102	Distribusi Tenaga Listrik + Praktikum	<i>Electric Power Distribution Systems + Laboratory</i>
371D4102	Sistem Proteksi 2 + Praktikum	<i>Electric Power Protection System 2 + Laboratory</i>
372D4102	Analisis Mesin Listrik 2 + Praktikum	<i>Electric Machines Analysis 2 + Laboratory</i>
373D4103	Operasi Sistem Tenaga Listrik	<i>Electric Power Systems Operation</i>
374D4103	Teknik Tegangan Tinggi + Praktikum	<i>High Voltage Engineering + Laboratory</i>
Paket SISTEM TENAGA LISTRIK 2		<i>ELECTRIC POWER SYSTEMS 2 Electives:</i>
370D4102	Distribusi Tenaga Listrik + Praktikum	<i>Electric Power Distribution Systems + Laboratory</i>
371D4102	Sistem Proteksi 2 + Praktikum	<i>Electric Power Protection System 2 + Laboratory</i>
373D4103	Operasi Sistem Tenaga Listrik	<i>Electric Power Systems Operation</i>
374D4103	Teknik Tegangan Tinggi + Praktikum	<i>High Voltage Engineering + Laboratory</i>
412D4102	Keandalan dan Kestabilan Sistem Tenaga Listrik	<i>Electric Power Systems Reliability and Stability</i>
Paket SISTEM NIRKABEL		<i>WIRELESS SYSTEMS Electives:</i>
380D4102	Komunikasi Seluler	<i>Cellular Communication</i>
381D4102	Teknologi Nirkabel	<i>Wireless Technology</i>
382D4102	Manajemen dan Regulasi Telekomunikasi	<i>Telecommunication Management and Regulations</i>
383D4102	<i>Spread Spectrum</i>	<i>Spread Spectrum</i>
384D4102	Teori Informasi dan Pengkodean	<i>Information Theory and Coding</i>
Paket ELEKTRONIKA TELEKOMUNIKASI		<i>TELECOMMUNICATION ELECTRONICS Electives:</i>
385D4103	Elektronika Telekomunikasi + Praktikum	<i>Telecommunication Electronics + Laboratory</i>
386D4102	Sistem Telekomunikasi Cerdas	<i>Intelligent Telecommunication Systems</i>
387D4102	Pengolahan Isyarat Digital	<i>Digital Signal Processing</i>
388D4102	Tapis Analog dan Digital	<i>Analog and Digital Filters</i>
Paket MULTIMEDIA		<i>MULTIMEDIA Electives:</i>
387D4102	Pengolahan Isyarat Digital	<i>Digital Signal Processing</i>
389D4103	Pengolahan Isyarat Multimedia + Praktikum	<i>Multimedia Signal Processing + Laboratory</i>
390D4102	Pengolahan Citra	<i>Image Processing</i>
392D4102	Sistem (Jaringan) Multimedia	<i>Multimedia (Network) Systems</i>
Paket SISTEM KOMUNIKASI 2		<i>COMMUNICATION SYSTEMS 2 Electives:</i>
383D4102	<i>Spread Spectrum</i>	<i>Spread Spectrum</i>
386D4102	Sistem Telekomunikasi Cerdas	<i>Intelligent Telecommunication Systems</i>
393D4102	Rekayasa Trafik	<i>Traffic Engineering</i>
394D4102	Kinerja Sistem Telekomunikasi	<i>Telecommunication Systems Performance</i>
395D4102	Radar dan Navigasi	<i>Radar and Navigation</i>
Paket SISTEM KOMPUTER		<i>COMPUTER SYSTEMS Electives:</i>
480D4102	Algoritma dan Struktur Data	<i>Algorithm and Data Structure</i>
481D4102	Sistem Operasi Komputer	<i>Computer Operational Systems</i>
482D4102	Aritmatika Komputer	<i>Computer Arithmetics</i>
483D4102	Pemrograman Berorientasi Obyek	<i>Object-oriented Programming</i>
484D4102	Pemrograman Komputer Lanjut	<i>Advance Computer Programming</i>
Paket SISTEM KENDALI 2		<i>CONTROL SYSTEMS 2 Electives:</i>
485D4102	Sistem Kendali Digital + Praktikum	<i>Digital Control Systems + Laboratory</i>
486D4102	Sistem Kendali Optimal	<i>Optimal Control Systems</i>
487D4102	Sistem Kendali Cerdas	<i>Intelligent Control Systems</i>
488D4102	Perancangan Sistem Kendali	<i>Control Systems Design</i>
Paket ARSITEKTUR KOMPUTER		<i>COMPUTER ARCHITECTURE Electives:</i>
396D4103	Arsitektur Komputer 2	<i>Computer Architecture 2 + Laboratory</i>
397D4102	Arsitektur Komputer Paralel	<i>Parallel Computer Architecture</i>
398D4102	Komputer Digital	<i>Digital Computer</i>
399D4102	Evaluasi Kinerja Sistem Komputer	<i>Computer Systems Performance Evaluation</i>
Paket PENGOLAHAN ISYARAT		<i>SIGNAL PROCESSING Electives:</i>
387D4102	Pengolahan Isyarat Digital	<i>Digital Signal Processing</i>
388D4102	Tapis Analog dan Digital	<i>Analog and Digital Filters</i>
389D4103	Pengolahan Isyarat Multimedia + Praktikum	<i>Multimedia Signal Processing + Laboratory</i>
390D4102	Pengolahan Citra	<i>Image Processing</i>
Paket ELEKTRONIKA INDUSTRI		<i>INDUSTRIAL ELECTRONICS Electives:</i>
379D4103	Elektronika Daya + Praktikum	<i>Power Electronics + Laboratory</i>
494D4102	Perancangan Sistem Tersemaat + Praktikum	<i>Embedded Systems Design + Laboratory</i>
485D4102	Sistem Kendali Digital + Praktikum	<i>Digital Control Systems + Laboratory</i>

Matakuliah Pilihan Non-Paket Semester Genap/Ganjil:			Non-Categorized Elective Courses Odd/Even Semester:		
1	300D4102	Opto Elektronika		<i>Opto-electronics</i>	
2	375D4102	Teknologi Isolasi + Praktikum		<i>Electric Insulation Technology + Laboratory</i>	
3	376D4102	Komptabilitas Elektromagnetik		<i>Electromagnetic Comptability</i>	
4	410D4102	Penggunaan Motor Listrik		<i>Electric MotorApplication</i>	
5	413D4102	Gardu Induk dan Peralatan Sistem Tenaga Listrik		<i>Power House and Electric Power System Equipment</i>	
6	414D4102	Penggunaan Komputer dalam Sistem Tenaga Listrik		<i>Computer Application in Electric Power Systems</i>	
7	415D4102	Kecerdasan Buatan dalam Sistem Tenaga Listrik		<i>Artificial Intelligence in Electric Power System</i>	
8	416D4102	Sistem Cerdas Tenaga Listrik		<i>Intelligent Electric Power Systems</i>	
9	417D4102	Analisis Transien Mesin Listrik		<i>Electric Machine Transient Analysis</i>	
10	418D4102	Pasar Ketenagalistrikan		<i>Electricity Market</i>	
11	419D4102	Perkiraan Beban Listrik		<i>Electric Power Load Estimation</i>	
12	420D4102	Sistem Pembangkit Listrik Tersebar		<i>Distributed Electric Power Generation Systems</i>	
13	421D4102	Sumber Energi Baru Terbarukan		<i>Renewable and New Energy Resources</i>	
14	422D4102	Manajemen Energi		<i>Energy Management</i>	
15	423D4102	Sistem Penyimpanan Energi		<i>Energy Storage Systems</i>	
16	424D4102	<i>Wide Area Monitoring</i>		<i>Wide Area Monitoring</i>	
17	425D4102	<i>Power System Conditioner</i>		<i>Power System Conditioner</i>	
18	426D4102	<i>FACTS Devices</i>		<i>FACTS Devices</i>	
19	427D4102	<i>Power System Modelling and Planning</i>		<i>Power System Modelling and Planning</i>	
20	428D4102	Transmisi Arus Searah		<i>Direct Current Transmission</i>	
21	429D4102	Rekayasa Nuklir		<i>Nuclear Engineering</i>	
22	430D4102	Pemetaan Jaringan		<i>Network Mapping</i>	
23	431D4102	Topik Khusus Jaringan Telekomunikasi		<i>Special Topics in Telecommunication Network</i>	
24	432D4102	Topik Khusus <i>Wireless</i>		<i>Special Topics in Wireless</i>	
25	433D4102	Topik Khusus Pengolahan Isyarat		<i>Special Topics in Signal Processing</i>	
26	434D4102	Topik Khusus Antena		<i>Special Topics in Antenna</i>	
27	435D4102	Pengenalan Pola		<i>Pattern Recognition</i>	
28	436D4102	Sistem Pengolahan dan Penapis Isyarat		<i>Signal Processing and Filtering Systems</i>	
29	437D4102	Komunikasi Seluler Lanjut		<i>Advanced Cellular Communication</i>	
30	438D4102	Pemodelan dan Simulasi Sistem Telekomunikasi		<i>Telecommunication Systems Modelling and Simulation</i>	
31	439D4102	Sistem Informasi Telekomunikasi		<i>Telecommunication Information Systems</i>	
32	440D4102	Optimisasi Jaringan Telekomunikasi		<i>Telecommunication Network Optimization</i>	
33	442D4102	Pemodelan dan Simulasi Numerik		<i>Numerical Modelling and Simulation</i>	
34	443D4102	Sistem Kecerdasan Buatan		<i>Artificial Intelligence Systems</i>	
35	444D4102	Sistem Kendali Logika Terprogram		<i>Programmable Logic Controller</i>	
36	445D4102	Sistem Kendali Stokhastik		<i>Stochastic Control Systems</i>	
37	446D4102	Pemodelan dan Simulasi Analog		<i>Analog Modelling and Simulation</i>	
38	448D4102	Topik Khusus Teknik Elektronika		<i>Special Topics in Electronic Engineering</i>	
39	449D4102	Topik Khusus Teknik Kendali		<i>Special Topics in Control Engineering</i>	
40	450D4102	Topik Khusus Teknik Komputer		<i>Special Topics in Computer Engineering</i>	
41	451D4102	<i>Microwave Remote Sensing</i>		<i>Microwave Remote Sensing</i>	
42	452D4102	<i>Coding and Modulation Techniques</i>		<i>Coding and Modulation Techniques</i>	
43	453D4102	<i>Modulation Technology</i>		<i>Modulation Technology</i>	
44	454D4102	<i>Computer Memory Systems</i>		<i>Computer Memory Systems</i>	
45	455D4102	<i>Hybrid Computation</i>		<i>Hybrid Computation</i>	
46	456D4102	<i>Philosophy of Science</i>		<i>Philosophy of Science</i>	
47	457D4102	<i>Energy and Environment</i>		<i>Energy and Environment</i>	
48	458D4102	<i>Parallel Programming</i>		<i>Parallel Programming</i>	
49	490D4102	Teknologi Rangkaian Terintegrasi		<i>Integrated Circuits Technology</i>	
50	492D4102	Elektronika Terintegrasi Analog		<i>Analog Integrated Electronics</i>	
51	493D4102	Bahasa Deskripsi Perangkat Keras		<i>Hardware Description Language</i>	