

Terjemahan nama-nama Mata Kuliah pada Kurikulum 2015 PS Teknik Elektro FTUH
(berdasarkan Susunan Mata Kuliah Revisi 2.3. September 2015)

KODE	Bahasa Indonesia	English
	<i>Semester 1:</i>	
077U003	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>	
072U003	Agama (Islam, Katholik, dst)	<i>Religious Studies (Islam, Catholic, etc)</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>Electrical Circuits 2</i>
122D4102	Sistem Digital	<i>Digital Systems</i>
123D4102	Pemrograman Komputer	<i>Computer Programming</i>
101D4101	Prakt. Rangkaian Listrik	<i>Electrical 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 Electrical 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 Electrical 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>Electrical 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>

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	<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 (on a 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 (on the 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>ELECTRICAL POWER ENGINEERING 1 Electives:</i>
303D4102	Transmisi Arus Bolak-Balik	<i>Alternating Current Transmission Systems</i>
304D4102	Analisis Sistem Tenaga Listrik	<i>Electrical Power System Analysys</i>
305D4102	Pembangkit Tenaga Listrik	<i>Electrical Power Generation Systems</i>
306D4102	Analisis Mesin Listrik 1 + Praktikum	<i>Electrical Machines Analysis 1 + Laboratory</i>
307D4102	Sistem Proteksi 1	<i>Electrical 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 Terrestrial	<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	Illuminasi	<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		ELECTRONIC DEVICES Electives:
489D4102	Rangkaian Penguat Operasional	Operational Amplifier Circuits
490D4102	Teknologi Rangkaian Terintegrasi	Integrated Circuits Technology
491D4102	Divais Mikroelektronika	Microelectronic Devices
492D4102	Elektronika Terintegrasi Analog	Analog Integrated Electronics
493D4102	Bahasa Deskripsi Perangkat Keras	Hardware Description Language
PAKET MATA KULIAH PILIHAN		ELECTIVE COURSES:
<i>Semester 6:</i>		<i>Even Semesters</i>
Paket TEKNIK ENERGI LISTRIK 2		ELECTRICAL POWER ENGINEERING 2 Electives:
370D4102	Distribusi Tenaga Listrik + Praktikum	Electrical Power Distribution Systems + Laboratory
371D4102	Sistem Proteksi 2 + Praktikum	Electrical Power Protection System 2 + Laboratory
372D4102	Analisis Mesin Listrik 2 + Praktikum	Electrical Machines Analysis 2 + Laboratory
373D4103	Operasi Sistem Tenaga Listrik	Power Systems Operations
374D4103	Teknik Tegangan Tinggi + Praktikum	High Voltage Engineering + Laboratory
Paket SISTEM NIRKABEL		WIRELESS SYSTEMS Electives:
380D4102	Komunikasi Seluler	Cellular Communication
381D4102	Teknologi Nirkabel	Wireless Technology
382D4102	Manajemen dan Regulasi Telekomunikasi	Telecommunication Management and Regulations
383D4102	<i>Spread Spectrum</i>	<i>Spread Spectrum</i>
384D4102	Teori Informasi dan Pengkodean	Information Theory and Coding
Paket ELEKTRONIKA TELEKOMUNIKASI		TELECOMMUNICATION ELECTRONICS Electives:
385D4103	Elektronika Telekomunikasi + Praktikum	Telecommunication Electronics + Laboratory
386D4102	Sistem Telekomunikasi Cerdas	Intelligent Telecommunication Systems
387D4102	Pengolahan Isyarat Digital	Digital Signal Processing
388D4102	Tapis Analog dan Digital	Analog and Digital Filters
Paket MULTIMEDIA		MULTIMEDIA Electives:
387D4102	Pengolahan Isyarat Digital	Digital Signal Processing
389D4103	Pengolahan Isyarat Multimedia + Praktikum	Multimedia Signal Processing + Laboratory
390D4102	Pengolahan Citra	Image Processing
392D4102	Sistem (Jaringan) Multimedia	Multimedia (Network) Systems
Paket SISTEM KOMUNIKASI 2		COMMUNICATION SYSTEMS 2 Electives:
383D4102	<i>Spread Spectrum</i>	<i>Spread Spectrum</i>
386D4102	Sistem Telekomunikasi Cerdas	Intelligent Telecommunication Systems
393D4102	Rekayasa Trafik	Traffic Engineering
394D4102	Kinerja Sistem Telekomunikasi	Telecommunication Systems Performance
395D4102	Radat dan Navigasi	Radat and Navigation
Paket SISTEM KOMPUTER		COMPUTER SYSTEMS Electives:
480D4102	Algoritma dan Struktur Data	Algorithm and Data Structure
481D4102	Sistem Operasi Komputer	Computer Operational Systems
482D4102	Aritmatika Komputer	Computer Arithmetics
483D4102	Pemrograman Berorientasi Obyek	Object-oriented Programming
484D4102	Pemrograman Komputer Lanjut	Advance Computer Programming
Paket SISTEM KENDALI 2		CONTROL SYSTEMS 2 Electives:
485D4102	Sistem Kendali Digital + Praktikum	Digital Control Systems + Laboratory
486D4102	Sistem Kendali Optimal	Optimal Control Systems
487D4102	Sistem Kendali Cerdas	Intelligent Control Systems
488D4102	Perancangan Sistem Kendali	Control Systems Design
Paket ARSITEKTUR KOMPUTER		COMPUTER ARCHITECTURE Electives:
396D4103	Arsitektur Komputer 2	Computer Architecture 2 + Laboratory
397D4102	Arsitektur Komputer Paralel	Parallel Computer Architecture
398D4102	Komputer Digital	Digital Computer
399D4102	Evaluasi Kinerja Sistem Komputer	Computer Systems Performance Evaluation
Paket PENGOLAHAN ISYARAT		SIGNAL PROCESSING Electives:
387D4102	Pengolahan Isyarat Digital	Digital Signal Processing
388D4102	Tapis Analog dan Digital	Analog and Digital Filters
389D4103	Pengolahan Isyarat Multimedia + Praktikum	Multimedia Signal Processing + Laboratory
390D4102	Pengolahan Citra	Image Processing
Paket ELEKTRONIKA INDUSTRI		INDUSTRIAL ELECTRONICS Electives:
379D4103	Elektronika Daya + Praktikum	Power Electronics + Laboratory
494D4102	Perancangan Sistem Tersemaat + Praktikum	Embedded Systems Design + Laboratory
485D4102	Sistem Kendali Digital + Praktikum	Digital Control Systems + Laboratory