

### 4 Curriculum: Electrical Engineering - ELE (Industrial Electronics)

#### 4.1 General Data

1	Duration of Study (S-1)	:	4 years
2	Academic Year	:	2 Semesters
			Odd Semester: 1 July to 31 December
			Even Semester: 1 January to 30 June
3	Academic weeks / Semester	:	16 (14 academics and 2 for examinations)
	Semester Credit Units (SKS)	:	1 SKS (preparation, lecture, exercises)
4	Numbers of SKS per Semester	:	max 24 (academics)
	Total SKS for S-1 study	:	144 – 160 SKS
5	Duration of one lecture	:	50 Minutes
6	Number of Students per Subject	:	min. 12 Students
7	File Name	:	04-Cur-ELE-08-06.docx
8	Modification	:	Subject to Changes / 2017/07-15/PP

## 4.2 Structure of Study

1	2	3	4	5	6	7	8					
	Semester 1 -	- 6:										
	Academic Education (see curriculum), OFSE (Oral Final Study Examination)											
	Semester 7:		d for Double I	Dograal								
	Thesis prepa		ad for Double I	Jegree)								
	Semester 8:											
	Internship (4											
		ise, Graduatio	on									
	_											

#### 4.3 Scores

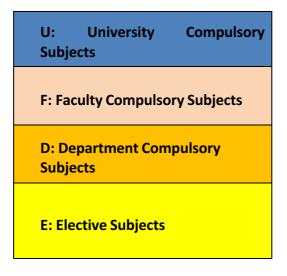
Grad e	Grade Wording	IULI	Indonesian Grade Points	Germany Grade	Grade Description	Student Represent
A	Excellent	86 - 100	4	1	Outstanding performance	10%
В	Good	71 - 85	3.0 - 3.9	2	Performance is considerably higher than the average requirements	25%
С	Satisfactory	56 - 70	2.0 - 2.9	3	Performance meets the average requirements	30%
D	Poor	46 - 55	1.0 - 1.9	4	Performance is poor and likely to lead to failure	25%
F	Fail	< 45	0	5	Performance does not meet the minimum criteria. Considerable further work is required	10%







## 4.4 Curriculum (in SKS)



# 04 - Electrical Engineering - ELE

University Compulsory Subjects					Se	emest	ter				
			1	2	3	4	5	6	7	8	Total
1	English	ENGL	2	2	2	2	1	1			10
2	Computer Network & IT Security	CNIS	2								2
3	Applied Statistics	MATH		2							2
4	Research Methodology	RESM		2							2
5	Environment Sciences	ENVI			2						2
6	Civics	CIVI				2					2
7	Ethics and Religious Philosophy	ETRP					2				2
8	Innovation & Product Development	PROD					2				2
9	E-Commerce	ECOM						2			2
10	Indonesian Language & Culture	IDLC						2			2
11	Pancasila	PANC						2			2
12	Oral Final Study Examination (OFSE)	OFSE						0			0
13	Research Semester	RESS							6		6
14	Elective : Internship / Project	INSP								3	3
15	Thesis / Thesis Defence	THES								6	6
	Total		4	6	4	4	5	7	6	9	45





**2/4** PO Box 150, BSD CPA 15330 Tel. +62 21 50588000 +62 852 12318000 info@iuli.ac.id; www.iuli.ac.id

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Engineering Fourthy Computering Subjects						S	emes	ster			
Eng	Engineering Faculty Compulsory Subjects		1	2	3	4	5	6	7	8	Σ
1	Introduction to Engineering	IENG	1								1
2	Chemistry	CHEM	2								2
3	Material Science	MATS	2								2
4	Engineering Mathematics 1,2	MATH	3	3							6
5	Physics & Laboratory 1,2	PHYS	3	3							6
6	Algorithm, Programming 1, 2	PROG	3	3							6
7	Electrical Engineering & Laboratory 1, 2	ELEE	3	3							6
8	Engineering Drawing / CAD 1*	ENDR	0								0
9	Statics and Mechanics of Materials*	MECH		0							0
10	Manufacturing Process*	MFPR			0						0
11	Applied Mathematics	MATH			3						3
12	Metrology and Quality Control	MEQC			2						2
13	Computer Aided Design – CAD 2 **	CADD			0						0
14	Engineering Economy***	EECO					2				2
15	System Design 1, 2***	SYSD					3	3			6
16	Engineering Management ***	EMGT						2			2
	Total		17	12	5	0	5	5	0	0	44

Exclude: \*/\*\*COS, \*\*ELE, \*\*\*INE

	D-Department Compulsory		Semester								
	Subjects		1	2	3	4	5	6	7	8	Σ
1	Electronic Devices and Circuits	ECED			2	2					4
2	Telecommunication	тсом					2				2
3	Electric and Magnetic Fields	EAMF			3						3
4	Electrical Safety & Protection	ESAP			2						2
5	Sensor and Instrumentation Technique	SENS				3					3
6	Microcontroller Systems	ECEC				3					3
7	Control Techniques	CTRL				3					3
8	Electric Power Systems & Transmission.	EPST				3					3
9	Electrical Energy Conversion & Utilization.	EECU				2					2
10	Signals and Systems	SSYS				2	2				4
11	Power Electronics	ECEP					3				3
12	Radio Frequency Circuit & Antennas	RFCA					2				2
13	Digital Signal Processing	DSPR						3			3
14	Electric Machines & Drives	ELEC						3			3
15	Elective Subjects	ELEC		4	4	2	4	4			18
	Department		0	4	11	20	13	10	0	0	58
	Faculty		17	12	5	0	5	5	0	0	44
	University		4	6	4	4	5	7	6	9	45
	Total		21	22	20	24	23	22	6	9	147

Federal Ministry of Education and Research



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	Elective Subjects		1	2	3	4	5	6	7	8	
1	German Language 1 *)	GERM	2	2	2	2	2	2			12
2	German Language 2 **)	GERM	2	2							4
3	Mandarin	MAND	2	2	2	2	2		2		12
4	Business Arabic	ARAB	2	2	2	2	2		2		12
5	Electrical Subjects	EMTE	0	4	4	2	4	4	0		18





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