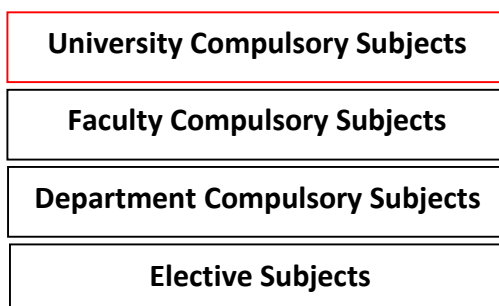


4. Curriculum

4.1 Programm Structure (Four Years)



4.1.1 University Compulsory Subjects (in SKS)

	Subjects	Abr.	1	2	3	4	5	6	7	8	Total
1	English	ENGL	2	2	2	2	1	1			10
2	Fundamental of Computer Sciences	FCOM	2								2
3	Database, e-Commerce & Docs	ECOM						2			2
4	Environmental Engineering	ENVI			2						2
5	Innovation and Product Develop.	PROD					2				2
6	Descriptive Statistics	MATH				2					2
7	Internship	INSP								3	3
8	Research-, Methodology and - Semester	RESC						2	6		8
9	Ethics and Religious Philosophy	GENR					2				2
10	Civics	GENR				2					2
11	Indonesian Language and Culture	GENR						2			2
12	Pancasila	GENR		2							2
13	Oral Final Study Examination	OFSE						0			0
14	Thesis / Thesis Defense	THES								6	6
	Total		4	4	4	6	5	7	6	9	45

4.1.2 Faculty Compulsory Subjects (in SKS)

	Subjects	Abr.	1	2	3	4	5	6	7	8	Total
1	Applied Chemistry & Material Sci.	CHEM	3								3
2	Calculus and Linear Algebra	MATH	3	3							6
3	Physics and Laboratory	PHYS	4	4							8
4	Algorithm, Programming & Datastr	PROG	3	3							6
5	Technical Drawing	TDRW	3								3
6	Manufacturing Processes & Systems	MFGS		2							2
7	Applied Mathematics	MATH			3						3
8	Elective in Engineering Science	EESC				2					2
9	Engineering Economy	EECO					2				2
10	Engineering Management	EMGT						2			2
	Total		16	12	3	2	2	2			37

4.1.3 Department Compulsory Subjects (in SKS)

	Subjects	Abr.	1	2	3	4	5	6	7	8	Total
1	Introduction to Electrical Eng	IELE	1								1
2	Basic Electric Circuit & Laboratory	BELE	3	3							6
3	Statics and Mechanics of Materials	MECH		4							4
4	Electronic Devices and Circuits	ECED			3						3
5	Introduction to Measurement	MEAS			2						2
6	Introduction to Telecommunication	TCOM			2						2
7	Manufacturing Process Laboratory	MFGS			2						2
8	Electric- and Magnetic Fields	EAMF			4						4
9	Sensor and Instrumentation Techn.	SENS			3						3
10	Microcontroller Systems & Interface	ECEC				3					3
11	Control Techniques	CTRL				3					3
12	Electric Power Sys. & Transmission	EPST				3					3
13	Electrical Safety and Protection	ESAP				2					2
14	Signals and Systems	SSYS				2	2				4
15	Power Electronics	ECEP					3				3
16	Radio Frequency Circuit & Antennas	RFCA					2				2
17	El. Energy Conversion & Utilization	EECU				2					2
18	Electronic Systems Design	ESDG					3	3			6
19	Electric Machines & Electric Drives	ELEC						3			3
20	Digital Signal Processing	DSPR						3			3
21	Electrical Eng. Elective Subjects	ELEC					6	6			12
	Total		4	7	16	15	16	15	0	0	73

4.1.4 Elective Subjects (in SKS)

	Subjects	Abr.	1	2	3	4	5	6	7	8	Total
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/Electronics Subjects	EELE					6		6		12
6											
7											

*) Mandatory for Internship in Germany

***) Presemester Course (Final Exam in Germany)