

5. Curriculum: Industrial Engineering - INE

5.1 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 : 05-Cur-INE-08-06.docx
- 8 Modification : Subject to Changes / 2017/07-15/07-18/08-28/PP

5.2 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: Research Semester (abroad for Double Degree) Thesis preparation						
	Semester 8: Internship (4 months) Thesis Defense, Graduation						

5.3 Scores

Grade Letter	Grade Wording	IULI	Indonesian Grade Points (GP)	Germany Grade Point	Grade Description	Student Representati
A	Excellent	86 - 100	4	1	Outstanding performance	10%
B	Good	71 - 85	3.0 - 3.9	2	Performance is considerably higher than the average requirements	25%
C	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%

5.4 Curriculum (in SKS)

University Compulsory Subjects
Faculty Compulsory Subjects
Department Compulsory Subjects
Elective Subjects

05 - Industrial Engineering – INE

University Compulsory Subjects		Semester									
			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	Internship / Project	INSP								3	3
15	Thesis / Thesis Defence	THES								6	6
Total			4	6	4	4	5	7	6	9	45

Faculty Compulsory Subjects			Semester								
			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 Eng. & Laboratory 1, 2	ELEE	3	3							6
8	Engineering Drawing / CAD	ENDR	3								3
9	Statics and Mechanics of Materials	MECH		4							4
10	Manufacturing Process	MFPR			2						2
11	Applied Mathematics	MATH			3						3
12	Metrology and Quality Control	MEQC			2						2
13	System Design 1	SYS1					3				3
Total			20	16	7	0	3	0	0	0	46

INE - Department Compulsory			Semester								
			1	2	3	4	5	6	7	8	Σ
1	Machine Elements	MELM					3				3
2	Pneumatics & Hydraulics	PNHY						3			3
3	Electronic Devices and Circuits	ECED			2	2					4
4	Electric Machines Drives	ELMD						3			3
5	System Modelling and Simulations	SMSI						3			3
6	Ergonomics & Human Factor	EHFE				2					2
7	Prod. Planning & Inventory Control	PPIC				2					2
8	Marketing Management 1	MAR1			2						2
9	Marketing Management 2	MAR2				2					2
10	Psychology	IPSY					2				2
11	Logistics & Supply Chain Management	LSCE						3			3
12	Operation Management	OPMT			2						2
13	Business Management 1	BUM1			2						2
14	Business Management 2	BUM2				2					2
15	Economics 1	ECO1			2						2
16	Economics 2	ECO2				2					2
17	Accounting 1	ACC1			2						2
18	Accounting 2	ACC2				2					2
19	Corporate Finance	COFI					4				4
20	Operations Research	OPRS					3				3
21	Human Resource Management 1	HRMT				3					3
22	Law	LAWS				2	2				4
23	Management Information Systems	MISI						2			2
24	Robotics & Automation 1	ROB1					2				2

25	Robotics & Automation 2	ROB2						2			2
	Department		0	0	12	19	16	16	0	0	63
	Faculty		20	16	7	0	3	0	0	0	46
	University		4	6	4	4	5	7	6	9	45
	Total		24	22	23	23	24	23	6	9	154

Elective Subjects

	Subjects	Abr.	1	2	3	4	5	6	7	8	Σ
1	German Language 1 *)	GERM	2	2	2	2	2	2			12
2	German Language 2 **)	GERM	2	2							4
3	Mandarin Language	MAND	2	2	2	2	2		2		12
4	Business Arabic	ARAB	2	2	2	2	2		2		12

*) Mandatory for internship in Germany

***) Pre-Semester Course (Final Exam in Germany)