3 Curriculum (COMPUTER SCIENCE AND SECURITY) - COS

3.1 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	:	03-Cur-COS-08-06.docx
8	Modification	:	Subject to Changes / 2017/07-15/PP

3.2 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) Thesis preparation
	Semester 8: Internship (4 months) Thesis Defense, Graduation

3.3 Score

Grade Letter	Grade Wording	IULI	Indonesian Grade Points (GP)	Germany Grade Point	Grade Description	Student Representation
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%

3.4 Curriculum (SKS)

University Compulsory Subjects
Faculty Compulsory Subjects
Department Compulsory Subjects
Elective Subjects

03-Computer Science – COS

	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**

	Engineering Faculty Compulsory Subjects		Semester								
			1	2	3	4	5	6	7	8	∑
1	Introduction to Engineering	IENG	1								1
2	Chemistry*	CHEM	0								0
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

#	Subject	Abr.	1	2	3	4	5	6	7	8	Σ
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									0
13	Computer Aided Design – CAD 2 **	CADD									0
14	Engineering Economy***	EECO					2				2
15	System Design 1, 2***	SYSD					3	3			6
16	Engineering Management ***	EMGT						2			2
	Total		**15**	**12**	**3**	**0**	**5**	**5**	**0**	**0**	**40**

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

Department Compulsory Subjects			Semester								
			1	2	3	4	5	6	7	8	Σ
1	Logics	LOGI	3								3
2	Advanced Data Structure	ADDS		3							3
3	Discrete Mathematics	MATH		2							2
4	Collaboration and Com.	COCO			2						2
5	Digital Logic & Digital Systems	DLDS			2						2
6	Operating Systems	OPSY			3						3
7	Computer Architecture	COAR			4						4
8	Interfacing and Data Comm. 1,2	IFDC			2	2					4
9	Human Computer Interaction	HUCI				2					2
10	Cost & Mgt Accountancy	CMAC				3					3
11	Distribut. Database Systems	DDBS				3					3
12	Networking 1,2	NEWO				2	2				4
13	Operation Research	OPRE					3				3
14	Software Engineering	SWEN				2	2				4
15	Comp. Science & System Des.	CSSD					2	2			4
16	IT Security	OTSE				2	2	2			6
17	System Modeling & Simulation	SMSI						3			3
18	Elective Subjects (*)	ELEC					2	4			6
	Department		3	5	13	16	13	11	0	0	61
	Faculty		15	12	3	0	5	5	0	0	40
	University		**4**	**6**	**4**	**4**	**5**	**7**	**6**	**9**	45
	Total		**22**	**23**	**20**	**20**	**23**	**23**	**6**	**9**	**146**

Electives

	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				10
4	Business Arabic	ARAB	2	2	2	2	2				10
5	Computer Science Subjects	COSS					2	2			4