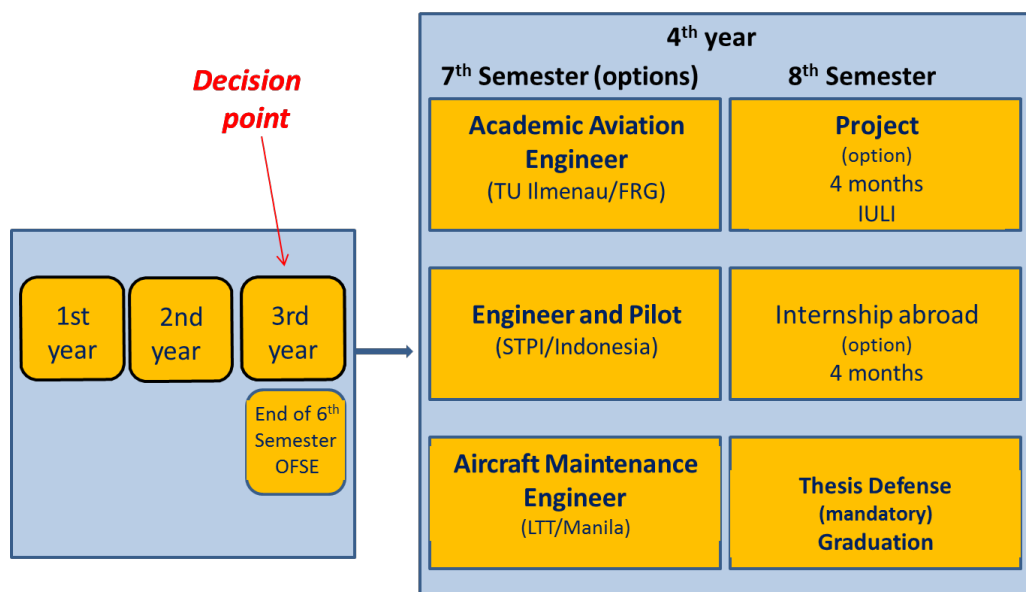


2 Curriculum: (Aviation Engineering – AVE)

2.1 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	Structure of Study (General)	:	
7	Number of Students per Subject	:	min. 12 Students
9	File Name	:	02-Cur-AVE-08-06.docx
10	Modification	:	Subject to Changes / 2017/07-15/PP

2.2 Structure of Study



Explanation:

	Academic Aviation Engineer	Academic Engineer & Pilot	Aircraft Maintenance Engineer
Academic Semester 1-6	✓	✓	✓
Oral final study exam OFSE	✓	✓	✓
Research Semester (7)	✓		
Pilot License (7)		✓	
Maintenance License (7)			✓
Thesis / Thesis Defense (8)	✓	✓	✓
National Degree (S-1)	✓	✓	✓
Double Degree	✓		

2.3 Scores

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 Curriculum (in SKS)

University Compulsory Subjects
Faculty Compulsory Subjects
Department Compulsory Subjects
Elective Subjects

02-Aviation Engineering - AVE

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	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	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	Computer Aided Design – CAD 2 **	CADD			3						3
14	Engineering Economy***	EECO					2				2
15	System Design 1, 2***	SYSD					3	3			6
16	Engineering Management ***	EMGT						2			2
Total			20	16	10	0	5	5	0	0	56

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

D-Department Compulsory Subjects			Semester								Σ
			1	2	3	4	5	6	7	8	
1	Operation Research	OPER			3						3
2	Machine Elements	MELM			3						3
3	Basic Aviation Eng. Practical Training	AEPT			2						2
4	Thermo-Fluid Science	THFL			2	2					4
5	Kinematics & Dynamics of Machines	MECH				3					3
6	Flight Dynamics	FDYN				2					2
7	Aircraft Propulsion	APRO				3					3
8	Aviation Airworthiness, Safety & Reg.	ASAF				2					2
9	Aerodynamics	AERO				2	2				4
10	Pneumatics and Hydraulics	PNHY						3			3
11	Aircraft Performance	ACRF					2				2
12	Aircraft Systems and Components	ACRF					2	2			4
13	Flight Control	FLGT					2	2			4
15	Human Factors in Aviation	HAEF						2			2
16	Elective Subjects	ELEC				4	4	2			10
	Department		0	0	10	18	12	11	0	0	51
	Faculty		20	16	10	0	5	5	0	0	56
	University		4	6	4	4	5	7	6	9	45
	Total		24	22	24	22	22	23	6	9	152

Elective Subjects

	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	Aviation Subjects	EMTE				4	4	2			10

*) Mandatory for Internship in Germany

**) Presemester Course (Final Exam in Germany)