

7.1 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	:	07-Cur-MTE-08-06.docx
8	Modification	:	Subject to Changes / 2017/07-15/PP

7.2 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

7.3 Scores

Grade Letter	Grade Wording	IULI	Indonesian Grade Points	Germany Grade	Grade Description	Student Representati
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%

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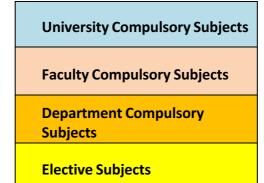
Federal Ministry of Education and Research

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Coordinator

TECHNISCHE UNIVERSITÄT

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07 - Mechatronics Engineering - MTE

	 Computer Network & IT Security Applied Statistics Research Methodology Environment Sciences Civics Ethics and Religious Philosophy Innovation & Product Development E-Commerce Indonesian Language & Culture Pancasila Oral Final Study Examination (OFSE) Research Semester Elective : Internship / Project Thesis / Thesis Defence 				Ser	neste	er				
Uni	versity compulsory Subjects		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

Eng	ineering Faculty Compulsory					Se	mest	er			
Sub	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	3								3
9	Statics and Mechanics of Materials*	MECH		4							4
10	Manufacturing Process*	MFPR			2						2
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11	Applied Mathematics	MATH			3			maa	nesia		3	Υ
12	Metrology and Quality Control	MEQC			2						2	IULI
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	

	ATE - Department Compulsory					Se	mest	er			
			1	2	3	4	5	6	7	8	Σ
1	Machine Elements	MELM			3						3
2	Thermo-Fluid Science 1, 2	THFL			2	2					4
3	Kinematics and Dynamics of Machines	MECH				3					3
4	Electronic Devices and Circuits	ECED			2	2					4
5	Sensor and Instrument. Techn.	SENS				3					3
6	Microcontroller Systems	ECEC				3					3
7	Control Techniques	CTRL				3					3
8	Signals and Systems	SSYS				2	2				4
9	Digital Signal Processing	DSPR						3			3
10	Telecommunication	тсом					2				2
11	Power Electronics	ECEP					3				3
12	Pneumatics and Hydraulics	PNEM						3			3
13	Electric Machines & Drives	ELEC						3			3
14	Robotics and Automaton 1, 2	ROAU					2	2			4
15	Elective Subjects	ELEC			2		2				4
	Department		0	0	9	18	11	11	0	0	49
	Faculty		20	16	10	0	5	5	0	0	56
	University		4	6	4	4	5	7	6	9	45
	Total		24	22	23	22	21	23	6	9	150

	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	Mechatronics Subjects	EMTE	0	0	2	0	2	0	0	0	4

*) **)

Mandatory for Internship in Germany Pre-Semester Course (Study at TU Ilmenau / Germany

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