4 Curriculum (Mechanical Engineering / MEE)

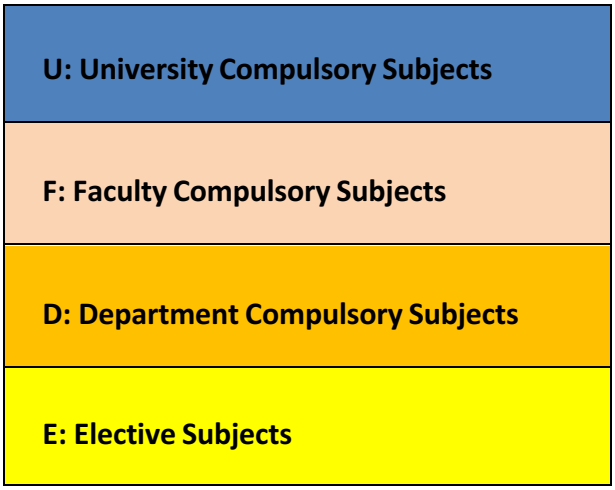
4.1 Data

Duration	:	4 years
Number of Semesters	:	8 (6 academics, one research and one Internship)
Academic Year	:	2 Semesters Odd Semester: 1 July to 31 December Even Semester: 1 January to 30 June
Number of weeks per semester	:	16 (14 academics and 2 for examinations)
Number of SKS per Semester	:	24 (academics)
Duration of one lecture	:	50 Minutes
Elective Subjects	:	min 15 Students per course
Engineering courses (minimum)	:	75%
Non Engineering (maximum)	:	25%
File Name	:	Cur-MEE-4
Modification	:	Subject to Changes 2017/31-05/10-06/21-06/PP

4.2 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%

4.3 Program Structure



DAAD
Federal Ministry of Education and Research
Coordinator
TECHNISCHE UNIVERSITÄT ILMENAU
PO Box 150, BSD CPA 15330
Tel. +62 21 50588000
+62 852 12318000
info@iuli.ac.id; www.iuli.ac.id
IULI – Eco Campus, The Breeze
Jl. BSD Grand Boulevard
BSD City 15345
Island of Java

4.3.1 U - University Compulsory Subjects

	Subjects	Abr.	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	E-Commerce	ECOM						2			2
4	Environment Sciences	ENVI			2						2
5	Innovation & Product Development	PROD					2				2
6	Applied Statistics	MATH		2							2
7	Research Methodology	RESM		2							2
8	Research Semester	RESS							6		6
9	Ethics and Religious Philosophy	ETRP					2				2
10	Civics	CIVI				2					2
11	Indonesian Language & Culture	IDLC						2			2
12	Pancasila	PANC						2			2
13	Oral Final Study Examination (OFSE)	OFSE						0			0
14	Elective : Internship / Project	INSP								3	3
15	Thesis / Thesis Defense	THES								6	6
	Total		**4**	**6**	**4**	**4**	**5**	**7**	**6**	**9**	**45**
								30			

4.3.2 F-Faculty Compulsory Subjects (*excluded Computer Science)

	Subjects	Abr.	1	2	3	4	5	6	7	8	Total
1	Applied Chemistry & Material Science	CHEM	3								3
2	Engineering Mathematics 1, 2	MATH	3	3							6
3	Physics & Laboratory 1, 2	PHYS	4	4							8
4	Algorithm, Programming 1, 2	PROG	3	3							6
5	Engineering Drawing*	ENDR	3								3
6	Manufacturing Process*	MFPR			2						2
7	Applied Mathematics	MATH			3						3
8	Engineering Economy	EECO					2				2
9	Engineering Management	EMGT						2			2
10	Electrical Engineering & Laboratory 1, 2	ELEE	3	3							6
11	Statics and Mechanics of Materials*	MECH		4							4
12	Metrology and Quality Control	MEQC			2						2
	Total		**19**	17	7	0	2	2	0	0	**47**

PO Box 150, BSD CPA 15330
Tel. +62 21 50588000
+62 852 12318000
info@iuli.ac.id; www.iuli.ac.id

IULI – Eco Campus, The Breeze
Jl. BSD Grand Boulevard
BSD City 15345
Island of Java

4.3.3 D - Department Compulsory Subjects - MEE

	Subjects MEE		Semesters							Remarks: Common Subjects				
			1	2	3	4	5	6	Total	AUE	AVE	MTE	ELE	INE
1	Introduction to Mechanical Engineering	IMEE	1						1	**x**				
2	Computer Aided Design – CAD	CADD			3				3	x	x			
3	Machine Elements	MELM			3				3	x	x	**x**		x
4	Manufacturing Processes	MFGS			2				2	x		x	x	x
5	Thermo Fluid Science	TFSC			2	2			4	x	x	**x**		
6	Material- and Metal Forming	MMFO				3			3	x				x
7	Computer Aided Manufacturing-CAM	CAMA				3			3	x				
8	Kinematics and Dyn. of Machines	KDYN				3			3	x	x	**x**		
9	Control Techniques	CTRL			3				3	x		x	x	
10	Advance Machine Elements	MELM				4			4					
11	Assembly and Manufacturing Support	ASSY					2		2	x				x
12	Quality Assurance	QASS					3		3					
13	Mechanical Vibrations	MVIB					3		3	x				
14	Introduction in Mechatronics	MCHT				2			2	**x**				
15	Mechanical Engineering System Des.	MESD					3	3	6					
16	Computer Aided Engineering – CAE	CAEN						3	3					
17	Pneumatics and Hydraulics	PNEU						3	3	x	x	**x**		
18	Elective Subjects						6	6	12					
	Department (Semester 1-6)		**1**	0	**13**	**17**	**17**	**15**	**63**					
	Faculty (Semester 1-6_		19	17	7	0	2	2	47					
	University (Semester 1-6)		4	6	4	4	5	7	30					
	Total (Semester 1-6)		24	23	24	21	24	24	140					
	Total (Semester 1-8)								155					

DAAD
Federal Ministry of Education and Research
Coordinator
TECHNISCHE UNIVERSITÄT ILMENAU
PO Box 150, BSD CPA 15330
Tel. +62 21 50588000
+62 852 12318000
info@iuli.ac.id; www.iuli.ac.id
IULI – Eco Campus, The Breeze
Jl. BSD Grand Boulevard
BSD City 15345
Island of Java

4.3.4 Electives

No.	Subjects	Abr.	Semesters								Total
			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	Mechanical Subjects	EMTE					6		6		12

*) Mandatory for Internship in Germany
**) Presemester Course (Final Exam in Germany)

5 Modifications:

Date	Level	Old	Sem	New	Sem	By
2017-05-30	University	Fundamentals of Computer Technology	1	Computer Network and Computer Security	1	PP
2017-05-30	University	Statistics and Probability	2	Applied Statistics	2	PP
2017-05-31	Faculty	Technical Drawing	1	Engineering Drawing	1	PP
2017-05-31	Dep. to Faculty	Industrial Electronics and Laboratory	1,2	Electrical Engineering and Laboratory 1, 2	1,2	PP
2017-05-31	Dep. to Faculty	Statics and Mechanics of Materials	2	Statics and Mechanics of Materials	2	pp
2017-05-31	Faculty	Calculus and Linear Algebra	1,2	Engineering Mathematics 1 and 2	1,2	PP
2017-05-31	Department	Without joint departments with same subjects		Subjects		PP

6 Note:

Subject to Change

PO Box 150, BSD CPA 15330
Tel. +62 21 50588000
+62 852 12318000
info@iuli.ac.id; www.iuli.ac.id
IULI – Eco Campus, The Breeze
Jl. BSD Grand Boulevard
BSD City 15345
Island of Java