Curriculum Structure of Bachelor of Environmental Engineering

	Subject		Study Load on Activities (SKS)		
No	Code	Name	Course & Tutorials	Practice	Total
(1)	(2)	(3)	(4)	(5)	(6)
Semes	ter 1				
Comp	ulsory				
1	AGI 101	Islamic Religion			
	AGK 101	Catholicism			
	AGP 101	Protestant Religion	2		2
	AGH 101	Hinduism	2		2
	AGB 101	Buddhism			
	AGC 101	Confucianism			
2	NOP 103	Pancasila	2		2
3	NOP 104	Civic	2		2
4	BAI 101	Indonesian	2		2
5	SIP 107	Data and Libraries	2		2
6	BID 101	Basic Biology	2		2
7	KID 101	Basic Chemistry	2		2
8	BID	Lab Practice for Basic Biology		1	1
9	KID	Lab Practice for Basic Chemistry		1	1
10	LKB 104	Introduction to Environmental Science and Technology	2		2
Electiv	ve				
-	-	-	-	-	-
Semes	ter 1 Sub-To	tal	16	2	18
Semes	ster 2				
Comp	ulsory				
1	PHP 103	Logic and Critical Thinking	2		2
2	MNN 107	Introduction to Scientific Collaboration	2		2
3	MNN 106	Communication and Self Development	2		2
4	MATT	Calculus	3		3
5	FID	Basic Physics	2		2
6	FID	Lab Practice for Basic Physics		1	1
7	LKB 201	General Ecology	2		2
8	LKB 203	Lab Practice for General Ecology		1	1

9	LKT 208	Engineering Drawing	2		2
10	LKT	Practice for Engineering		1	1
11	BAE 111	Drawing English I	2		2
Elective			2		<u> </u>
Liceti	_	_	<u>-</u>	_	_
Semes	ster 2 Sub-To	tal	17	3	20
Semes			11		20
	ulsory				
1	MATT	Mathematics for Environmental Engineering	2		2
2	LKT	Fluid Mechanics	3		3
3	LKT 203	Structure Knowledge	2		2
4	LKK 301	Environment Chemistry	2		2
5	LKK 302	Lab Practice for Environmental Chemistry		1	1
6	BIM 303	Environmental Microbiology	2		2
7	BIM 309	Lab Practice for Environmental Microbiology		1	1
8	LKD 303	Methods of Environmental Analysis Techniques	2		2
9	LKD 304	Lab Practice Methods of Environmental Analysis Techniques		1	1
10	LKB 204	Natural Resource Management	2		2
Electi	Elective (Maximum three courses)				
1	LKT 308	Environmental Remote Sensing	2		2
2	LKB 304	Watershed Management	2		2
3	LKB 311	Integrated Management of Coastal and Marine Areas	2		2
4	LKB 307	Marine Pollution and Its Control	2		2
Semester 3 Sub-Total			21	3	24
Semes	Semester 4				
Comp	ulsory				
36	MATT	Environmental Engineering Mathematics II	2		2
37	LKT 303	Soil Mechanics and Hydrogeology	2		2

38					
	LKT	Environmental Engineering Operations	3		3
		Unit			
39	LKT	Environmental		1	1
		Engineering Operations			
		Unit Practicum			
40	LKT	Environmental	3		3
		Engineering Process Unit			
41	LKT	Environmental		1	1
		Engineering Process Unit			
42	L KD 205	Practicum	2		2
42	LKB 205	Ecotoxicology	2		2
43	100	Environmental Statistics	2		2
44	MNP	Company and Organization	2		2
E1 4'	. 01	Management			
		m three courses)			
45	SII 307	Environmental Geographic	2		2
16	LKB 302	Information System	2		2
46		Biomonitoring			
47	LKT	Plumbing and Pump	2		2
48	LKT	Planning New and Renewable	2		2
40	LKI		2		2
		Energy			
Sama	stor 4 Sub To		22	2	24
	ster 4 Sub-To		22	2	24
5th se	emester		22	2	24
5th se	emester	otal		2	
5th se Comp 49	emester oulsory LKT 206	Drinking Water Supply System	22		2
5th se	emester	Drinking Water Supply System Lab Practice for Drinking		2	
5th se Comp 49 50	emester oulsory LKT 206 LKT	Drinking Water Supply System Lab Practice for Drinking Water Supply System	2		2
5th se Comp 49	emester oulsory LKT 206	Drinking Water Supply System Lab Practice for Drinking Water Supply System Wastewater Distribution			2
5th se Comp 49 50 51	emester bulsory LKT 206 LKT LKT	Drinking Water Supply System Lab Practice for Drinking Water Supply System Wastewater Distribution System	2	1	2 1 2
5th se Comp 49 50	emester oulsory LKT 206 LKT	Drinking Water Supply System Lab Practice for Drinking Water Supply System Wastewater Distribution System Lab Practice for	2		2
5th se Comp 49 50 51	emester bulsory LKT 206 LKT LKT	Drinking Water Supply System Lab Practice for Drinking Water Supply System Wastewater Distribution System Lab Practice for Wastewater Distribution	2	1	2 1 2
5th se Comp 49 50 51 52	emester bulsory LKT 206 LKT LKT LKT	Drinking Water Supply System Lab Practice for Drinking Water Supply System Wastewater Distribution System Lab Practice for Wastewater Distribution System Lab Practice for Wastewater Distribution System	2	1	2 1 2
5th see Comp 49 50 51 52	emester bulsory LKT 206 LKT LKT LKT LKT	Drinking Water Supply System Lab Practice for Drinking Water Supply System Wastewater Distribution System Lab Practice for Wastewater Distribution System Solid Waste Management	2	1	2 1 2 1
5th se Comp 49 50 51 52	emester bulsory LKT 206 LKT LKT LKT	Drinking Water Supply System Lab Practice for Drinking Water Supply System Wastewater Distribution System Lab Practice for Wastewater Distribution System Solid Waste Management Lab Practice Solid Waste	2	1	2 1 2
5th se Comp 49 50 51 52 53 54	emester bulsory LKT 206 LKT LKT LKT LKT LKT LKT	Drinking Water Supply System Lab Practice for Drinking Water Supply System Wastewater Distribution System Lab Practice for Wastewater Distribution System Solid Waste Management Lab Practice Solid Waste Management	2 2	1	2 1 2 1 2 1
5th see Comp 49 50 51 52	emester bulsory LKT 206 LKT LKT LKT LKT	Drinking Water Supply System Lab Practice for Drinking Water Supply System Wastewater Distribution System Lab Practice for Wastewater Distribution System Solid Waste Management Lab Practice Solid Waste Management Air Pollution Prevention	2	1	2 1 2 1
5th se Comp 49 50 51 52 53 54 55	LKT LKT LKT LKT LKT LKT LKT LKT	Drinking Water Supply System Lab Practice for Drinking Water Supply System Wastewater Distribution System Lab Practice for Wastewater Distribution System Solid Waste Management Lab Practice Solid Waste Management Air Pollution Prevention and Control	2 2 3	1	2 1 2 1 2 1 3
5th se Comp 49 50 51 52 53 54	emester bulsory LKT 206 LKT LKT LKT LKT LKT LKT	Drinking Water Supply System Lab Practice for Drinking Water Supply System Wastewater Distribution System Lab Practice for Wastewater Distribution System Solid Waste Management Lab Practice Solid Waste Management Air Pollution Prevention and Control Introduction to	2 2	1	2 1 2 1 2 1
5th see Comp 49 50 51 52 53 54 55	emester bulsory LKT 206 LKT LKT LKT LKT LKT LKT LKT LK	Drinking Water Supply System Lab Practice for Drinking Water Supply System Wastewater Distribution System Lab Practice for Wastewater Distribution System Solid Waste Management Lab Practice Solid Waste Management Air Pollution Prevention and Control Introduction to Environmental Documents	2 2 3 2	1	2 1 2 1 2 1 3
5th se Comp 49 50 51 52 53 54 55 56 57	emester bulsory LKT 206 LKT	Drinking Water Supply System Lab Practice for Drinking Water Supply System Wastewater Distribution System Lab Practice for Wastewater Distribution System Solid Waste Management Lab Practice Solid Waste Management Air Pollution Prevention and Control Introduction to Environmental Documents Research Methods	2 2 3	1	2 1 2 1 2 1 3
5th se Comp 49 50 51 52 53 54 55 56 57	emester bulsory LKT 206 LKT	Drinking Water Supply System Lab Practice for Drinking Water Supply System Wastewater Distribution System Lab Practice for Wastewater Distribution System Solid Waste Management Lab Practice Solid Waste Management Air Pollution Prevention and Control Introduction to Environmental Documents	2 2 3 2	1	2 1 2 1 2 1 3

58	LKT	City Territory and Spatial Planning	2		2
59	LKT	Environmental Bioremediation and Phytotechnology	2		2
60	LKT	Environmental Geotechnic	2		2
61	LKT	Conversion Engineering and Energy Efficiency	2		2
Seme	ster 5 Sub-To		21	3	24
6th se	mester				
Comp	oulsory				
62	LKT	Lab Practice for Drinking Water Treatment Building Planning	3		3
63	LKT	Lab Practice for Drinking Water Treatment Building Planning		1	1
64	LKT	Hazardous Waste Management	3		3
65	MNK 204	Project Management	2		2
66	KMK 201	Occupational Health and Safety	2		2
67	HKA 104	Environmental Law	2		2
68	LKT	Technopreneurship	2		2
Electi	ves (Maximu	m four courses)			
69	LKT	Environmental Management System	2		2
70	LKT	Life Cycle Analysis (LCA)	2		2
71	LKT	Landfill Planning	2		2
72	LKT	Environmental Sanitation Infrastructure	2		2
73	LKT	Environmental Drainage	2		2
Seme	ster 6 Sub-To	tal	22	1	23
7th se	mester				_
Comp	ulsory				
74	LKT	Wastewater Processing Building Planning	3		3
75	LKT	Lab Practice for Wastewater Processing Building Planning		1	1
76	TLC 301	Internship	3		3
77	KNT 401	Community Service	3		3
78	PNT 498	Thesis proposal	2		2
Electi	ve (8 credits)				
79	LKT	Industrial Waste Treatment	2		2
			2		2

81	LKT	Rehabilitation, Restoration and Environmental Conservation	2		2
82	LKT	Economics and Environmental valuation	2		2
~ 1			10		•
Sub-Total Semester 7			19	1	20
Seme	ester 8				
Must					
83	PNT 499	Thesis	6		6
Choi	ce (6 credits)				
84	LKT	Current Issues in Environmental Engineering	2		2
85	LKT	Environmental Engineering Materials Knowledge	2		2
86	MFI 202	Environmental Modeling	2		2
Semester 8 Sub-Total			12		12