

Module Handbook

Module Name	Environmental Chemistry				
Module Level	Higher Diploma				
Code, if applicable	VKT431				
The subtitle, if applicable	-				
Courses, if applicable	-				
Semester(s) in which the module is taught	4 th semester				
A person responsible for the module	Puji Kurniawati, M.Sc.				
Lecturer	Puji Kurniawati, M.Sc. Tri Esti Purbaningtias, M.Si.				
Language	Bahasa Indonesia				
Relation to curriculum	Compulsory				
Type of teaching, contact hours	Lectures: 100 min/week Structured Assignments/structured activities: 120 min/week Online Activity/individual study: 120 min/week				
Workload	Total Workload	91 hours; 2 CU			
		Face to face teaching	Structured activities	Independent study	Exam
	Hours	24	28	28	11
Credit Points	2 CU/3,4 ECTS				
Requirements according to the examination regulations	75% minimum requirements of attendance				
Recommended prerequisites	-				
Module objectives/intended learning outcomes	<p>PLO 5: Students can contribute to solving problems in the scope of their work.</p> <p>Subject LO:</p> <ol style="list-style-type: none"> Able to explain the transport of matter and energy between environmental components Able to analyze chemical aspects of environmental phenomena Be able to describe the relationship between pollutants and environmental toxicology Able to calculate and analyze the environmental quality index Able to apply basic green industry 				
Content	<ol style="list-style-type: none"> Transport of matter and energy Atmospheric chemistry Aquatic chemistry Geospheric chemistry Marine chemistry Environmental microbiology Environmental toxicology Environmental Quality Index Green Industry 				
Study and examination	Table Value Graduation				

requirements and forms of examination	A 80 A- 77.5 A/B 75 B+ 72.5 B 70 B- 67.5 B/C 65 C+ 62.5 C 60 C- 55 C/D 50 D+ 45 D 40 E 0
Media employed	Google classroom, youtube, zoom meeting, google form, google doc
Reading list	<ol style="list-style-type: none"> 1. Manahan, S. E., 2000, Environmental Science, Technology and Chemistry, Boca Raton: CRC Press LLC 2. Andrews, J.E., Brimblecombe, P., Jickells, T.D., Liss, P.S., Reid, B., 2004, An Introduction to Environmental Chemistry, Oxford, UK: Blackwell Publishing 3. Jones, J.C., 2008, Atmospheric Pollution, Ventus Publishing Aps 4. Potter, C., Soeparwadi, M., Gani., 1994, Limbah Cair Berbagai Industri di Indonesia (Sumber, Pengendalian dan Baku Mutu), Project of The Ministry State for Environment Republic of Indonesia and Dalhousie University Canada 5. Sastrawijaya, A.T., 2000, Pencemaran Lingkungan, Rineka Cipta 6. Templeton, M.R., Butler, D., 2011, Introduction to Waste Water Treatment, Ventus Publishing Aps0