ENVIRONMENTAL IMPACT ANALYSIS

Module designation	*Environmental Impact Analysis*
Semester(s) in which the module is taught	*1*
Person responsible for the module	1. Dr. apt. Riesta Primaharinastiti, M.Si. **(Course Coordinator)** 2. Prof. Dr. rer.nat. apt. M. Yuwono, MS
Language	*Bahasa Indonesia*
Relation to curriculum	*~~Compulsory / elective / specialisation~~*
Teaching methods	*lecture, discussion, assignment*
Workload (incl. contact hours, self-study hours)	*(Estimated) Total workload:* *Contact hours (structured activities.): 90,67 hours* *Private study including independent learning activites*: *90,67 hours*
Credit points	*2 SCU / 6 ECTS*
Required and recommended prerequisites for joining the module	*NA*
Module objectives/intended learning outcomes	Students are: LO1: Able to realize excellence based on religious morals (excellence with morality), able to work together, and show a responsible attitude to work in their field of expertise independently LO2: Able to internalize the spirit of independence, struggle, and entrepreneurship LO4: Able to develop a pharmaceutical professional performance with analytical acumen in solving pharmaceutical problems and managing research in the pharmaceutical field related to national and global systems and policies, both inter and inter-disciplinary approaches. LO5: Able to access and review information through an Information and Communication Technology (ICT) system, decide on a specific subject of study, maintain the feasibility of implementing research designs, conduct research, analyze data, conclude research results comprehensively, and create strategic issues based on the study that reflect the latest updates in the field of pharmaceutical sciences, and communicate them in the media and scientific forums at the national and international level through an interdisciplinary or multidisciplinary approach in the form of a thesis or other equivalent forms. LO15: Able to plan and organize concepts and procedures for quality assurance and recommendations on pharmaceutical products, which include drugs, cosmetics, foods, and beverages as products and therapeutic goods.

Content	The Environmental Impact Analysis course covers topics including: 1. Environmental and development issues 2. Environmental Protection and Management 3. Environmental Permit 4. Environmental Quality Standards (Water Quality Standards and Wastewater Quality Standards) 5. Understanding Significant Impacts, AMDAL and ANDAL 6. Various Methods: Impact Identification, Impact Forecasting and Impact Evaluation 7. Preparation of UKL and UPL 8. Preparation of Terms of Reference 9. Preparation of Amdal, RKL and RPL 10. Preparation of SPPL
Exams and assessment formats	*Final exam or take-home written assignments*
Study and examination requirements	*The final grade in the module is composed of 25% presentation 65% take-home assignments, 10% in-class participation and soft-skills assessment. Students must have a final grade of 70% or higher to pass*
Reading list	*1. UU RI No. 32 Tahun 2009 Tentang Perlindungan dan Pengelolaan Lingkungan Hidup* *2. Peraturan Pemerintah RI No. 101 Tahun 2014 Tentang Pengelolaan Limbah Bahan Berbahaya dan Beracun* *3. Peraturan Pemerintah RI No. 42 Tahun 2008 Tentang Pengelolaan Sumber Daya Air* *4. Peraturan Pemerintah RI No. 41 Tahun 1999 Tentang Pengendalian Pencemaran Udara* *5. Peraturan Pemerintah RI No. 12 Tahun 2010 Tentang Pelaksanaan Pengendalian Pencemaran Udara di Daerah* *6. Peraturan Pemerintah RI No. 27 Tahun 2012 Tentang Izin Lingkungan* *7. Peraturan Pemerintah RI No. 74 Tahun 2001Tentang Bahan Berbahaya dan Beracun* *8. Peraturan Menteri Negara Lingkungan Hidup RI No. 16 Tahun 2012 Tentang Pedoman Penyusunan Dokumen Lingkungan Hidup* *9. Peraturan Menteri Negara Lingkungan Hidup RI No. 5 Tahun 2012 Tentang Jenis Rencana Usaha atau Kegiatan Yang Wajib dilengkapi dengan AMDAL* *10. Permen LH No. 08 Tahun 2013 tentang Tata Laksana Penilaian dan Pemeriksaan Dokumen LH serta Penerbitan Izin Lingkungan* *11. Peraturan Menteri Negara Lingkungan Hidup RI No. 3 Tahun 2013 Tentang Audit Lingkungan Hidup* *12. Peraturan Menteri Negara Lingkungan Hidup RI No. 9 Tahun 2010 Tentang tata Cara Pengaduan dan Penanganan Pengaduan Akibat Dugaan Pencemaran dan/atau Perusakan Lingkungan Hidup*

13. *Permeneg LH RI No. 5 Tahun 2014 Tentang Baku Mutu Air Limbah*
14. *Canter L.W., and Hill L.G., 1979. Handbook of Variables for Environmental Impact Assessment. Ann Arbor Science Publishers, Inc., Michigan.*
15. *Davis ML, Cornwell DA, 1991. Introduction to Environmental Engineering*
16. *De AK, 1987. Environmental Chemistry, Wiley Eastern Ltd., New Delhi*
17. *Djajadiningrat S.T., Amir H.H., 1990. Penilaian Secara Cepat Sumber-sumber Pencemaran Air, Tanah dan Udara. Gadjah Mada University Press, Yogyakarta.*
18. *Hammer MJ, 1977. Water & waste water Technology, John Wiley & Sons, New York*
19. *Kevin Evans, 2016. Tujuan Pembangunan Berkelanjutan, Agenda Pembangunan Pacsa-2105, Kebakaran*
20. *Myller G.T., 1996. Living in The Environment. Principles, Connections, and Solutions. Ninth Edition. Wardsworth Publishing Company – An International Thomson Publishing Company, Belmont-Washington.*
21. *Manahan S.E., 1979. Environmental Chemistry, third Edition. Willard Grant Press, Boston, Massachusetts.*
22. *Rau J.G. and Wooten D.C. (Ed.), 1980. Environmental Impact Analyss Handbook. Mc Graw-Hill Book Company, New York –Toronto.*
23. *Sell NJ, 1981. Industrial Pollution Control Issues & Techniques. Van Nostrand Reinhold Co., New York*
24. *Soemarwoto O., 1988. Analisis Dampak Lingkungan. Gadjah Mada University Press, Yogyakarta.*
25. *Soeratmo G., 1988. Analisis Mengenai Dampak Lingkungan, Gadjah Mada University Press, Yogyakarta.*
26. *Tolgyessy J. 1993 Chemistry and Biology of Water, Air and Soil Environ. Aspects, Elsevier, Amsterdam*