

FORENSIC ANALYSIS

Module designation	<i>Forensic Analysis</i>
Semester(s) in which the module is taught	2
Person responsible for the module	1. Prof. Dr. apt. Djoko Agus Purwanto, M.Si(Course Coordinator) 2. Prof. Dr. rer.nat. apt. M. Yuwono, MS. 3. Dr. Magdalena Sri Handajani, M.Si., DFM
Language	<i>Bahasa Indonesia</i>
Relation to curriculum	<i>Compulsory / elective / specialisation</i>
Teaching methods	<i>lecture, discussion, assignment</i>
Workload (incl. contact hours, self-study hours)	<i>(Estimated) Total workload: Contact hours (structured activities.): 90,67 hours Private study including independent learning activities: 90,67 hours</i>
Credit points	<i>2 SCU / 6 ECTS</i>
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	This course describes topics about how to identify blood types, determine children's blood types, PCR analysis, electrophoresis, the use of endonuclease enzymes, the analysis of cyanide, carbon monoxide, drug and doping
Exams and assessment formats	<i>Final exam or take-home written assignments</i>

Study and examination requirements	<i>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</i>
Reading list	<ol style="list-style-type: none"> 1. <i>Anthony C. Moffat, M. David Osselton, and Brian Widdop, 2001. Clarke's Analysis of Drugs and Poisons, 4th ed., London: Pharmaceutical Press.</i> 2. <i>Kokate, C.K., and Gokhale, S.B., 2008. Text Book of Forensic Pharmacy. 1st ed., PharmaMed Press, Giriraj Lane, Sultan Bazar, Hyderabad - 500 095.</i> 3. <i>UNDANG-UNDANG REPUBLIK INDONESIA NOMOR 35 TAHUN 2009 TENTANG NARKOTIKA</i> 4. <i>UNDANG-UNDANG REPUBLIK INDONESIA NOMOR 5 TAHUN 1997 TENTANG PSIKOTROPIKA</i> 5. <i>Nelu Grinberg, Sonia Rodriquez (Editor), 2019. Ewing's Analytical Instrumentation Handbook, 4th edition, New York, CRC Press.</i> 6. <i>World Anti Doping Agency. Prohibited List. https://www.wada-ama.org</i> 7. <i>Detlef Thieme, Peter Hemmersbach (eds.), 2010, Doping in Sports: Biochemical Principles, Effects and Analysis, Berlin, Springer Verlag</i>