

Module Handbook

Module Name:	Forensic Chemistry
Module Level:	Bachelor
Abbreviation, if applicable:	KIA312
Sub-heading, if applicable:	-
Courses included in module, if applicable:	-
Semester/term:	6 th / Third Year
Module coordinator(s):	Imam Mukti
Lecturer(s):	-
Language:	Indonesia
Classification within curriculum	Elective Studies
Teaching format / class hours per week during semester:	2 hours lectures (50 min / hour)
Workload:	2 hours individual study, 2 hours lectures, 2 hours structure activity, 13 weeks per semester, and total 78 hours a semester~ 2.6 ECTS *
Credit Points:	2
Requirements:	Analytical Chemistry II and Biochemistry I
Learning Outcomes:	<p>General competence (Knowledge): To understand the concept of chemicals and analysis relating to the forensic field.</p> <p>Specific Competence:</p> <ol style="list-style-type: none"> 1. Ability to know and understand about forensic toxicology 2. Ability to elaborating about drugs 3. Ability to describe about forensic serology 4. Ability to elaborating on ballistic forensics 5. Ability to elaborating on documents and counterfeit money
Content:	Forensic toxicology, which includes poison gas, volatile matter, pharmaceuticals, metals and pesticide; drugs, including narcotics (marijuana, hashish, cocaine, opium, narcotic synthetic / semi-synthetic), drug / drug substance hazardous (class of depressants, stimulants, hallucinogens); forensic serology, which includes analysis of blood stains and stains secretions; ballistic forensics; documents and counterfeit money.
Soft skill	<ol style="list-style-type: none"> 1. Discipline 2. confidence 3. team work
Study/exam achievements:	<p>Student are considered to be competence and pass if at least get 55% of knowledge.</p> <p>Final score is calculated as follow: 20% Assignment, 10% softskill, 35% Middle Examination, and 35% Final Examination.</p> <p>Final index is defined as follow:</p> <p>75,00 – 100A 70,00 - 74,99 AB</p>

	65,00 – 69,99 B 60,00 – 64,99 BC 55,00 – 59,99 C 40,00 – 54,99 D 0,00 – 39,99 E
Learning Methods	<ul style="list-style-type: none"> - lecture - Discussion - assignment - Student Presentation
Forms of Media:	Slides and LCD projectors, whiteboards.
Literature:	<ol style="list-style-type: none"> 1. O' Hara, C.E. and Osterburg, J.W., 1965, <i>An Introduction to Criminalistic</i>, The Macmillan Company, New York 2. Sunshine, I., 1969, <i>Handbook of Analytical Toxicology</i>, The Chemical Rubber Co 3. Matsumura, F., 1975, <i>Toxicology of Insecticides</i>, Plenum Press, New York 4. Machly, A., and Stroberg, L., 1981, <i>Chemical Criminalistis</i>, Springer Verlag, New York 5. Osborn, A.S., 1954, <i>Questioned Document</i>, Boyd Printing Co., New York
Notes:	*Total ECTS = {(total hours workload x 50 min) / 60 min } / 25 hours Each ECTS is equals with 25 hours