

Module Handbook

Module Name:	Elementary Statistics (Practical)
Module Level:	Bachelor
Abbreviation, if applicable:	MAS 117
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/term:	2 nd / Second Year
Module coordinator(s):	Drs. Suliyanto, M.Si.
Lecturer(s):	Drs. Suliyanto, M.Si.
Language:	Bahasa Indonesia
Classification within the curriculum	Compulsory Course / Elective Studies
Teaching format / class hours per week during semester:	2 hours laboratory work (50 min / hours)
Workload:	2 hours doing worksheet and pretest preparation, 2 hours laboratory work, 2 hours group discussion, searching literature and writing report, 13 week per semester, and total 78 hours per semester ~ 2.6 ECTS *
Credit Points:	1
Requirements:	-
Learning goals/competencies:	<p>General Competence (skill): After following these subjects, students of the second semester of Chemistry Study Program can analyze data using statistical methods descriptive and inference with the help of Minitab software.</p> <p>Specific Competence:</p> <ol style="list-style-type: none"> 1. Determine the probability distribution and sampling 2. Determine the parameter estimation. 3. Testing the hypothesis 4. applying chi square analysis, analysis of variance One Direction 5. Analyze Correlation and Regression
Content:	The material covered in this course include: Descriptive Statistics, Introduction to Probability, Probability Distributions, Sampling Distribution, Parameter Estimation, Hypothesis Testing, statistics chi square test, One Way Variance Analysis, Correlation and Regression.
Soft skill	Honesty, discipline, submission of ideas, team-work, and be active
Study/exam achievements:	<p>Students are considered to be competent and pass if at least get 55% of maximum mark of the exams (UTS dan UAS), and structured activities (group discussion)</p> <p>Final score (NA) is calculated as follow: assignment (20%), softskill (10%), middle examination (UTS) (35%), final examination (UAS) (35%)</p> <p>Table Value Graduation</p>

	A: $100 > NA \geq 75$ AB: $74,9 \geq NA \geq 70$ B: $69,9 \geq NA \geq 65$ BC: $64,9 \geq NA \geq 60$ C: $59,9 \geq NA \geq 55$ D: $54,9 \geq NA \geq 40$ E: $39,9 \geq NA$
Learning Methods	Lecture, discussion, structured activities(individual)
Forms of Media:	Slides and LCD projectors, whiteboards
Literature:	<ol style="list-style-type: none"> 1. McClave, James T, and Terry Sincich, 2000. <i>Statistics</i>, Eighth Edition, Prentice Hall, New Jersey. 2. Rosner, Bernard, 1995. <i>Fundamentals of Biostatistics</i>, Fourth Edition, Wadsworth Company, Balmont California. 3. Walpole, RE,1995, <i>Pengantar Statistika</i>, Edisi III, Gramedia, Jakarta. 4. Walpole, RE& Myers, RH,1995, <i>Ilmu Peluang dan Statistika untuk Insinyur dan Ilmuwan</i>, Penerjemah : Sembiring, RK, Edisi IV, Penerbit ITB, Bandung.
Notes:	*Total ECTS = $\{(total\ hours\ workload\ x\ 50\ min) / 60\ min\} / 25\ hours$ Each ECTS is equals with 25 hours