Module Handbook

Module Name:	Mathematics/Statistics
Module Level:	Bachelor
Abbreviation, if applicable:	MAS105
Sub-heading, if applicable:	
Courses included in the module, if applicable:	
Semester/term:	1 / First year
Module coordinator(s):	Ir. Elly Ana, M.Si.
Lecturer(s):	Ir. Elly Ana, M.Si.
	Dr. Moh. Imam Utoyo, M.Si.
	Drs. Sediono, M.Si.
	Ahmadia, S.Si., M.Si
	M. Yusuf Syaifudin, S.Si., M.Si.
	Drs Suliyanto, M.Si.
	Dr. Nur Chamidah, S.Si., M.Si
	Abdulloh Jaelani, S.Si., MPd., MS.
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course/~~Elective Studies~~
Teaching format/class hours per week during the semester:	100 minutes lectures, 50 minutes tutorial, 13 lecture classes/semester
Workload:	Total 33 hours a semester
Credit Points:	3
Requirements:	
Learning goal/competencies:	Knowledge − To understand the concept of basic calculus; and basic concepts and principles in mathematics statistics.
	Skills − Discipline, honesty
	Competence − To understand and able to apply the concept of basic calculus and statistics to analyze and process data in the field of pharmacy.
Content:	Real number system, functions and graphs, limits and continuity, derivatives and its implementation, integral and its implementation, ordinary differential equations rate of one degree one and its implementation, statistical measures, introduction to probability, probability distributions, statistical inference, hypothesis testing, correlation and regression analysis
Study/exam achievements:	Student are considered to be competent and pass if at least get 50% of maximum mark of the exams based learning. Final score is calculated as follow : 50% Exam I + 50% Exam II Final index is defined as follow : A : ≥ 75

	AB : 70 – 74,9 B : 65 – 69,9 BC : 60 – 64,9 C : 55 – 59,9 D : 40 – 54,9 E : <40
Forms of Media:	Slides and LCD Projector, whiteboards.
Literature:	1. Bhattacharya, GK., Johnson, RA., 1977, *Statistic : Concepts and Methods*, Wiley, New York.
	2. Purcell, Edwin.J. dan Varbeg, Dale, 1999, *Kalkulus dan Geometri AnalitisJilid 1*, Edisi kelima, Erlangga, Jakarta.
	3. Stewart, J., 2001, *Kalkulus Jilid 1*, Edisi keempat, Erlangga, Jakarta.
	4. Stewart, J., 2003, *Kalkulus Jilid 2*, Edisi keempat, Erlangga, Jakarta.
	5. Walpole, RE., 1995, Pengantar Statistika, Edisi ketiga, Gramedia, Jakarta.
Notes:	