

Module 1 : Research Methodology and Biostatistics (3.6 ECTS/2CSU)

Research Methodology and Biostatistics	
Code/ Status	: MFK 601/Compulsory
Module level	: Master
Semester	: 1
Module Coordinators/ Lecturers	: Dibyو Pramono Erna Kristin Iwan Dwiprahasto
Language	: Indonesian
The format/class hours per week during the semester	: Classroom Lecture, Practice based Learning, 100 minutes/weekly and 16 weeks during the semester.
workload	: 100 minutes of in-class lectures, 120 minutes of structured activities, 120 minutes of weekly self-study
Credit points	: 3.6 ECTS/2 CSU
Requirements	: No
Learning goals/ Course Outcomes	: Students are able to make research outlines and proposals both observational and experimental (including: formulating hypotheses and research outlines, setting research instruments, determining research subjects and correct sampling methods), present research data, select the types of statistical analysis that fit the analysed data, and test the hypotheses with inferential statistical analysis.
Content	: This course deals with the principles of research including the formulation of hypotheses, research outlines, how to determine research instruments, determination of research subjects, methods of sampling, methods of data presentation and analysis, and how to write proposals and research reports.
Study/exam achievements	: A-E, 50% Midterm and 50% final exam
Forms of media	: Face to face instructions, Slides, Board, Internet
Literature	: 1.) Brown, T.R. and Smith, m.C., 1986, Handbook Of Institutional Pharmacy Practice 2nd Ed., Williams & Wilkins, Balitimore 2.) Gibaldi, J., 1999, MLA Handbook For Writers Of Research Papers., 5th Ed., The Modern Language Association Of America New York 3.) Mulyadi, 2001, Skripsi I (Metodologi Penelitian) Bagian Sampel, Data, Analisis Data, dan Penyusunan Laporan Penelitian, Buku Ajar Fakultas Farmasi UGM 4.) Nelson, A.A., 1980, Research Methods For Pharmaceutical Practice, Am., J. Hosp. Pharm., 37,107-110 5.) Pratiknya, A.W., 2003., Dasar-Dasara Metodologi Penelitian Kedokteran Dan Kesehatan, PT. Raja Grafindo Persada, jakarta. 6.) Scheffler, W.C., 1979, Statistika Untuk Biologi, Farmasi, Kedokteran, Dan Ilmu Yang Bertautan, Edisi Tejemahan : Suroso, Penerbit ITB, Bandung