Module Handbook

Module designation	Biostatistics II (course code MPB 2213)
Semester(s) in which the module is taught	3
Person responsible for the module	*Dr. Rafdinal, Irwan Lovadi, PhD, Dr. Dwi Gusmalawati, and Firman Saputra, MSc.*
Language	*Bahasa Indonesia*
Relation to curriculum	***Compulsory***
Teaching methods	*lecture*
Workload (incl. contact hours, self-study hours)	*(Estimated) Total workload:* *Lecture: 100 minutes x 16 = 1,600 minutes (27 hours)* *Self-directed study including examination preparation, specified in hours[1]: 180 minutes x 16 session = 2,880 minutes (48 hours)* *Contact hours (please specify whether lecture, exercise, laboratory session, etc.):* *lecture: Mondays, 07:30 – 09:30*
Credit points	*2 unit*
Required and recommended prerequisites for joining the module	*Biostatistics I (course code MPB 2112)*

[1] When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Module objectives/intended learning outcomes	***General skills**: Mastering and being able to apply biological science and other scientific fields that support the development of biological sciences* ***First specific skill**: Able to work in teams and communicate actively orally and in writing in the field of biological sciences* ***Second specific skills**: Mastering biological instruments and methodologies and being able to apply them in the management of tropical wetland resources*
Content	*The course exposes students to the basic knowledge required to principles of experimental design. Students will be acquainted with principles in developing experimental design, completely randomized designs, randomized block designs, split-unit designs and non-parametric statistics.*
Examination forms	*Written examinations and assignment*
Study and examination requirements	*Re-registration and 75% attendance.*
Reading list	*1) Clewer, A.G. dan Scarisbrick, D.H. (2001). Practical Statistics and Experimental Design for Plant and Crop Science. John Wiley & Sons Ltd.* *2) Hanafiah, K.A. (2004). Rancangan Percobaan. Teori dan Aplikasi (Ed. 3). Jakarta: Raja Grafindo Persada.* *3) Lazic, S. (2016). Experimental Design for Laboratory Biologists: Maximising Information and Improving Reproducibility. Cambridge: Cambridge University Press.*