Module designation	*Statistical Computing*
Semester(s) in which the module is taught	*5*
Person responsible for the module	*Retno Subekti, M.Sc.*
Language	*Bahasa Indonesia*
Relation to curriculum	*Elective course*
Teaching methods	*150 minutes lectures and 180 minutes structured activities per week.*
Workload (incl. contact hours, self-study hours)	*Total workload is 136 hours per semester which consists of 150 minutes lectures, 180 minutes structured activities, and 180 minutes self-study per week for 16 weeks.*
Credit points	*3*
Required and recommended prerequisites for joining the module	*MAT6307 - Algorithm and Programming*
Module objectives/intended learning outcomes	*CO1. Demonstrate collaborative attitude and independence in carrying out individual tasks and group assignments.* *CO2. Communicate ideas in solving mathematical problems in writing or verbally.* *CO3. Understand the regression concept in the analysis of the relationship of two variables such as simple linear regression and multiple linear regression* *CO4. Students are able to do a descriptive analysis and basic.inferential analysis using R Program,a free-license statistical software.*
Content	*This statistical computing subject contains an exploration of the use of the R program statistical software for statistical data analysis, both exploration analysis and confirmation analysis. Several analyzes which are discussed such as inference for two populations, ANOVA, regression, goodness of fit.*
Examination forms	*CO1: Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude.*

Study and examination requirements	*The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude.*

The final mark will be weight as follow:

No	CO	Assessment Object	Assessment Technique	Weight
1	CO2, CO3,CO4	a. Individual Assignment	Written	15%
		b. Group Assignment		10%
		c. Quiz		20%
		d. Mid-Term Examination		25%
		e. Final Examination		30%
		Total		100%

Reading list	*1. M. J. Crawley, 2005, Statistics: An Introduction using R, Imperial College London, UK. John Wiley & Sons, Ltd.*

2. W. N. Venables, D. M. Smith, and the R Development Core Team, 2015, An Introduction to R, Notes on R: A Programming Environment for Data Analysis and Graphics.

3. W. John Braun and Duncan J. Murdoch, 2007, A First Course in Statistical Programming with R, Cambridge University Press.

4. Verzani, John. 2005. Using R for Introductory Statistics. hapman& Hall/CRC Press