Module designation	*Queuing Theory*
Semester(s) in which the module is taught	*6*
Person responsible for the module	*Dr. Nikenasih Binatari S.Si., M.Si.*
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	*MAT6315 - Probability Theory*
Module objectives/intended learning outcomes	*After taking this course the students have ability to:* *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. Describe concepts and methods in queuing theory* *CO4. Applying concepts and methods in queuing theory*
Content	*This course discusses queuing system elements, arrival and departure process, queuing model, M / G / 1 system, Multiserver, the application of queuing theory.*
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	CO 1	a. Presentation b. Discussion	Observation	5% 10%
2	CO 2, CO 3, CO 4	a. Individual assignment b. Group assignment c. Quiz d. Midterm e. Final test	Written	10% 10% 20% 20% 25%
		Total		100%

Reading list	*1. Taha, Hamdy A. 1996. Riset Operasi Edisi kelima (terjemahan), Jilid 2. Jakarta :BinarupaAksara.* *2. Hillier/Lieberman. 2001. Introduction to Operation Research. Interactive e-text. The McGraw Hill Company.* *3. Saaty, Thomas L. 1961. Elements of Queueing Theory with applications. New York. Dover publications, Inc.* *4. Bunday, Brian D. (1996). An Introduction to Queueing Theory. New York :Johm Willey and Sons.* *5. Cooper, Robert B. 1981. Introduction to Queueing Theory Second Edition. New York. Elsevier North Holland., Inc.*