Description of Course Unit

Course unit title	Engineering Mathematics
Course unit code	VW 191901
Type of course unit (compulsory, optional)	compulsory
Level of course unit (according to EQF: first cycle Bachelor, second cycle Master)	first cycle Bachelor
Year of study when the course unit is delivered (if applicable)	
Semester/trimester when the course unit is delivered	1
Number of ECTS credits allocated	4,8
Name of lecturer(s)	Destri Susilaningrum and Iis Dewi Ratih
Learning outcomes of the course unit	 Students are able to explain and apply the concept of Sets and Real Number Systems and their applications Students are able to apply concept functions and limits in the fields of science and engineering Students are able to apply the concept of Differential / Derivatives in the field of science and engineering Students are able to apply integral concepts and apply them to the fields of science and engineering
Mode of delivery (face-to-face, distance learning)	Face to face
Prerequisites and co-requisites (if applicable)	
Course content	 Set Real number system Function Limit Derivatives Integrals
Recommended or required reading and other learning resources/tools	 Kreysig, E., Advance Engineering Mathematics, 10th edition, John Wiley & Sons, NY, 2011 Purcell, J, E, Rigdon, S., E., Calculus, 9-th edition, Prentice- Hall, New Jersey, 2006
Planned learning activities and teaching methods	Problem Based Learning, Blended Learning
Language of instruction	Indonesian Language
Assessment methods and criteria	Assignment, Quiz, Midterm Exam and Final Exam.