Course Code	TKEE165001
Course Name	Special Topics in Electrical Engineering
Course Instructors	Dyonisius Dony Ariananda; Adha Imam Cahyadi; I Wayan Mustika; Igi Ardianto
Course Type	Elective
Course Classification	Engineering Topics
Credit / Contact Hour per Week	3 / 150 minutes per Week
Course Description	Special topics in Electrical Engineering purposed to give a space about the significant and popular topics that relate to Electrical Engineering.
Prerequisites Courses	-
Covered Student Outcome	**Fundamental and Engineering Knowledge (a)** **Development of Engineering Solution (b)**

Learning Outcome	1. Students are able to understand specific problems in electrical engineering 2. Students are able to solve problems that relate to specific topics of electrical engineering. 3. Students are able to read the newest literature that relate to specific topics in electrical enginnering. 4. Students are able to find an example application related to specific topic in electrical engineering.
Topic	1. Review of Random Variables Theory: Discrete and Continuous Random Variables 2. Multiple Random Variables and Joint Probability Distribution 3. Multivariate Random Variables and Random Vectors, Correlation Matrix, Covariance Matrix 4. Random Process (Stochastic Process) 5. Markov Chain
Direct Asessment	

Direct Asessment Plan	**Measured Learning Outcome**
Presentation based on the given assignment	LO4
Mid-term Test	LO1,LO2
Final Term Test	LO2,LO3,LO4

Indirect Assesment	Questionnaire (EDOM)
References	