Course Code	TKIE164201
Course Name	Thesis and Oral Examination
Course Instructors	Instructor may varies
Course Type	Required
Course Classification	Engineering Topics
Credit / Contact Hour per Week	4
Course Description	Thesis and oral examination is a final course in the student's field of study as well as a defense of the thesis. The student should meet at least 10 sessions of thesis discussion before to go the oral examination. The department is required to post prominently the date, time, and place of the oral examination after the student fulfil the needs
Prerequisites Courses	Pass the entire required course.
Covered Student Outcome	**Engineering Design (c)** **Effective Communication (g)** **Professional and Ethical Responsibilities (i)** **Engineering Awareness and Society (j)** **Sustainable Learning (k)**

Learning Outcome	1. Students are able to deliver the engineering desing using technical oral presentation effectively. 2. Students are able to design engineering solution, considering multiple constraints 3. Students are able to design an experiment and use relevant data in their project. 4. Students are able to understand the impact of their design on the society and environment. 5. Students are able to use good ethical manners to answer the questions.
Topic	
Direct Assessment	

Direct Assessment Plan	**Measured Learning Outcome**
Thesis Review Examination	LO1-LO5
Oral Defense	LO1-LO5

Indirect Assessment	Questionnaire and direct communication
References	1. Daniel Meeroff , Frederick Bloetscher. 2015. Practical Concepts for Capstone Design Engineering. J. Ross Publishing 2. John K. Estell , Kenneth J. Reid. 2017. Engineering Design and the Product Life Cycle. Momentum Press. 3. Elizabeth Orwin , Patrick Little , Clive L. Dym. 2013. Engineering Design: A Project-Based Introduction, Fourth Edition. John Wiley & Sons