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| Course Code OGEE-591 | Course Title Thesis/Project | ECTS Credits 15 |
| Prerequisites Graduate status | Department Engineering | Semester Fall, Spring |
| Type of Course Elective | Field Oil, Gas and Energy Engineering | Language of Instruction English |
| Level of Course 2 nd Cycle | Lecturer(s) Research Supervisor | Year of Study 2 nd |
| Mode of Delivery Face-to-face | Work Placement N/A | Co-requisites None |

Objectives of the Course:

The main objectives of the course are to:

- Prepare graduate students organize and develop their idea into a research project
- Create a research environment in which graduate students can be creative and productive
- Explain methods and procedures followed during investigation and research of a technical topic in the field of engineering
- Prepare graduate students become competitive in a demanding technological research world
- Create the required skills and knowledge to effectively perform independent research under guidance and supervision
- Create technical writing skills that allow graduate students to compose their thesis, progress reports, and scientific articles based on engineering guidelines and practices
- Explain techniques and practices followed during technical oral presentations in front of an audience
- Present the Thesis work orally.

Learning Outcomes:

After completion of the course students are expected to be able to:

1. Demonstrate independent research abilities under guidance and supervision
2. Produce quality research work on advanced engineering topics
3. Demonstrate in-depth knowledge and expertise on the topics of research
4. Demonstrate technical writing and oral presentation skills
5. Write technical progress reports on their research work and a thesis

Course Contents:

Conduct research on an engineering topic under the guidance and supervision of the academic advisor. Research results will be documented in a technical report (Thesis) to be presented in front of the Graduate Committee before graduation.

Learning Activities and Teaching Methods:

Literature review, study of scientific journals and conference proceedings, attendance of seminars and technical talks

Assessment Methods:

Progress reports, thesis, oral presentation, published research work

Required Textbooks / Reading:

| Title | Author(s) | Publisher | Year | ISBN |
|-----------------------|--|-------------------------------------|-------------|---|
| The Elements of Style | W. Strunk, E. B. White, R. Angell | Longman, 4 th Edition | 1999 | 978-0205313426 |
| Giving a Talk | Frank R. Kschichang | University of Toronto | 2000 | Available at http://www.comm.utoronto.ca/frank/guide/guide0.html |