



<b>Course Code</b> ECE-591	<b>Course Title</b> Thesis Research	<b>Credits (ECTS)</b> 24
<b>Department</b> Engineering	<b>Semester</b> Fall, Spring	<b>Prerequisites</b> Graduate status
<b>Type of Course</b> Required	<b>Field</b> Engineering	<b>Language of Instruction</b> English
<b>Level of Course</b> 2 <sup>st</sup> Cycle	<b>Year of Study</b> 1 <sup>st</sup> and 2 <sup>nd</sup>	<b>Lecturer(s)</b> Research Supervisor
<b>Mode of Delivery</b> Face-to-face	<b>Work Placement</b> N/A	<b>Co-requisites</b> None

### **Objectives of the Course:**

<p>The main objectives of the course are to:</p> <ul style="list-style-type: none"><li>• Prepare graduate students organize and develop their idea into a research project</li><li>• Create a research environment in which graduate students can be creative and productive</li><li>• Explain methods and procedures followed during investigation and research of a technical topic in the field of engineering</li><li>• Prepare graduate students become competitive in a demanding technological research world</li><li>• Create the required skills and knowledge to effectively perform independent research under guidance and supervision</li><li>• Create technical writing skills that allow graduate students to compose their thesis, progress reports, and scientific articles based on engineering guidelines and practices</li><li>• Explain techniques and practices followed during technical oral presentations in front of an audience</li><li>• Present the Thesis Research orally.</li></ul>
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### **Learning Outcomes:**

<p>Upon completion of the course students are expected to:</p> <ul style="list-style-type: none"><li>• Demonstrate independent research abilities under guidance and supervision</li><li>• Produce quality research work on advanced engineering topics</li><li>• Demonstrate in-depth knowledge and expertise on the topics of research</li><li>• Demonstrate technical writing and oral presentation skills</li><li>• Write technical progress reports on their research work and a thesis</li></ul>
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### **Course Contents:**

<p>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.</p>
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### **Learning Activities and Teaching Methods:**

<p>Literature review, study of scientific journals and conference proceedings, attendance of seminars and technical talks</p>
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**Assessment Methods:**

Progress reports, thesis, oral presentation, published research work
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**Required Textbooks/Reading:**

<b>Authors</b>	<b>Title</b>	<b>Publisher</b>	<b>Year</b>	<b>ISBN</b>
W. Strunk, E. B. White, R. Angell	The Elements of Style	Longman, 4 <sup>th</sup> Edition	1999	978- 0205313426
Frank R. Kschichang	Giving a Talk	University of Toronto	2000	Available at <a href="http://www.com&lt;br/&gt;m.utoronto.ca/fr&lt;br/&gt;ank/guide/guide&lt;br/&gt;0.html">http://www.com m.utoronto.ca/fr ank/guide/guide 0.html</a>

**Recommended Textbooks/Reading:**

<b>Authors</b>	<b>Title</b>	<b>Publisher</b>	<b>Year</b>	<b>ISBN</b>