Course Syllabus

ECGI 491 Computer Engineering Project Seminar

Instructor: Dr. Pipatphon Lapamonpinyo, R234 Building#2, pipatphon.lap@mahidol.ac.th
Office hours: open-door policy and by appointment

Hours: Wednesday 12:00-13:50

Place: MUIC, Computer Lab 1409

Course Description: Developing oral and written communication skills; preparing students for training and cooperative education; a computer engineering or cooperative education proposal project; project approval; further research and implementation in the Computer Engineering Project

Course Objectives:
1. Be able to select a title and a main advisor for your senior project proposal.
2. Be able to effectively write your senior project proposal as a group of 2-3 people by using LaTeX.
   - Can write a well-structured senior project proposal.
   - Comprehensively understand and can effectively use LaTeX to write your senior project proposal.
3. Be able to clearly present your senior project proposal with a clear presentation slides/visuals.
   - Can make a clear presentation slides/visuals (for audiences who have and do not have knowledge in the same field).
   - Can clearly explain and clearly answer questions regarding to your senior project proposal.

Textbook: No textbook is required, but the following books and study materials may be useful:

1) **Suggested Materials**
   LaTeX:
   - Kottwitz, S. 2015. L*aTeX cookbook: over 90 hands-on recipes for quickly preparing LaTeX documents to solve various challenging tasks*. Quick answers to common problems. Birmingham: Packt Publishing.
   - Nambudiripad, K. B. M. 2014. *Latex for Beginners*. Alpha Science International.

   Writing Guidelines:
   - https://sites.google.com/site/egci492/thesiswriting?authuser=0
   - https://journals.ieeeauthorcenter.ieee.org/create-your-ieee-journal-article/create-the-text-of-your-article/structure-your-article/

2) **Other Resources**
   - *A simple guide to LaTeX* - Step by Step accessed March 22, 2023, at LaTeX-Tutorial.com at https://latex-tutorial.com/tutorials/.
   - *LaTeX Tutorial* - Javatpoint accessed March 22, 2023, at www.javatpoint.com at https://www.javatpoint.com/latex.
   - *LaTeX Tutorial: A Complete Guide* | Resurchify accessed March 22, 2023, at https://resurchify.com/latex_tutorial/latex_tutorial.php.
   - *Tutorials* accessed March 22, 2023, at https://www.overleaf.com/learn/latex/Tutorials.

Software:
- LaTeX: https://miktex.org/download
- Libraries/Packages: https://ctan.org/pkg
- Editors: #TexWorks: https://www.tug.org/texworks/, #Texstudio: https://www.texstudio.org/, #TeMaker: https://www.xm1math.net/texmaker/

Grading Policy:
- LaTeX Homework (25%)
- A title and a main advisor (2%)
- Assignments and Progress Reports (38%)
  - In-class Activities and Assignments
  - Progress Report
  - Proposal and Presentation Drafts
- A Final Senior Project Proposal (15%)
- A Final Presentation (15%)
- Attendance, participation, and behavior (5%)

Work submitted late may receive a penalty.

Plagiarism: Plagiarism is a serious offense, and it will not be tolerated; see university policy. All reviews, papers and any other submitted material will be checked through a plagiarism tool.

Attendance Policy: All students are required to attend the lectures/laboratories and be on time. If at any moment a student is to be absent, he/she should have discussed it with the instructor in advance.

Professional Conduct: Students are always expected to conduct themselves with the utmost respect towards the instructor and their fellow students. Cellphones are to be turned off.

Class Schedule:

W	Topics	Date	Notes	Point	Due
1	Introduction	Jan/07		-	-
2	How to write a good proposal	Jan/14	Install LaTeX Development Tools Summarize How to Write a Proposal	2 2	Jan/17
3	LaTeX (1)	Jan/21	**Submit Project Title & Main Advisor** Submit LaTex-HW#1	2 10	Jan/24
4	LaTeX (2)	Jan/28	Submit LaTexX-HW#2	10	Jan/31
5	LaTeX (3)	Feb/04	**Submit Progress Report#1** – Obj + Scopes Submit LaTeX-HW#3	2 5	Feb/07
6	Writing/Revising chapter 1	Feb/11	**Submit Progress Report#2** – CH1 **Submit Chapter 1**	2 5	Feb/14
7	Literature Review: Paper Presentation	Feb/18	**Submit Progress Report#3** – Revised CH1 Select & Present 1 Articles/Person (In-C)	2 5	Feb/21
8	Writing chapter 2 using LaTeX (1)	Feb/25	**Submit Progress Report#4** –CH2 Submit – CH2 (1st Draft)	2 3	Feb/28
9	Writing chapter 3 using LaTeX (1)	Mar/04	**Submit Progress Report#5** – CH3 Submit – CH3 (1st Draft)	2 3	Mar/07
10	Revise chapter 2-3 using LaTeX (2) Drafting proposal's presentation slides	Mar/11	Submit Presentation Slides – 1st Draft	3	Mar/14
11	Revised proposal's presentation slides Revise chapter 1-3 if required	Mar/18	**Submit Progress Report#6** – A Revising List* *For both Proposal & Presentation*	5	Mar/21
12	Project presentation Final Proposal Submission	Mar/25	**Submit Chapter1-3 Final** **Final Presentation + Q&A**	15 15	**In-Class**
	Attendance			5	
	Total			**100**	

Note:
- A progress report should summarize what you have discussed with your main advisor.
- A progress report needs to be officially signed by your main advisor.