University of Windsor
Faculty of Science
School of Computer Science

COMP-8730
Natural Language Processing & Understanding
Winter 2022

#	Title	Due Date	Grade Release Date
6	**10MT**	April 18, 2022	April 25, 2022, AoE

This course is research-oriented and project-driven in which a research project should be defined and completed in the field of NLP within one semester. The objectives of the research project are to provide graduate students with:

- An experience with research procedure, in general, and research in NLP, in particular.
- Hands-on experience with NLP.
- Advancing state of the art in NLP while passing a grad course.
- An opportunity to present a research outcome in an international computer science conference
- An opportunity to meet with scholars in the NLP community

In the research project, we propose a solution(s) to a problem by implementing an algorithm like a software project. However, there are differences in some respects. For instance, while a software project may implement an existing algorithm, a research project should propose and implement a *new* algorithm that improves or addresses a particular aspect of a problem that the current algorithms overlook. Roughly, a research project has the following milestones (phases):

1) Proposal
2) Literature Review
3) Proposed Method (Formal + Code)
4) Experiment (Evaluation)
5) Presentation (Paper + Talk)

In this course, a manual is prepared to guide the students through each milestone. The current manual is, however, about the progress report via a presentation and a talk for the entire milestones. Through this presentation and Q&A with the audience, we want to demonstrate our findings.

Presentation

You're given 10 minutes talk (10MT), followed by 2 minutes of Q&A. Your presentation should include the followings:

1) *What is this all about? What is the story?*
2) *Why should we stay and spend our precious time listening to your talk? Why should we care?*
3) *Who else tried to solve the problem in the past (old history if exist up to now)?*
4) *OK, why do you want to solve the problem that is already solved?!*
5) *Can you explain your solution at a high level?*

As seen, the above question were answered in our previous 3MT. However, we need to repeat them to remind the audience about the project! Then, we explain about the proposed solution and the results of experiments (could be early results). Specifically, you have to allocate 7-8 minutes of your talk about:

6) *What is the formal problem definition?*
7) *What are the details of the proposed method? What model? Why?*
   In this part, you explain your model's details like the architecture, the loss function, and the reason to choose this architecture.
8) *What is the testbed?*
   In this part, you have to *clearly* explain: a) Dataset, b) Baselines, c) Metrics, and 4) Evaluation Methodology (how the results show that a method is better or worse?)

9) *What are the results and findings?*
You have to wrap up your talk with the main results and findings of your project. You have to *clearly* say whether you are successful at achieving the research project goals.

Submission Guidelines

- The submission includes presentation slides and delivery of the talk.
- The talk should be delivered in class before the other classmates on the due date mentioned above.
- The talk can have many slides.
- Prior to the class, the presentation slide must be submitted to Blackboard in a pdf or ppt file, named COMP8730_Presentation_II_UWinId1_UWindId2.pdf

Marking Guidelines

Your talk will be marked based on its average ranking by the audience and the instructor. An online voting form has been prepared and should be submitted by the end of the day AoE. The video recording of the presentations will be available after class for better judgment.