

COMP-8730. Natural Language Processing and Understanding**Learning Outcomes**

Last Updated: December 29, 2020

PDC***

Learning Outcomes At the end of the course, the successful student will know and be able to:	Characteristics of a University of Windsor Graduate The University of Windsor graduate will have the ability to demonstrate:
<p>Explain natural language processing methods based on textual content for:</p> <ul style="list-style-type: none"> - text classification, - text summarization, - text clustering - sentiment analysis, - topic modelling, - query-based information retrieval - information extraction <p>and apply them to concrete, practical problems.</p>	A. the acquisition, application and integration of knowledge
<p>Define natural language processing methods based on textual content for solving:</p> <ul style="list-style-type: none"> - text classification, - text summarization, - text clustering - sentiment analysis, - topic modelling, - query-based information retrieval - information extraction <p>problems.</p>	B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)
<p>Solve practical ** problems by using and combining several natural language processing concepts or strategies.</p>	C. critical thinking and problem-solving skills
<p>Write coherently, concisely, and clearly in a range of formats and for a variety of audiences.</p>	D. literacy and numeracy skills
<p>Explain the societal, legal and ethical implications of natural language processing methods and solutions.</p>	E. responsible behaviour to self, others and society
<p>Present research work to computer science audiences and answer questions.</p>	F. interpersonal and communications skills
	G. teamwork, and personal and group leadership skills
<p>Design new natural language processing approaches.</p>	H. creativity and aesthetic appreciation
<p>Identify how good theoretical and practical knowledge of problems leads to efficient natural language processing and understanding solutions.</p>	I. the ability and desire for continuous learning