

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

Last Updated: December 29, 2020

PDC\*\*\*

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