CSC443 ADVANCED LANGUAGE TECHNOLOGIES

Learning Outcomes

- To gain an in-depth understanding in LT tools and techniques.
- To gain practical competence in an LT application area.

Content

Overview of key techniques for major LT areas; Overview of tools and platforms for LT. Building LT resources: Corpora, MRDs, Grammars; History, Computational Approaches, tools and techniques, challenges, State-of-the art, application areas for specific LT area: Machine Translation; Information Extraction; Information Retrieval; Summarization; Topic Modeling; Spelling; Automatic Speech Recognition; Text to Speech Synthesis; Project: A substantial LT application development in either Machine Translation, Information Extraction, Information Retrieval, Summarization, Topic modeling, Spelling, Automatic Speech Recognition, Text To Speech synthesis.

Pre-requisites

- CSC421 Introduction to Language Technologies
- CSC323 Machine Learning

Delivery

Lectures, Supervised Labs, Project.