AIDI 1001: CONVERSATIONAL ARTIFICIAL INTELLIGENCE

Course outlines are reviewed annually as part of continual quality improvement. This course was last updated for the effective term below.

Effective Term
Winter 2021

Full Course Title
Conversational Artificial Intelligence

Academic Level
Post Graduate

Subject Code
AIDI - PG Artifical Intelligence

Course Number
1001

Grade Mode
Numeric

PLAR Applicable
Yes

Total Hours
42

Course Description
Conversational Artificial Intelligence (AI) utilizes AI systems to automate communications in real time by interpreting intent and preparing a response. Students will gain hands-on experience configuring different conversational applications such as messaging applications, voice assistants and chatbots.

Course Content
- Algorithms for Language Modeling
- Fundamentals of Speech Recognition
- Basic Signal Processing for Speech Recognition
- Acoustic Modeling and Labeling
- Semantic Models and Information Retrieval
- Intents
- Chatbots
- Voice Assistant Applications
- Dialogflow

Course Evaluation

The passing grade for this course is 60%, evaluation is comprised of:
- Assignments 60%
- Test(s) 40%

Tests/examinations/assignments must be written/submitted at the time specified. Requests for adjustments to that schedule must be made before the test/exam/assignment date to the faculty member. Failure to do so will result in a mark of "0", unless an illness/ emergency can be proven with appropriate documentation at no cost to the College.

Academic Appeal
Students at Georgian College can appeal the following:
· A mark on an assignment, test, examination or work-integrated learning term
· Missing or incorrect assessment information on a grade report and/or transcript
· A charge of academic misconduct

Note: Students cannot appeal a final grade. It is the academic work that is appealable leading to the final grade i.e. final test, exam or assignment.
Refer to Academic Regulations 9.2 Academic Appeal for further details.

To graduate from graduate certificate level programs, a student must attain a minimum of 60% or a letter grade of P (Pass) or S (Satisfactory) in each course in each semester. The passing weighted average for promotion through each semester and to graduate is 60%.

Course Learning Outcomes

Upon successful completion of this course, the student has reliably demonstrated the ability to:

1. apply algorithms for language modeling, labeling and semantic understanding;

Evaluation

Introduced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

2. design a Voice User Interface (VUI);

Evaluation

Introduced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

3. apply natural language processing concepts to create a voice application;

Evaluation

Introduced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

4. create an AI-driven chatbot to interact with a user;

Evaluation

Introduced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

5. deploy a voice application to a voice assistant device.

Evaluation

Introduced
Assessed

Key: 30156