

Continuing Education and Training

with

GCIT

Less Training More Application

Visit our website

ceta.gcit.edu.bt



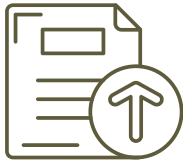
Natural Language Processing (NLP)

Dive into the world of Natural Language Processing with our specialized course, designed to equip you with the essential skills and knowledge to excel in this cutting-edge field. From mastering advanced algorithms to hands-on experience with libraries like Spacy and NLTK, this program covers all the fundamentals you need.



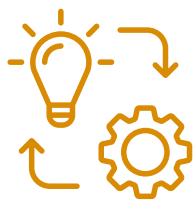
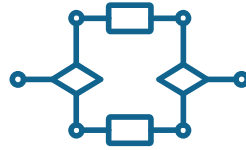
Learning **OUTCOME**

By the end of this course,
you will be able to:



Understand and apply different approaches to NLP tasks, and perform exercises in programming to understand the process of preparing datasets for NLP models.

Gain a solid understanding of how NLP works, explore the algorithms behind it, and develop the skills to effectively collect and refine data.



Learn to effectively use powerful NLP libraries like Spacy and NLTK, which are essential for performing a wide range of text processing tasks.

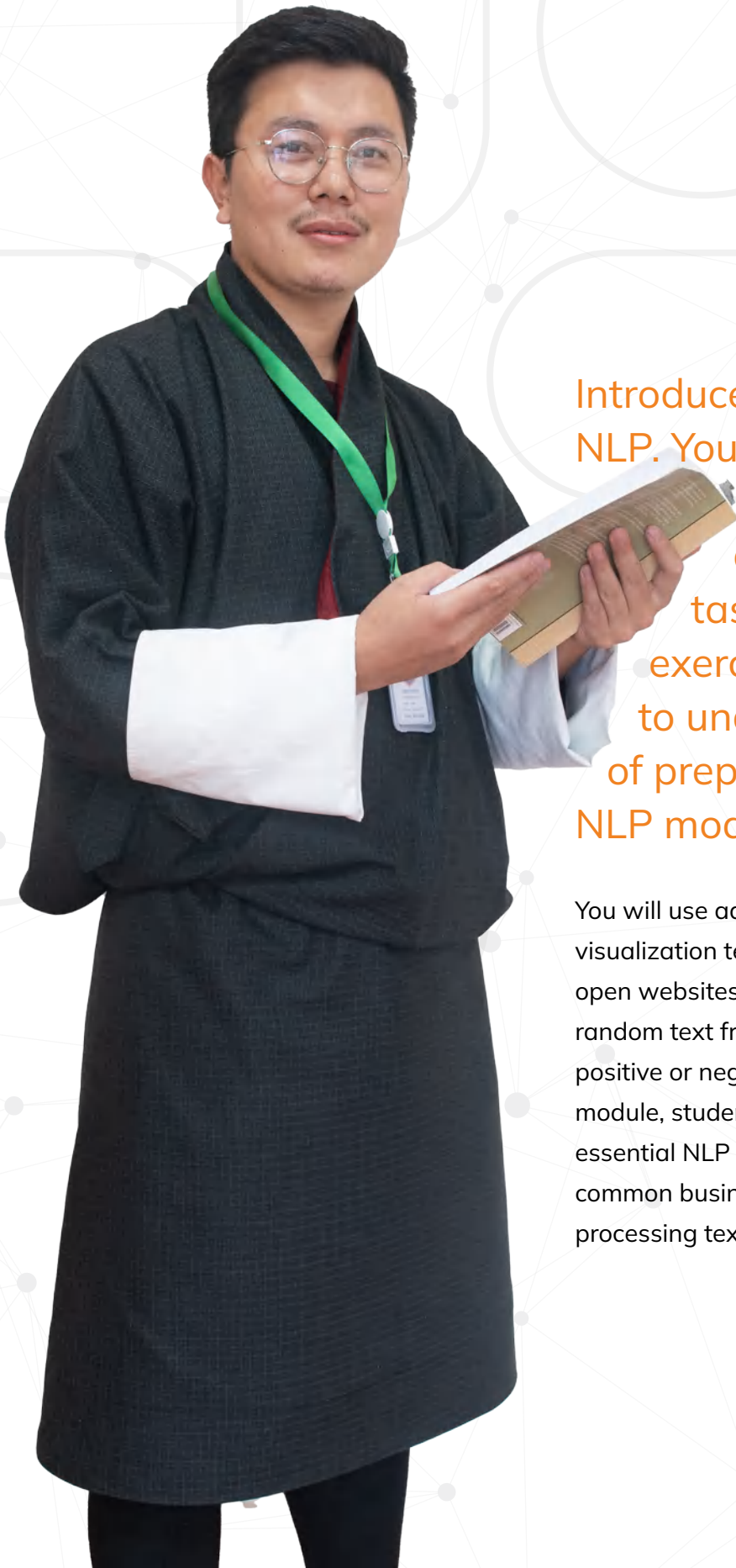


Course OBJECTIVE



Introduce the fundamentals of NLP. You will understand and apply different approaches to NLP tasks, and perform exercises in programming to understand the process of preparing datasets for NLP models.

You will use advanced NLP algorithms and visualization techniques to collect datasets from open websites, and to summarize and generate random text from a document, and detects positive or negative sentiment. By the end of this module, students will be equipped with the essential NLP tools and techniques to solve common business problems that involve processing text.



Course STRUCTURE



01
Introduction
to NLP



02
Processing
text for NLP



08
Chatbot



07
Topic
Modelling



03
Representation
of Language



06
Information
Extraction



04
Text
Classification



05
Sentimental
Analysis



Why This PROGRAM?

This program provides an in-depth and immersive educational experience, designed to cover all critical aspects of Natural Language Processing (NLP). It combines foundational theory with hands-on, practical learning, ensuring you gain the skills and knowledge needed to apply NLP techniques in real-world situations.

Whether you're starting out or looking to enhance your expertise, this program will equip you with the tools to understand key algorithms, use advanced libraries, and tackle complex NLP tasks. By the end, you'll be fully prepared to excel in the evolving field of NLP, ready to handle diverse challenges with confidence.



Things To **KNOW**

Prerequisite:



- Basic knowledge of Python programming is required, Understanding of fundamental concepts in data science or machine learning would be beneficial, though not mandatory.

Minimum computer requirements:



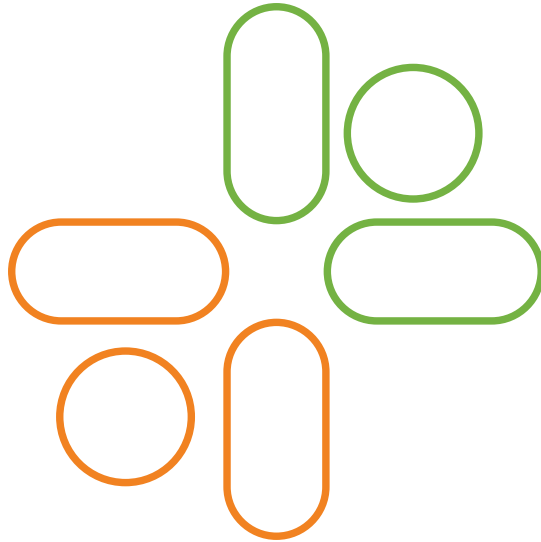
- Windows 10 / 11 Operating System or later version (**MAC OS is also supported**)
- Dual-Core CPU at 1.4 GHz or higher (Intel i4 / i6 or equivalent)
- 15 GB disk space available
- 64-bit Processor
- 8 GB RAM
- Microsoft 2010 or above
- Connection to Internet with Wi-Fi access

Class Information:



- Duration: 40 Hours
- Mode: Seminar / Face-to-Face






Capable. Elevated. Thriving.



ceta.gcit.edu.bt

 info.ceta@gcit.edu.bt

 +975 77 132 432

 Thimphu, Bhutan