



Jansons Institute of Technology

Karumathampatti, Coimbatore - 641 659
Approved by AICTE and Affiliated to Anna University
An ISO 9001:2015 certified institution

Department of Computer Science and Engineering

Industry Readiness Course - Syllabus

NLP Applications with Google AI and Dialog Flow

2020 - 2021 ODD Semester

Course Objectives:

- To interpret about the basics of NLP.
- To use Python Programming Approaches in NLP towards improving competency.
- To apply the perception of ChatBot methods and NLTK, NER research models from NLP.

Course Outcomes:

- To implement the impressions of NLP, Necessities and dissimilar parts of NLP.
- To apply Python Programming Tactics towards improving competency.
- To apply NLTK, NER research models in NLP towards getting insights of ChatBot approaches.

Syllabus:

Module 1 Introduction on NLP, Basics and different modules of NLP 10

Introduction to Natural Language Processing - History and software of NLP - Basic modules of Natural Language Processing Artificial Intelligence & its association with NLP - Multiple Components of NLP - Real Time Applications of NLP,

Module 2 Python & ML Approaches to NLP 10

Python Foundation & Fundamentals - Data Analysis with Python - Exploratory Data Analysis - Data Visualization - Machine Learning approaches to NLP - NLP using Python programming

Module 3 ChatBot and NLP Project & Phases, NLTK, NER 10

Google AI Introduction - Multiple Tools of Google AI - Chatbot Development - Creating your Own Chatbot - Training and Optimization of Chatbot - Hands-on with Chatbot tool - Google DialogFlow tool - Phases in Natural Language Processing - Simple Language Processing with the Natural Language ToolKit (NLTK) - Named Entity Recognition (NER)

Course Designed By

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