



**Theme**

**Learning Objectives**

1	What is AI?	This experiential session provides students with an overview of the ideas and concepts of Artificial Intelligence.
2	What is natural interaction between Intelligent machines & humans?	Learn to develop an intelligent Language Translator & understand its real world applications.
3	What are Conversational Agents?	Explore the interaction with conversational agents such as Alexa, Google Assistant or Siri and learn how to develop a simple conversational agent.
4	How does AI use data?	Explore how Machine Learning models and concepts help in decision making through data acquired over time using text as a basis.
5	What is Natural Language Processing (NLP) in AI?	Explore how computers understand natural human language. They will create an Intelligent machine that will analyse Text, Semantics and understand NLP concepts and its impact
6	Impact of AI on Society [Part 1]	Explore and discuss case studies and various scenarios where AI outperforms humans, and scenarios where it does not
7	What is Perception in AI?	Learn about Perception in AI and develop an AI programme that will detect a person's age and gender. Demonstrate how computers sense and perceive the world around them.
8	Can AI analyze human sentiment?	Learn to code and develop an AI program that will recognise the user's "Smile" score using sentiment analytical tools.
9	Can we teach AI to read?	Learn to code and develop an AI program that will read and recognise text using computer vision tools.
10	Can AI recognize human emotions?	Learn to code and develop an AI program that will use computer vision tools to read and recognise emotion.
11	What is Machine Learning in AI?	Learn to code and develop an AI program that will recognize objects. Students will explore and understand image classification using a computer vision tool and how machines require Labelled data to learn.
12	What is Bias in AI Algorithms and Data?	Explore and apply Case Study Methodology scenarios where AI behavior is influenced by bias and how bias affects AI decision making.
13 14	Capstone Projects	Design and work on two projects using the PBL {Project Based Learning Framework} that applies AI to solve a problem. Instructors will guide the students using the Design Thinking philosophy.