

**SYLLABUS FOR**

**ARTIFICIAL INTELLIGENCE (AI)**

# 1. SYLLABUS OVERVIEW

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Prerequisite: Engineering/Science Degree or equivalent

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| No | Topic | Objective | Duration |
| 1 | Overview | * AI vs Machine Learning vs Deep Learning * Data Scientist vs AI Engineer * AI trend today | 30 Minute,  Week 9 |
| 2 | Basic | * Machine Learning Lifecycle * Data as vector * Data Collection | 45 Minute,  Week 9 |
| 3 | Data Analysis | * Exploratory Data Analysis * Data Annotation | 30 Minute,  Week 9 |
| 4 | Learning I | * Type of Learning * Problem setting in Learning. * How machine “learn” * How much data is needed for machine learning | 45 Minute,  Week 10 |
| 3 | Learning II | * How good is your AI model? | 30 Minute,  Week 10 |
| 4 | Learning III | * Learning Algorithm * Interpretability vs flexibility of learning algorithms | 45 Minute,  Week 10 |
| 5 | Practical Session | | 90 Minute,  Week 11 |
| 6 | ML in Production | * Analytics Dashboard * Serverless AI * Edge AI * Model drift | 45 Minute,  Week 12 |

Table 1: Topic overview and its objective for AI teaching syllabus