



FORTNIGHTLY SYLLABUS PLANNING (2026-27)
CLASS XII
SUBJECT-ARTIFICIAL INTELLIGENCE (SUBJECT CODE - 843)

New Session begins on 2 nd March 2026				
S.no.	Duration	No. of Teaching Days	Theory	Practical/ Activity
1	1 st March – 15 th March	9	Unit 1: Python Programming – II	Import and Export Data between CSV Files and DataFrames ● Implement Linear Regression algorithm on Google Colab or any Python IDE
2	16 th March – 31 st March	11	Unit 1: Python Programming – II	
3	1 st April-15 th April	10	Unit 1: Python Programming – II	
4	16 th April- 30 th April	11	Unit 2: Data Science Methodology: An Analytic Approach to Capstone Project	Calculate MSE and RMSE values for the data given using MS Excel ● Calculate Precision, Recall, F1 score, and Accuracy from the given confusion matrix
Unit Test: 23rd April – 30th April 26				
5	1 st May- 15 th May	10	Unit 2: Data Science Methodology: An Analytic Approach to Capstone Project	
6	16 th May-31 st May	5	Unit 3: Making Machines See	Binary Art - Recreating Images with 0s and 1s ● Creating a Website Containing an ML Mode
Summer Vacations:25th May – 30th June 26				
7	1 st July- 15 th July	11	Unit 3: Making Machines See	
8	16 th July-31 st July	12	Unit 5: Introduction to Big Data and Data Analytics	Performing Big Data analytics with Orange Data mining tool.
Periodic Test-1: 31st July – 7th August 26				
9	1 st Aug- 15 th Aug	10	Unit 5: Introduction to Big Data and Data Analytics	
10	16 th Aug- 31 st Aug	9	Unit 6: Understanding Neural Networks	Explore Machine Learning for Kids to create a neural network for identifying animals and birds. ● Build a TensorFlow model to convert Celsius to Fahrenheit (*to be evaluated in practicals only) ● Use Python Keras to create and train a neural network predicting Fahrenheit from Celsius. (**For Advanced Learners) ● Classification problem using TensorFlow playground
Syllabus Completion for Mid Term Examinations: 31st Aug 2026				
Practicals for Mid Term Examinations: 7th Sept – 11th Sept 26				
11	1 st Sept-15 th Sept	8	REVISION	
Mid Term Examinations: 14th Sept- 25th Sept 26				

12	16 th Sept – 30 th Sept	3	Unit 6: Understanding Neural Networks	
13	1 st Oct- 15 th Oct	10	Unit 7: Generative AI	Signing up for Canva Activity. <ul style="list-style-type: none"> • Animaker's AI Video Generation tool. • Use Google Gemini to craft prompts and generate text outputs. • Explore ChatGPT for conversational text generation and creative tasks. • Write Python code to initialize the Gemini API and create a chat bot.
Autumn Break- 17th Oct – 20th Oct 26				
14	16 th Oct-31 st Oct	8	Unit 8: Data Storytelling	
15	1 st Nov -15 th Nov	7	Unit 4: AI with Orange Data Mining Tool*	Load and visualize the Iris dataset using Scatter Plot and other widgets. <ul style="list-style-type: none"> • Use classification widgets • Evaluating the Classification Model with Orange • Computer Vision with Orange • Natural Language Processing with Orange
Syllabus Completion: 6th Nov 26				
Diwali Break : 7th Nov – 11th Nov 26				
Pre Board 1 Examination: 18th Nov – 30th Nov 26				
Practicals for Pre Board 2: 1st Dec – 4th Dec 26				
Pre Board 2 Examination: 11th Dec – 23rd Dec 26				
Winter Break- 28th Dec - 8th Jan 27				

SYLLABUS FOR ASSESSMENT

Exam	Test Date	Syllabus
UNIT TEST	29 Apr	Unit-1
PERIODIC TEST 1	5 Aug	Unit-1,2,3
MID TERM EXAMINATION	21 Sep	Unit-1,2,3,5
PRE BOARD 1 EXAMINATION	7 Dec	FULL SYLLABUS
PRE BOARD 2 EXAMINATION	30 Nov	FULL SYLLABUS