Class – X			Subject – Artificial Intelligence		
S. No	Month	No of Working Days	Name of the Chapter/Topic to be Covered		
			Part-A Employabilit y Skills	Communication Skills-II	
1	APRIL / MAY	23	Part-B Subjective Skills Unit -1-Revisiting AI Project Cycle & Ethical Frameworks for AI Part-B Subjective Skills Unit 2. Advanced concepts of Modeling in	<ul> <li>1.1 Al Project Cycle</li> <li>The overview of the six stages of the Al Project Cycle</li> <li>1.2 Introduction to Al Domains</li> <li>The three domains of Al and their applications</li> <li>1.3 Ethical Frameworks of Al</li> <li>2.1 Revisiting Al, ML and DL</li> <li>Frameworks</li> <li>Ethical frameworks</li> <li>Need of Ethical Frameworks for Al</li> <li>Factors that influence our decision- making</li> <li>Types of Ethical Frameworks</li> <li>Bioethics and its principles</li> <li>A use case of Bioethics</li> </ul>	
3	JUNE	8	AI	Differentiate between AI, ML and DL Common terminologies used with data 2.2 Modelling Types of AI models –Rule based, Learning based Categories of Machine learning based models – Supervised, Unsupervised and Reinforcement learning models Sub-categories of Supervised Learning Model – Classification, Regression Sub-categories of Unsupervised Learning Model – Clustering, Association 2.3 Neural Networks What is neural network? How does AI make a decision?	
4	JULY	25	Part-A Employabilit y Skills	Self-management Skills-II	

			Part-B Subjective Skills Unit 3: Evaluating Models	<ul> <li>3.1 Importance of Model Evaluation What is evaluation?</li> <li>Why do we need a model evaluation?</li> <li>3.2 Splitting the training set data for Evaluation</li> <li>What is Train-test split?</li> <li>Why do we need to do Train- test split?</li> <li>3.3 What is Accuracy and Error?</li> <li>Accuracy Error</li> <li>3.4 Evaluation metrics for classification</li> <li>What is Classification?</li> <li>Classification metrics</li> <li>Confusion matrix</li> <li>Accuracy from Confusion matrix</li> <li>Precision from Confusion matrix</li> <li>F1 Score</li> <li>3.5 Ethical concerns around model evaluation</li> <li>Bias</li> <li>Transparency Accountability</li> </ul>
5	AUGUST	23	Part-A Employabilit y Skills Part-B Subjective Skills Unit 4: Statistical Data	Information and Communication Technology Skills - II 4.1 No code AI for Statistical Data Meaning of No-Code AI No-Code and Low-Code. Some no-code tools 4.2 Statistical Data: Use Case Walk through Important concepts in Statistics. Orange data mining AI project cycle in Orange data mining (Palmer penguins case study)
6	SEPTEMBE R	24	Part-A Employabilit y Skills Part-B Subjective Skills Unit 5: Computer Vision	Entrepreneurial Skills- II 5.1 Introduction to Computer Vision CV open-source tool A Quick overview of computer vision Computer Vision and Artificial Intelligence Computer Vision v/s Image Processing

5.2 Applications of CV
Facial Recognition
Face Filters
Google Search by Image
Computer Vision in retail
Self-Driving cars
Medical Imaging
Google Translate App
5.3 Computer Vision Tasks
Classification
Classification + Localisation
Object Detection
Image Segmentation
Basics of Images and Pixels
Resolution & Pixel Value
Grayscale & RGB Images
Classification
Classification + Localisation
Object Detection
Image Segmentation
Basics of Images and Pixels
Resolution & Pixel Value
Grayscale & RGB Images
5.4 No-Code AI tools
Introduction to Lobe
Teachable Machine
Smart Sorter Activity
Orange Data Mining Tool
Use Case Walkthrough
Steps to project development
5.5 Image Features
Introduction to image features
Examples
Conclusion
5.6 Convolution
Convolution
What is Kernel?
5.7 Convolution Neural Network
Introduction
Convolution Layer
Rectified Linear Unit
Pooling Layer
Fully Connected Layer

7	OCTOBER	20	Part-A Employabilit y Skills Part-B Subjective Skills Unit-6 Natural Language Processing Unit-7 Advance Python	5.8 Python libraries in Computer Vision TensorFlow KerasOpenCV Applications of OpenCVGreen Skills- II6.1 Introduction to NLP Features of natural language Computer language Importance of NLP6.2 Applications of Natural Language Processing Voice Assistants Autogenerated captions Language translation Sentiment analysis Text classification Keyword extraction6.3 Stages of Natural Language Processing (NLP) Lexical Analysis Syntactic Analysis Semantic Analysis6.4 Chatbots Differences between a Script bot and a Smart bot6.5 Text Processing Text Normalisation Bag of words TFIDF6.6 Natural Language Processing Course Integration Pragmatic AnalysisDifferences between a Script bot and a Smart bot6.5 Text Processing Text Normalisation Bag of words TFIDF6.6 Natural Language Processing: Use Case Walkthrough Examples of code and no-code tools Applications of Sentiment Analysis Sentiment Analysis using the Orange Data Mining tool
8	NOVEMBER	23		Advance Python
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9	DECEMBER	18	REVISION	
10	FEBURARY	23	REVISION	
11	JANUARY	24	REVISION	

12	MARCH	23	BOARD EXAM		
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CLASS-XI	SUBJECT-ENGLISH