Annual & Weekly Syllabus Split-Up - 2026-27

Grade X

Subject: Artificial Intelligence

S.No	Month	No. of Working Days		No. of Days	Topic	Sub Topic	Teaching Aids/Resources	Classroom teaching Video Link	Activities	Art Integrated project	Pedagogy Process/Teaching Strategy	Chapterwise Notes link	Assessment
1	APRIL	25	Week 1	3	1. Revisiting AI Project Cycle & Ethical Frameworks for AI	Introduction to AI, AI project Cycle, Modeling in AI Revisiting AI, ML, DL	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	https://www.youtube.com/watch?v=rBIQjMACZSs	Types of AI Models : Rule based, Learning based	**Flow-chart Sculptures:** Using recycled materials to build a 3D cycle.	Case-Study Based Learning	https://drive.google.com/drive/folders/122ZZb2MeM9cByxlOEEU-YQkqNxJA6Wck?usp=drive_link	Oral Assessment
			Week 2	3	1. Revisiting AI Project Cycle & Ethical Frameworks for AI	Artificial Neural network	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	https://www.youtube.com/watch?v=tJGP1jAn1Ug&list=PLKlYf50QXe9AA1_v3SOMP2pDz3pZSt1Ym	https://playground.tensorflow.org			https://drive.google.com/drive/folders/122ZZb2MeM9cByxlOEEU-YQkqNxJA6Wck?usp=drive_link	
			Week 3	3	1.Communication Skills	Communication, Communication Cycle, Effective communication, Impact of Body language	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	https://www.youtube.com/watch?v=BDvYmtjVIaA		The Mime of Non-Verbal Cues" (Performing Arts):	Experiential Learning	https://drive.google.com/drive/folders/122ZZb2MeM9cByxlOEEU-YQkqNxJA6Wck?usp=drive_link	Presentation
			Week 4										
			Week 5		**Mid April Test**								
2	JUNE	20	Week 1	0									
			Week 2	3	2. Advance Concepts of Modelling in AI	AI, ML and DL, Modelling, AI role in Decision Making,	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	https://www.youtube.com/watch?v=_k4fjzhBI14	https://playground.tensorflow.org/	Story Illustration	Case Study Discussion (Real-World ML Examples)	https://drive.google.com/drive/folders/122ZZb2MeM9cByxlOEEU-YQkqNxJA6Wck?usp=drive_link	Oral Assessment
			Week 3	3	3. Evaluating Models	Importance of Model Evaluation, Understand train test split method for evaluating the performance of a machine learning algorithm Understand accuracy and error for effectively evaluating and improving AI models	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	https://www.youtube.com/watch?v=opeEhBef5Q4	Group Discussion	Poster Making – "AI Model Evaluation Metrics"	Experiential + Activity-Based Learning	https://drive.google.com/drive/folders/122ZZb2MeM9cByxlOEEU-YQkqNxJA6Wck?usp=drive_link	Class Activities & Oral Quiz
			Week 4	3	3. Evaluating Models	Learn about the different types of evaluation techniques in AI, such as accuracy, precision, recall and F1 score and their significance, Advance Concepts of Modelling in AI, Evaluating Models, Self Management Skills	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos		Group Discussion				
			Week 5	3	2. Self Management Skills	Barriers in Communication, 7Cs of effective communication	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	https://www.youtube.com/watch?v=jvXBBmg6-kc	Presentation			https://drive.google.com/drive/folders/122ZZb2MeM9cByxlOEEU-	
3	JULY	27	Week 1		**Periodic Test 1**								
			Week 2	3	4. Statistical Data	Introduction & No Code AI tool	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	https://www.youtube.com/watch?v=W	Orange Data Mining Tool https://orangedatamining.com/download/	Data Visualization Poster	Activity-Based + Experiential Learning	https://drive.google.com/drive/folders/122ZZb2MeM9cByxlOEEU-	Class Activities & Oral Quiz
			Week 3	3	4. Statistical Data	Statistical Data : Use case walk through, Important concepts in Statistics	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos		MS excel for statistical analysis, case study using Orange data Mining				
			Week 4	3	ICT Skills	Comp System, Operating System, File, Folder, Cretaing and Managing File & Folders, Comp care &	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	https://www.youtube.com/watch?v=5pedDbbB8PA			Group Discussion	https://drive.google.com/drive/folders/122ZZb2MeM9cByxlOEEU-	Worksheet / Written Assessment
			Week 5		**Pre Mid Term Exam**								
4	AUGUST	24	Week 1	3	5. Computer Vision	Comp Vision, Application of Comp Vision, Difference between Comp and Human Vision, Tasks	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	https://www.youtube.com/watch?v=Fyu_pw_gW3A	Demo of the procedures to be followed for cleaning, care and maintenance of hardware	Poster – "Human Vision vs Computer Vision"	Visual + Activity-Based + Demonstration Learning	https://drive.google.com/drive/folders/122ZZb2MeM9cByxlOEEU-	Class Activities & Oral Quiz
			Week 2	3	5. Computer Vision	Pixels, basics of Images, Image Features, How do Comp see Images, Introducing Open CV	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	https://www.youtube.com/watch?v=j_8qxWxvatE&t=10s	Understand CV concepts, Emoji Scavenger Hunt, RGB calculator	Pixel Art Activity			
			Week 3	3	5. Computer Vision	Image Processing Operations, Convolution Operator, Neural network, Convolutional Neural network	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos		https://www.w3schools.com/colors/colors_rgb.asp				
			Week 4	3	Revision	All chapters							
			Week 5										
5	SEPTEMBER	23	Week 1	5	**Term 1**								
			Week 2	6									
			Week 3	3	Natural Language Processing	NLP, Process involved in NLP, Applications of NLP, Revisiting AI project Cycle,	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	https://www.youtube.com/watch?v=kUMO1-HTlWA	Introduction to NLP : Use of Google Translate for same spelling words, https://cloud.google.com/natural-language	Flowchart Poster – "How NLP Works"	Interactive + Real-Life + Activity-Based Learning	https://drive.google.com/drive/folders/122ZZb2MeM9cByxlOEEU-YQkqNxJA6Wck?usp=drive_link	Class Activities & Oral Quiz
			Week 4	3	Natural Language Processing	ChatBots, Types of ChatBots, Human Language Vs Comp Language, Data Processing, Techniques of	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos			Role Play – "Human vs Computer Language"			
			Week 5	3	Advance Python	Understand to work with jupyter notebook, creating virtual environments, installing Python packages	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	https://www.youtube.com/watch?v=AHAgTw691vo	Jupyter Notebook, Introduction to Python	Poster – "Python Basics"	Demonstration + Practice-Based Learning	https://drive.google.com/drive/folders/122ZZb2MeM9cByxlOEEU-	Worksheet / Written Assessment
6	OCTOBER	25	Week 1	3	Advance Python	Able to write basic python programs using fundamental concepts such as variables, data types,	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos		Python basics, built in functions	Flowchart Drawing – "Python Program Flow"			
			Week 2	3	Entrepreneurial Skills	Entrepreneurship and Society, Work done by an entrepreneur, Qualities and Functions of an	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	https://www.youtube.com/watch?v=kJdBhyevqjw	Writing a note on entrepreneurship as career option	Role Play -" Qualities of Enterpreneur"	Group Discussion	https://drive.google.com/drive/folders/122ZZb2MeM9cByxlOEEU-	Class Activities & Oral Quiz
			Week 3	3	Entrepreneurial Skills	Role and Importance of Entrepreneur, Myths about entrepreneur, Entrepreneurship as a career option	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos		Listing the entrepreneurial qualities				
			Week 4	3	Green Skills	Sustainable Development ; Importance, Problems and challenges, Green skills, Sustainable development	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	https://www.youtube.com/watch?v=JUgKr-zTEtk	Identify the problem related to sustainable development in the community		Group Discussion	https://drive.google.com/drive/folders/122ZZb2MeM9cByxlOEEU-	Class Activities & Oral Quiz
			Week 5										
7	NOVEMBER	12	Week 1										
			Week 2										
			Week 3										
			Week 4		**PB 1**								
			Week 5										

8	DECEMBER	21	Week 1											
			Week 2		**PB 2**									
			Week 3											
			Week 4		**Practice Test**									
			Week 5											
9	JANUARY	22	Week 1											
			Week 2		**PB 3**									
			Week 3											
			Week 4											
			Week 5											
10	FEBRUARY	23	Week 1											
			Week 2											
			Week 3		**Annual Exam**									
			Week 4											
			Week 5											
11	MARCH	17	Week 1		**Annual Exam**									
			Week 2											
			Week 3											
			Week 4											
			Week 5											