Artificial Intelligence Annual & Weekly Syllabus Split-Up - 2025-26
Grade X

S.No	Month	No. of Working Days		No. of Days	Topic	Sub Topic	Resources	Activity/Practical	Mid April Test	Periodic Test 1	Pre Mid Term	Mid Term	Pre Board/Periodic Test 2	Post Midterm	Annual
1	MARCH		Week 1												
			Week 2	6											
			Week 3	5											
			Week 4	6											
			Week 5	6											
2	APRIL	23	Week 1	5	Advanced concepts of Modeling in AI	Revisiting AI, ML, DL	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	Types of AI Models : Rule based, Learning based	✓			✓	✓	✓	
					Advanced concepts of Modeling in AI	Artificial Neural network	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	https://playground.tensorflow.org	✓			✓	✓	✓	
			Week 2	5	Revisiting AI Project Cycle & Ethical Frameworks for AI	AI Project Cycle	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	The three domains of AI and their applications	✓			✓	✓	✓	
					Revision	Introduction to AI, AI project Cycle, Modeling in AI	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos								
			Week 3	4	**Mid April Test**	**15 April to 22 April 2025**			**Mid April Test**						
			Week 4	6	Communication Skills	Communication, Communication Cycle, Effective communication, Impact of Body language	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	Applying measures to overcome barriers in communication, Constructing sentences that convey all facts required by the receiver		✓		✓	✓	✓	
			Week 5	3	Communication Skills	Barriers in Communication, 7Cs of effective communication	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos			✓		✓	✓	✓	
3	JUNE	19	Week 1	0						✓		✓	✓	✓	
			Week 2	6	Evaluating Models	Importance of Model Evaluation, Understand train test split method for evaluating the performance of a machine learning algorithm	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	Need of model evaluation		✓		✓	✓	✓	
			Week 3	6	Evaluating Models	Understand accuracy and error for effectively evaluating and improving AI models	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	Find the accuracy of the AI Model		✓		✓	✓	✓	
			Week 4	6	Evaluating Models	Learn about the different types of evaluation techniques in AI, such as accuracy, precision, recall and F1 score and their significance	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	Decide the appropriate metric to evaluate the AI model		✓		✓	✓	✓	
			Week 5	1	Self Management Skills	Stress, Stress causing agents, Stress management Techniques, Working independently, Self-Reliant	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	Demonstration on working independently, Planning of an activity		✓		✓	✓	✓	
4	JULY	27	Week 1	5	**Periodic Test 1**	**30 June to 7 July 2025**				**Periodic Test-01**					
			Week 2	6	Statistical Data	Introduction & No Code AI tool	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	Orange Data Mining Tool https://orangedatamining.com/download/			✓	✓	✓	✓	
			Week 3	6	Statistical Data	Statistical Data : Use case walk through	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	MS excel for statistical analysis, case study using Orange data Mining			✓	✓	✓	✓	
			Week 4	6	Statistical Data	Important concepts in Statistics	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos				✓	✓	✓	✓	
			Week 5	4	ICT Skills	Comp System, Operating System, File, Folder, Cretaing and Managing File & Folders, Comp care & maintenance	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	Identification of task bar, icons, menu etc.,			✓	✓	✓	✓	
5	AUGUST	23	Week 1	2	**Pre Mid Term Exam**	**1 Aug to 8 Aug 2025**					**Pre Mid Term Exam**				
			Week 2	5	ICT Skills	Cleaning Comp Components, Backup of your data, Increasing comp performance, Removing Spam Email, Protecting comp against viruses, Temp Files	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	Demo of the procedures to be followed for cleaning, care and maintenance of hardware and software				✓	✓	✓	
			Week 3	5	Computer Vision	Comp Vision, Application of Comp Vision, Difference between Comp and Human Vision, Tasks in Comp Vision applications	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	Understand CV concepts, Emoji Scavenger Hunt, RGB calculator				✓	✓	✓	
			Week 4	6	Computer Vision	Pixels, basics of Images, Image Features, How do Comp see Images, Introducing	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	https://www.w3schools.com/colors/colors rgb.asp				✓	✓	✓	

#	Month	Days	Week	No.	Topic	Description	Resources	Activity/Link					Assessment		
			Week 5	5	Computer Vision	Image Processing Operations, Convolution Operator, Neural network,	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	www.piskelapp.com					✓	✓	✓
6	SEPTEMBER	25	**Week 1**	**5**	**Term 1**	**4 Sept to 18 Sept 2025**						**Term 1**			
			Week 2	**6**	**Term 1**	**4 Sept to 18 Sept 2025**						**Term 1**			
			Week 3	**6**	**Term 1**	**4 Sept to 18 Sept 2025**						**Term 1**			
			Week 4	6	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	Introduction to NLP : Use of Google Translate for same spelling words, https://cloud.google.com/natural-						✓	✓
			Week 5	2	Natural Language Processing	ChatBots, Types of ChatBots, Human Language Vs Comp Language, Data Processing, Techniques of NLP	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	Introduction to Chatbots, Play with chatbots, https://www.kuki.ai						✓	✓
7	OCTOBER	13	Week 1	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	Jupyter Notebook, Introduction to Python						✓	✓
			Week 2	6	Advance Python	Able to write basic python programs using fundamental concepts such as variables, data types, operators, and control structures, python built in functions	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	Python basics, built in functions						✓	✓
			Week 3	4	Entrepreneurial Skills	Entrepreneurship and Society, Work done by an entrepreneur, Qualities and Functions of an entrepreneur	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	Writing a note on entrepreneurship as career option						✓	✓
			Week 4	0	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 5	0	Green Skills	Sustainable Development ; Importance, Problems and challenges, Green skills, Sustainable development Goals, Sustainable Development Initiative in India	Text Book, E-Book, Practice Worksheet, Synopsis(Summary), Comp Lab, Videos	Identify the problem related to sustainable development in the community						✓	✓
8	NOVEMBER	23	Week 1	0	Pre Board 1	4 Nov to 17 Nov 2025							**Pre Board 1**		
			Week 2	5	Pre Board 1	4 Nov to 17 Nov 2025							**Pre Board 1**		
			Week 3	6	Pre Board 1	4 Nov to 17 Nov 2025							**Pre Board 1**		
			Week 4	6	Revision	Revision									
			Week 5	6	Revision	Revision									
9	DECEMBER	20	Week 1	6	Revision	Revision									
			Week 2	6	Pre Board 2	9 Dec to 19 Dec 2025								**Pre Board 2**	
			Week 3	6	Pre Board 2	9 Dec to 19 Dec 2025								**Pre Board 2**	
			Week 4	2	Practice Test 1	25 Dec to 31 Dec 2025									
			Week 5	0	Practice Test 1	25 Dec to 31 Dec 2025									
10	JANUARY	22	Week 1	0											
			Week 2	6	Pre Board 3	6 Jan to 27 Jan 2026									
			Week 3	5	Pre Board 3	6 Jan to 27 Jan 2026									
			Week 4	6	Pre Board 3	6 Jan to 27 Jan 2026									
			Week 5	5											
11	FEBRUARY	23	Week 1	6											
			Week 2	6											
			Week 3	5											
			Week 4	6											
			Week 5	0											
12	MARCH	22	Week 1	5											
			Week 2	6											
			Week 3	5											
			Week 4	5											