



Sir Padampat Singhania Education Centre
Kamla Nagar, Kanpur

Lesson Plan

Session 2026 - 2027

Class: VIII

Subject: Computers

Book: Tech Bugs, Computational Thinking and Artificial Intelligence by CBSE

Subject Coordinator

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Head of Department

Name: Mr. Vikrant Kapoor



Sir Padampat Singhania Education Centre

Kamla Nagar, Kanpur

Yearly Syllabus/Planning overview

Session: 2026 - 2027,

Subject: Computers

Class : VIII

No. Of active Periods : 85

Month	Assessed in	Lesson/s to be covered	Period Count
April	PT 1/Half yearly	Internet and Networking concepts Artificial Intelligence and its applications	10
May	Half yearly	Python	03
July	Half yearly	Python Networking Concepts	21+3=24
August	Half yearly	Bias and Fairness in AI Ethics and Responsible use of AI	08
September	Half Yearly	Revision	
October	PT 2/Annual	Formulas and Functions in MS Excel 2016	09
November	Annual	Sorting and Filtering in MS Excel 2016 Tables and Conditional formatting in MS Excel 2016	15
December	Annual	AI Project Cycle	06
January	Annual	AI and its Applications	10
February		Annual exams	



Sir Padampat Singhanian Education Centre

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Weekly planning overview Session: 2026- 2027

Subject: Computers

Class : VIII

No. of periods : 85

Period	Topic/s to be covered in classroom	Homework	Status (Yes/No) (Reason if No)
WEEK 1: 2/4/26 to 4/4/26			Period Count: 1
PD1	Artificial Intelligence and its wonderful domains(Introduction)	Read the chapter	
Note: Good Friday Holiday			
WEEK 2: 06/4/26 to 11/4/26			Period Count: 3
PD1	Artificial Intelligence and its wonderful domains(Introduction)	Read the chapter	
PD2	Artificial Intelligence and its wonderful domains(INarrow vs General vs Super AI)	Read the chapter	
PD3	Artificial Intelligence and its wonderful domains(Types of 8 domains)	Revise the topic taught	
WEEK 3: 13/4/26 to 18/4/26			Period Count: 2
PD 1	Artificial Intelligence and its wonderful domains(Types of 8 domains)	Revise the topic taught	
PD2	Artificial Intelligence and its wonderful domains (Advantages and Disadvantages)	Revise the topic taught	
Note: Ambedkar Jayanti Holiday			
Week 4:20/5/26 to 25/5/26			Period count: 3
PD1	Artificial Intelligence and its wonderful domains (Q/A + Exercises)	Complete the book and notebook work	

PD2	AI Ethics - Becoming responsible Superhero (Introduction to ethics and need of it)	Revise the topics taught in class	
PD 3	AI Ethics - Becoming responsible Superhero (Bias, Privacy, Loosing jobs)	Revise the topics taught in class	
Week 5 :27/4/26 to 2/5/26			Period count: 3
PD1	AI Ethics - Becoming responsible Superhero (Deep fakes, Responsibility, Dangerous Use)	Revise the topics taught in class	
PD 2	AI Ethics - Becoming responsible Superhero (Dos and Don'ts and Golden rules for using AI)	Revise the topics taught in class	
PD 3	AI Ethics - Becoming a responsible superhero (Questions and Answers notebook)	Complete the book and notebook work	
Week 6: 4/5/26 to 9/5/26			Period count: 3
PD 1	AI Ethics - Becoming a responsible superhero (Questions and Answers notebook)	Complete the book and notebook work	
PD2	Artificial Intelligence and its wonderful domains (Revision)	Complete Model Paper	
PD3	AI Ethics - Becoming a responsible superhero (Revision)	Complete Model Paper	
Week 7: 11/5/26 to 16/5/26			Period count : 2
PD 1	Python (Introduction)	Revise the topics discussed in class	
PD 2	Python (Introduction continued)	Revise the topics discussed in class	
Week 8:19/5/26 to 23/5/26 Summer Break			Period count : 0
Week 9: 26/5/26 to 30/5/26. Summer Break			Period count:0
Week 10: 01/06/26 to 06/06/26 Summer Break			Period count : 0

Week 11: 08/06/26 to 13/06/26 Summer Break			Period count : 0
Week 12:15/06/26 to 20/06/26 Summer Break			Period count : 0
Week13: 22/06/26 to 27/06/26 Summer Break			Period count : 0
Week 14:30/6/26 to 04/7/26			Period count : 3
PD 1	Python (Logical operators, Precedence, Associativity)	Learn and revise the definitions taught in class	
PD 2	Python (Data types and Variable revision)	Revise various data types	
PD 3	Python (Conditional Statements - if, if else)	Revise the working of various functions	
Week 15 : 6/7/26 to 11/7/26			Period count : 3
PD 1	Python (Conditional Statements - if, elif else)	Practice the working of various functions	
PD 2	Python (Iterative Statements - for , membership operators)	Practice the working of various functions	
PD 3	Python (Iterative Statements - for , membership operators)	Practice the working of various functions	
Note: Second Saturday Holiday			
Week 16 : 13/7/26 to 18/7/26			Period count : 3
PD 1	Python (Iterative Statements - While)	Practice the working of various functions	
PD 2	Python (Iterative Statements - While)	Practice the working of various functions	
PD 3	Python (Use of break and Continue)	Practice the working of various functions	
Week 17: 20/7/26 to 25/7/26			Period count : 3

PD 1	Python (exercises)	Complete the book work	
PD 2	Python (exercises continued)	Complete the book work	
PD 3	Python (question answers)	Complete the notebook work	
Week 18: 27/7/26 to 1/8/26			Period count : 3
PD 1	Python	Practice the programs	
PD 2	Networking Concepts(Introduction)	Read and revise the topics taught in class	
PD 3	Networking Concepts(Client Server, Peer to peer)	Read and revise the topics taught in class	
Week 19:3/8/26 to 8/8/26			Period count : 3
PD 1	Networking Concepts(Router and wireless vs wired network)	Read and revise the topics taught in class	
PD 2	Networking Concepts(Topologies - bus and star)	Read and revise the topics taught in class	
PD 3	Networking Concepts(Topologies - mesh and ring)	Read and revise the topics taught in class	
Week 20: 10/8/26 to 15/8/26			Period count : 3
PD 1	Networking Concepts(Exercises and questions and answers)	Complete the book and notebook work	
PD 2	AI Bias and Fairness (Role of data, What's Bias?)	Read and revise the topics taught in class	
PD 3	AI Bias and Fairness (What is fair data?)	Read and revise the topics taught in class	

Note: Independence day Holiday			
Week 21: 17/8/26 to 22/8/26			Period count : 3
PD 1	AI Bias and Fairness (Exercises)	Complete the book exercises	
PD 2	AI Bias and Fairness (Questions and answers)	Complete the book work	
PD 3	Ethics and Responsible AI(Introduction)	Revise the topics taught in class	
Week 22: 24/8/26 to 29/8/26			Period count : 2
PD 1	Ethics and Responsible AI(Privacy)	Revise the topics taught in class	
PD 2	Ethics and Responsible AI(Misinformation and Social Impact)	Revise the topics taught in class	
Note: Raksha Bandhan and Id e milad Holiday			
Week 23: 31/8/26 to 5/9/26			Period count : 3
PD 1	Ethics and Responsible AI(Accountability and Human Control)	Revise the topics taught in class	
PD 2	Ethics and Responsible AI (Questions and answers)	Complete the book and notebook work	
PD 3	Ethics and Responsible AI (Questions and answers)	Complete the book and notebook work	
Note: Janamashtami Holiday			
Week 24: 7/09/26 to 12/9/26.			Period count: 0

PD 1	Revision	Learn the half yearly syllabus	
PD 2	Revision	Learn the half yearly syllabus	
Note : Second Saturday Holiday			
Week 25 14/9/26 to 19/9/26.			Period count:0
PD 1	Half Yearly Exams		
PD 2	Half Yearly Exams		
PD 3	Half Yearly Exams		
Week 26: 21/9/26 to 26/9/26.			Period count:0
PD 1	Half Yearly Exams		
PD 2	Half Yearly Exams		
PD 3	Half Yearly Exams		
Week 27: 28/9/26 to 3/10/26			Period count : 3
PD 1	Formulas and Functions in MS Excel 2016 (Introduction to Simple formula, complex formula)	Revise the topics taught in class	
PD 2	Formulas and Functions in MS Excel 2016 (Use of Full Handle, More complex formula, BEDMAS rule)	Do practice use of fill Handle in formula	
PD 3	Formulas and Functions in MS Excel 2016 (References- Absolute, Relative and Mixed)	Revise the topics taught in class	
Note: Gandhi Jayanti Holiday			
Week 28::5/10/26 to 10/10/26			Period count : 3
PD 1	Formulas and Functions in MS Excel 2016 (References- Absolute, Relative and Mixed)	Revise the topics taught in class	

PD 2	Formulas and Functions in MS Excel 2016 (Functions, Sheet reference)	Do practice of the commands taught in class	
PD 3	Formulas and Functions in MS Excel 2016 (Freeze panes, Unfreeze Panes, Split)	Do practice of the commands taught in class	
Week 29: 12/10/26 to 17/10/26			Period count : 3
PD 1	Formulas and Functions in MS Excel 2016	Practice the lab activity on page number 44	
PD 2	Formulas and Functions in MS Excel 2016	Practice the lab activity on page number 44	
PD 3	Formulas and Functions in MS Excel 2016 (Back Exercise)	Complete the book and notebook work	
Week 30: 19/10/26 to 24/10/26			Period count : 2
PD 1	Formulas and Functions in MS Excel 2016 (Back Exercise)	Complete the book and notebook work	
PD 2	Lab activity		
Note: Dussehra Holiday			
Week 31: 26/10/26 to 31/10/26			Period count : 3
PD 1	Formulas and Functions in MS Excel 2016 (Back Exercise)	Complete the book and notebook work	
PD 2	Sorting and Filtering in MS Excel 2016(Introduction to sorting and Filtering)	Read and revise the topics taught in class	
PD 3	Sorting and Filtering in MS Excel 2016(Sort Sheet)	Read and revise the topics taught in class	
Week 32 : 2/11/26 to 7/11/26			Period count : 3
PD 1	Sorting and Filtering in MS Excel 2016(Sort Range)	Read and revise the topics taught in class	

PD 2	Sorting and Filtering in MS Excel 2016(Sorting Levels)	Do the practice of the commands taught in class	
PD 3	Sorting and Filtering in MS Excel 2016(Sorting Levels)	Do the practice of the command taught in class	
Week 33 : 9/11/26 to 14/11/26			Period count : 0
PD 1	Holiday(Deepawali)		
PD 2	Holiday(Deepawali)		
PD 3	Holiday(Deepawali)		
Week 34 : 16/11/26 to 21/11/26			Period count : 3
PD 1	Sorting and Filtering in MS Excel 2016(Filtering)	Do the practice of the commands taught in class	
PD 2	Sorting and Filtering in MS Excel 2016(Multiple Filter)	Do the practice of the commands taught in class	
PD 3	Sorting and Filtering in MS Excel 2016(Advanced Filter text)	Do the practice of the commands taught in class	
Week 35: 23/11/26 to 28/11/26			Period count : 2
PD 1	Sorting and Filtering in MS Excel 2016(Advanced Filter Number, Clear Filter)	Do the practice of the commands taught in class	
PD 2	Holiday (Guru Nanak Jayanti)		
PD 3	Sorting and Filtering in MS Excel 2016 (Lab activity page no 71)	Practice the lab activity on page number 51	
Holiday (Guru Nanak Jayanti)			
Week 36:30/11/26 to 05/12/26			Period count : 3
PD 1	Sorting and Filtering in MS Excel 2016 (Lab activity page no 71)	Practice the lab activity on page number 51	

PD 2	Sorting and Filtering in MS Excel 2016 (Back Exercises)	Complete the book work	
PD 3	Sorting and Filtering in MS Excel 2016 (Questions and answers)	Complete the note book work	
Week 37 : 07/12/26 to 12/12/26			Period count : 3
PD 1	Tables and Conditional formatting in MS Excel 2016 (Lab activity page no 71)	Practice the lab activity on page number	
PD 2	Tables and Conditional formatting in MS Excel 2016 (Exercises)	Complete the book work	
PD 3	Tables and Conditional formatting in MS Excel 2016 (Questions and answers)	Complete the note book work	
Week 38: 14/12/26 to 19/12/26			Period count : 3
PD 1	AI Project Cycle (Definition, 1st step Problem Scoping, 2nd step Data Acquisition)	Read and revise the topics taught in class	
PD 2	AI Project Cycle (Types of data and its Preparation)	Read and revise the topics taught in class	
PD 3	AI Project Cycle (Modelling, Evaluation, Deployment)	Read and revise the topics taught in class	
Week 39: 21/12/26 to 26/12/26			Period count : 3
PD1	AI Project Cycle (Monitoring and Maintenance)	Read and revise the topics taught in class	
PD2	AI Project Cycle (Exercises)	Complete the book work	
PD3	AI Project Cycle (Questions and answers)	Complete the notebook work	
Note: Christmas Holiday			
Week 40: 28/12/26 to 02/01/27			Period count : 0
	Holiday (Winter Break)		

Week 41: 04/07/27 to 07/01/27. Winter Break			Period count: 0
Week 43: 8/1/27 to 9/1/27			Period count : 1
PD 1	AI Applications (Environmental Friendly Applications)	Read and revise the topics taught in class	
Week 44: 11/1/27 to 16/1/27			Period count : 3
PD 1	AI Applications (Environmental Friendly Applications)	Read and revise the topics taught in class	
PD 2	AI Applications (Medical and Health care based applications)	Read and revise the topics taught in class	
PD 3	AI Applications (Intelligent Automation, Smart Transportation)	Read and revise the topics taught in class	
Note : Makar Sankranti Holiday			
Week 45:18/1/27 to 23/1/27			Period count : 3
PD 1	AI Applications (Agriculture, Smart Homes)	Read and revise the topics taught in class	
PD 2	AI Applications (Education System)	Read and revise the topics taught in class	
PD 3	AI Applications (No Code Tools)	Read and revise the topics taught in class	
Week 46: 25/1/27 to 30/1/27			Period count : 2
PD 1	AI Applications (Exercises)	Complete the book and notebook work	
PD 2	Data Visualization (Questions and Answers)	Complete the book and notebook work	
Note: Republic day Holiday			
Week 47: 1/2/27 to 6/2/27.			Period count:3

PD 1	Revision		
PD 2	Problem Discussion		
PD 3	Problem Discussion		
Week 48: 8/2/27 to 13/2/27.			Period count:3
PD 1	Problem Discussion		
PD 2	Problem Discussion		
PD 3	Problem Discussion		

Week 49: 15/2/27 to 20/2/27.			Period count:3
PD 1	Problem Discussion		
PD 2	Problem Discussion		
PD 3	Problem Discussion		
Week 50: 21/2/27 to 26/2/27. Final Examination			Period count:0
Week 51 28/2/27 to 01/3/27. Final Examinations			Period count:0
Week 52 08/3/27 to 13/3/27. Final Examinations			Period count:0