



THE JAIN INTERNATIONAL SCHOOL
KANPUR
Syllabus Booklet
2023-24
Class-XII

THE JAIN INTERNATIONAL SCHOOL, KANPUR			
THE JAIN WORLD SCHOOL MATI			
CLASS XII			
BOOKS RECOMMENDED FOR SESSION 2023-24			
S.N.	SUBJECT	BOOK NAME	PUBLISHER
1	English	1. Flamingo	NCERT
		2. Vistas	NCERT
		3. English Core	Together with; Rachna sagar Publ.
2	Physics	Physics	NCERT
		2. Physics by S. L. Arora	Dhanpat Rai Prakshan
		3. Lab Manual	Together with; Rachna sagar Pub.
3	Chemistry	1. NCERT- Chemistry	NCERT
		2. ABC Chemistry	Modern Publ.
		3. Lab Manual	Together with; Rachna sagar Publ.
4	Maths	1. Mathematics Text Book	1. NCERT
		2. Mathematics-R S Aggarwal	Bharati Bhawan Publ.
		3. Mathematics Lab Practical	Together with; Rachna sagar Publ.
5	Biology	1. NCERT- Biology	NCERT
		3. Lab Manual	Together with; Rachna sagar Publ.
6	Accountancy	Accountancy by T. S. GREWAL	SULTAN CHAND
7	B. Studies	B. Studies by Poonam Gandhi	V K global Publ.
8	Economics	TR Jain	V K Publication
		TR Jain	V K Publication
		TR Jain	V K Publication
9	Computer Science	Computer Science with Python	S. Chand
10	P. Education	1. Physical Education	Saraswati Publ.
		2. Lab Manual	Saraswati Publ.
11	Hindi	1. Aaroh Vol.-2	NCERT
		2. Vitan vol.- 2	NCERT
		3. Abhivyakti Avam Madhyam	NCERT
12	History	Themes in world history	NCERT
13	Applied Maths	M. L. Agarwal	APC Publ.
* All the books must be as per the CBSE revised edition of Session 2023-24.			

Class –XII ENGLISH			
MONT H		TOPICS TO BE TAUGHT	TEST/EXAM SYLLABUS
APR	Lit. Lang	Flamingo -F1. The Last Lesson, P1. My Mother at Sixty Six Vistas -V1.The Third Level. 1.Reading- Comprehension Writing 2. Notice 3. Formal Letter- To the Editor,	
MAY	Lit. Lang	Flamingo -F2. Lost Spring, P2. Keeping Quiet Vistas - V2.The Tiger King Writing- Invitation & Reply, Job letter.	<u>Class Test – 1</u> The Last Lesson, My Mother at Sixty Six Notice, Letter to the Editor
JULY	Lit. Lang	Flamingo - F3.Deep Water P3. A Thing of Beauty Vistas -V3. Journey to the End of the Earth. Writing- formal Letter, Invitation & Reply, Article writing.	<u>Unit Test – 1</u> Language - Comprehension, Notice, Card Invitation & Reply Formal Letter to the Editor & Job Letter Literature - The Last Lesson, Lost Spring & My Mother at Sixty Six, Keeping Quiet, The Third Level, The Tiger King
AUG	Lit. Lang	Flamingo -F4.The Rattrap, F5. Indigo P4.A Roadside Stand, P5.Aunt Jennifer's Tiger Vistas -V4 - The Enemy Writing -Informal invitation & Reply. Report writing: newspaper & Magazine.	
SEPT	Lit. Lang	Flamingo-F6. Poets and Pancakes Vistas:V5. On the Face of it. Writing Revision ASL Project Planning	<u>Half Yearly Examination</u> Reading - Comprehension Writing-1.Notice 2.Formal and Informal Invitation & Replies 3.Letter to the Editor, Job Letter 4. Article Writing and Report Writing. Literature - Flamingo- Prose- The Last Lesson, Lost Spring, Deep Water and The Rattrap Poetry- My Mother at Sixty Six, Keeping Quiet, A Thing of Beauty & A Roadside Stand Vistas - The Third Level, The Tiger King, Journey to the End of the Earth, ASL
OCT	Lit. Lang	Flamingo-F7 The Interview, F8.Going places Vistas -V6. Memories of Childhood The Cutting of My Long Hair We Too are Human Beings Writing Revision ASL Project started.	
NOV	Lit. Lang	Revision Writing Revision ASL Project	<u>PRE BOARD-1</u> Complete Syllabus prescribed by CBSE
DEC	Lit. Lang	Revision ASL project submission immediately after winter vacation.	<u>PRE BOARD-2</u> Complete Syllabus prescribed by CBSE
JAN	Lit. Lang	Revision Revision	<u>PRE BOARD-3</u> Complete Syllabus prescribed by CBSE
FEB MAR		Revision	<u>AISSCE Board Examination</u> Full syllabus prescribed by CBSE

Class –XII MATHEMATICS		
MONTH	TOPICS TO BE TAUGHT	TEST/EXAM SYLLABUS
APR	Ch-1 Relation and Functions, Ch-2 Inverse Trigonometric Functions	
MAY	Ch-3 Matrices Ch-4 Determinants	<u>Class Test – 1</u> Ch-1 Relation and Functions
JULY	Ch-5 Continuity and Differentiability Ch- 6 Application of Derivative	<u>Unit Test – 1</u> Ch-2 Inverse Trigonometric Functions Ch-4 Determinants
AUG	Ch-9 Differential equations Ch-7 Integrals	
SEPT	Ch-8 Application of integrals Ch-10 Vector Algebra Ch-12 Linear programming	<u>Half Yearly Examination</u> Ch-1 Relation and Functions, Ch-2 Inverse Trigonometric Functions Ch-3 Matrices Ch-4 Determinants Ch-5 Continuity and Differentiability Ch-6 Application of Derivatives Ch-7 Integrals Ch-9 Differential Equations
OCT	Ch-11 Three Dimensional Geometry	
NOV	Ch-13 Probability	<u>PRE BOARD-1</u> Ch-1 Relation and Functions, Ch-2 Inverse Trigonometric Functions Ch-3 Matrices Ch-4 Determinants Ch-5 Continuity and Differentiability Ch-6 Application of Derivatives Ch-7 Integrals Ch-9 Differential Equations Ch-8 Application of Integrals Ch-10 Vector Algebra Ch-12 Linear programming Ch-11 Three Dimensional Geometry
DEC	Revision	<u>PRE BOARD-2</u> Full Syllabus
JAN	Revision	<u>PRE BOARD-3</u> Full Syllabus
FEB MAR	Revision	<u>AISSCE Board Examination</u> Full syllabus prescribed by CBSE

Class –XII CHEMISTRY		
MONTH	TOPICS TO BE TAUGHT	TEST/EXAM SYLLABUS
APR	Ch-1 Solution Practical: Salt analysis [Cation: Group 0 & I, Anion: Carbonate, Acetate , Nitrate]	
MAY	Ch-2 Electrochemistry Practical: Salt analysis [Cation: Group II & III, Anion: Nitrate]	<u>Class Test – 1</u> Ch-1 Solution
JULY	Ch-3 Chemical Kinetics Ch-6 Haloalkane and Haloarene Practical: Salt analysis [Cation: Group IV & V, Anion: Chloride, acetate]	<u>Unit Test – 1</u> Ch-1 Solution Ch-2 Electrochemistry
AUG	Ch-7 Alcohol, phenol and ether Ch-4 d and f block elements Practical: Salt analysis: [Cation: Group VI, Anion: Chloride] Volumetric analysis [Titration of Mohr salt]	
SEPT	Ch-5 Coordination compounds	<u>Half Yearly Examination</u> Ch-1 Solution Ch-2 Electrochemistry Ch-3 Chemical Kinetics Ch-4 d and f block elements Ch-6 Haloalkane and Haloarene Ch-7 Alcohol, phenol and ether
OCT	Ch-8 Aldehyde, ketone and Carboxylic acid Ch-9 Organic compounds containing Nitrogen (Amines) Practical: Volumetric analysis [Titration of Oxalic acid] Functional Group test [Alcohol, aldehyde, ketone]	
NOV	Ch-10 Biomolecules Practical: Functional Group test [Carboxylic acid, amine]	<u>PRE BOARD-1</u> Ch-1 Solution Ch-2 Electrochemistry Ch-3 Chemical Kinetics Ch-4 d and f block elements Ch-5 Coordination compounds Ch-6 Haloalkane and Haloarene Ch-7 Alcohol, phenol and ether Ch-8 Aldehyde, ketone and Carboxylic acid Ch-9 Organic compounds containing Nitrogen (Amines)
DEC	Revision Practical: Revision	<u>PRE BOARD-2</u> Full Syllabus
JAN	Revision	<u>PRE BOARD-3</u> Full Syllabus
FEB MAR	Revision and Sample papers	<u>AISSCE Board Examination</u> Full syllabus prescribed by CBSE

Class –XII BIOLOGY		
MONTH	TOPICS TO BE TAUGHT	TEST/EXAM SYLLABUS
APR	Ch-1 Reproduction In Flowering Plants Ch-2 Reproduction In Human Being Practical: 1. Prepare a temporary mount to observe pollen germination. 2. Flowers adapted to pollination by different agencies (wind, insects, water). 3. Pollen germination on stigma through a permanent slide.	
MAY	Ch-2 Reproduction In Human Being Ch-3 Reproductive Health Practical: 4. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides. 5. Meiosis in onion bud cell or grasshopper testis through permanent slides. 6. T.S. of blastula through permanent slides	<u>Class Test – 1</u> Ch-2 Reproduction In Flowering Plants
JULY	Ch-4 Heredity And Variation Ch-5 Molecular Basis of Inheritance Practical: 7. Mendelian inheritance using seeds of different colour/sizes of any plant. 8. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness	<u>Unit Test – 1</u> Ch-1 to 4
AUG	Ch-6 Evolution Ch-7 Health And Disease Practical: 9. Flash cards models showing examples of homologous and analogous organs 10. Common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides, models or virtual images or specimens. Comment on symptoms of diseases that they cause.	
SEPT	Ch-8 Microbes In Human Welfare Ch- 9 Principles And Processes Of Biotechnology Practical: 11. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.	<u>Half Yearly Examination</u> Ch- 1 to 8
OCT	Ch-10 Application of Biotechnology In Health And Agriculture Ch-11 Organisms And Environment Practical: 12. Models specimen showing symbiotic association in root nodules of leguminous plants, Cuscuta on host, lichens. 13. Study the plant population density by quadrat method. 14. .Study the plant population frequency by quadrat method.	
NOV	Ch- 12 Ecosystems Ch 13 Biodiversity And Its Conservation Practical: 15. Prepare a temporary mount of onion root tip to study mitosis.	<u>PRE BOARD-1</u> Ch-1 to 12
DEC	Revision Practical: Revision	<u>PRE BOARD-2</u> Full Syllabus
JAN	Revision	<u>PRE BOARD-3</u> Full Syllabus
FEB MAR	Revision	<u>AISSCE Examination</u> Full syllabus prescribed by CBSE

Class –XII PHYSICS		
MONTH	TOPICS TO BE TAUGHT	TEST/EXAM SYLLABUS
APR	Ch–1: Electric Charges and Fields Ch–2: Electrostatic Potential and Capacitance Practical To determine resistivity of two / three wires by plotting a graph for potential difference versus current. Practical-2 To find resistance of a given wire / standard resistor using a meter bridge.	
	Ch–3: Current Electricity. Practical-3 To verify the laws of combination (series) of resistances using a meter bridge. To determine resistivity of two / three wires by plotting a graph for potential difference versus current	<u>Class Test – 1</u> Electric Charges and Fields
JULY	Ch–4: Moving Charges and Magnetism Ch–5: Magnetism and Matter Ch–6: Electromagnetic Induction Practical 4 To determine resistance of a galvanometer by half-deflection method and to find its figure of merit. Practical 5 To find the value of v for different values of u in case of a concave mirror and to find the focal length.	<u>Unit Test – 1</u> Ch–1: Electric Charges and Fields Ch–2: Electrostatic Potential and Capacitance Ch–3: Current Electricity
AUG	Ch–7: Alternating Current Ch–8: Electromagnetic Waves Practical 6 To determine angle of minimum deviation for a given prism.	
SEPT	Ch–9: Ray Optics and Optical Instruments Practical 7 To find the refractive index of a liquid using a concave mirror and a plane mirror. Practical 8 To draw the I-V characteristic curve for a p-n junction diode in forward and reverse bias.	<u>Half Yearly Examination</u> Ch–1: Electric Charges and Fields Ch–2: Electrostatic Potential and Capacitance Ch–3: Current Electricity Ch–4: Moving Charges and Magnetism Ch–5: Magnetism and Matter Ch–6: Electromagnetic Induction Ch–7: Alternating Current Ch–8: Electromagnetic Waves
OCT	Ch–10: Wave Optics Ch–11: Dual Nature of Radiation and Matter Ch–12: Atoms Ch–13: Nuclei	
NOV	Ch–14: Semiconductor Electronics: Materials, Devices and Simple Circuits	<u>PRE BOARD-1</u> Ch–1: Electric Charges and Fields Ch–2: Electrostatic Potential and Capacitance Ch–3: Current Electricity Ch–4: Moving Charges and Magnetism Ch–5: Magnetism and Matter Ch–6: Electromagnetic Induction Ch–7: Alternating Current Ch–8: Electromagnetic Waves Ch–9: Ray Optics and Optical Instruments Ch–10: Wave Optics Ch–11: Dual Nature of Radiation and Matter Ch–12: Atoms

		Ch-13: Nuclei
DEC	Revision	<u>PRE BOARD-2</u> Full Syllabus
JAN	Revision	<u>PRE BOARD-3</u> Full Syllabus
FEB MAR	Revision	<u>AISSCE Board Examination</u> Full syllabus prescribed by CBSE

Class –XII ACCOUNTANCY		
MONTH	TOPICS TO BE TAUGHT	TEST/EXAM SYLLABUS
APR	Ch-2 Accounting for partnership firms: fundamentals Ch-3 Goodwill nature and valuation	
MAY	Ch-4 Change in PSR	<u>Class Test – 1</u> Accounting for partnership firms: Fundamentals
JULY	Ch-5 Admission of a partner	<u>Unit Test – 1</u> Goodwill nature and valuation Change in PSR
AUG	Ch-6 Retirement and Death of a partner	
SEPT	Ch-7 Dissolution of Partnership firm	<u>Half Yearly Examination</u> Accounting for partnership firms: Fundamentals Goodwill nature and valuation Change in PSR Admission of a partner Retirement and death of a partner
OCT	Ch-8 Company Accounts: Issue of Shares Ch-9 Issue of Debentures	
NOV	Ch-11 Financial Statement analysis Ch-13 Accounting ratios	<u>PRE BOARD-1</u> Accounting for partnership firms: (Fundamentals) Goodwill nature and valuation Change in PSR Admission of a partner Retirement and death of a partner Dissolution of a partnership firm Company accounts: Issue of shares Issue of debentures Financial statements analysis
DEC	Ch-14 Cash Flow Statement	<u>PRE BOARD-2</u> Full syllabus
JAN	Revision	<u>PRE BOARD-3</u> Full syllabus
FEB MAR		<u>AISSCE Board Examination</u> Full syllabus prescribed by CBSE

Class –XII ECONOMICS		
MONTH	TOPICS TO BE TAUGHT	TEST/EXAM SYLLABUS
APR	Part A Ch 2- Basic Concepts of Macroeconomics, Ch 5 – Money, Ch 6 - Banking: Commercial Banks and the Central Bank Part B Ch 1- Indian Economy on the Eve of Independence	
MAY	Part A Ch 1 - Circular Flow of Income Ch 3 - National Income and related Aggregates Part B Ch 2- Indian Economy (1950 - 1990)	<u>Class Test – 1</u> Part A- 2,5,6
JULY	Part A Ch 4 - Measurement of National Income Ch 7- Aggregate Demand and Related Concepts Part B Ch 3- Liberalisation, Privatisation and Globalisation: An Appraisal Ch 5- Human Capital Formation	<u>Unit Test – 1</u> Part A- 1,3, Part B- 1,2
AUG	Part A Ch 8- Income determination and Multiplier Ch 9- Excess Demand and Deficient Demand Part B Ch 6- Rural Development Ch 7- Employment: Growth, Informalisation and other issues	
SEPT	Part A Ch 10- Government Budget and the Indian Economy	<u>Half Yearly Examination</u> Part A- 1,2,3,4,5,6,7,8,9 Part B - 1,2,3,4,5,6,7
OCT	Part A Ch 11- Foreign Exchange Rate Part B Ch 9 - Environment and Sustainable Development	
NOV	Part A Ch 12- Balance of Payment Part B Ch 10- Comparative Development Experiences of India and it's Neighbours	<u>PRE BOARD-1</u> Part A Ch - 1,2,3,4,5,6,7,8,9,10,11 Part B Ch - 1,2,3,4,5,6,7,8,9
DEC	Revision	<u>PRE BOARD-2</u> Full Syllabus
JAN	Revision	<u>PRE BOARD-3</u> Full Syllabus
FEB MAR	Revision	<u>AISSCE Board Examination</u> Full syllabus prescribed by CBSE

Class –XII SUBJECT – BUSINESS STUDIES		
MONTH	TOPICS TO BE TAUGHT	TEST/EXAM SYLLABUS
APR	Ch-1 Nature and significance of management Ch-2 Principles of Management	
MAY	Ch-3 Business environment Ch-4 Planning	<u>Class Test – 1</u> Nature and significance of management
JULY	Ch-5 Organising Ch-6 Staffing	<u>Unit Test – 1</u> Principles of management and business environment
AUG	Ch-7 Directing, Ch-8 Controlling	
SEPT	Ch-9 Financial Management Ch-10 Financial Market	<u>Half Yearly Examination</u> Nature and significance of management, Principles of management, Business environment, Planning, Organising, Staffing, Directing, Controlling
OCT	Ch-11 Marketing Management Ch-12 Consumer Protection Act	
NOV	Revision	<u>PRE BOARD-1</u> Full syllabus
DEC	Revision	<u>PRE BOARD-2</u> Full syllabus
JAN	Revision	<u>PRE BOARD-3</u> Full syllabus
FEB MAR		<u>AISSCE Board Examination</u> Full syllabus prescribed by CBSE

Class –XII SUBJECT – COMPUTER SCIENCE		
MONTH	TOPICS TO BE TAUGHT	TEST/EXAM SYLLABUS
APR	Review of Python Basics, Functions, Relational Database and SQL	
MAY	Relational Database and SQL, Interface Python with SQL, Using Python Libraries	<u>Class Test – 1</u> Review of Python Basics, Functions
JULY	Data File Handling	<u>Unit Test – 1</u> Review of Python Basics, Functions Relational Database and SQL, Interface Python with SQL
AUG	Data Structures in Python	
SEPT	Computer Networks	<u>Half Yearly Examination</u> Review of Python Basics, Functions Relational Database and SQL, Interface Python with SQL, Using Python Libraries, Data File Handling , Data Structures in Python
OCT	Project and Report File Completion	
NOV	Revision	<u>PRE BOARD-1</u> Complete Syllabus prescribed by CBSE BOARD
DEC	Revision	<u>PRE BOARD-2</u> Complete Syllabus prescribed by CBSE BOARD
JAN	Revision	<u>PRE BOARD-3</u> Complete Syllabus prescribed by CBSE BOARD
FEB MAR	Revision	<u>AISSCE Board Examination</u> Full syllabus prescribed by CBSE

Class –XII SUBJECT – HISTORY		
MONTH	TOPICS TO BE TAUGHT	TEST/EXAM SYLLABUS
APR	Theme 1 ,2	
MAY	Theme 3,4	<u>Class Test – 1</u> Theme 1
JULY	Theme 5,6	<u>Unit Test – 1</u> Theme 2,3,4
AUG	Theme 7,8	
SEPT	Theme 8,10	<u>Half Yearly Examination</u> Theme 1,2,3,4,5,6,7
OCT	Theme 10,11	
NOV	Theme 11,13	<u>PRE BOARD-1</u> Theme 1,2,3,4,5,6,7,8,10,11
DEC	Theme 15	<u>PRE BOARD-2</u> Full Syllabus
JAN	Revision	<u>PRE BOARD-3</u> Full Syllabus
FEB MAR	Revision	<u>AISSCE Board Examination</u> Full syllabus prescribed by CBSE

Class –XII SUBJECT – PHYSICAL EDUCATION		
MONT H	TOPICS TO BE TAUGHT	TEST/EXAM SYLLABUS
APR	Ch- 1 Management of Sporting Events Ch- 2 Children and Women in Sports	
MAY	Ch-3 Yoga as Preventive Measure for Lifestyle Disease Ch-4 Physical Education and Sports for CWSN	<u>Class Test – 1</u> Ch- 1 Management of Sporting Event
JULY	Ch-4 Physical Education and Sports for CWSN Ch - 5 Sports and Nutrition	<u>Unit Test – 1</u> Ch- 1 Management of Sporting Event Ch- 2 Children and Women in Sports
AUG	Ch- 6 Test Measurement in Sports Ch-7 Physiology and Injuries in Sports	
SEPT	Ch-8 Biomechanics and Sports Ch-9 Psychology and Sports	<u>Half Yearly Examination</u> Ch- 1 Management of Sporting Event Ch- 2 Children and Women in Sports Ch-3 Yoga as Preventive Measure for Lifestyle Disease Ch-4 Physical Education and Sports for CWSN Ch - 5 Sports and Nutrition Ch- 6 Test Measurement in Sports
OCT	Ch- 10 Training in Sports	
NOV	Revision	<u>PRE BOARD-1</u> Full syllabus
DEC	Revision	<u>PRE BOARD-2</u> Full syllabus
JAN	Revision	<u>PRE BOARD-3</u> Full syllabus
FEB MAR		<u>AISSCE Board Examination</u> Full syllabus as prescribed by CBSE