

THE MANGLAM SCHOOL
Syllabus Break-up for the Session 2024-25

Subject – English (301)

Grade – XII

Name of the Book	Publisher
Flamingo	NCERT
Vistas	NCERT

Term Wise Syllabus

Assessment	Periodic Test 1 (July)	Periodic Test 2 (Sept)
Term 1 (April to September)	Flamingo : L 1 & 2 Poem: My mother at sixty six Vistas L 1 & 2	Flamingo : L1 to 4 Poem: My mother at 66 Keeping quiet, A Thing of beauty Vistas L1 to 4
Assessment	Periodic Test 3 (Nov)	Pre-Board (Jan)
Term 2 (October to February)	Flamingo : L1 to L 8 (Prose) (Poetry) Poem 1 to 5 Vistas L 1 to 6	Flamingo : L 1 to 8 (Prose) (Poetry) Poem 1 to 5 Vistas : L 1 to 6 (Whole Course)

Subject weightage - 6 periods per week

Month Wise Syllabus

Month	Lesson	No. of Periods	Activity / Project / SEA / Practical / Practice / Lab Work / Field Work
April 2024 (16 days) Total teaching days- 12	Flamingo : L1 - The last lesson	4	Collect information about the mother tongues used in India. Write State - wise mother tongues spoken. (The Last lesson) Write a short biography of Kamala Das; Also make a chart on literary devices used in poem. (My Mother at 66.) Prepare a PPT on Notice writing & formal letters. (Writing Skills)
	Poem 1- My mother at 66	3	
	Vistas : L-1 - The third level	3	
	Writing skills : Notice writing Formal letter	2	
June (9 days) Total teaching Days-7	Flamingo : L 2 Lost Spring	3	Show a documentary on child labour(https://youtu.be/U6bBudEnSG4?feature=shared) (Lost Spring) Discuss/debate – Killing Tigers by the King, a wisdom or foolishness. (The Tiger King) Create a multimedia advertisement and poster.
	Vistas : L2 The Tiger king	3	
	Writing skills : Advertisement/Posters	1	
July (15 days - Before PT 1 – 5 days; After PT 1-10 days) Total teaching Days- 8	Revision Exam PT 1	5	Make a mind map on the literary devices & rhyme scheme used in the poem (Keeping quiet) https://youtu.be/2uBBSZGCbo?si=UOHQFBaMgoFFBmG (Deep water) Art Integrated work Prepare a file or PPT on writing skills. https://youtu.be/jqtzzAANUC4?si=icHhp-
	Flamingo : Poem - Keeping quiet	2	
	Flamingo : L 3 - Deep water	3	
		3	

	Writing skills: Report Writing, Article & Speech writing		DS0F9czSEQ (report writing) https://youtu.be/gUui94Xd85s?si=sOFUVGe5uN-cmSgJ (article writing) https://youtu.be/fSJH6r3ILQo?si=69cOvfByLlutwUJf (Speech writing)
August (19 days) Total teaching Days- 17	Flamingo: L 4 - The Rat trap Poem - A thing of beauty Vistas – L 3 - Journey to the End of Earth L-4 - The Enemy Writing skills: Invitation and replies	4 2 3 3 2	Role play (The Rat Trap) Presentation on The thing of beauty Role play on the narrator of the story (Vistas) Role play (The Enemy) Draft an invitation.
September 11 days (Before half yearly -10 days; After half yearly -1 day)	Revision & Practice Practical Exam / Internal Assessment Exam PT 2 Recapitulation	10 1	Completion of all projects and presentations.
October (15 days) Total teaching days- 14	Flamingo: L 5 - Indigo Poem A roadside stand L 6 - Poets & Pancakes Poem: Aunt Jennifer's tiger Vistas: L 5 - On the Face of it Vistas: L- 6 - Memories of my childhood	3 2 3 2 2 2	Search and make a note on the sufferings of indigo cultivators & movement (Indigo) Speech on reducing inequalities (A roadside stand) Debate on how reel life is different from real life. Discussion on Gender equality (Poem) Compare and Contrast the lives & circumstances of the two protagonists. (Vistas)
November (16 days) Total teaching days- 8	Flamingo: L 7 - The interview L-8 - Going places. Revision Exam PT 3	4 4	Speech on 'the need of quality education' (L-7) Discuss the role of Sophie in Going places. (L-8)
December (12 days) Total Teaching days 10	Revision & Practice	10	
January 2025 (25 days) Actual teaching days- 15	Revision & Practice: Pre-Board Board Practical Exam / Internal Assessment	15	Previous Years' CBSE QP Solving
February 2025 (8 days) Total teaching days 6	Annual Exam Revision & Practice	6	Previous Years' CBSE QP Solving

Subject Teacher

THE MANGLAM SCHOOL
Syllabus Break-up for the Session 2024-25

Subject – FOOD, NUTRITION AND DIETETICS

GRADE - XII

Name of the Book	Publisher
Food, Nutrition and Dietetics	CBSE
Subject Specific Skills for Class XII	CBSE
Employability Skills (Textbook for Class XII)	NCERT

Term Wise Syllabus

Assessment	Periodic Test 1 (July)	Periodic Test 2 (Sept)
Term 1 (April to September)	FND -Unit 1 Employability Skills - Unit 1	FND -Unit 1-3 Employability Skills - Unit 2,3
Assessment	Periodic Test 3 (Nov)	Pre-Board (Jan)
Term 2 (October to February)	FND -Unit 4 Employability Skills - Unit 4, 5	FND- Unit 1 to 4 Employability Skills - Unit 1 To 5 (Whole Course)

Subject weightage - 6 periods per week

Month Wise Syllabus

Month	Chapters	No. of periods	Activity / Project / SEA / Practical / Practice / Lab Work / Field Work
April 2024 (16 days) Actual teaching days -12	Unit 1 – Clinical and Therapeutic Nutrition Chapter - 1 Therapeutic Nutrition Chapter -2 Therapeutic Diets Chapter -3 Nutrition And Infection Chapter -4 Methods Of Cooking	3 3 3 3	- Identify Food Adulteration Using Visual And Chemical Methods - A Report On -Role Of Dietician - Flow Chart On - Hospital Diets - PPT On - Malnutrition And Infection - Poster Making On Methods Of Cooking
June (9 days) Actual Teaching days - 5	Employability Skills- Unit 1 Communication Skills General Studies -Unit 1	4 1	SEWA (Social Empowerment Through Work Education And Action) - any one of the activities proposed by CBSE.
July (15 days - Before PT1- 5; After PT-1 - 10) Actual teaching days -10	Revision Exam PT 1 Unit 2 Diet In Health And Disease -1 Chapter 5 Fever (Acute And Chronic) Chapter 6 -Diarrhea Chapter 7 - Eating Disorders Chapter 8 -Overweight / Obesity Employability Skills- Unit 2 Self-Management Skills	5 2 2 2 2 2	- Prepare One Preserved Product And A Suitable Label For It. - Plan A Sample Menu For A Patient With Sub-Acute Fever - Chart On Oral Rehydration Therapies - Report On Eating Disorders - Case Study On Any Obese Person
August (19 days) Actual teaching days -16	Unit -3 Diet In Health And Disease -2 Chapter 9 Hypertension Chapter 10- Diabetes Chapter 11- Jaundice/Hepatitis	3 3 3	Find The Cause Of Spoilage Of Food. - Enlist General Ideas of Storing Food. - Report Writing On Consequences Of Hypertension - Case study on Any Diabetic Patient

	Chapter 12-Celiac Disease, Lactose Intolerance & Peptic Ulcer Employability Skills- Unit 3- ICT Skills General Studies -Unit 2	3 3 1	- Diet Chart Of A Jaundice Patient - Dietary Guidelines In Celiac Disease
September 11 days (Before half yearly -10 days; After half yearly -1 day)	Revision Practical Exam / Internal Assessment Exam PT 2	10 1	
October (15 days) Actual teaching days -14	Unit 4 –Food Safety And Quality Control Chapter 13 - Food Hazards Chapter 14 - Personal Hygiene and Food Hygiene Chapter 15- Food Adulteration General Studies - Unit -3 & 4	 4 4 4 2	Prepare A Report On Factors Which Influence -Selection Of Food, Family Food Practices, Availability Of Foods, Influence Of Media And Peer Group. -Chart On Types Of Food Hazards Chart On Good Personal Hygiene.
November (16 days) Actual teaching days -12	FND – Unit - 4 Chapter 16- Reading And Understanding Food Labels Chapter 17- HFSS Foods and Their Implications General Studies Unit -5 & 6 Employability Skills - Unit 4- Entrepreneurship Skills Unit 5 - Green Skills	3 3 2 2 2	Therapeutic Modification Of Normal Diet With Respect To Consistency, Frequency, Food Stuffs And Methods Of Cooking. - Design A Food Label Of Any One Product. -Report Writing On Harmful Effects Of HFSS Foods.
December (12 days)	Revision Of FND Sewa Project	5 5	Identification of economic consequences of malnutrition and techniques to improve nutritional status of communities.
January 2025 (25 days) Actual teaching days- 15	Revision Of Employability Skills Revision of General Studies Practical Exam / Internal Assessment Pre-Board	5 5 5	Previous years' CBSE exam QP solving
February 2025 (8 days) Total teaching days 6	Recapitulation and Revision for Annual Exam	6	Previous years' CBSE exam QP solving

Subject Teacher and Subject Coordinator

Subject Teacher for ICT Skills

Subject Teacher for Communication Skills

THE MANGLAM SCHOOL

Syllabus Break-up for the Session 2024-25

Subject – PHYSICAL EDUCATION

GRADE - XII

Name of the Book	Publisher
Candis -A Textbook of Physical Education	Evergreen Publishers

Term Wise Syllabus

Assessment	Periodic Test 1 (July)	Periodic Test 2 (Sept)
Term 1 (April to September)	Unit 1 to 3 Project Topic -1	Unit 1-6 Project Topic - 2
Assessment	Periodic Test 3 (Nov)	Pre-Board (Jan)
Term 2 (October to February)	Unit 7-8 Project Topic -3, 4	Unit- 1-10 (Whole Course)

Subject weightage - 6 periods per week & Practical 2 Periods per week

Month Wise Syllabus

Month	Chapters	No. of periods	Activity / Project / SEA / Practical / Practice / Lab Work / Field Work
April 2024 (16 days) Actual Teaching Days - 12	Unit 1 – Management of Sports Event	5	Project: Tournament committees Activity: Fixtures (For Team) Activity: Correct Posture (Standing, Sitting, Walking)
	Unit 2 – Children and Women in Sports	5	
	Game Allotment	1	
	Revision	3	
June (9 days) Actual Teaching Days - 5	Unit 3 – Yoga – preventive Measure for Lifestyle Diseases	5	Activity: Asana practice & performance SAI Khelo India, Brockport Physical Fitness Test (BPFT) Practice
	Revision	2	
	Project Topic -1 SAI Khelo India Project (PE Record File)	2	
July (15 days - Before PT1-5; After PT-1 - 10) Actual Teaching Days -10	Revision	5	Project- Paralympics, Special Olympics, Bharat Deaflympics
	Exam PT 1	6	
	Unit 4 - Physical Education and Sports for CSWN (Divyang) Unit 5 – Sports and Nutrition	2	
August (19 days) Actual Teaching Days - 16	Unit 5 – Sports and Nutrition	6	Project- Macro and Micronutrients Activity- Khelo India Fitness Test Project- Sports Injuries
	Revision Unit 5	2	
	Unit 6 – Tests and measurements in Sports	5	
	Revision Unit 6	2	
	Unit 7 – Physiology and Injuries in Sports	5	
	Revision Unit -7	2	
September 11 days	Project Topic 2 (Yoga as a treatment for life diseases and as Alternative Medicine)	2	Procedure for Asanas, Benefits and Contra-indications for any two asanas for lifestyle diseases.
	Revision Practical Exam / Internal	7	

(Before half yearly -10 days. After PT 2 -1 day)	Assessment Exam PT 2 Introduction of Unit 8 - Biomechanics and Sports	1	
October (15 days) Actual teaching days - 14	Unit 8 – Biomechanics and Sports Revision – Unit 8 Unit 9 – Physiology and Sports Revision Unit 9 Project Topic 3 – Interpretation of Newton’s laws of Motions in Sporting Activities. (PE Record File)	4 2 5 2 2	Activity – Newton’s Laws of Motion impact on sports -Practices Activity – Types of Personality Unit 7 and 8
November (16 days) Actual teaching days - 12	Unit 10 – Training in Sports Project 4 – Project on any one IOA recognised game. (PE Record File) Revision Exam PT 3	6 2 8	Fartlek Training Continuous training Awards, Players’ conclusion etc.
December (12 days)	Revision	12	
January 2025 (25 days) Actual Teaching Days - 15	Revision Pre-Board Examination Board Practical Exam / Internal Assessment	15	Previous years’ CBSE exam QP solving
February 2025 (8 days) Actual teaching days - 6	Revision	6	Previous years’ CBSE exam QP solving

Subject Teacher

THE MANGLAM SCHOOL

Syllabus Break-up for the Session 2024-25

Subject – BUSINESS STUDIES

GRADE - XII

Name of the book	Publisher
Business Studies Principles and Functions of Management	Poonam Gandhi, NCRET
Business Finance and Marketing	Poonam Gandhi, NCRET

Term Wise Syllabus

Assessment	Periodic Test 1 (July)	Periodic Test 2 (Sept)
Term 1 (April to September)	Ch. 1 to 3	Ch. 1 to 7
Assessment	Periodic Test 3 (Nov)	Pre-Board (Jan)
Term 2 (October to February)	Ch. 8 to 12	Ch. 1 to 12 (Whole Course)

Subject weightage - 6 periods per week

Month Wise Syllabus

Month	Chapters	No. of	Activity / Project / SEA / Practical /
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		periods	Practice / Lab Work / Field Work
April 2024 (16 days) Actual teaching days -12	Ch. 1 – Nature & Significant of Management Ch. 2 – Principles of Management	6 6	Ch. 1 - Find the words from the grid through link for better understanding of Management. Ch. 2 - Drag the words into correct box to fill the functions of Management through link. Quiz on Principles of Management through link.
June (9 days) Actual Teaching Days 5	Ch. 3 – Business Environment	5	Ch. 3 - Solve the puzzle on Dimensions of Business Environment.
July (15 days - Before PT 1-5; After PT-1 - 10) Actual teaching days -10	Revision Exam PT I Ch. 4 – Planning Ch. 5 – Organising	5 7 3	Ch. 4 - Arrange the steps of planning in proper sequence through link. Ch. 4 - Drag the words into correct box to fill the various types of plans through link.
August (19 days) Actual teaching days -16	Ch. 5 – Organising Ch. 6 – Staffing Ch. 7 – Directing	4 7 5	Ch. 5 - Arrange the steps of Organizing in proper sequence through link. Ch. 5 - Crossword on organizing related term through link. Ch. 6 - Drag the words into correct box to fill the staffing terms through link.
September 11 days (Before half yearly -10 days; After half yearly -1 day)	Ch. 7 – Directing Revision Practical Exam / Internal Assessment Exam PT 2 Discussion of Question paper of PT 2	2 8 1	Ch. 7 - Puzzle on Maslow's Theory of Motivation through link. Ch. 8 - MCQ based quiz on controlling through link.
October (15 days) Actual teaching days -14	Ch. 8 – Controlling Ch. 9 – Financial Management	6 8	Ch. 8 - Drag the words into correct box to understand communication through link Ch. 9 - Quiz on Financial Management through link
November (16 days) Actual teaching days -12	Ch. 10 – Financial Market Revision Exam PT 3	8 4	Ch. 10 - Drag together to make the pair to understand financial market through link.
December (12 days) Actual Teaching Days - 10	Ch. 11 – Marketing Ch. 12 – Consumer Protection Revision	7 8 4	Ch. 11 - Test your understanding of marketing through link. Ch. 12 - Match the correct consumer right for filing the case in consumer case through link. Ch. 12 - MCQ based quiz on consumer protection through link
January 2024 (25 days) Actual Teaching Days - 15	Revision Pre-Board Board Practical Exam / Internal Assessment	15	Previous years' CBSE exam QP solving
February 2024 (8 days) Actual Teaching days - 6	Revision	6	Previous years' CBSE exam QP solving

<https://commerceatease.com/learning-games-and-activities-in-businessstudies-class-12/>

Subject Teacher

THE MANGLAM SCHOOL

Syllabus Break-up for the Session 2024-25

Subject – ACCOUNTANCY

GRADE - XII

Name of the Book	Publisher
Not – for – profit Organisation and Partnership Accounts	TS Grewal NCERT
Company Accounts and Analysis of Financial Statements	TS Grewal NCERT

Term Wise Syllabus

Assessment	Periodic Test 1 (July)	Periodic Test 2 (Sept)
Term 1 (April to September)	Ch. 2, 9 & 10	Ch. 2 to 7, 9 and 10
Assessment	Periodic Test 3 (Nov)	Pre-Board (Jan)
Term 2 (October to February)	Ch. 8 & 11 to 13	1 to 14

Subject weightage - 12 periods per week

Month Wise Syllabus

Month	Chapters	No. of periods	Activity / Project / SEA / Practical / Practice / Lab Work / Field Work
April 2023 (16 days) Actual teaching days - 12	Ch. 9 – Accounting for Share Capital	15	Ch. 9 Drag the terms of share capital to correct box through link. Ch. 10 Put the correct words of debentures in correct box through link.
	Ch. 10 – Issue of Debentures	9	
June (9 days) Actual Teaching days - 5	Ch. 10 – Issue of Debentures	6	
	Revision	4	
July (15 days - Before PT1- 5; After PT-1 - 10) Actual teaching days - 10	Revision	5	Ch. 2 Test your understanding of partnership through link. Ch. 3 Quiz for Goodwill through link.
	PT 1 Ch. 2 – Accounting for Partnership: Fundamentals	12	
	Ch. 3 – Goodwill: Nature and Valuation	8	
August (19 days) Actual teaching days - 16	Ch. 4 – Change In Profit – Sharing Ratio among the Existing Partners	12	Ch. 5 Quiz on admission of a partner through link. Ch. 6 Answer in true and false related to retirement through link.
	Ch. 5 – Admission of a Partner	12	
	Ch. 6 – Retirement of a Partner	8	

September 11 days (Before half yearly -10 days; After half yearly -1 day)	Ch. 6 – Retirement of a Partner Ch. 7 – Death of a Partner Revision Discussion on Question paper	4 12 4 2	Ch. 7 Match the pair related to death through link.
October (15 days) Actual teaching days - 14	Ch. 8 – Dissolution of a Partnership Firm Ch. 11 –Financial Statements of a Company Ch. 12 – Financial Statement Analysis	12 12 4	Ch. 8 Make the correct pairs of dissolution of a partnership firm through link. Ch. 11 Make a PPT on Income Statement and Balance Sheet of any of your favourite company.
November (16 days) Actual teaching days - 12	Ch. 12 – Financial Statement Analysis Ch. 13 – Accounting Ratios Revision PT 3	8 12 4	Ch. 12 MCQ based quiz on comparative statement through link. Ch. 13 Make a detailed file of all the formulas of accounting ratio.
December (12 days)	Ch. 14 – Cash Flow Statement Revision	20 4	Ch. 14 Check your understanding of Cash Flow through link.
January 2024 (25 days) Actual Teaching Days 15	Revision Pre-Board Examination Board Practical Exam / Internal Assessment	30	Previous years' CBSE exam QP solving
February 2024 (8 days) Actual Teaching Days - 6	Revision	12	Previous years' CBSE exam QP solving

Activity : <https://commerceease.com/learning-games-and-activities-inaccountancy-class-12/>

Subject Teacher

THE MANGLAM SCHOOL

Syllabus Break-up for the Session 2024-25

Subject – ECONOMICS (030)

Grade – XII

Name of the book	Publisher
Macro Economics	NCERT
Indian Economic Development	NCERT

Term Wise Syllabus

Assessment	Periodic Test 1 (July)	Periodic Test 2 (Sept)
Term 1 (April to September)	Macro- L1, 2 IED – L 1,2	Macro – L 1 to 4 IED- L 1 to 3
Assessment	Periodic Test 3 (Nov)	Pre-Board (Jan)

Term 2 (October to February)	Macro Economics- L 5, 6 IED – L 4, 5, 6	Macro Economics: L 1 to L 6 IED L 1 to L 10
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Subject weightage - 6 periods per week

Month Wise Syllabus

Month	Chapters	No. of periods	Activity / Project / SEA / Practical / Practice / Lab Work / Field Work
April 2024 (16 days) Total teaching days- 12	Macro:L1 Introduction	6	Discussion on Great depression of 1929. Numerical Prepare a PPT (IED)
	IED:L1 Indian Economy on the Eve of Independence	6	
June (9 days) Total teaching Days-7	Macro L 2 National Income Accounting	4	Prepare a Presentation on determination of Income in two sector model
	IED L 2 Indian Economy (1950-1990)	3	
July (15 days - Before PT 1 – 5 days; After PT 1-10 days) Total teaching Days- 8	Revision & Practice Exam PT 1	5	Make a flow chart. Discussion on eradication of poverty
	IED L- 3 Liberalisation, Privatisation & Globalisation	4	
	IED- L-4 Poverty	4	
August (19 days) Total teaching Days- 17	Macro L-3 Money & Banking	4	Make a PPT on money & Banking Discussion on HCF Collect information about the government scheme. Make a presentation on Economic activities Debate on urban & rural infrastructure
	IED – L 5 Human Capital Formation in India	4	
	IED L-6 Rural Development	3	
	IED L-7 Employment: Growth, Informalisation and Other Issues	3	
	IED L 8 Infrastructure	3	
September 11 days (Before half yearly -10 days; After half yearly -1 day)	Revision & Practice Practical Exam / Internal Assessment Exam PT 2	10	
	Recapitulation	1	
October (15 days) Total teaching days- 14	Macro- L 4 Determination of income & employment	4	Chart making on formulae
	L-5 Government budget & the economy	5	Numericals
	IED L-9 Environment and Sustainable Development	4	Discussion on sustainable development
November (16 days) Total teaching days- 12	Macro L-6 Open Economy Macroeconomics	4	Discussion on open economy
	IED L-10 Comparative Development Experiences of India and its Neighbours	4	Debate
	Revision & Practice	4	
December (12 days) Total Teaching days 10	Revision & Practice	10	
January 2025 (25 days) Total teaching days- 15	Revision & Practice Pre-Board Board Practical Exam / Internal Assessment	15	Previous years' CBSE exam QP solving

February 2025 (9 days) Total teaching days 6	Revision & Practice	6	Previous years' CBSE exam QP solving
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Name of the teacher:

THE MANGLAM SCHOOL

Syllabus Break-up for the Session 2024-25

Subject – BIOLOGY

Grade – XII

Name of the Book	Publisher
Biology (Textbook For Class XII)	NCERT

Term Wise Syllabus

Assessment	Periodic Test 1 (July)	Periodic Test 2 (Sept)
Term 1 April to September	Unit 6- Reproduction	Unit 7 - Genetics And Evolution Unit -8 Biology In Human Welfare
Assessment	Periodic Test 3 (Nov)	Pre-Board (Jan)
Term 2 October to March	Unit 9 - Biotechnology Unit 10-Ecology	Unit 6 To 10

Subject weightage - 6 periods per week & Practical 2 Periods per week

Month Wise Syllabus

Month	Chapters	No. of periods	Activity / Project / SEA / Practical / Practice / Lab Work / Field Work
April 2024 (16 days) Total teaching days- 12	Unit 6 - Reproduction Chapter 1 Sexual Reproduction In Flowering Plants Chapter 2 Human Reproduction	7 6	Pollen Germination Slide - Chart on L.S Of A Flower -Report on Sexually Transmitted Infections (STIs)
June (9 days) Total teaching Days-7	Chapter 3 - Reproductive Health Unit 7 Genetics And Evolution Chapter 4- Principles Of Inheritance And Variation	4 4	Study of Population Density and Population Frequency -Project File on Genetic Disorders
July (15 days - Before PT 1 – 5 days; After PT 1-10 days) Total teaching Days- 8	Revision Exam PT-1 Unit 7 -Continued Chapter 5 - Molecular Basis Of Inheritance	5 2 3	Onion Root Tip Slide -File on Importance of DNA Finger Printing
August (19 days) Total teaching Days- 17	Chapter -6 Evolution Unit 8- Biology In Human Welfare Chapter 7- Human Health And Disease Chapter -8 Microbes In Human Welfare	6 6 6	Isolation of DNA From Plant Material -Report on Evidence For Evolution
September 11 days (Before half yearly -10	Unit 8 - Microbes In Human Welfare Revision For Periodic Test 2	5 5	Revision of Practicals Investigatory Project on Any Patient Suffering From Any Particular Disease.

days; After half yearly -1 day)			
October (15 days) Total teaching days- 14	Unit 9 - Biotechnology Chapter 9 - Biotechnology: Principles And Processes Chapter 10- Biotechnology And Its Applications	7 7	Spotting Report Writing on Uses of Microbes in Different Sectors
November (16 days) Total teaching days- 12	Unit 10 - Ecology Chapter 11 Organisms And Populations Chapter 12 - Ecosystem Chapter 13 - Biodiversity And Conservation Revision Exam PT 3	4 4 4 2	Spotting -Project File on Process of Recombinant Dna Technology -File on Biological Applications in Different Sectors
December (12 days) Total Teaching days 10	Revision	12	-Study of Symbiotic Association -To Study Homologous and Analogous Organs -PPT on Ecosystem and Its Components.
January 2025 (25 days) Total teaching days- 15	Revision Pre- Board Board Practical Exam / Internal Assessment	15	Previous years' CBSE exam QP solving
February 2025 (8 days) Total teaching days 6	Recapitulation And Revision For Annual Exam	6	Previous years' CBSE exam QP solving

Subject Teacher

THE MANGLAM SCHOOL

Syllabus Break-up for the Session 2024-25

Subject – **PHYSICS**

GRADE - XII

Name of the Book	Publisher
Physics Part 1 and 2	NCERT

Term Wise Syllabus

Assessment	Periodic Test 1 (July)	Periodic Test 2 (Sept)
Term 1 (April to September)	Chapter 1 to 3	Chapter 1 to 8
Assessment	Periodic Test 3 (Nov)	Pre-Board (Jan)
Term 2 (October to February)	Chapter 1-14	Chapter 1 to 14 (Whole Course)

Subject weightage - 6 periods per week & Practical 2 Periods per week

Month Wise Syllabus

Month	Chapters	No. of periods	Activity / Project / SEA / Practical / Practice / Lab Work / Field Work
April 2024 (16 days) Actual teaching days -12	Chapter- 1 Electric charges and Fields Chapter- 2 Electrostatic Potential and Capacitance	4+2 5+2	1). To determine resistance per cm of a given wire by plotting a graph for potential difference verses current. 2). To find resistance of a given wire using meter bridge and hence determine the resistivity of its material.
June (9 days) Actual Teaching days 5	Chapter- 3 Current Electricity	5	3). To verify the law of combination (series) of resistances using a meter bridge. 4). To verify the law of combination (parallel) of resistances using a meter bridge
July (15 days - Before PT1- 5; After PT-1 - 10) Actual teaching days -10	Revision Exam PT 1 Chapter- 4 Moving Charges and Magnetism	5 8+2	5). To determine resistance of a galvanometer by half deflection method. 6). To convert the given galvanometer (of known resistance and fig. of merit) into a voltmeter.
August (19 days) Actual teaching days -16	Chapter- 5 Magnetism and Matter Chapter- 6 Electromagnetic Induction Chapter- 7 Alternating Current	8+2 5+2 4+1	7). To convert the given galvanometer (of known resistance & fig. of merit) into an ammeter of desired range. 8). To find the value of V for different values of u in case of a concave mirror and to find f . 9). To find f of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$.
September 11 days (Before half yearly -10 days; After half yearly -1 day)	Chapter 8 – Electromagnetic Waves Revision Practical Exam / Internal Assessment Exam PT 2	6 4	
October (15 days) Actual teaching days -14	Chapter- 9 Ray Optics and Optical Instruments Chapter- 10 Wave Optics Chapter-11 Dual Nature of Radiation and Matter	5+2 = 7 4 4	10). To find the focal length of a concave lens, using a convex lens. 11). To determine angle of minimum deviation for a given prism by plotting a graph. 12). To determine refractive index of a glass slab using a travelling microscope. 13). To find the Refractive index of a liquid by using convex lens & plane mirror.
November (16 days) Actual teaching days -12	Chapter- 12 Atoms Chapter-13 Nuclei Chapter-14 Semiconductor Revision Exam PT 3	3 4 5 4	14). To draw the I-V characteristics curve for a p-n junction in forward bias and reverse bias. 15). To draw the characteristic curve of a Zener diode and to determine its reverse breaks down voltage.

December (12 days)	Revision	12	
January 2025 (25 days) Total teaching days- 15	Revision Pre-Board Examination Board Practical Exam / Internal Assessment	25	Previous years' CBSE exam QP solving
February 2025 (8 days) Total teaching days 6	Revision	8	Previous years' CBSE exam QP solving

Subject Teacher

THE MANGLAM SCHOOL

Syllabus Break-up for the Session 2024-25

Subject – CHEMISTRY

GRADE - XII

Name of the Book	Publisher
Pristine Chemistry Lab Manual	Srijan Publishers
Chemistry for Grade XII	NCERT

Term Wise Syllabus

Assessment	Periodic Test 1 (July)	Periodic Test 2 (Sept)
Term 1 (April to September)	Unit 1 to 3	Unit 1 to 6
Assessment	Periodic Test 3 (Nov)	Pre-Board (Jan)
Term 2 (October to February)	Unit 7 to 10	Unit 7 to 10 (Whole Course)

Subject weightage - 6 periods per week & Practical 2 Periods per week

Month Wise Syllabus

Month	Chapters	No. of periods	Activity / Project / SEA / Practical / Practice / Lab Work / Field Work
April 2024 (16 days) Actual teaching days -12	Unit 1: Solutions Unit 2: Electro Chemistry	6 6	To study the vapour pressure of different liquid solutions and colligative properties. To recognize the various electrochemical process
June (9 days) Actual Teaching days 5	Unit 3: Chemical Kinetics	5	(Analyses and interpretation of graphs) ● To Understand the concept of rate of change associated with chemical change. ● To recognizing the rate of change and how it can be measured.
July (15 days - Before PT1- 5; After PT-1 - 10) Actual teaching days -10	Revision Exam PT 1 Unit 4: d -and f -Block Elements	5 10	To study the catalytic behavior of Transition elements and their applications relevant to daily life.
August (19 days) Actual teaching days -16	Unit 5: Coordination Compounds	8 8	Concept mapping for IUPAC nomenclature for various compounds. To study the classification of

	Unit 6: Haloalkanes and Haloarenes		Haloalkanes and Haloarenes and their applications.
September 11 days (Before half yearly -10 days; After half yearly -1 day)	Revision Practical Examination / Internal Assessment Exam PT 2 Discussion on Question paper	10 1	
October (15 days) Actual teaching days -14	Unit 7: Alcohols, Phenols and Ethers Unit 8: Aldehydes, Ketones and Carboxylic Acids	7 7	Understand the physical and chemical properties of alcohol, phenols & Ether. Recognize the reagents and conditions used for reduction of aldehyde and ketone
November (16 days) Actual teaching days -12	Unit 9: Amines Unit 10: Biomolecules Revision Exam PT 3	5 5 2	To understand Amines as organic compounds and functional groups and its derivatives Understand the biological macromolecules like cellulose proteins, DNA
December (12 days)	Revision	12	
January 2025 (25 days) Total teaching days- 15	Revision Pre-Board Examination Practical Examination / Internal Assessment	25	Previous years' CBSE exam QP solving
February 2025 (8 days) Total teaching days 6	Revision	8	Previous years' CBSE exam QP solving

Subject Teacher

Rajni Chouhan

Chemistry Practical

Month Wise Practical plan
periods

Subject weightage per week: 2

Month	Lesson & No. of Periods	Activity / Project
April 2024	Volumetric Analysis: (Redox Titration) Titration: KMnO ₄ Vs. Mohr's Salt	To prepare 250 ml of M/20 standard solution of Mohr's salt. With the help of this solution, determine the unknown strength of the given solution.
June	Titration: KMnO ₄ Vs. Oxalic acid	To determine the unknown strength of the given solution.
July	Salt analysis: CuCl ₂ , PbCl ₂ , FeCl ₃ , AlCl ₃ etc.	To identify the acidic and basic radical of the given unknown sample.
August	Salt analysis: CaCl ₂ , BaCO ₃ , SrCl ₂ , MgCO ₃ etc.	To identify the acidic and basic radical in the given unknown sample
September	Organic Functional Group	To identify the unknown functional group in the organic sample
October	Chromatography	To separate pigments from extracts of leaves and flowers by paper chromatography and determination of R _f values.
November	REVISION	
December	REVISION	
January 2025	REVISION	
February 2025		

THE MANGLAM SCHOOL
Syllabus Break-up for the Session 2024-25

Subject – MATHEMATICS

GRADE - XII

Name of the Book	Publisher
Mathematics for Grade 12	NCERT

Term Wise Syllabus

Assessment	Periodic Test 1 (July)	Periodic Test 2 (Sept)
Term 1 (April to September)	Chap 1 to 3	Chap 1 to 8
Assessment	Periodic Test 3 (Nov)	Pre-Board (Jan)
Term 2 (October to February)	Chap 1 to 10	Chap 1 to 14 (Whole Course)

Subject weightage - 6 periods per week & Practical 2 Periods per week

Month Wise Syllabus

Month	Chapters	No. of periods	Activity / Project / SEA / Practical / Practice / Lab Work / Field Work
April 2023 (16 days) Actual teaching days -12	Chapter- 1 Relations and Functions Chapter- 2 Inverse Trigonometric Functions	6+2 8+2	1. Activity – 1.2- To verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l, m): l \parallel m\}$ is an equivalence relation. 2. Activity - 1.3- To demonstrate a function which is not one-one but is onto. Activity – 2.1- To find analytically the limit of a function $f(x)$ at $x = c$ and also to check the continuity of the function at that point.
June (9 days) Actual Teaching days 5	Chapter- 3 Matrices	4+2=6	3. Activity – 3.3- To understand the concepts of decreasing and increasing functions. 4. Activity – 3.4- To understand the concepts of local maxima, local minima and point of inflection.
July (15 days - Before PT1- 5; After PT-1 - 10) Actual teaching days -10	Revision Exam PT 1 Chapter- 4 Determinants Chapter: 5 Continuity and Differentiability	5 6+2 4	Activity – 4.1- To evaluate the definite integral $\int_a^b \sqrt{1-x^2} dx$ as the limit of a sum and verify it by actual integration.
August (19 days) Actual teaching days -16	Chapter: 5 Continuity and Differentiability Chapter: 6 Application of Derivatives Chapter: 7 Integrals	2+2 6+2 8+2	Activity – 5.1- To verify that angle in a semicircle is a right angle, using vector method.

September 11 days (Before half yearly -10 days; After half yearly -1 day)	Chapter: 8 Application of Integrals Revision Practical / Internal Assessment Exam PT 2 Recapitulation and solving PT 2 QP	4 10 1	
October (15 days) Actual teaching days -14	Chapter: 9 Differential Equations Chapter: 10 Vector Algebra Chapter:11 Three-Dimensional Geometry	5+2 4 4	Activity – 6.1- To verify that the angle between two planes is the same as the angle between their normal. Activity – 6.2- To measure the shortest distance between two skew lines and verify it analytically.
November (16 days) Actual teaching days -12	Chapter: 12 Linear Programming Chapter: 13 Probability Revision Exam PT 3	4 8 4	Activity – 7.1- To explain the computation of conditional probability of a given event A, when event B has already occurred, through an example of throwing a pair of dice.
December (12 days)	Revision	12	
January 2025 (25 days) Total teaching days- 15	Revision Pre-Board Examination Practical Exams	25	Previous years' CBSE exam QP solving
February 2025 (8 days) Total teaching days 6	Revision	8	Previous years' CBSE exam QP solving

Subject Teacher

Note- The subject teachers may be allotted additional period / block period in December, January and February out of periods available for PE and FND, if those teachers can spare a few. Additional extra classes will be held on non-academic days and Sundays, if required.