

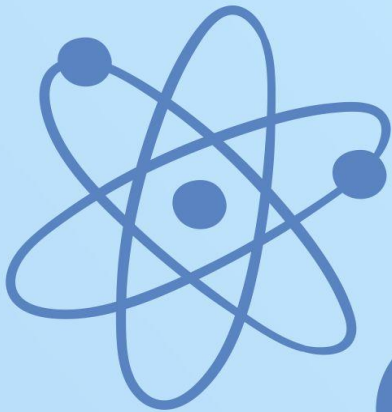


AL FALAH INTERNATIONAL EDUCATION CO.
DPS JEDDAH

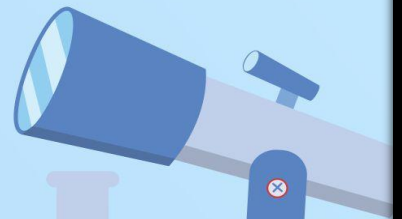


GRADE - XII

ANNUAL
SYLLABI
2024-25



$$E = MC^2$$



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ENGLISH

MONTH	TOPICS TO BE COMPLETED	Activities
MARCH	Flamingo: 1. The Last Lesson 2. Lost Spring Poem 1. My Mother at Sixty-six	ASL
APRIL	Flamingo: 3. Deep Water 4. The Rat trap Vistas: 1. The Third Level Advanced Writing Skills: Job application & CV, Letter of Complaint, Article writing, Notice writing, Report writing,	
MAY	Flamingo: 5. Indigo Poem: 3. Keeping Quiet Vistas: 2. The Tiger king 3. Journey to the end of the World Advanced Writing Skills: Official letters for making enquiries (asking for & giving information), Registering complaints, Writing Formal & Informal Invitations & Replies	ASL
JUNE	Letter to the Editor PROJECT Initiated. Unit Test 1	
JULY / AUGUST	SUMMER VACATION	
AUGUST	Vistas: 4. The Enemy 6. On the Face of It ASL-1 PROJECT SUBMISSION	
SEPTEMBER	Flamingo: 6. Poets and Pancakes 7. The Interview Part 1 & 2 Poem : 4. A Thing of Beauty	ASL
OCTOBER	Flamingo: 8. Going Places	

	Poems: 5. A Roadside Stand 6. Aunt Jennifer's Tigers 1st TERM EXAMINATION	
NOVEMBER	Vistas : 8. Memories of Childhood Advanced Writing Skills: Business letters : Placing Orders & Sending Replies ASL-FINAL	ASL-FINAL
DECEMBER	Revision Listening and speaking skill Practice Revision	Winter Vacation
JANUARY-25	Pre Board Exam	
FEBRUARY-25		

MATHEMATICS

MONTH	TOPICS TO BE COMPLETED
MARCH	Ch-3 Matrices
APRIL	Ch-3 Matrices (To be Continued...) Ch-4 Determinants
MAY	Ch-4 Determinants (To be Continued...) Ch-2 Inverse Trigonometric Functions Ch-1 Relations And Functions Ch-5 Continuity and Differentiability
JUNE	Unit Test 1
JULY / AUGUST	SUMMER VACATION
AUGUST	Ch-5 Continuity and Differentiability (To be Continued....) Ch-6 Application of Derivatives
SEPTEMBER	Ch-7 Integrals Ch-8 Application of Integrals
OCTOBER	Ch-9 Differential Equations 1st TERM EXAMINATION
NOVEMBER	Ch-9 Differential Equations (To be Continued....) Ch-10 Vector Algebra

	Ch-11 Three Dimensional Geometry Ch- 12 Linear Programming Ch-13 Probability
DECEMBER	Ch-13 Probability (To be Continued....)
JANUARY-25	Pre Board Exam
FEBRUARY-25	

BIOLOGY

MONTH	TOPICS TO BE COMPLETED	PRACTICALS
MARCH	Ch. 2: Sexual Reproduction in Flowering plants. Ch. 3: Human Reproduction.	1. Study of T.S. of Blastula, T.S. of Testis, and Ovary.
APRIL	Ch. 3: Human Reproduction(concluded).	2. Isolation of DNA
MAY	Ch. 4: Reproductive Health. Ch. 5: Principles of Inheritance and Variation. Ch. 6: Molecular basis of Inheritance.	3. Study of Pollen Germination on slide. 4. Analysis of Pedigree charts of Widow's Peak, Color Blindness, Blood Groups and Rolling Tongue <i>Investigatory Projects to be discussed and assigned.</i>
JUNE	Ch. 15: Biodiversity and its Conservation Unit Test 1	
JULY / AUGUST	SUMMER VACATION	
AUGUST	Ch. 14: Ecosystems	
SEPTEMBER	Ch. 11: Biotechnology- Principles and Processes Ch. 12: Biotechnology and its Applications Ch. 8: Human Health and Diseases	5. Preparation of Temporary mount of Onion root tip to study mitosis. 6. To study the Plant population density and Plant population frequency by quadrat method.
OCTOBER	Ch. 9: Microbes in Human Welfare Ch. 13: Organisms and Populations 1st TERM EXAMINATION	7. Identification of Disease-causing Organisms and commenting on the disease they cause. 8. Flowers adapted to Pollination by different agencies (wind, insects, and birds).

		9. Meiosis in Onion bud cell or Grasshopper testis through permanent slides.
NOVEMBER	Ch. 7: Evolution	
DECEMBER		10. Models or specimen showing symbiotic association in root nodules of leguminous plants, Cuscuta on host, lichens. 11. Homologous and Analogous organs through flash cards or models.
JANUARY-25	Pre Board Exam	
FEBRUARY-25	Second Term Examination	

PHYSICS

MONTH	TOPICS TO BE COMPLETED	PRACTICALS
MARCH	Chapter-1: Electric Charges and Fields	
APRIL	Chapter-1: Electric Charges and Fields (contd.) Chapter-2: Electrostatic Potential and Capacitance	
MAY	Chapter-2: Electrostatic Potential and Capacitance (contd.) Chapter-3: Current Electricity Chapter-4: Moving Charges and Magnetism	<p style="text-align: center;"><u>Experiments:</u> <u>Section A (Any 4)</u></p> <ol style="list-style-type: none"> To determine resistivity of two / three wires by plotting a graph for potential difference versus current. To find resistance of a given wire / standard resistor using metre bridge. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit. To verify the laws of combination (series) of resistances using a metre bridge. <p style="text-align: center;">OR</p> <p>To verify the laws of combination (parallel) of resistances using a metre bridge.</p> <p style="text-align: center;"><u>Activities</u> <u>Section A (Any 3)</u></p> <ol style="list-style-type: none"> To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter.

		<ol style="list-style-type: none"> To assemble the components of a given electrical circuit. To study the variation in potential drop with length of a wire for a steady current. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source
JUNE	Unit Test 1	
JULY / AUGUST	SUMMER VACATION	
AUGUST	Chapter-4: Moving Charges and Magnetism (contd.) Chapter-5: Magnetism and Matter	
SEPTEMBER	Chapter-6: Electromagnetic Induction Chapter-7: Alternating Current Chapter-8: Electromagnetic Waves Chapter-9: Ray Optics and Optical Instruments	Section B (Any 4) <ol style="list-style-type: none"> To find the value of v for different values of u in case of a concave mirror and to find the focal length. To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$.
OCTOBER	Chapter-9: Ray Optics and Optical Instruments (contd.) 1st TERM EXAMINATION	
NOVEMBER	Chapter-10: Wave Optics Chapter-11: Dual nature of matter and radiations Chapter 12: Atoms Chapter-13: Nuclei	<ol style="list-style-type: none"> To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation. To find refractive index of a liquid by using convex lens and plane mirror. To determine refractive index of a glass slab using a travelling microscope. To draw the I-V characteristic curve for a p-n junction diode in forward bias and reverse bias. To find the refractive index of a liquid using a concave mirror and a plane mirror <p style="text-align: center;">Activities. Section B (Any 3)</p> <ol style="list-style-type: none"> To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items.

		<ol style="list-style-type: none"> 2. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab. 3. To study the nature and size of the image formed by a (i) convex lens, (ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror). 4. To observe diffraction of light due to a thin slit.
DECEMBER	Chapter-14: Semiconductor Electronics: Materials, Devices and Simple Circuits	
JANUARY-25	Pre-Board Exam	
FEBRUARY-25		

CHEMISTRY

MONTH	TOPICS TO BE COMPLETED	PRACTICALS
MARCH	Ch 1: Solutions	Preparation of crystals of Mohr's salt
APRIL	Ch 2: Electrochemistry	Volumetric Analysis: KMnO₄-Oxalic acid Titration KMnO₄-Mohr's salt Titration
MAY	Ch 3: Chemical Kinetics Ch 6: Haloalkanes and Haloarenes	
JUNE	Unit Test 1	
JULY / AUGUST	SUMMER VACATION	
AUGUST	Ch 7: Alcohols, Phenols and Ethers	Barium nitrate, ammonium acetate
SEPTEMBER	Ch 8: Aldehydes, ketones and Carboxylic acids Ch 9: Amines	Test for functional groups present in organic compound To detect the presence of carbohydrates, fats and proteins in given food sample

OCTOBER	Ch 10: Biomolecules 1st TERM EXAMINATION	
NOVEMBER	Ch 4:d- and f-block Elements Ch 5: Coordination Compounds	Salt Analysis NH₄Cl, lead acetate
DECEMBER	Ch 5: Coordination Compounds (Conclude)	
JANUARY-25	Pre Board Exam	
FEBRUARY-25		

INFORMATICS PRACTICES

MONTH	TOPICS TO BE COMPLETED
MARCH	Chapter 2: Data Handling using Pandas – I
APRIL	Chapter 2: Data Handling using Pandas – I (Contd.)
MAY	Chapter 5: Internet and Web
JUNE	Unit Test 1
JULY / AUGUST	SUMMER VACATION
AUGUST	Chapter 1: Querying and SQL Functions
SEPTEMBER	Chapter 1: Querying and SQL Functions(contd...) Chapter 4: Plotting Data Using Matplotlib
OCTOBER	REVISION 1st TERM EXAMINATION
NOVEMBER	Chapter 6: Societal Impacts Project Submission Practical file submission
DECEMBER	REVISION
JANUARY-25	Pre Board Exam
FEBRUARY-25	

ECONOMICS

MONTH	TOPICS TO BE COMPLETED
MARCH	Part A: Introductory Macroeconomics Unit 1: National Income and Related Aggregates
APRIL	Part A: Introductory Macroeconomics Unit 1: National Income and Related Aggregates (Cont.)
MAY	Unit 2: Money and Banking Part B: Indian Economic Development Unit 6: Development Experience (1947-90)- (Project Work-Topic Assigning)
JUNE	Unit Test 1
JULY / AUGUST	SUMMER VACATION
AUGUST	Unit 6: Economic Reforms since 1991: Unit 3: Determination of Income and Employment-(Project Work-Verification)s
SEPTEMBER	Unit 3: Determination of Income and Employment Unit 7: Current challenges facing Indian Economy
OCTOBER	Unit 4: Government Budget and the Economy 1 st TERM EXAMINATION
NOVEMBER	Unit 8: Development Experience of India: Unit 5: Balance of Payments
DECEMBER	Unit 5: Balance of Payments
JANUARY-25	Pre Board Exam
FEBRUARY-25	

BUSINESS STUDIES

MONTH	TOPICS TO BE COMPLETED
MARCH	Unit 1: Nature and significance of management Unit 2: Principles of management
APRIL	Unit 2: Principles of Management (Continuation) Unit 3: Business environment
MAY	Unit 4: Planning <u>Part B: Business Finance and Marketing</u> Unit 11: Marketing management
JUNE	<u>Part B: Business Finance and Marketing</u> Unit 12: Consumer Protection
JULY / AUGUST	SUMMER VACATION
AUGUST	Unit 5: Organizing Unit 6: Staffing
SEPTEMBER	Unit 6: Staffing (continuation) Unit 7: Directing
OCTOBER	Unit 8: Controlling 1 st TERM EXAMINATION
NOVEMBER	<u>Part B: Business Finance and Marketing</u> Unit 9: Financial Management Unit 10: Financial market
DECEMBER	<u>Part B: Business Finance and Marketing</u> Unit 10: Financial Market (continuation) Winter Break 22.12.2024 - 26.12.2024
JANUARY-25	Revision Pre Board Exam
FEBRUARY-25	

ACCOUNTANCY

MONTH	TOPICS TO BE COMPLETED
MARCH	Part B: Financial Statement Analysis Unit 3: Analysis of Financial Statement Financial Statement of a company Financial Statement Analysis Tools of Financial Statement Analysis- Comparative Statement
APRIL	Tools of Financial statement Analysis- Common Size Statement Accounting Ratios
MAY	Accounting Ratios (continuation) Unit 4: Cash flow Statement
JUNE	Unit Test 1
JULY / AUGUST	SUMMER VACATION
AUGUST	Part A: Accounting for Partnership Firm and Companies Unit 1: Accounting for partnership firms: Accounting for Partnership - Fundamentals
SEPTEMBER	Goodwill: Nature and Valuation Changes in profit sharing Ratio among the existing partners Admission of Partner
OCTOBER	Retirement of partner Death of Partner Dissolution of partnership Firm 1 st TERM EXAMINATION
NOVEMBER	Unit 2: Accounting for companies Accounting for Share Capital Accounting for Debentures
DECEMBER	Accounting for Debenture (Continuation)
JANUARY-25	Pre Board Exam
FEBRUARY-25	

COMPULSORY ARABIC

MONTH	TOPICS TO BE COMPLETED
MARCH	U1: في سبيل الله
APRIL	U2: جحا القاضي
MAY	U3: لمن الهدية
JUNE	Unit Test 1
JULY / AUGUST	SUMMER VACATION
AUGUST	U5: الدنانير الذهبية
SEPTEMBER	U6: هذا من فضل الله
OCTOBER	U7: صوم رمضان 1 st TERM EXAMINATION
NOVEMBER	U8: دعاء الأم Revision
DECEMBER	Revision
JANUARY-25	Pre-board
FEBRUARY-25	

S.A.C

MONTH	TOPICS TO BE COMPLETED
MARCH	Unit 7 :- L.1 – Identifying Flora and Fauna
APRIL	L.2 – Plant Life
MAY	L.3 – Animal Life
JUNE	UT 1
JULY / AUGUST	SUMMER VACATION
AUGUST	Unit 8 : L.1 – Ablution
SEPTEMBER	Unit 8 : L.1 – Ablution(Contd.)
OCTOBER	L.2 – Commencing Prayers (Iqamah) 1st TERM EXAMINATION
NOVEMBER	L.3 – The Prayer (salat)
DECEMBER	Revision
JANUARY-25	Revision & Pre-board
FEBRUARY-25	