



**AL FALAH INTERNATIONAL SCHOOL  
DPS JEDDAH**



**GRADE - XII**

# *Annual Syllabi*

*Session* **2019-2020**



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## ENGLISH

MONTH	TOPICS TO BE COMPLETED
<b>MARCH</b>	<p><b>Flamingo:</b></p> <ol style="list-style-type: none"> <li>1. The Last Lesson</li> <li>2. Lost Spring</li> </ol> <p><b>Poem 1.</b> My Mother at Sixty six</p> <p><b>Vistas:</b></p> <ol style="list-style-type: none"> <li>1. The Third Level</li> </ol>
<b>APRIL</b>	<p><b>Flamingo:</b></p> <p>3. Deep Water</p> <p><b>Poem 2.</b> An Elementary Classroom In a Slum</p> <p>3. Keeping Quiet</p> <p><b>Vistas:</b></p> <p>2. The Tiger king</p> <p><b>Advanced Writing Skills:</b></p> <p><b>Note Making, Abstraction, Advertisements (Classified &amp; Commercial), Notice writing, Report writing, Factual Description, Drafting of Poster, Writing Formal &amp; Informal Invitations &amp; Replies</b></p>
<b>MAY</b>	<p><b>Flamingo:</b></p> <ol style="list-style-type: none"> <li>4. The Rat trap</li> <li>5. Indigo</li> </ol> <p><b>Advanced Writing Skills:</b></p> <p>Job application &amp; CV, Letter of Complaint, Article writing,</p>
<b>JUNE</b>	<p><b>Advanced Writing Skills:</b></p> <p>Official letters for making enquiries, Registering complaints, asking for &amp; giving information, Letter to the Editor.</p>
<b>JULY</b>	<p><b>Practical Examinations</b></p>
<b>SEPT.</b>	<p><b>Flamingo:</b></p> <p>6. Poets and Pancakes</p> <p>Poem : 4. A Thing of beauty</p> <p><b>Vistas:</b> 3. Journey to the end of the Earth</p> <ol style="list-style-type: none"> <li>4. The Enemy</li> <li>5. Should Wizard Hit Mommy</li> <li>6. On the Face of It</li> </ol>

<b>OCT.</b>	<b>Flamingo:</b> 7.The Interview Part1 & 2 Poem : A Roadside Stand Aunt Jennifer’s Tigers <b>Vistas: 7.</b> Evans Tries an O- Level <b>Advanced Writing Skills:</b> Business letters : Placing Orders & Sending Replies
<b>NOV.</b>	<b>Flamingo:</b> 8.Going Places <b>Vistas: 8.</b> Memories of Childhood
<b>DEC.</b>	<b>Advanced Writing Skills:</b> <b>Writing speeches &amp; debates</b> <b>Revision</b>
<b>JAN.</b>	<b>Revision &amp; Pre-board</b>

### MATHEMATICS

<b>MONTH</b>	<b>TOPICS TO BE COMPLETED</b>
<b>MARCH</b>	Ch-2 Inverse Trigonometric Functions Ch-3 Matrices
<b>APRIL</b>	Ch-3 Matrices (To be Continued...) Ch-4 Determinants Ch-5 Continuity and Differentiability
<b>MAY</b>	Ch-5 Continuity and Differentiability (To be Continued...) Ch-6 Application of Derivatives
<b>JUNE</b>	Ch-6 Application of Derivatives (To be Continued....)
<b>JULY</b>	Ch-6 Application of Derivatives (To be Continued....)

<b>SEPT.</b>	Ch-6 Application of Derivatives (To be Continued....) Ch-7 Integrals
<b>OCT.</b>	Ch-8 Application of Integrals Ch-9 Differential Equations Ch-12 Linear Programming
<b>NOV.</b>	Ch-10 Vector Algebra Ch-11 Three Dimensional Geometry
<b>DEC.</b>	Ch-13 Probability Ch-1 Relations And Functions
<b>JAN.</b>	<b>Revision and Pre-board</b>

## BIOLOGY

<b>MONTH</b>	<b>TOPICS TO BE COMPLETED</b>	<b>PRACTICALS</b>
<b>MARCH</b>	<b>Ch-5:</b> Principles of Inheritance and Variation <b>Ch-6:</b> Molecular Basis of Inheritance.	
<b>APRIL</b>	<b>Ch-6:</b> Molecular Basis of Inheritance (concluded) <b>Ch-7:</b> Evolution <b>Ch-11:</b> Principles and Processes of Biotechnology	1.Preparation of temporary mount of onion root tip to study mitosis 2.Analysis of pedigree charts on inheritance of widow's peak, colour blindness, blood groups, ear lobes and rolling of tongue 3.Isolation of DNA from plant material like spinach
<b>MAY</b>	<b>Ch-12:</b> Applications of Biotechnology	4.Study of meiosis through permanent slides

		5.Effect of different temperatures on the action of salivary amylase
<b>JUNE</b>	<b>Ch-1:</b> Reproduction in Organisms	Investigatory projects to be discussed and assigned
<b>JULY</b>	<b>Practical Examination</b>	
<b>SEPT.</b>	<b>Ch-2:</b> Sexual Reproduction in Flowering Plants <b>Ch-3:</b> Human Reproduction <b>Ch-4:</b> Reproductive Health	6.Study of pollen germination on a slide 7.Study of TS of mammalian testes and ovary 8.Study of TS of blastula
<b>OCT.</b>	<b>Ch-8:</b> Human Health and Diseases <b>Ch-9:</b> Enhancement in Food Production <b>Ch-10:</b> Microbes in Human Welfare	9.Identification of disease causing organisms and commenting on the diseases they cause 10. Study of soil samples for composition, pH, moisture content and water holding capacity etc.
<b>NOV.</b>	<b>Ch-13:</b> Organisms and Population <b>Ch-14:</b> Ecosystem	11. Study of water samples for pH. 12. Study of plant population frequency/ density by quadrat method 13. Study of hydrophytic adaptive features in two organisms
<b>DEC.</b>	<b>Ch-15:</b> Biodiversity and Conservation <b>Ch-16:</b> Environmental Issues	14. Study xerophytic adaptive features in two organisms (subject to availability of specimens)
<b>JAN.</b>	<b>Revision &amp; Pre-board</b>	

## PHYSICS

MONTH	TOPICS TO BE COMPLETED	PRACTICALS
<b>MARCH</b>	<p><b>Chapter–1:</b> Electric Charges and Fields</p> <p><b>Chapter–2:</b> Electrostatic Potential and Capacitance (Continued)</p>	
<b>APRIL</b>	<p><b>Chapter–2:</b> Electrostatic Potential and Capacitance (concluded)</p> <p><b>Chapter–3:</b> Current Electricity</p> <p><b>Chapter–4:</b> Moving Charges and Magnetism</p>	<p>1.To determine angle of minimum deviation for a given prism by plotting a graph between the angle of incidence and the angle of deviation.</p> <p>2.To find the focal length of a convex lens by plotting graphs between <math>u</math> and <math>v</math> or between <math>1/u</math> and <math>1/v</math>.</p>
<b>MAY</b>	<p><b>Chapter–4:</b> Moving Charges and Magnetism (concluded)</p> <p><b>Chapter–5:</b> Magnetism and Matter</p>	<p>3.To find the value of <math>v</math> for different values of <math>u</math> in case of a concave mirror and to find the focal length.</p> <p>4.To determine resistance per cm of a given wire by plotting a graph of potential difference versus current.</p> <p>5.To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material.</p> <p>6.To verify the laws of combination (series) of resistances using a metre bridge.</p> <p>7.To verify the laws of combination (parallel) of resistances using a metre bridge.</p>

<b>JUNE</b>	<b>Chapter–6:</b> Electromagnetic Induction	
<b>JULY</b>	<b>Practical Examinations</b>	
<b>SEPT.</b>	<b>Chapter–6:</b> Electromagnetic Induction (Continued)  <b>Chapter–7:</b> Alternating Current  <b>Chapter–8:</b> Electromagnetic Waves  <b>Chapter–9:</b> Ray Optics and Optical Instruments	8.To compare the emf 's of two given primary cells using potentiometer. 9.To determine the internal resistance of given primary cell using potentiometer. 10. To determine resistance of a galvanometer by half- deflection method and to find its figure of merit.
<b>OCT.</b>	<b>Chapter–9:</b> Ray Optics and Optical Instruments (concluded)  <b>Chapter–10:</b> Wave Optics  <b>Chapter–11:</b> Dual nature of matter and radiations.	11. To determine refractive index of a glass slab using a travelling microscope. 12. To find refractive index of a liquid by using concave mirror. 13. To find refractive index of a liquid by using convex lens and plane mirror
<b>NOV.</b>	<b>Chapter–12:</b> Atoms  <b>Chapter–13:</b> Nuclei  <b>Chapter–14:</b> Semiconductor Electronics: Materials,  Devices and Simple Circuits	



<b>DEC.</b>	<b>Chapter–14:</b> Semiconductor Electronics: Materials, Devices and Simple Circuits (concluded)  <b>Chapter–15:</b> Communication Systems	14. To draw the I-V characteristics curves of a p-n junction in forward bias 15. To draw the I-V characteristics curves of a p-n junction in reverse bias. 16. To draw the characteristics curve of a zener diode and to determine its reverse break down voltage
<b>JAN.</b>	<b>Revision &amp; Pre-board</b>	

## CHEMISTRY

<b>MONTH</b>	<b>TOPICS TO BE COMPLETED</b>	<b>PRACTICALS</b>
<b>MARCH</b>	Lesson 2: Solutions Lesson 3: Electrochemistry	<ul style="list-style-type: none"> <li>● Preparation of colloidal solution of starch</li> </ul>
<b>APRIL</b>	Lesson 3: Electrochemistry (concluded) Lesson 4: Chemical Kinetics Lesson 5: Surface Chemistry	<ul style="list-style-type: none"> <li>● Preparation of crystals of Mohr's Salt</li> <li>● Volumetric Analysis:              KMnO<sub>4</sub> - Oxalic Acid Titration              KMnO<sub>4</sub> - Mohr's Salt Titration</li> </ul>
<b>MAY</b>	Lesson 6: General Principles and Processes of Isolation of Elements	<ul style="list-style-type: none"> <li>● Salt Analysis: Group Zero ,1 and 2</li> </ul>
<b>JUNE</b>	Lesson 1: Solid State	
<b>JULY</b>	<b>Practical Examinations</b>	

<b>SEPT.</b>	Lesson 10: Haloalkanes and Haloarenes Lesson 11: Alcohols, Phenols and Ethers Lesson 12: Aldehyde, Ketone and Carboxylic acids	<ul style="list-style-type: none"> <li>• Salt Analysis: Group 3,4,5 and 6</li> </ul>
<b>OCT.</b>	Lesson 12: Aldehyde, Ketone and Carboxylic acids (concluded) Lesson 13: Amines Lesson 7: p-Block Element	<ul style="list-style-type: none"> <li>• Test for the functional groups present in organic compound</li> </ul>
<b>NOV.</b>	Lesson 8: d- and f- Block Element Lesson 9: Coordination Compounds	<ul style="list-style-type: none"> <li>• To detect the presence of carbohydrates, fats and proteins in given food sample</li> </ul>
<b>DEC.</b>	Lesson 14: Biomolecules Lesson 15: Polymers Lesson 16: Chemistry in everyday life	
<b>JAN.</b>	<b>Revision &amp; Pre-board</b>	

## ECONOMICS

<b>MONTH</b>	<b>TOPICS TO BE COMPLETED</b>
<b>MARCH</b>	Unit 4 Indian Economy
<b>APRIL</b>	Unit 4 Indian Economy Unit 5 Current challenges facing Indian economy
<b>MAY</b>	Unit 5 Current challenges facing Indian economy
<b>JUNE</b>	Unit 5 Current challenges facing Indian economy
<b>JULY</b>	Unit 6 Development Experience of India
<b>SEPT.</b>	Unit 6 Development Experience of India Unit 1 National Income and Related Aggregates

<b>OCT.</b>	Unit 2 Money and Banking Unit 3 Determination of Income and Employment
<b>NOV.</b>	Balance of Payments Government Budget
<b>DEC.</b>	Government Budget
<b>JAN.</b>	<b>Revision &amp; Pre-board</b>

## ACCOUNTANCY

<b>MONTH</b>	<b>TOPICS TO BE COMPLETED</b>	<b>PROJECT</b>
<b>MARCH</b>	Unit 2. Accounting for Partnership Firms	
<b>APRIL</b>	Unit 2. Accounting for Partnership Firms	
<b>MAY</b>	Unit 2. Accounting for Partnership Firms	
<b>JUNE</b>	Unit 2. Accounting for Partnership Firms	
<b>JULY</b>	Unit 2. Accounting for Partnership Firms	
<b>SEPT.</b>	Unit 5. Cash Flow Statement Unit 1. Financial Statements of Not-for-Profit Organizations	<b>Project Work</b>
<b>OCT.</b>	Unit 1. Financial Statements of Not-for-Profit Organizations	<b>Project Work</b>
<b>NOV.</b>	Unit 3. Accounting for Companies	<b>Project Work</b>
<b>DEC.</b>	Unit 3. Accounting for Companies	<b>Project Work</b>

<b>JAN.</b>	Unit 4. Analysis of Financial Statements <b>Revision &amp; Pre-board</b>	
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## **BUSINESS STUDIES**

<b>MONTH</b>	<b>TOPICS TO BE COMPLETED</b>
<b>MARCH</b>	Unit 1: Nature and Significance of Management Unit 2 : Principles of Management
<b>APRIL</b>	Unit 3:Business Environment Unit 4: Planning Unit 5 : Organising Unit 6 : Staffing
<b>MAY</b>	Unit 6: Staffing to be continued Unit 7: Directing
<b>JUNE</b>	Unit 7 : Directing
<b>JULY</b>	<b>Practical Examinations</b>
<b>SEPT.</b>	Unit 7 : to be continued Unit 8: Controlling Unit 9: Financial Management
<b>OCT.</b>	Unit 9: to be continued Unit 10: Financial Markets Unit 11 : Marketing Management
<b>NOV.</b>	Unit 11 : to be continued
<b>DEC.</b>	Unit 12 : Consumer Protection
<b>JAN.</b>	<b>Revision &amp; Pre-board</b>

## INFORMATICS PRACTICES

MONTH	TOPICS TO BE COMPLETED	PRACTICALS
<b>MARCH</b>	Python Panda Review Unit 1: Data Handling Python pandas – Advanced operations on DataFrame Function Applications	Python pandas lab programs – DataFrame
<b>APRIL</b>	Unit 1: (Continue) Numpy – 1D and 2D array Arithmetic operations on 2D arrays, Plotting with Pyplot	Python pandas lab programs – Numpy array
<b>MAY</b>	Unit 2: Basic Software Engineering Introduction, Software processes, Process activities, Use-case diagrams	
<b>JUNE</b>	Unit 2: (Continue) Practical aspects of software system, Version control system (GIT)	
<b>JULY</b>	<b>Practical Examinations</b>	
<b>SEP.</b>	Unit 3: Data Management Web application that parses a GET and POST request, Interface Python with SQL database	SQL programs
<b>OCT.</b>	Unit 3: (Continue) SQL commands – aggregate functions, having, group by and order by	SQL programs
<b>NOV.</b>	Unit 4: Society, Law and Ethics Intellectual property rights Privacy laws, Cyber crime, Technology and society	<b>Submission of Practical Record (17-NOV)</b>
<b>DEC.</b>	Unit 4: (Continue)	<b>Submission of</b>

	E-waste management, Identity theft, biometrics Role of media in society, Issues with the internet	<b>Project Report (1-DEC)</b>
<b>JAN.</b>	<b>Revision &amp; Pre-board</b>	

## SAUDI ARABIAN CULTURE

<b>MONTH</b>	<b>TOPICS TO BE COMPLETED</b>
<b>MARCH</b>	Unit 7 -: L.1 – Identifying Flora and Fluna
<b>APRIL</b>	L.2 – Plant Life
<b>MAY</b>	L.3 – Animal Life
<b>JUNE</b>	L.4 – Reptiles and Insects
<b>JULY</b>	<b>Revision</b>
<b>SEP.</b>	Unit 8 : L.1 – Ablution
<b>OCT.</b>	L.2 – Commeneing Prayers (Iqamah )
<b>NOV.</b>	L.3 – The Prayer (salat )
<b>DEC.</b>	<b>Revision</b>
<b>JAN.</b>	<b>Revision &amp; Pre-board</b>

## COMPULSORY ARABIC

MONTH	TOPICS TO BE COMPLETED
MARCH	الحج إلى بيت الله الحرام: U11
APRIL	سالم و حصانه: U12
MAY	الأمة الإسلامية: U13
JUNE	جحا و الثروة: U14
JULY	Revision
SEP.	رحلات الفضاء: U15
OCT.	دورة الحياة: U19
NOV.	البطة التي تبيض ذهباً: U20
DEC.	Revision
JAN.	Revision & Pre-board