

CREDENCE HIGH SCHOOL, DUBAI
Syllabus-2021-22

SUBJECT - ENGLISH (CODE-301)

GRADE- 12

TERM - I April – October	TERM - II November-March
<p>FLAMINGO - PROSE</p> <ol style="list-style-type: none"> 1. The Last Lesson (Alphonse Daudet). 2. Lost spring (Anees Jung). 3. Deep Water (William Douglas). 4. The Rat Trap (Selma Lagerlof) <p>FLAMINGO - POETRY</p> <ol style="list-style-type: none"> 1. My Mother at Sixty Six (Kamala Das). 2. An Elementary School Classroom in a Slum (Stephen Spender). 3. Keeping Quiet (Pablo Neruda). 	<p>FLAMINGO - PROSE</p> <ol style="list-style-type: none"> 5. Indigo (Louis Fischer). 6. Poets and Pancakes. 7. The Interview. 8. Going Places (A.R. Barton). <p>FLAMINGO - POETRY</p> <ol style="list-style-type: none"> 4. A Thing of Beauty (John Keats). 5. A Roadside Stand 6. Aunt Jennifer's Tigers (Adrienne Rich).
<p>SUPPLEMENTARY READER (VISTAS)</p> <ol style="list-style-type: none"> 1. The Third Level (Jack Finney). 2. The Tiger King (Kalki). 3. Journey to the End of the Earth (Tishani Doshi) 4. The Enemy Pearl (S. Buck) 	<p>SUPPLEMENTARY READER (VISTAS)</p> <ol style="list-style-type: none"> 5. Should Wizard Hit Mommy (John Updike). 6. On the face of it (Susan Hill). 7. Evans Tries an O-Level (Colin Dexter). 8. Memories of Childhood (Zitkala Sa and Bama)
<p>WRITING</p> <p>Short Writing Tasks.</p> <ol style="list-style-type: none"> 1. Notice Writing. 2. Advertisement. 3. Poster Writing. 4. Invitation and Replies. <p>Long Writing Tasks.</p> <ol style="list-style-type: none"> 5. Letter to the Editor (giving suggestions or 	<p>WRITING</p> <p>Short Writing Tasks.</p> <ol style="list-style-type: none"> 1. Notice Writing. 2. Advertisement. 3. Poster Writing 4. Invitation and Replies <p>Long Writing Tasks.</p> <ol style="list-style-type: none"> 5. Letter to the Editor (giving suggestions or

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<p>opinion on issues of public interest).</p> <p>6. Formal Letters (Letter of Enquiry / Reply / Placing Order / Complaint)</p> <p>7. Application for a job.</p> <p>8. Article Writing.</p> <p>READING COMPREHENSION</p> <p>9. Reading Comprehension -1 (Unseen) to assess comprehension, interpretation, note taking and inference.</p> <p>10. Reading Comprehension -2 (Unseen) case-based factual passage with verbal/visual inputs like statistical data, charts, newspaper report etc.</p>	<p>opinion on issues of public interest).</p> <p>6. Application for a job.</p> <p>7. Debate Writing.</p> <p>8. Speech Writing.</p> <p>READING COMPREHENSION</p> <p>9. Reading Comprehension -1 (Unseen) to assess comprehension, interpretation, note taking and inference.</p> <p>10. Reading Comprehension -2 (Unseen) case-based factual passage with verbal/visual inputs like statistical data, charts, newspaper report etc.</p>
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SUBJECT - MATHS

GRADE- 12

<p style="text-align: center;">TERM - I</p> <p style="text-align: center;">April – October</p>	<p style="text-align: center;">TERM - II</p> <p style="text-align: center;">November-March</p>
<p>1.Relations and functions 2. Inverse Trigonometric Functions 3.Matrices 4.Determinants 5.Vectors 6. Continuity and Differentiability 7. Application of derivatives 8. Integrals 9. Application of integrals 10. Differential equations</p> <p><u>Applied Mathematics</u></p> <p>1.Algebra 2. Calculus 3. Probability 4. Linear Programming 5. Index number and time series</p>	<p>1. Three dimensional Geometry 2.Linear programming 3.Probability</p> <p><u>Applied Mathematics</u></p> <p>1.Financial Mathematics 2. Number,quantification and numerical application 3. Inferential statistics</p>

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SUBJECT - PHYSICS (042)

GRADE- 12

TERM - I April – October	TERM - II November-March
Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential and Capacitance Chapter–3: Current Electricity Chapter–4: Moving Charges and Magnetism Chapter–5: Magnetism and Matter Chapter–6: Electromagnetic Induction Chapter–7: Alternating Current	Chapter–8: Electromagnetic Waves Chapter–9: Ray Optics and Optical Instruments Chapter–10: Wave Optics Chapter–11: Dual Nature of Radiation and Matter Chapter–12: Atoms Chapter–13: Nuclei Chapter–14: Semiconductor Electronics

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SUBJECT - CHEMISTRY (043)

GRADE- 12

TERM - I April – October	TERM - II November-March
<ol style="list-style-type: none">1. Unit II: Solutions2. Unit IV: Chemical Kinetics3. Unit I: Solid State4. Unit III: Electrochemistry5. Unit V: Surface Chemistry6. Unit X: Haloalkanes and Haloarenes7. Unit XI: Alcohols, Phenols and Ether8. Unit XII: Aldehydes, Ketones and Carboxylic Acids9. Unit XIII: Amines	<ol style="list-style-type: none">1. Unit IX: Coordination Compounds2. Unit VII: p-Block Elements3. Unit VIII: d and f Block Elements4. Unit XIV: Biomolecules5. Unit XV: Polymers6. Unit XVI: Chemistry in Everyday life7. Unit VI: General Principles and Processes of Isolation of Elements

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SUBJECT - BIOLOGY

GRADE- 12

TERM - I April – October	TERM - II November-March
Chapter-3: Human Reproduction Chapter-4: Reproductive Health Chapter-5: Principles of Inheritance and Variation Chapter-6: Molecular Basis of Inheritance Chapter-11: Biotechnology Chapter-12: Biotechnology and its Application Chapter-8: Human Health and Disease	Chapter-10: Microbes in Human Welfare Chapter-13: Organisms and Populations Chapter-15: Biodiversity and its Conservation

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SUBJECT - ACCOUNTANCY (055)

GRADE- 12

<p>TERM - I</p> <p>April – October</p>	<p>TERM - II</p> <p>November-March</p>
<p>Part A: Accounting for Partnership Firms.</p> <p>1. Chapter 2:- Partnership Fundamentals 2. Chapter 3:- Goodwill Nature and Valuation.</p> <p>Part B: Analysis of Financial statement.</p> <p>3. Chapter 1:- Financial Statements of the company. 4. Chapter 2:- Financial statement Analysis. 5. Chapter 3:- Tools of Financial Statement. 6. Chapter 4:- Accounting Ratios. 7. Chapter 5:- Cash Flow Statement.</p> <p>Part A:</p> <p>8. Chapter 1:- Financial statement of Non for Profit Organisation. 9. Chapter 4:- Change in Profit sharing Ratio 10. Chapter 5:- Admission of a partner. 11 Chapter 6:- Retirement and death of a Partner. 12. Chapter 7:- Dissolution of a partnership Firm.</p>	<p>Part A: Company Accounts</p> <p>1. Chapter 8:- Accounting for Share Capital. 2. Chapter 9:- Issue of Debentures. 3. Chapter 10:- Redemption of Debentures.</p>

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SUBJECT - BUSINESS STUDIES (054)

GRADE- 12

<p style="text-align: center;">TERM - I</p> <p style="text-align: center;">April – October</p>	<p style="text-align: center;">TERM - II</p> <p style="text-align: center;">November-March</p>
<p><u>PART A: PRINCIPLES AND FUNCTIONS OF MANAGEMENT</u></p> <ol style="list-style-type: none"> 1. UNIT- 1: Nature and significance of management 2. UNIT- 2: Principles of management 3. UNIT- 3: Business environment 4. UNIT- 4: Planning 5. UNIT- 5: Organising 6. UNIT- 6: Staffing 7. UNIT- 7: Directing 8. UNIT- 8: Controlling <p><u>PART B: BUSINESS FINANCE AND MARKETING</u></p> <ol style="list-style-type: none"> 9. UNIT- 9: Financial management 10. UNIT- 10: Financial markets 	<p><u>PART B: BUSINESS FINANCE AND MARKETING (continued)</u></p> <ol style="list-style-type: none"> 1. UNIT- 11: Marketing 2. UNIT- 12: Consumer protection

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SUBJECT - ECONOMICS (030)

GRADE- 12

TERM - I April – October	TERM - II November-March
<p><u>PART A: INTRODUCTORY MACROECONOMICS</u></p> <ol style="list-style-type: none"> 1. UNIT- 1: National income and related aggregates 2. UNIT- 2: Money and banking 3. UNIT- 3: Determination of income and employment <p><u>PART B: INDIAN ECONOMIC DEVELOPMENT</u></p> <ol style="list-style-type: none"> 4. UNIT- 6: Development experience (1947-90) and economic reforms since 1991 5. UNIT- 7: Current challenges facing Indian economy 6. UNIT- 8: Development experience of India 	<p><u>PART A: INTRODUCTORY MACROECONOMICS (continued)</u></p> <ol style="list-style-type: none"> 1. UNIT- 4: Government budget and the economy 2. UNIT- 5: Balance of payments

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SUBJECT - INFORMATION PRACTICES(065)

GRADE- 12

TERM - I April – October	TERM - II November-March
<p>Unit-1- Data Handling using Pandas and Data Visualization</p> <p>Data handling using Pandas – II</p> <ul style="list-style-type: none"> ● Introduction to Python libraries- Pandas, Matplotlib. ● Data structures in Pandas - Series and Data Frames. ● Operations on rows and columns: ● Boolean Indexing; Joining, Merging and Concatenation ● Importing/Exporting Data between CSV files and Data Frames <p>Data handling using Pandas – II</p> <ul style="list-style-type: none"> ● Descriptive Statistics: ● DataFrame operations: ● Importing/Exporting Data between MySQL database and Pandas <p>Data Visualization</p> <ul style="list-style-type: none"> ● Purpose of plotting; drawing and saving following types of plots using Matplotlib – line plot, bar graph, histogram, pie chart, frequency polygon, box plot and scatter plot. ● Customizing plots: color, style (dashed, dotted), width; adding label, title, and legend in plots. 	<p>Unit-3-Introduction to Computer Networks</p> <ul style="list-style-type: none"> ● Introduction to networks, Types of network: LAN, MAN, WAN. ● Network Devices: modem, hub, switch, repeater, router, gateway ● Network Topologies: Star, Bus, Tree, Mesh. ● Introduction to Internet, URL, WWW and its applications- Web, email, Chat, VoIP. ● Website and web browsers <p>Unit 4: Societal Impacts</p> <ul style="list-style-type: none"> ● Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), ● plagiarism, licensing and copyright, free and open source software (FOSS), cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act. ● E-waste: hazards and management. ● Awareness about health concerns related to the usage of technology

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Unit-2- Database Query using SQL

- Math functions:
- Text functions:
- Date Functions
- Aggregate Functions:
- Querying and manipulating data using Group by, Having, Order by.
- Operations on Relations - Union, Intersection, Minus, Cartesian Product, JOIN

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SUBJECT - COMPUTER SCIENCE(083)

GRADE- 12

TERM - I April – October	TERM - II November-March
<p>Unit I: Computational Thinking and Programming -2</p> <p>Revision of Python Functions File handling Text file Binary file CSV File Using python Libraries Data structures</p> <p>Unit II: Computer Networks</p> <p>Evolution of Networking Data communication terminologies Transmission media Network devices Network Topologies Network protocol Mobile telecommunication Network security concepts Web services</p>	<p>Unit III:</p> <p>Database management</p> <p>Database concepts Relational database Structured Query Language Data types SQL commands SQL Functions</p> <p>Interface with Python with an SQL database</p> <p>Practical</p> <p>Project</p>

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SUBJECT - ISLAMIC STUDIES

GRADE- 12

<p>TERM - I</p> <p>April – October</p>	<p>TERM - II</p> <p>November-March</p>
<ol style="list-style-type: none"> 1. Surah An Noor 2. Extremism 3. The slander against Aisha (RA) 4. Marital dissolution, separation from spouses 	<ol style="list-style-type: none"> 1. Divine laws 2. Marriage is the path of chastity 3. Tolerance towards people of different faiths 4. Creative thinking in Islam



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SUBJECT - MEP

GRADE- 12

TERM - I April – October	TERM - II November-March
<ol style="list-style-type: none">1. UNIT- 1: Managing real world finances2. UNIT- 2: Ethics in real life	<ol style="list-style-type: none">1. UNIT- 3 - 6: Project – Living a Moral Life and Morality in Practice