

CREDENCE HIGH SCHOOL, DUBAI
SYLLABUS

PRE BOARD - GRADE 12 -2025-2026

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ENGLISH

UNIT NO	UNIT NAME	CHAPTER NUMBER AND CHAPTER NAME	WEIGHTAGE
1	Reading Comprehension	1. Factual, descriptive or literary passage. 2. Case Study based Passage with verbal/visual inputs like statistical data, charts etc. to assess comprehension, interpretation, analysis, inference and evaluation.	22
2	Writing	1. Notice Writing 2. Invitations and Replies 3. Letter to the Editor 4. Job Application & Biodata 5. Report Writing 6. Article Writing	18
3	Literature	FLAMINGO Prose 1. The Last Lesson 2. Lost Spring 3. Deep Water 4. The Rattrap 5. Indigo 6. Poets and Pancakes 7. The Interview 8. Going Places Poetry 1. My Mother at Sixty-Six 2. Keeping Quiet 3. A Thing of Beauty 4. A Roadside Stand 5. Aunt Jennifer's Tigers VISTAS 1. The Third Level 2. The Tiger King 3. Journey to the End of the Earth 4. The Enemy 5. On the Face of It (Play) 6. Memories of Childhood (The Cutting of My Long Hair and We Too are Human Beings)	40
TOTAL			80

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MATHEMATICS

UNIT NO	UNIT NAME	CHAPTER NUMBER AND CHAPTER NAME	WEIGHTAGE
I	Relations and Functions	1.Relations and Functions 2.Inverse Trigonometric Functions	08
II	Algebra	3.Matrices 4.Determinants	10
III	Calculus	5.Continuity and Differentiability 6.Applications of Derivatives 7.Integrals 8.Application of the Integrals 9.Differential Equations	35
IV	Vectors and Three-dimensional Geometry	10.Vectors 11.Three-dimensional Geometry	14
V	Linear Programming Problem	12.Linear Programming	05
VI	Probability	13. Probability	08
TOTAL			80

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APPLIED MATHEMATICS			
UNIT NO	UNIT NAME	CHAPTER NUMBER AND CHAPTER NAME	WEIGHTAGE
1	Numbers, Quantification and Numerical Applications	1.Numbers & Quantification 2.Numerical Applications	11
2	Algebra	3.Matrices 4.Determinant	10
3	Calculus	5.Differentiation and its Applications 6.Integration and its Applications 7.Differential Equations and Modeling	15
4	Probability Distributions	8.Probability Distributions	10
5	Inferential Statistics	9.Inferential Statistics	5
6	Time-based data	10.Time-based data	6
7	Financial Mathematics	11.Financial Mathematics	15
8	Linear Programming	12.Linear Programming	8
TOTAL			80

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PHYSICS

UNIT NO	UNIT NAME	CHAPTER NUMBER AND CHAPTER NAME	WEIGHTAGE
1	Electrostatics	Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential and Capacitance	16
2	Current Electricity	Chapter–3: Current Electricity	
3	Magnetic Effects of Current and Magnetism	Chapter–4: Moving Charges and Magnetism Chapter–5: Magnetism and Matter	17
4	Electromagnetic Induction and Alternating Currents	Chapter–6: Electromagnetic Induction Chapter–7: Alternating Current	
5	Electromagnetic Waves	Chapter–8: Electromagnetic Waves	18
6	Optics	Chapter–9: Ray Optics and Optical Instruments Chapter–10: Wave Optics	
7	Dual Nature of Radiation and Matter	Chapter–11: Dual Nature of Radiation and Matter	12
8	Atoms and Nuclei	Chapter–12: Atoms Chapter–13: Nuclei	
9	Electronic Devices	Chapter –14: Semiconductor Electronics: Materials, Devices and Simple Circuits	7
TOTAL			70

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CHEMISTRY			
UNIT NO	UNIT NAME	CHAPTER NUMBER AND CHAPTER NAME	WEIGHTAGE
1	Solutions	Chapter 1:Solutions	7
2	Electrochemistry	Chapter 2:Electrochemistry	9
3	Chemical Kinetics	Chapter 3:Chemical Kinetics	7
4	d -and f -Block Elements	Chapter 4:d -and f -Block Elements	7
5	Coordination Compounds	Chapter 5:Coordination Compounds	7
6	Haloalkanes and Haloarenes	Chapter 6:Haloalkanes and Haloarenes	6
7	Alcohols, Phenols and Ethers	Chapter 7:Alcohols, Phenols and Ethers	6
8	Aldehydes, Ketones and Carboxylic Acids	Chapter 8:Aldehydes, Ketones and Carboxylic Acids	8
9	Amines	Chapter 9:Amines	6
10	Biomolecules	Chapter 10:Biomolecules	7
TOTAL			70

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BIOLOGY

UNIT NO	UNIT NAME	CHAPTER NUMBER AND CHAPTER NAME	WEIGHTAGE
VI	Reproduction	Chapter-1: Sexual Reproduction in Flowering Plants Chapter-2: Human Reproduction Chapter-3: Reproductive Health	16
VII	Genetics and Evolution	Chapter-4: Principles of Inheritance and Variation Chapter-5: Molecular Basis of Inheritance Chapter-6: Evolution	20
VIII	Biology and Human Welfare	Chapter-7: Human Health and Diseases Chapter-8: Microbes in Human Welfare	12
IX	Biotechnology and its Applications	Chapter-9: Biotechnology - Principles and Processes Chapter-10: Biotechnology and its Applications	12
X	Ecology and Environment	Chapter-11: Organisms and Populations Chapter-12: Ecosystem Chapter-13: Biodiversity and its Conservation	10
TOTAL			70

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ACCOUNTANCY			
UNIT NO	UNIT NAME	CHAPTER NUMBER AND CHAPTER NAME	WEIGHTAGE
Part A Unit-1	Accounting for Partnership Firms	Ch-1 Accounting for Partnership Firms- Fundamentals Ch-2 Goodwill Nature and Valuations Ch-3 Change in Profit Sharing Ratio Ch-4 Admission of a Partner Ch-5 Retirement and death of a partner Ch-6 Dissolution of a partnership firm	36
Unit 2	Accounting for Companies	Ch- 7 Accounting for Share Capital Ch-8 Accounting for Debentures	24
<u>Part B</u> Unit 3.	<u>Financial Statement Analysis</u> Analysis of Financial Statements	Ch-9 Financial Statements of a Company & Financial Statement Analysis Ch-10 Comparative and Common Size Statements Ch-11 Ratio Analysis	8
Unit 4.	Cash Flow Statement	Ch-12 Cash Flow Statement	12
TOTAL			80

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BUSINESS STUDIES

UNIT NO	UNIT NAME	WEIGHTAGE
<u>PART A : Principles and Functions of Management</u>		
1	Nature and Significance of Management	16
2	Principles of Management	
3	Business Environment	
4	Planning	14
5	Organising	
6	Staffing	20
7	Directing	
8	Controlling	
<u>PART B: Business Finance and Marketing</u>		
7	Financial Management	15
8	Financial Markets	
9	Marketing Management	15
10	Consumer Protection	
TOTAL		80

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ECONOMICS

UNIT NO	UNIT NAME	CHAPTER NUMBER AND CHAPTER NAME	WEIGHTAGE
<u>Part A: Introductory Macroeconomics</u>			
1	Unit 1: National Income and Related Aggregates	Chapter 1: Macroeconomics: Some Basic Concepts Chapter 2: National Income and Related Aggregates	10
2	Unit 2: Money and Banking	Chapter 3: Money Chapter 4: Banking	06
3	Unit 3: Determination of Income and Employment	Chapter 5: Aggregate Demand and its Components Chapter 6: Equilibrium Level of Income and Output Chapter 7: Investment Multiplier Chapter 8: Problems of Deficient Demand and Excess Demand	12
4	Unit 4: Government Budget and the Economy	Chapter 9: Government Budget and the Economy	06
5	Unit 5: Balance of Payments	Chapter 10: Balance of Payments (BOP) Chapter 11: Foreign Exchange Rate	06
<u>Part B Indian Economic Development</u>			
6	Unit 6: Development Experience (1947-90) and Economic Reforms since 1991	Chapter 12: Indian Economy on the Eve of Independence Chapter 13: Indian Economy (1950–1990) Chapter 14: Economic Reforms since 1991 (Liberalisation, Privatisation, and Globalisation)	12
7	Unit 7: Current challenges facing Indian Economy	Chapter 15: Human Capital Formation in India Chapter 16: Rural Development Chapter 17: Employment: Growth, Informalisation, and Other Issues Chapter 18: Environment and Sustainable Development	20
8	Unit 8: Development Experience of India:	Chapter 19: Comparative Development Experiences of India and its Neighbours	08
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INFORMATICS PRACTICES			
UNIT NO	UNIT NAME	CHAPTER NUMBER AND CHAPTER NAME	WEIGHTAGE
1	Unit 1: Data Handling using Pandas -I	1. Introduction to Python libraries- Pandas, Matplotlib; Data structures in Pandas - Series and Data Frames. 2. Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head() and Tail() functions; Selection, Indexing and Slicing. 3. Data Frames: creation- from dictionary of Series, list of dictionaries, Text/CSV files, display; iteration; Operations on rows and columns: add, select, delete, rename; Head and Tail functions; Indexing using Labels, Boolean Indexing; Importing/Exporting Data between CSV files and Data Frames. 4. Data Visualization Purpose of plotting; drawing and saving following types of plots using Matplotlib – line.plot, bar graph, histogram Customizing plots: adding label, title, and legend in plots.	25
2	Unit 2: Database Query using SQL	1. Revision of database concepts and SQL commands covered in class XI Math functions: POWER (), ROUND (), MOD (). 2. Text functions: UCASE ()/UPPER (), LCASE ()/LOWER (), MID ()/SUBSTRING ()/SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM (). 3. Date Functions: NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME (). 4. Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*).	25

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		5. Querying and manipulating data using Group by, Having, Order by. Working with two tables using equi-join	
3	Unit 3: Introduction to Computer Networks	1. Introduction to networks, Types of network: PAN, LAN, MAN, WAN. 2. Network Devices: modem, hub, switch, repeater, router, gateway 3. Network Topologies: Star, Bus, Tree, Mesh. Introduction to Internet, URL, WWW, and its applications- Web, email, Chat, VoIP. 4. Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website. 5. Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.	10
4	Unit 4: Societal Impacts	1. 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 the Indian IT Act. 2. E-waste: hazards and management. Awareness about health concerns related to the usage of technology.	10
TOTAL			70

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COMPUTER SCIENCE

UNIT NO	UNIT NAME	CHAPTER NUMBER AND CHAPTER NAME	WEIGHTAGE
1.	Computational thinking and Programming - 2	1. Revision of Python topics covered in Class XI. 2. Functions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope) 3. Exception Handling: Introduction, handling exceptions using try-except-finally blocks 4. Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths 5. Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file 6. Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file 7. CSV file: import csv module, open / close csv file, write into a csv file using writer(),writerow(),writerows() and read from a csv file using reader() 8. Data Structure: Stack, operations on stack (push & pop), implementation of stack using list.	40

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2.	Computer Networks	1. Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET) 2. Data communication terminologies: concept of communication, components of data communication (sender, receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet switching) 3. Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves) 4. Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card) 5. Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree) 6. Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP 7. Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting	10
3.	DBMS	1. Database concepts: introduction to database concepts and its need. 2. Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key) 3. Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary	20

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		key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and natural join. 4. Interface of python with an SQL database: connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format specifier or format() to perform queries.	
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PSYCHOLOGY

UNIT NO	UNIT NAME	CHAPTER NUMBER AND CHAPTER NAME	WEIGHTAGE
I	Variations in Psychological Attributes	1. Variations in Psychological Attributes	13
II	Self and Personality	2. Self and Personality	13
III	Meeting Life Challenges	3. Meeting Life Challenges	9
IV	Psychological Disorders	4. Psychological Disorders	12
V	Therapeutic Approaches	5. Therapeutic Approaches	9
VI	Attitude and Social Cognition	6. Attitude and Social Cognition	8
VII	Social Influence and Group Processes	7. Social Influence and Group Processes	6
TOTAL			70

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PAINTING

PAINTING			
UNIT NO	UNIT NAME	CHAPTER NUMBER AND CHAPTER NAME	WEIGHTAGE
1	Unit 1	Manuscript Painting Tradition	1
		The Rajasthani Schools of Painting	7
2	Unit 2	The Mughal Schools of Miniature Painting	3
		The Deccani Schools of Painting	3
		The Pahari Schools of Painting	3
3	Unit 3	The Bengal Schools and Cultural Nationalism	7
		The Modern Indian Art	3
		The Living Art Traditions of India	3
TOTAL			70

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MARKETING

UNIT NO	UNIT NAME	WEIGHTAGE
<u>Part A-Employability Skill</u>		
1	Communication Skills-IV	2
2	Self-Management Skills-IV	2
3	ICT Skills-IV	2
4	Entrepreneurial Skills-IV	2
5	Green Skills-IV	2
<u>Part B-Subject Specific Skills</u>		
1	Product	10
2	Price Decision	10
3	Place Decision: Channels of Distribution	10
4	Promotion	10
5	Emerging Trends in Marketing	10
TOTAL		60

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ARTIFICIAL INTELLIGENCE

UNIT NO	UNIT NAME	CHAPTER NUMBER AND CHAPTER NAME	WEIGHTAGE
1	Employability Skills	Communication Skills ,Self- Management Skills, Information and Communication Technology Skills, Entrepreneurial Skills, Green Skills	10
2	Data Science Methodology: An Analytic Approach to Capstone Project	Introduction to Data Science Methodology, Steps for Data Science Methodology, Model Validation Techniques , Model PerformanceEvaluation Metrics	8
3	Making Machines See	How Machines See, Working of Computer Vision , Computer Vision Process , Applications of Computer Vision , Challenges of Computer Vision , The Fu	6
5	Introduction to Big Data and Data Analytics	Introduction to Big Data , Types of Big Data , Advantages and Disadvantages of Big Data, Characteristics of Big Data , Big Data Analytics , Working on Big Data Analytics , Mining Data Streams, Future of Big Data Analytics	6
6	Understanding Neural Networks	Parts of a Neural Network , Components of a Neural Network, Working of a Neural Network , Types of Neural Networks , Future of Neural Networks and Societal Impact	8
7	Generative AI	Introduction to Generative AI, Working of Generative AI , Generative and Discriminative models , Applications of Generative AI , LLM- Large Language Model , Future of Generative AI , Ethical and Social Implications of Generative AI	7
8	Data Storytelling	Introduction to Storytelling , Elements of a Story, Introduction to Data Storytelling , Why is Data Storytelling Powerful, Essential Elements of Data Storytelling , Narrative Structure of a Data Story (Freytag's Pyramid) , Types of Data and Visualizations for Different Data , Steps to Create a Story Through Data , Ethics in Data Storytelling	5
TOTAL			50

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PHYSICAL EDUCATION			
UNIT NO	UNIT NAME	CHAPTER NUMBER AND CHAPTER NAME	WEIGHTAGE
1	Training in Sports	Training in Sports	12
2	Psychology and Sports	Psychology and Sports	9
3	Biomechanics and Sports	Biomechanics and Sports	15
4	Physiology & Injuries in Sport	Physiology & Injuries in Sport	10
5	Test & Measurement in Sports	Test & Measurement in Sports	8
6	Sports & Nutrition	Sports & Nutrition	8
7	Physical Education and Sports for CWSN (Children with Special Needs - Divyang)	Physical Education and Sports for CWSN (Children with Special Needs - Divyang)	8
TOTAL			70