



Delhi Public School Srinagar

Syllabus 2020

Class XII
COMMERCE

SUBJECT: ENGLISH (301)

MARCH

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
			21
2 ND WEEK	<i>Notices, An elementary school classroom in a slum.</i>		
3 RD WEEK	<i>Lost Spring</i>		
4 TH WEEK	<i>Invitations and replies</i>		
5 TH WEEK	<i>Comprehension passages.</i>		

APRIL

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
			26
1 ST WEEK	<i>Roadside Stand</i>		
2 ND WEEK	<i>Memories of Childhood Anecdote 1</i>		
3 RD WEEK	<i>Memories of Childhood Anecdote 2</i>		
4 TH WEEK	<i>Indigo</i>		
5 TH WEEK	<i>Aunt Jennifer's Tigers</i>		

MAY

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
			27
1 ST WEEK	<i>The last lesson, Curriculum Vitae</i>		
2 ND WEEK	<i>A thing of Beauty, A letter to Editor.</i>		
3 RD WEEK	<i>Third Level, Note making.</i>		
4 TH WEEK	<i>Report Writing (Newspaper Report) (Magazine Report)</i>		
5 TH WEEK	<i>Report Writing (Contd.)</i>		

JUNE

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
			26
1 ST WEEK	<i>Going Places Article Writing</i>		
2 ND WEEK	<i>Business Letters</i>		
3 RD WEEK	<i>Business Letters (contd.)</i>		

	<i>ASL</i>
4TH WEEK	<i>Mid-Term Examination</i>
5TH WEEK	<i>Mid-Term Examination</i>

JULY

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
			5
1ST WEEK	<i>Mid-Term Examination</i>		
2ND WEEK	<i>Mid-Term Examination</i>		
3RD WEEK	<i>Summer Break</i>		
4TH WEEK	<i>Summer Break/ Cross Checking</i>		
5TH WEEK	<i>My Mother at Sixty Six</i>		

AUGUST

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
			26
1ST WEEK	<i>The Rat Trap, Speech Writing</i>		
2ND WEEK	<i>On the Face of It</i>		
3RD WEEK	<i>Should Wizard Hit Mommy? Comprehension Passage.</i>		
4TH WEEK	<i>Enemy</i>		
5TH WEEK	<i>Debate Writing</i>		

SEPTEMBER

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
			26
1ST WEEK	<i>Keeping Quiet The Tiger King</i>		
2ND WEEK	<i>Journey to the end of the earth, Deep water</i>		
3RD WEEK	<i>Evans Tries an O-Level</i>		
4TH WEEK	<i>Evans Tries an O-Level (contd.) The interview.</i>		
5TH WEEK	<i>Poster Making Note Making Passage</i>		

OCTOBER

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
			9
1ST WEEK	<i>Poets and Pan-cakes, Advertisements</i>		
2ND WEEK	<i>Advertisements (Contd.)</i>		
3RD WEEK	<i>Post-Mid Examination</i>		
4TH WEEK	<i>Post-Mid Examination</i>		
5TH WEEK	<i>Post-Mid Examination</i>		

NOVEMBER

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
1ST WEEK	<i>ASL & Project Work</i>		
2ND WEEK	<i>Revision</i>		
3RD WEEK	<i>Preboard Examination</i>		
4TH WEEK	<i>Preboard Examination</i>		
5TH WEEK	<i>Preboard Examination</i>		

DECEMBER

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
1ST WEEK	<i>External Practical Examination</i>		
2ND WEEK	<i>External Practical Examination</i>		
3RD WEEK	<i>External Practical Examination</i>		
4TH WEEK	<i>External Practical Examination</i>		

SUBJECT: ACCOUNTANCY (055)

MARCH

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<i>Financial Statements for Not for Profit Organizations.</i>	10	25
2ND WEEK	<i>Financial Statements for Not for Profit Organizations.</i>	
3RD WEEK	<i>Financial Statements for Not for Profit Organizations.</i>	
4TH WEEK	<i>Financial Statements for Not for Profit Organizations.</i>	
5TH WEEK	<i>Financial Statements for Not for Profit Organizations.</i>	

APRIL

TOPICS / CHAPTERS	WEIGHT -AGE	TEACHING PERIODS
<i>Accounting for Partnership Firms.</i>	30	90
1STWEEK	<i>Accounting for Partnership Firms.</i>	
2ND WEEK	<i>Accounting for Partnership Firms.</i>	
3RD WEEK	<i>Accounting for Partnership Firms.</i>	
4TH WEEK	<i>Accounting for Partnership Firms.</i>	
5TH WEEK	<i>Accounting for Partnership Firms.</i>	

MAY

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<i>Accounting for Partnership Firms.</i>	-	-
1ST WEEK	<i>Accounting for Partnership Firms.</i>	
2ND WEEK	<i>Accounting for Partnership Firms.</i>	
3RD WEEK	<i>Accounting for Partnership Firms.</i>	
4TH WEEK	<i>Accounting for Partnership Firms.</i>	
5TH WEEK	<i>Accounting for Partnership Firms.</i>	

JUNE

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
➤ <i>Accounting for Partnership Firms.</i>		-	-
➤ <i>Accounting for Companies.</i>		20	35
1ST WEEK	<i>Accounting for Partnership Firms.</i>		
2ND WEEK	<i>Accounting for Companies.</i>		
3RD WEEK	<i>Accounting for Companies.</i>		
4TH WEEK	<i>Mid – Term Examination.</i>		
5TH WEEK	<i>Mid – Term Examination.</i>		

JULY

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
<i>Accounting for Companies.</i>		-	-
1STWEEK	<i>Mid – Term Examination.</i>		
2ND WEEK	<i>Mid – Term Examination.</i>		
3RD WEEK	<i>Summer Break.</i>		
4TH WEEK	<i>Summer Break/ Cross Checking.</i>		
5TH WEEK	<i>Accounting for Companies.</i>		

AUGUST

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
➤ <i>Accounting for Companies.</i>		-	-
➤ <i>Analysis for Financial Statements.</i>		12	30
1ST WEEK	<i>Accounting for Companies, Project Work (INTRODUCTION)</i>		
2ND WEEK	<i>Accounting for Companies.</i>		
3RD WEEK	<i>Analysis for Financial Statements. Project Work (DISCUSSION)</i>		
4TH WEEK	<i>Analysis for Financial Statements.</i>		
5TH WEEK	<i>Analysis for Financial Statements.</i>		

SEPTEMBER

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
➤ <i>Analysis for Financial Statements.</i>		-	-
➤ <i>Cash Flow Statement.</i>		8	20
1ST WEEK	<i>Analysis for Financial Statements.</i>		
2ND WEEK	<i>Analysis for Financial Statements.</i>		
3RD WEEK	<i>Analysis for Financial Statements.</i>		
4TH WEEK	<i>Cash Flow Statement.</i>		
5TH WEEK	<i>Cash Flow Statement.</i>		

OCTOBER

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
➤ <i>Cash Flow Statement.</i>		-	-
1ST WEEK	<i>Cash Flow Statement.</i>		
2ND WEEK	<i>Project Work (Evaluation)/ Mock.</i>		
3RD WEEK	<i>Post Mid-Term Examination</i>		
4TH WEEK	<i>Post Mid-Term Examination</i>		
5TH WEEK	<i>Post Mid-Term Examination</i>		

NOVEMBER

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
		-	-
1ST WEEK	<i>Revision.</i>		
2ND WEEK	<i>Revision.</i>		
3RD WEEK	<i>Preboard Examination.</i>		
4TH WEEK	<i>Preboard Examination.</i>		
5TH WEEK	<i>Preboard Examination.</i>		

DECEMBER

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
		-	-
1ST WEEK	<i>External Practical Examination</i>		
2ND WEEK	<i>External Practical Examination</i>		
3RD WEEK	<i>External Practical Examination</i>		
4TH WEEK	<i>Winter Break</i>		

SUBJECT: BUSINESS STUDIES (054)

MARCH

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<ul style="list-style-type: none"> ➤ <i>Nature and Significance of Management.</i> ➤ <i>Principles of Management.</i> ➤ <i>Business Environment.</i> 	16	14 14 12
2ND WEEK	<i>Nature and Significance of Management /Project (Introduction).</i>	
3RD WEEK	<i>Principles of Management.</i>	
4TH WEEK	<i>Principles of Management/ Project Discussion and Assignment of Project.</i>	
5TH WEEK	<i>Business Environment.</i>	

APRIL

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<ul style="list-style-type: none"> ➤ <i>Planning.</i> ➤ <i>Organising.</i> 	14	14 18
1STWEEK	<i>Business Environment/ Project Discussion.</i>	
2ND WEEK	<i>Planning.</i>	
3RD WEEK	<i>Planning.</i>	
4TH WEEK	<i>Organising.</i>	
5TH WEEK	<i>Organising.</i>	

MAY

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<ul style="list-style-type: none"> ➤ <i>Staffing.</i> ➤ <i>Directing.</i> 	20	16 18
1ST WEEK	<i>Staffing.</i>	
2ND WEEK	<i>Staffing.</i>	
3RD WEEK	<i>Staffing.</i>	
4TH WEEK	<i>Directing.</i>	
5TH WEEK	<i>Directing.</i>	

JUNE

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
<i>Controlling.</i>		<i>Included in 20 marks(above)</i>	<i>14</i>
1ST WEEK	<i>Directing.</i>		
2ND WEEK	<i>Controlling/Project Evaluation.</i>		
3RD WEEK	<i>Controlling/Project Evaluation.</i>		
4TH WEEK	<i>Mid Term Examinations.</i>		
5TH WEEK	<i>Mid Term Examinations.</i>		

JULY

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
<i>Financial Management.</i>		<i>15</i>	<i>22</i>
1STWEEK	<i>Mid Term Examinations.</i>		
2ND WEEK	<i>Mid Term Examinations.</i>		
3RD WEEK	<i>Summer Break.</i>		
4TH WEEK	<i>Summer Break/ Cross Checking.</i>		
5TH WEEK	<i>Financial Management.</i>		

AUGUST

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
<ul style="list-style-type: none"> ➤ <i>Financial Management.</i> ➤ <i>Financial Market.</i> 		<i>15</i>	<i>22</i> <i>20</i>
1st WEEK	<i>Financial Management.</i>		
2ND WEEK	<i>Financial Management.</i>		
3RD WEEK	<i>Financial Management.</i>		
4TH WEEK	<i>Financial Market/ Project Introduction (Stock Exchange).</i>		
5TH WEEK	<i>Financial Market.</i>		
6th WEEK	<i>Financial Market.</i>		

SEPTEMBER

TOPICS / CHAPTERS		WEIGH T-AGE	TEACHING PERIODS
<i>Marketing Management.</i>		<i>15</i>	<i>32</i>
1st WEEK	<i>Marketing Management/ Project Introduction.</i>		
2ND WEEK	<i>Marketing Management.</i>		
3RD WEEK	<i>Marketing Management.</i>		
4TH WEEK	<i>Marketing Management.</i>		
5TH WEEK	<i>Marketing Management.</i>		

OCTOBER

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
<i>Consumer Protection</i>		<i>Included in 15 marks(above)</i>	<i>16</i>
1ST WEEK	<i>Consumer Protection.</i>		
2ND WEEK	<i>Consumer Protection.</i>		
3RD WEEK	<i>Project Evaluation/ Mock Externals.</i>		
4TH WEEK	<i>Post Mid Term Examinations.</i>		
5TH WEEK	<i>Post Mid Term Examinations.</i>		

NOVEMBER

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
<i>Revision</i>		-	-
1ST WEEK	<i>Revision.</i>		
2ND WEEK	<i>Revision.</i>		
3RD WEEK	<i>Preboard Examination.</i>		
4TH WEEK	<i>Preboard Examination.</i>		
5TH WEEK	<i>Preboard Examination.</i>		

DECEMBER

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
<i>Revision for External Examination.</i>		-	-
1ST WEEK	<i>External Practical Examination</i>		
2ND WEEK	<i>External Practical Examination</i>		
3RD WEEK	<i>External Practical Examination</i>		
4TH WEEK	<i>Winter Break</i>		
5TH WEEK	<i>External Practical Examination</i>		

SUBJECT: ECONOMICS (030)

MARCH

UNITS / TOPICS	TEACHING PERIODS	MARKS
<i>PART A "Introductory Macroeconomics"</i> <i>UNIT 01: National Income and Related Aggregates.</i>	14	10
1ST WEEK	<i>What is Macroeconomics?</i> <i>Basic concepts in macroeconomics: consumption goods, capital goods, final goods, intermediate goods; stocks and flows; gross investment and depreciation.</i> <i>Circular flow of income (two sector model);</i>	
2ND WEEK	<i>Aggregates related to National Income:</i> <i>Gross National Product (GNP), Net National Product (NNP),</i>	
3RD WEEK	<i>Gross and Net Domestic Product (GDP and NDP) - at market price, at factor cost; Real and Nominal GDP.</i>	
4TH WEEK	<i>Methods of calculating National Income - Value Added or Product method, Expenditure method,</i>	
5TH WEEK	<i>Income method. GDP and Welfare</i>	

APRIL

UNITS / TOPICS	TEACHING PERIODS	MARKS
<i>UNIT 02: Money and Banking.</i>	14	06
1ST WEEK	<i>Money - meaning and supply of money - Currency held by the public and net demand deposits held by commercial banks.</i>	
2ND WEEK	<i>Money creation by the commercial banking system.</i>	
3RD WEEK	<i>Central bank and its functions (example of the Reserve Bank of India): Bank of issue, Govt. Bank, Banker's Bank, Control of Credit through Bank Rate,</i>	
4TH WEEK	<i>CRR, SLR, Repo Rate and Reverse Repo Rate, Open Market Operations, Margin requirement.</i>	
5TH WEEK	<i>Margin requirement (Contd.)</i>	

MAY

UNITS / TOPICS	TEACHING PERIODS	MARKS
<i>UNIT 03: Determination of Income and Employment</i>	14	12
1ST WEEK	<i>Aggregate demand and its components.</i> <i>Propensity to consume and propensity to save (average and marginal).</i>	
2ND WEEK	<i>Short-run equilibrium output; investment multiplier and its mechanism.</i>	

3RD WEEK	<i>Meaning of full employment and involuntary unemployment.</i>
4TH WEEK	<i>Problems of excess demand and deficient demand;</i>
5TH WEEK	<i>Measures to correct them - changes in government spending, taxes and money supply.</i>

JUNE

UNITS / TOPICS	TEACHING PERIODS	MARKS
<i>UNIT 04: Government Budget and the Economy</i>	<i>14</i>	<i>10</i>
1ST WEEK	<i>Government budget - meaning, objectives and components.</i>	
2ND WEEK	<i>Classification of receipts - revenue receipts and capital receipts; classification of expenditure – revenue expenditure and capital expenditure.</i>	
3RD WEEK	<i>Measures of government deficit - revenue deficit, fiscal deficit, primary deficit their meaning.</i>	
4TH WEEK	<i>Project preparation and checking (FOR 20 MARKS)</i>	
5TH WEEK	<i>Mid-Term Examination</i>	

JULY

UNITS / TOPICS	TEACHING PERIODS	MARKS
1ST WEEK	<i>Mid-Term Examination</i>	
2ND WEEK	<i>Mid-Term Examination</i>	
3RD WEEK	<i>Summer Break</i>	
4TH WEEK	<i>Summer Break/ Cross Checking</i>	
5TH WEEK	<i>Balance of payments account (Introduction)</i>	

AUGUST

UNITS / TOPICS	TEACHING PERIODS	MARKS
<i>UNIT 05: Balance of Payments</i>	<i>14</i>	<i>10</i>
1ST WEEK	<i>Balance of payments account - meaning and components; balance of payments deficit meaning.</i>	
2ND WEEK	<i>Foreign exchange rate - meaning of fixed and flexible rates and managed floating. Determination of exchange rate in a free market.</i>	
3RD WEEK	<i>PART "B" INDIAN ECONOMIC DEVELOPMENT:</i> <i>Brief introduction of the state of Indian economy on the eve of independence.</i>	
4TH WEEK	<i>Common goals of Five-Year Plans.</i>	
5TH WEEK	<i>Main features, problems and policies of agriculture (institutional aspects and new agricultural strategy, etc.)</i>	

SEPTEMBER

UNITS / TOPICS		TEACHING PERIODS	MARKS
<i>Economic Reforms since 1991:</i>		14	22
1ST WEEK	<i>Industry (industrial licensing, etc.) and foreign trade.</i>		
2ND WEEK	<i>Economic Reforms since 1991: Features and appraisals of Liberalisation, Globalisation And Privatisation (LPG policy); Concepts of demonetization and GST.</i>		
3RD WEEK	<i>Poverty- absolute and relative; Main programmes for poverty alleviation: A critical assessment; Rural development: Key issues - credit and marketing - role of cooperatives; agricultural diversification; alternative farming - organic farming</i>		
4TH WEEK	<i>Human Capital Formation: How people become resource; Role of human capital in economic development; Growth of Education Sector in India Employment: Formal and informal growth; problems and policies.</i>		
5TH WEEK	<i>Infrastructure: Meaning and Types: Case Studies: Energy and Health: Problems and Policies- A critical assessment; Sustainable Economic Development: Meaning, Effects of Economic Development on Resources and Environment, including global warming.</i>		

OCTOBER

UNITS / TOPICS		TEACHING PERIODS	MARKS
<i>Development Experience of India:</i>		14	10
1ST WEEK	<i>Development Experience of India: A comparison with neighbours India and Pakistan India and China. Issues: growth, population, sectoral development and other Human Development Indicators.</i>		
2ND WEEK	<i>Project Work. For 20 Marks:</i>		
3RD WEEK	<i>Post Mid Term Examination.</i>		
4TH WEEK	<i>Post Mid Term Examination.</i>		
5TH WEEK	<i>Post Mid Term Examination</i>		

NOVEMBER

UNITS / TOPICS		TEACHING PERIODS	MARKS
		NA	NA
1ST WEEK	<i>Revision</i>		
2ND WEEK	<i>Revision</i>		
3RD WEEK	<i>Preboard Examination</i>		
4TH WEEK	<i>Preboard Examination</i>		
5TH WEEK	<i>Preboard Examination</i>		

DECEMBER

UNITS / TOPICS		TEACHING PERIODS	MARKS
		NA	NA
1 ST WEEK	<i>External Practical Examination</i>		
2 ND WEEK	<i>External Practical Examination</i>		
3 RD WEEK	<i>External Practical Examination</i>		
4 TH WEEK	<i>Winter Break</i>		

SUBJECT: MATHEMATICS (041)

MARCH

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<i>Algebra</i> <i>Matrices and Determinants</i>	<i>10</i>	<i>24</i>
2 ND WEEK	<i>Introduction to matrices</i> <i>Types of matrices</i> <i>Operations on matrices</i>	
3 RD WEEK	<i>Concept of row and column operation</i> <i>Invertible matrices and proof of uniqueness of inverse</i>	
4 TH WEEK	<i>Determinant of square matrix up to 3x3</i> <i>Properties of determinants</i> <i>Application of determinants in finding area of triangle</i> <i>Adjoint and inverse of square matrix</i>	
5 TH WEEK	<i>Consistency and inconsistency of system of linear equations.</i> <i>Solving system of linear equations by using inverse of matrix.</i>	

APRIL

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<i>Relations and Functions</i> <i>Inverse trigonometric functions</i> <i>Continuity</i>	<i>08</i>	<i>24</i>
1 ST WEEK	<i>Introduction of relations</i> <i>Types of Relations</i>	
2 ND WEEK	<i>introduction of functions</i> <i>one – one and onto functions, composite function, inverse of a function</i>	
3 RD WEEK	<i>Introduction of ITFs, Domain and range, principal Value branch.</i> <i>Graphs of ITFS</i>	
4 TH WEEK	<i>Elementary properties of inverse trigonometric functions</i>	
5 TH WEEK	<i>introduction of continuity and discontinuity.</i>	

MAY

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
<i>Continuity and Differentiability Applications of derivatives</i>		35	24
1 ST WEEK	<i>Introduction of differentiability</i>		
2 ND WEEK	<i>Methods of differentiation Second order derivative</i>		
3 RD WEEK	<i>Rolle's and Lagrange's mean value theorem and their geometric interpretation</i>		
4 TH WEEK	<i>Rate of change of quantity Tangents and normal</i>		
5 TH WEEK	<i>Increasing and decreasing functions</i>		

JUNE

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
<i>Applications of Derivatives contd..</i>			24
1 ST WEEK	<i>Approximation Maxima and minima</i>		
2 ND WEEK	<i>Mathematical Activities :</i> (i) <i>Rolle's theorem</i> (ii) <i>Lagrange mean Maxima and minima</i>		
3 RD WEEK	<i>Mathematical Activity Maxima and minima</i>		
4 TH WEEK	<i>Mid – Term Examination</i>		
5 TH WEEK	<i>Mid – Term Examination</i>		

JULY

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
<i>Integrals</i>			
1 ST WEEK	<i>Mid – Term Examination</i>		
2 ND WEEK	<i>Mid – Term Examination</i>		
3 RD WEEK	<i>Summer Break</i>		
4 TH WEEK	<i>Summer Break / Cross Checking</i>		
5 TH WEEK	<i>Introduction to integrals</i>		

AUGUST

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<i>Integrals contd.. Differential Equations</i>		24
1ST WEEK	<i>Integration by substitution integration by partial fractions integration by parts</i>	
2ND WEEK	<i>Definite integrals Definite integrals as a limit of sum, properties of definite integrals</i>	
3RD WEEK	<i>Area under simple curves, Area between any two curves</i>	
4TH WEEK	<i>Order and degree General and particular solution Formation of differential equation</i>	
5TH WEEK	<i>Differential equation of variable separable type</i>	

SEPTEMBER

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<i>Differential Equations contd.. Vectors Linear programming Three Dimensional Geometry</i>	19	24
1ST WEEK	<i>Differential equation of Homogeneous type Linear differential equations Introduction of vectors Direction ratio and direction cosine of vectors, Types of vectors</i>	
2ND WEEK	<i>Product of vectors (a) Dot product (b) Vector Product</i>	
3RD WEEK	<i>Introduction Different types of linear programming Graphical method Feasible and infeasible solution</i>	
4TH WEEK	<i>Direction ratios and direction cosine of a line joining two point Cartesian and vector equation of a line Coplanar and skew lines Shortest Distance</i>	
5TH WEEK	<i>Plane Cartesian and vector equation of plane Angle between two (I) lines (ii) planes (iii) line and plane Distance of a point from a plane</i>	

OCTOBER

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
<i>Probability</i>		<i>08</i>	<i>16</i>
1ST WEEK	<i>Conditional probability , Multiplication theorem of probability, Bayes theorem</i>		
2ND WEEK	<i>Probability Distribution Mean and variance of random variable</i>		
3RD WEEK	<i>Post-Mid Examination</i>		
4TH WEEK	<i>Post-Mid Examination</i>		
5TH WEEK	<i>Post-Mid Examination</i>		

NOVEMBER

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
1ST WEEK	<i>Revision.</i>		
2ND WEEK	<i>Revision.</i>		
3RD WEEK	<i>Preboard Examination</i>		
4TH WEEK	<i>Preboard Examination</i>		
5TH WEEK	<i>Preboard Examination</i>		

DECEMBER

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
1ST WEEK	<i>External Practical Examination</i>		
2ND WEEK	<i>External Practical Examination</i>		
3RD WEEK	<i>External Practical Examination</i>		
4TH WEEK	<i>External Practical Examination</i>		

SUBJECT: COMPUTER SCIENCE (083)

MARCH

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
<i>Computer Networks</i>		<i>10</i>	<i>25</i>
2ND WEEK	<i>Network, Need of network. Types of networks Internet and WWW Client/Server introduction Wired and Wireless Networks</i>		
3RD WEEK	<i>Cloud introduction Private vs Public Cloud IoT introduction Networking Devices</i>		
4TH WEEK	<i>Network stack: Amplitude and frequency modulation. Collision in wireless networks Error checking</i>		
5TH WEEK	<i>IP Addressing (IPv4 and IPv6) MAC Address Concept of routing Routing table</i>		

APRIL

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
<i>Computer Networks Contdd. Programming And Computational Thinking-2</i>		<i>30</i>	<i>70</i>
1STWEEK	<i>Network Protocols TCP (Basic idea of retransmission) IP protocol 2G, 3G, 4G, Wi-Fi</i>		
2ND WEEK	<i>DNS URL HTTP FTP SCP SSH POP/IMAP/SMTP VoIP/NFC</i>		
3RD WEEK	<i>Secure Communication Encryption HTTPS Basic Network tools</i>		

4TH WEEK	<i>Programming and Computational Thinking-2 Revision of Python Basics</i>
5TH WEEK	<i>Function Parameterized and non-parameterized functions Variable Scope (local and Global Variable)</i>

MAY

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<i>Programming And Computational Thinking-2 Contd.....</i>		
1ST WEEK	<i>Functions with default arguments Passing lists to a function Functions returning values Library functions (mathematical/string/random)</i>	
2ND WEEK	<i>Python libraries Create and import python libraries. Recursion Simple programs using recursion</i>	
3RD WEEK	<i>Factorial using recursion Fibonacci series, Binary search using recursion</i>	
4TH WEEK	<i>Files Text file vs Binary file Open and Closing a file Read, write and Append to a file.</i>	
5TH WEEK	<i>Standard input, output and error streams. Relative and Absolute paths.</i>	

JUNE

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<i>Programming And Computational Thinking-2 Contd.....</i>		
1ST WEEK	<i>Time Complexity Calculating the time complexity of various programs.</i>	
2ND WEEK	<i>Data Visualization Concept of Matplotlib library PyPlot module Concept of charts (Bar chart/Pie chart/Line chart) Data visualization using line chart/bar chart/pie chart</i>	
3RD WEEK	<i>Lists and List operations</i>	
4TH WEEK	<i>Mid – Term Examination</i>	
5TH WEEK	<i>Mid – Term Examination</i>	

JULY

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
Programming And Computational Thinking-2 Contd.....			
1 ST WEEK	<i>Mid – Term Examination</i>		
2 ND WEEK	<i>Mid – Term Examination</i>		
3 RD WEEK	<i>Summer Break</i>		
4 TH WEEK	<i>Summer Break/ Cross Checking</i>		
5 TH WEEK	<i>Stack and Queue</i>		

AUGUST

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
<i>Data Management - 2</i>		<i>15</i>	<i>30</i>
1 ST WEEK	<i>Revision of SQL queries</i>		
2 ND WEEK	<i>Where, having, group by and order by clause Interfacing python with MySQL</i>		
3 RD WEEK	<i>Django introduction Web framework</i>		
4 TH WEEK	<i>Django Architecture How to install Django and its virtual environment Django GET and POST methods Simple web applications using django</i>		
5 TH WEEK	<i>Writing on to flat file. Writing on to CSV file.</i>		

SEPTEMBER

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
<i>Society, Law And Ethics-2 Project Work</i>		<i>10</i>	<i>5</i>
1 ST WEEK	<i>Intellectual property rights (plagiarism, digital rights management, Licensing. Privacy laws, frauds Cyber crimes Cyber Forensics Technology and Society E-Waste Management Identity theft, unique id's and Biometrics Gender and Disability issues</i>		
2 ND WEEK	<i>Project based of python and Data Management</i>		

3RD WEEK	<i>Project based of python and Data Management</i>
4TH WEEK	<i>Project based of python and Data Management</i>
5TH WEEK	<i>Project based of python and Data Management</i>

OCTOBER

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<i>PROJECT WORK</i>		
1ST WEEK	<i>Project based of python and Data Management</i>	
2ND WEEK	<i>Project based of python and Data Management</i>	
3RD WEEK	<i>Post-Mid Examination</i>	
4TH WEEK	<i>Post-Mid Examination</i>	
5TH WEEK	<i>Post-Mid Examination</i>	

NOVEMBER

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
1ST WEEK	<i>Project based of python and Data Management</i>	
2ND WEEK	<i>Project based of python and Data Management</i>	
3RD WEEK	<i>Preboard Examination</i>	
4TH WEEK	<i>Preboard Examination</i>	
5TH WEEK	<i>Preboard Examination</i>	

DECEMBER

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
1ST WEEK	<i>External Practical Examination</i>	
2ND WEEK	<i>External Practical Examination</i>	
3RD WEEK	<i>External Practical Examination</i>	
4TH WEEK	<i>External Practical Examination</i>	

SUBJECT: PAINTING (049)

MARCH

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
		70/30	08
2 ND WEEK	<i>Practicals :Nature and Object Study</i> <i>Theory: Fundamentals of Art</i>		
3 RD WEEK	<i>Practicals :Nature and Object Study</i> <i>Theory: Fundamentals of Art</i>		
4 TH WEEK	<i>Practicals :Nature and Object Study</i> <i>Theory: Fundamentals of Art</i>		
5 TH WEEK	<i>Practicals :Nature and Object Study</i> <i>Theory: Introduction of Indian Miniature Paintings.</i>		

APRIL

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
		70/30	08
1 ST WEEK	<i>Practicals :Nature and Object Study</i> <i>Theory: Introduction of Indian Miniature Paintings.</i>		
2 ND WEEK	<i>Practicals :Quick Life Sketching</i> <i>Theory: The Rajasthani School of Miniature Paintings</i>		
3 RD WEEK	<i>Practicals :Quick Life Sketching</i> <i>Theory: The Rajasthani School of Miniature Paintings</i>		
4 TH WEEK	<i>Practicals :Quick Life Sketching</i> <i>Theory: The Rajasthani School of Miniature Paintings</i>		
5 TH WEEK	<i>Practicals :Quick Life Sketching</i> <i>Theory: The Rajasthani School of Miniature Paintings</i>		

MAY

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
		70/30	08
1 ST WEEK	<i>Practicals :Colour Composition</i> <i>Theory: The Pahari School of art</i>		
2 ND WEEK	<i>Practicals :Colour Composition</i> <i>Theory: The Pahari School of art</i>		
3 RD WEEK	<i>Practicals :Colour Composition</i> <i>Theory: The Pahari School of art</i>		
4 TH WEEK	<i>Practicals :Colour Composition</i> <i>Theory: The Pahari School of art</i>		
5 TH WEEK	<i>Practicals :Still life</i> <i>Theory: Mughal School of Miniature art</i>		

JUNE

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
		70/30	08
1 ST WEEK	<i>Practicals :Still life</i> <i>Theory: Mughal School of Miniature art</i>		
2 ND WEEK	<i>Practicals :Still life</i> <i>Theory: Mughal School of Miniature art</i>		
3 RD WEEK	<i>Practicals :Still life</i> <i>Theory: Mughal School of Miniature art</i>		
4 TH WEEK	<i>Mid – Term Examination</i>		
5 TH WEEK	<i>Mid – Term Examination</i>		

JULY

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
		70/30	08
1 ST WEEK	<i>Mid – Term Examination</i>		
2 ND WEEK	<i>Mid – Term Examination</i>		
3 RD WEEK	<i>Summer Break</i>		
4 TH WEEK	<i>Summer Break/ Cross Checking</i>		
5 TH WEEK	<i>Practicals :Outdoor Sketching</i> <i>Theory: The Deccan School of Painting</i>		

AUGUST

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
		70/30	08
1 st WEEK	<i>Practicals :Outdoor Sketching</i> <i>Theory: The Deccan School of Painting</i>		
2 ND WEEK	<i>Practicals :Outdoor Sketching</i> <i>Theory: The Deccan School of Painting</i>		
3 RD WEEK	<i>Practicals :Outdoor Sketching</i> <i>Theory: Evolution of Indian National Flag.</i>		
4 TH WEEK	<i>Practicals :Outdoor Sketching</i> <i>Theory: Evolution of Indian National Flag.</i>		
5 TH WEEK	<i>Practicals :Outdoor Sketching</i> <i>Theory: The Bengal School of Painting</i>		

SEPTEMBER

TOPICS / CHAPTERS		WEIGHT-	TEACHING
-------------------	--	---------	----------

	AGE	PERIODS
	70/30	08
1ST WEEK	<i>Practicals :Outdoor Sketching Theory: The Bengal School of Painting</i>	
2ND WEEK	<i>Practicals :Outdoor Sketching Theory: SLIDE STUDY OF SOME Bengali School of art.</i>	
3RD WEEK	<i>Practicals :Colour Figurative Composition Theory: SLIDE STUDY OF SOME Bengali School of art.</i>	
4TH WEEK	<i>Practicals :Colour Figurative Composition Theory: Contribution of Indian Artists in the struggle for National Freedom Movement</i>	
5TH WEEK	<i>Practicals :Colour Figurative Composition Theory: Contribution of Indian Artists in the struggle for National Freedom Movement</i>	

OCTOBER

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
	70/30	08
1ST WEEK	<i>Practicals :Canvas Painting Theory: Modern trends in Indian art</i>	
2ND WEEK	<i>Practicals :Canvas Painting Theory: Paintings and Sculptures of the Contemporary Modern Indian Artists</i>	
3RD WEEK	<i>Post-Mid Examination</i>	
4TH WEEK	<i>Post-Mid Examination</i>	
5TH WEEK	<i>Post-Mid Examination</i>	

NOVEMBER

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
	70/30	08
1ST WEEK	<i>Practicals : Final preparations of FINE ARTS PORTFOLIO Theory: Paintings and Sculptures of the Contemporary Modern Indian Artists</i>	
2ND WEEK	<i>Revision.</i>	
3RD WEEK	<i>Preboard Examination</i>	
4TH WEEK	<i>Preboard Examination</i>	
5TH WEEK	<i>Preboard Examination</i>	

DECEMBER

TOPICS / CHAPTERS		WEIGHT-AGE	TEACHING PERIODS
		70/30	08
1 ST WEEK	<i>Final External examination</i>		
2 ND WEEK	<i>Final External examination</i>		
3 RD WEEK	<i>Final External examination</i>		
4 TH WEEK	<i>Final External examination</i>		

SUBJECT: PHYSICAL EDUCATION (048)

MARCH

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<i>PLANNING IN SPORTS</i>	8	10
2ND WEEK	<i>Meaning and objectives of planning. Various committee and its responsibilities.</i>	
3RD WEEK	<i>Tournament knockout, league and combination. Procedure to draw fixtures (bye and seeding)</i>	
4TH WEEK	<i>Intramural and extramural meaning objective and its significance.</i>	
5TH WEEK	<i>Specific sports programme, sports day health run, run for fun, run for unity.</i>	

APRIL

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<i>SPORTS AND NUTRITION. YOGA AND LIFESTYLE.</i>	6 5	4 4
1STWEEK	<i>Balanced diet and nutrition: micro and macro nutrients. Nutritive and non nutritive components of diet.</i>	
2ND WEEK	<i>Eating for diet control, a healthy weight the pitfalls of dieting Food intolerance and food myths.</i>	
3RD WEEK	<i>Sports nutrition and its effect on performance. Food supplements for children.</i>	
4TH WEEK	<i>Asanas as preventive measures. Obesity procedure, benefits and contraindications for Vajrasana, Hastasana, Trikonasana, Ardhamatsyendrasana.</i>	
5TH WEEK	<i>Diabetes procedure benefits and contraindications for bhujangasana, paschimottasana,</i>	

MAY

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<i>YOGA AND LIFESTYLE (Contd.) PHYSICAL EDUCATION AND SPORTS FOR DIFFERENTLY ABLED.</i>	6	5
1ST WEEK	<i>Asthma procedure benefits and contraindications for sukhhasana, chakrasana, gomukhasana, paratasana, bhujangasana, paschimottasana, matsyasana.</i>	
2ND WEEK	<i>Hypertension :Tadasana, Vajrasana, pavanmuktasana, Back pain: Tadasanaardhmatsyendrasana, vakrasana, shalabhasana, bhujangasana.</i>	

3RD WEEK	<i>PE Practicals (Athletics)</i>
4TH WEEK	<i>Concept of disability and disorder. Types of disability, its causes and nature (cognitive disability, intellectual disability, physical disability.)</i>
5TH WEEK	<i>Types of disorder: its causes and nature (ADHD, SPD, ASD, ODD, OCD)</i>

JUNE

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<i>PHYSICAL EDUCATION AND SPORTS FOR DIFFERENTLY ABLED contd.</i>		
1ST WEEK	<i>Disability etiquettes. Advantages of physical activities for children with special needs.</i>	
2ND WEEK	<i>Strategies to make physical activities accessible for children with special need.</i>	
3RD WEEK	<i>PE Practicals (Athletics)</i>	
4TH WEEK	<i>PE Practicals (Athletics)</i>	
5TH WEEK	<i>Mid – Term Examination</i>	

JULY

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<i>MIDTERM EXAMINATION</i>		
1STWEEK	<i>Mid – Term Examination</i>	
2ND WEEK	<i>Mid – Term Examination</i>	
3RD WEEK	<i>Summer Break</i>	
4TH WEEK	<i>Summer Break/ Cross Checking</i>	
5TH WEEK	<i>PE Practicals (Athletics)</i>	

AUGUST

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<i>CHILDREN AND SPORTS.</i>		
<i>WOMEN AND SPORTS.</i>		
1st WEEK	6	7
2ND WEEK	5	5
1ST WEEK	<i>Motor development and factors affecting it. Exercise guidelines at different stages of growth and development. Advantages and disadvantages of weight training.</i>	
2ND WEEK	<i>Concept and advantages of correct posture. Causes of bad posture.</i>	
3RD WEEK	<i>Common postural deformity, knock knee, flat foot, round shoulder, lordosis, kyphosis, bow legs, and scoliosis.</i>	

	<i>Correct measures for postural deformities.</i>
4TH WEEK	<i>Sports performance of women in India. Special consideration(menarche, menstrual, dysfunction, pregnancy, menopause)</i>
5TH WEEK	<i>Female athletic triad (Anemia, osteoporosis, amenorrhea.) Psychological aspect of women athlete. Sociological aspects of sports participation.</i>

SEPTEMBER

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<i>TEST AND MEASUREMENT. PHYSIOLOGY AND SPORTS.</i>	6 5	7 5
1ST WEEK	<i>Computation of fat percentage. Slaughter- lohman children skin fold measurement. Measurement of muscular strength –kraus weber test. Motor fitness test. AAPHER. General motor fitness</i>	
2ND WEEK	<i>Measurement of cardiovascular fitness. Computation of fitness index. Rikli and jones senior citizen fitness test. Chair stand test for lower body strength. Arm curl test</i>	
3RD WEEK	<i>Chair sit and reach test for upper body strength. Eight foot up and go test for agility. Six minute walk test for aerobic endurance.</i>	
4TH WEEK	<i>Gender difference in physical and physiological parameters. Physiological factors determining component of physical fitness. Effect of exercise on cardiovascular system.</i>	
5TH WEEK	<i>Effect of exercise on respiratory system. Effect of exercise on muscular system. Physiological changes due to ageing. Role of physical activity in maintaining functional fitness in aged population.</i>	

OCTOBER

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<i>SPORTS MEDICINE. KINESIOLOGY BIOMECHANICS AND SPORTS.</i>	5 7	4 7
1ST WEEK	<i>Concept aim and scope of sports medicine. Sports injuries classification causes and prevention. First Aid aim and objective. Management of injuries. Projectile and factors affecting projectile trajectory.</i>	

	<i>Newton's laws of motion and their application in sports.</i>
2ND WEEK	<i>Aerodynamics principles Friction and sports. Introduction to Axes and plane. Types of movements (flexion ,extension, abduction and adduction) Major muscle involved in running jumping and throwing.</i>
3RD WEEK	<i>Post-Mid Examination</i>
4TH WEEK	<i>Post-Mid Examination</i>
5TH WEEK	<i>Post-Mid Examination</i>

NOVEMBER

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
<i>PSYCHOLOGY AND SPORTS.</i>	5	4
<i>TRAINING IN SPORTS</i>	6	6
1ST WEEK	<i>Understanding stress and coping strategies Personality its definition and types. Motivation its type and techniques. Self esteem and body image. Psychological benefits of exercise. Meaning concept and types of aggressions in sports.</i>	
2ND WEEK	<i>Strength definition types and methods Endurance definition types and methods. Speed definition types and methods Flexibility definition types and methods Coordinative abilities definition and types. Circuit training and high altitude training introduction and its impact.</i>	
3RD WEEK	<i>Preboard Examination</i>	
4TH WEEK	<i>Preboard Examination</i>	
5TH WEEK	<i>Preboard Examination</i>	

DECEMBER

TOPICS / CHAPTERS	WEIGHT-AGE	TEACHING PERIODS
1ST WEEK	<i>External Practical Examination</i>	
2ND WEEK	<i>External Practical Examination</i>	
3RD WEEK	<i>External Practical Examination</i>	
4TH WEEK	<i>External Practical Examination</i>	

