LCIT PUBLIC SCHOOL

Session 2019-20

Subject - English **SPLIT-UP SYLLABUS** **Class – XI**

Pre – Mid term (30 Marks)	Mid – Term (80 Marks)	Post – Mid term (30 Marks)	Annual Exam. (80 Marks)
Horn bill 1. The Portrait of a Lady 2. The photograph **Snapshot** 1. The Tale of Melon City **Writing** 1. Advertisement	**Horn bill** 1. The Portrait of a Lady 2. The photograph 3. The Laburnum top 4. We' re not afraid to die 5. Discovering Tut: the saga 6. The voice of rain 7. The landscape of soul **Snapshot** 1. The Summer of the beautiful white horse 2. The address **Writing** 1. Note–making 2. Precise writing 3. Advertisement	**Horn bill** 1. The ailing planet 2. Childhood 3. The photograph **Snapshot** 1. Albert Einstein at school 2. Ghat of the only world **Writing** Letter writing (job application)	**Horn bill** 1. The Portrait of a Lady 2. The photograph 3. The Laburnum top 4. We' re not afraid to die 5. Discovering Tut: the saga 6. The voice of rain 7. The landscape of soul 8. The ailing Planet 9. Childhood 10. Father to son 11. Silk road 12. Adventure 13. Browning version **Snapshot** 1. The summer of the beautiful white horse 2. The address 3. Ranga' marriage 4. Albert Einstein at school 5. Ghat of the only world 6. The tale of melon city 7. Mothers' day 8. Birth **Writing** 1. Note–making 2. Precise writing 3. Advertisement 4. Letter writing 5. Article writing 6. Poster writing 7. Speech writing 8. Factual description

LCIT PUBLIC SCHOOL

Session 2019-20

Subject - Business Studies **SPLIT-UP SYLLABUS** **Class – XI**

Pre – Mid term (30 Marks)	Mid – Term (80 Marks)	Post – Mid term (30 Marks)	Annual Exam. (80 Marks)
Unit 1 Nature and Purpose of Business **Unit 2** Forms of Business Organisation **(Sole proprietor and Joint Hindu Family Firm)**	**Unit 1** Nature and Purpose of Business **Unit 2** Forms of Business Organisation **Unit 3** Public, Private and Global Enterprises **Unit 5** Emerging Modes of Business **Unit 6** Social Responsibilities of Business and Business Ethics	**Unit 4** Business Services **Unit 7** Business Finance **Unit 8** Small Business (Entrepreneurship Development)	**Unit 1** Nature and Purpose of Business **Unit 2** Forms of Business Organisation **Unit 3** Public, Private and Global Enterprises **Unit 4** Business Services **Unit 5** Emerging Modes of Business **Unit 6** Social Responsibilities of Business and Business Ethics **Unit 7** Business Finanace **Unit 8** Small Business **Unit 9** Internal Trade **Unit 10** International Business

Project : **20 m**

LCIT PUBLIC SCHOOL

Session 2019-20

Subject - Accountancy **SPLIT-UP SYLLABUS** **Class – XI**

Pre – Mid term (30 Marks)	Mid – Term (80 Marks)	Post – Mid term (30 Marks)	Annual Exam. (80 Marks)
Theoretical Framework **Cha. 1** Accounting- concept **Cha. 2** Basic accounting terms **Cha. 4** Basis of accounting-cash basis and accrual basis.	**Theoretical Framework** **Cha. 1** Accounting-concept **Cha. 2** Basic accounting terms **Cha. 3** Theory Base of Accounting: Accounting Standards and IFRS (International Financial Reporting Standards): **Cha. 4** Basis of accounting - cash basis and accrual basis. **Recording of Transactions** **Cha. 5** Accounting equation **Cha. 6** Rules of debit and credit **Cha. 7** Origin of transactions- source documents **Cha. 8** Journal **Cha. 9** Ledger **Cha. 10** Special Purpose Book - Cash book **Cha. 11** Other Books	**Cha. 12** Bank Reconciliation Statement **Cha. 13** Trial Balance **Cha. 14** Depreciation **Cha. 15** Provisions and Reserves **Cha. 16** Accounting for Bills of Exchange	**Cha. 1** Accounting- concept **Cha. 2** Basic accounting terms **Cha. 3** Theory Base of Accounting: Accounting Standards and IFRS (International Financial Reporting Standards): **Cha. 4** Basis of accounting - cash basis and accrual basis. **Recording of Transactions** **Cha. 5** Accounting equation **Cha. 6** Rules of debit and credit **Cha. 7** Origin of transactions- source documents **Cha. 8** Journal **Cha. 9** Ledger **Cha. 10** Special Purpose Book - Cash book **Cha. 11** Other Books **Cha. 12** Bank Reconciliation Statement **Cha. 13** Trial Balance **Cha. 14** Depreciation

			Cha. 15 Provisions and Reserves **Cha. 16** Accounting for Bills of Exchange **Cha. 17** Rectification of Errors **Cha. 18** Financial Statements of Sole Proprietorship **Cha. 19** Adjustments in Preparation of Financial Statements **Cha. 20** Single Entry System **Cha. 21** Computers in Accounting

Note : **Project work :** **20M**
Project File : **4M**
Written Test : **12 Marks** (One Hour)
Viva : **4M**

LCIT PUBLIC SCHOOL

Session 2019-20

Subject - Economics **SPLIT-UP SYLLABUS** **Class – XI**

Pre – Mid term (30 Marks)	Mid – Term (80 Marks)	Post – Mid term (30 Marks)	Annual Exam. (80 Marks)
INTRODUCTORY MICROECONOMICS **Unit 1:** Introduction **1.1** Production possibility frontier **1.2** Opportunity cost **1.3** Budget line **1.4** Indifference curve	**INTRODUCTORY MICROECONOMICS** **Unit 1 :** Introduction **Unit 2 :** Consumer equilibrium and Demand **STATISTICS FOR ECONOMICS** **Unit 1 :** Introduction **Unit 2 :** Collection, Organisation and Presentation of Data **Unit 3 :** Measure of Central Tendency	**Unit 3:** Producer behavior and supply **(micro)** **Unit 4:** Statistical Tools and Interpretation **(Stat)** Measure of Dispersion	**INTRODUCTORY MICROECONOMICS** **Unit 1 :** Introduction **Unit 2 :** Consumer equilibrium and Demand **Unit 3 :** Producer behavior and supply **Unit 4 :** Forms of market and Price determination under perfect competition with simple applications **(price ceiling and price floor)** **STATISTICS FOR ECONOMICS** **Unit 1 :** Introduction **Unit 2 :** Collection, Organisation and Presentation of Data **Unit 3 :** Measure of Central Tendency **Unit 4 :** Statistical Tools and Interpretation a. Measure of dispersion b. Correlation c. Introduction to index numbers

PROJECT WORK **20M**

LCIT PUBLIC SCHOOL

Session 2019-20

Subject - Computer Science (Sumita Arora & publication Code : 083) **SPLIT-UP SYLLABUS** **Class – XI**

Term 1	
Pre Mid Term	**Mid Term**
1. Programming and Computational Thinking **i)** Familiarization with the basics of Python programming: a simple “hello world" program, process of writing a program, running it, and print statements; simple data-types: integer, float, string. **ii)** Introduce the notion of a variable, and methods to manipulate it (concept of L-value and Rvalue even if not taught explicitly) **iii)** Knowledge of data types and operators: accepting input from the console, assignment statement, expressions, operators and their precedence. □ Conditional statements: if, if-else, if-elif-else; simple programs: e.g.: absolute value, sort 3 numbers, and divisibility. **iv)** Notion of iterative computation and control flow: for, while, flowcharts, decision trees and pseudo code; write a lot of programs: interest calculation, primarily testing, and factorials. **2 .** : **Society, Law and Ethics (SLE-1) - Cyber safety** **i)** Cyber safety: safely browsing the web, identity protection, confidentiality, social networks, cyber trolls and bullying. **ii)** Appropriate usage of social networks: spread of rumours, and common social networking sites (Twitter, LinkedIn, and Facebook) and specific usage rules. **iii)** Safely accessing web sites: adware, malware, viruses, Trojans **iv)** Safely communicating data: secure connections, eavesdropping, phishing and identity verification.	1. **Programming and Computational Thinking(Cont.)** i) Idea of debugging: errors and exceptions; debugging: pdb, break points. ii) Lists, tuples and dictionary: finding the maximum, minimum, mean; linear search on list/tuple of numbers, and counting the frequency of elements in a list using a dictionary. Introduce the notion of accessing elements in a collection using numbers and names. iii) Sorting algorithm: bubble and insertion sort; count the number of operations while sorting. iv) Strings: compare, concat, substring; notion of states and transitions using state transition diagrams. **Including 100%portion of Pre Mid Term**

Term 2	
Post Mid Term	**Annual Examination**
3. Computer Systems and Organisation (CSO) **i)**Basic computer organisation: description of a computer system and mobile system, CPU, memory, hard disk, I/O, battery, power. **ii)**Types of software: application, OS, utility, libraries. **iii)**Types of software: application, OS, utility, libraries. **iv)**Boolean logic: OR, AND, NAND, NOR, XOR, NOT, truth tables, De Morgan's laws **v)**Information representation: numbers in base 2, 8, 16, unsigned integers, binary addition. **vi)**Strings: ASCII, UTF8, UTF32, ISCII (Indian script code) **vii)**Execution of a program: basic flow of compilation – program □ binary □ execution. **viii)**Interpreters (process one line at a time), difference between a compiler and an interpreter. **ix)**Running a program: Notion of an operating system, how an operating system runs a program, idea of loading, operating system as a resource manager. **x)**Concept of cloud computers, cloud storage (public/private), and brief introduction to parallel computing.	**4.Data Management (DM-1)** i) Relational databases: idea of a database and the need for it, relations, keys, primary key, foreign key; use SQL commands to create a table, keys, foreign keys; insert/delete an entry, delete a table. ii) SQL commands: select, project, and join; indexes, and a lot of in- class practice. iv) Basics of NoSQL databases - Mongo DB. **Including 100%portion of Term 1 And Post Mid Term**

S.No.	Unit Name	Marks (Total=30)
1.	**Lab Test (12 marks)**	
	Python program (60% logic + 20% documentation + 20% code quality)	**8**
	SQL program (at least 4 queries)	**4**
2.	**Report File + viva (10 marks)**	
	Report file: Minimum 20 Python programs and 8 SQL commands	**7**
	Viva voce (based on the report file)	**3**
3.	Project (that uses most of the concepts that have been learnt) (See CS-XII for the rules regarding the projects).	**8**

Unit No.	Unit Name	Marks
1.	Programming and Computational Thinking - 1	35
2.	Computer Systems and Organisation	10
3.	Data Management - 1	15
4.	Society, Law and Ethics - 1	10
5.	Practical	30
	Total	100

LCIT PUBLIC SCHOOL

Session 2019-20

Subject: Informatics practice (Sumita Arora & publication Code : 065) **Split-Up Syllabus** Class XI

TERM -1	
PRE-MID TERM	MID TERM
1: Programming and Computational Thinking 1. Basic computer organisation: describe a computer system and mobile system, CPU, memory, hard disk, I/O, battery, power, transition from a calculator to a computer. 2. Familiarization with the basics of Python programming: a simple "hello world" program, process of writing a program, running it, and print statements; simple data-types: integer, float, string Introduce the notion of a variable, and methods to manipulate it (concept of L-value and Rvalue even if not taught explicitly) 2.Society, Law and Ethics (SLE-1) – 1- Cyber safety: safely browsing the web, identity protection, confidentiality, social networks, 2-cyber trolls and bullying Appropriate usage of social networks: spread of rumours, and common social networking 3-sites (Twitter, LinkedIn, and Facebook) and specific usage rules. Safely accessing web sites: adware, malware, viruses, Trojans 4- Safely communicating data: secure connections, eavesdropping, and phishing and identity	1: Programming and Computational Thinking 4-Notion of iterative computation and control flow: for, while, flowcharts, decision trees and pseudo code; write a lot of programs: interest calculation, EMI, tax calculation (examples from GST), standard deviation, correlation Lists and dictionary: finding the maximum, minimum, mean; linear search on a list of numbers, and counting the frequency of elements in a list using a dictionary. Text handling: compare, concat, and substring operations.Introduction to Python modules: creating and importing. 1: Programming and Computational Thinking Knowledge of data types and operators: accepting input from the console, assignment statement, expressions, operators and their precedence. Conditional statements: if, if-else, if-elif-else; simple programs: e.g.: absolute value, sort 3 numbers, divisibility. Including 100%portion of Pre Mid Term
(TOPIC WILL COVER FROM CHP-01,CH P-02, CHP-17 AND CHP-18)	(TOPIC WILL COVER FROM CHP-12,CHP-13,CHP-14,CHP-15 AND CHP-16)

TERM -2	
POST-MID TERM	ANNUAL EXAM
Data Handling (DH-1) . 1.Introduction to Python Pandas Introduction to data structures in Pandas: Series, and Data Frame 2. Operations on a Series: head, tail, vector operations 3. Data Frame operations: create, display, iteration, select column, add column, delete column 4. Binary operations in a Data Frame: add, sub, mul, div, radd, rsub **Data Management (DM-1)** 1.Relational databases: idea of a database and the need for it, relations, keys, primary key, foreign key; 2. Use SQL commands to create a table, keys, and foreign keys; insert/delete an entry, delete a table. 3. Basic SQL: select, project, and join; indexes, and a lot of in-class practice.	**Data Handling (DH-1)** 5. Matching and broadcasting operations 6. Missing data and filling values. 7. Comparisons, Boolean reductions, comparing Series, and combining Data Frames. 8. Transfer data between CSV files/SQL databases, and Data Frame objects. **Including 100%portion of Term-1 &Post Mid Term**

(TOPIC WILL COVER FROM CHP-03 AND CHP-04)

Unit No.	Unit Name	Marks
1.	Programming and Computational Thinking	30
2.	Data Handling - 1	20
3.	Data Management - 1	10
4.	Society, Law and Ethics - 1	10
5.	Practicals	30
	Total	100

(TOPIC WILL COVER FROM CHP-05,CHP-06,CHP-07,CHP-08,CHP-09,CHP-10 AND CHP-11)

S.No.	Unit Name	Marks
1.	Lab Test (12 marks)	
	Python programs to test PCT (60% logic + 20% documentation + 20% code quality)	4
	Python programs to test data handling (same rules as above)	4
	SQL program (at least 4 queries)	4
2.	Report File + viva (10 marks)	
	Report file: Minimum 20 Python programs (PCT + DH) and at least 8 SQL commands	7
	Viva voce (based on the report file)	3
3.	Project (that uses most of the concepts that have been learnt) See IP-2 for the rules regarding the projects.	8

LCIT PUBLIC SCHOOL

Session 2019-20

Subject - Physical edu. **SPLIT-UP SYLLABUS** **Class – XI**

Pre–Mid term (30 Marks)	Mid–Term (70 Marks theory) + [30practical]	Post–Mid term (30 Marks)	Annual Exam. (70 Marks theory) + [30practical]
Ch. 1 Unit I Changing Trends & Career in Physical Education **Ch. 2** Olympic Value Education	**Ch. 3** Physical Fitness, Wellness & Lifestyle **Ch. 4** Physical Education & Sports for CWSN **Ch. 5** Yoga	**Ch.6** Physical Activity & Leadership Training **Ch. 7** Test, Measurement & Evaluation	**Ch. 1** Unit I Changing Trends & Career in Physical Education **Ch. 2** Olympic Value Education **Ch. 3** Physical Fitness, Wellness & Lifestyle **Ch. 4** Physical Education & Sports for CWSN **Ch. 5** Yoga **Ch.6** Physical Activity & Leadership Training **Ch. 7** Test, Measurement & Evaluation **Ch.8 Fundamentals of Anatomy, Physiology & Kinesiology in Sports** **Ch.9 Psychology & Sports** **Ch.10 Training and Doping in Sports**

30 marks practical

1. Physical Fitness Test - 6 Marks
2. Proficiency in Games and Sports (Skill of any one Game of choice from the given list*)- 7 Marks
3. Yogic Practices - 7 Marks
4. Record File - 5 Marks
5. Viva Voce (Health/ Games & Sports/ Yoga) - 5 Marks

LCIT PUBLIC SCHOOL

Session 2019-20

Subject - English **SPLIT-UP SYLLABUS** **Class – XI**

Pre – Mid term (30 Marks)	Mid – Term (80 Marks)	Post – Mid term (30 Marks)	Annual Exam. (80 Marks)
Horn bill 1. The Portrait of a Lady 2. The photograph **Snapshot** 1. The Tale of Melon City **Writing** 1. Advertisement	**Horn bill** 1. The Portrait of a Lady 2. The photograph 3. The Laburnum top 4. We' re not afraid to die 5. Discovering Tut: the saga 6. The voice of rain 7. The landscape of soul **Snapshot** 1. The Summer of the beautiful white horse 2. The address **Writing** 1. Note–making 2. Precise writing 3. Advertisement	**Horn bill** 1. The ailing planet 2. Childhood 3. The photograph **Snapshot** 1. Albert Einstein at school 2. Ghat of the only world **Writing** Letter writing (job application)	**Horn bill** 1. The Portrait of a Lady 2. The photograph 3. The Laburnum top 4. We' re not afraid to die 5. Discovering Tut: the saga 6. The voice of rain 7. The landscape of soul 8. The ailing Planet 9. Childhood 10. Father to son 11. Silk road 12. Adventure 13. Browning version **Snapshot** 1. The summer of the beautiful white horse 2. The address 3. Ranga' marriage 4. Albert Einstein at school 5. Ghat of the only world 6. The tale of melon city 7. Mothers' day 8. Birth **Writing** 1. Note–making 2. Precise writing 3. Advertisement 4. Letter writing 5. Article writing 6. Poster writing 7. Speech writing 8. Factual description

LCIT PUBLIC SCHOOL

Session 2019-20

Subject - Mathematics **SPLIT-UP SYLLABUS** **Class – XI**

Pre – Mid term (30 Marks)	Mid – Term (80 Marks)	Post – Mid term (30 Marks)	Annual Exam. (80 Marks)
Chapter-1 Sets **Chapter- 2** Relations and Functions	**Chapter-2** Relations and Functions **Chapter-3** Trigonometric Functions **Chapter-4** Principle of Mathematical Induction **Chapter-5** Complex Numbers and Quadratic Equations **Chapter-7** Permutations and Combinations **Chapter-11** Conic Section **Chapter-13** Limits and Derivatives	**Pen and Paper** **Chapter-8** Binomial Theorem **Chapter-9** Sequence and Series **Chapter-10** Straight Lines **Chapter-16** Probability	**Chapter-1** Sets **Chapter- 2** Relations and Functions **Chapter-3** Trigonometric Functions **Chapter-4** Principle of Mathematical Induction **Chapter-5** Complex Numbers and Quadratic Equations **Chapter-6** Linear inequalities **Chapter-7** Permutations and Combinations **Chapter-8** Binomial Theorem **Chapter-9** Sequence and Series **Chapter-10** Straight Lines

			Chapter-11 Conic Section **Chapter-12** Introduction to 3D Geometry **Chapter-13** Limits and Derivatives **Chapter-14** Mathematical Reasoning **Chapter-15** Statistics **Chapter-16** Probability

- **Lab Activities** **10 Marks**

(Record to be maintained)

LCIT PUBLIC SCHOOL

Session 2019-20

Subject - Physics **SPLIT-UP SYLLABUS** **Class – XI**

Pre – Mid term (30 Marks)	Mid – Term (70 Marks)	Post – Mid term (30 Marks)	Pre-Board and Annual Exam. (70 Marks)
Chapter-1 Physical world **Chapter-2** Units and Measurement	**Chapter-1** Physical world **Chapter-2** Units and Measurement **Chapter-3** Motion in a straight line **Chapter-4** Motion in a plane **Chapter-5** Laws of motion **Chapter-6** Work, Energy and Power	**Chapter-7** Motion of system of Particles and Rigid Body **Chapter-8** Gravitation **Chapter-9** Mechanical Properties of solids : Elasticity	**100% Syllabus**

Practical **30 Marks**

LCIT PUBLIC SCHOOL

Session 2019-20

Subject - Chemistry **SPLIT-UP SYLLABUS** **Class – XI**

Pre – Mid term (30 Marks)	Mid – Term (70 Marks)	Post – Mid term (30 Marks)	Pre-Board and Annual Exam. (70 Marks)
Chapter-1 Some Basic Concepts of Chemistry **Chapter-2** Structure of Atom	**Chapter-1** Some Basic Concepts of Chemistry **Chapter-2** Structure of Atom **Chapter-3** Classification of Elements and Periodicity in Properties **Chapter-4** Chemical Bonding and Molecular Structure **Chapter-5** States of Matter: Gases, Liquids & solid state **Chapter-6** Thermodynamics **Chapter-7** Equilibrium	**Chapter-8** Redox Reaction **Chpater-9** Hydrogen **Chapter-10** S-Block Elements	**100% Syllabus**

Practical **30 Marks**

LCIT PUBLIC SCHOOL

Session 2019-20

Subject - Biology **SPLIT-UP SYLLABUS** **Class – XI**

Pre – Mid term (30 Marks)	Mid – Term (70 Marks)	Post – Mid term (30 Marks)	Pre-Board and Annual Exam. (70 Marks)
Chapter-1 THE LIVING WORLD **Chapter-2** BIOLOGICAL CLASSIFICATION **Chapter-3** PLANT KINGDOM **Chapter-4** ANIMAL KINGDOM	**Chapter-1** THE LIVING WORLD **Chapter-2** BIOLOGICAL CLASSIFICATION **Chapter-8** CELL **Chapter-9** BIOMOLECULES **Chapter-5** MORPHOLOGY OF FLOWERING PLANT **Chapter-6** ANATOMY OF FLOWERING PLANT **Chapter-7** STRUCTURAL ORGANISATION IN ANIMALS **Chapter-10** CELL CYCLE AND CELL DIVISION	**Chapter-11** TRANSPORT IN PLANTS **Chapter-12** MINERAL NUTRITION **Chapter-13** PHOTOSYNTHESIS IN HIGHERPLANTS **Chapter-14** RESPIRATION IN PLANTS **Chapter-15** PLANT GROWTH AND DEVELOPMENT **Chapter-21** NEURAL CONTROL AND COORDINATION	**100% Syllabus**

Practical **30 Marks**

LCIT PUBLIC SCHOOL

Session 2019-20

Subject - Computer Science (Sumita Arora & publication Code : 083) **SPLIT-UP SYLLABUS** **Class – XI**

Term 1	
Pre Mid Term	**Mid Term**
1. Programming and Computational Thinking **i)** Familiarization with the basics of Python programming: a simple “hello world" program, process of writing a program, running it, and print statements; simple data-types: integer, float, string. **ii)** Introduce the notion of a variable, and methods to manipulate it (concept of L-value and Rvalue even if not taught explicitly) **iii)** Knowledge of data types and operators: accepting input from the console, assignment statement, expressions, operators and their precedence. □ Conditional statements: if, if-else, if-elif-else; simple programs: e.g.: absolute value, sort 3 numbers, and divisibility. **iv)** Notion of iterative computation and control flow: for, while, flowcharts, decision trees and pseudo code; write a lot of programs: interest calculation, primarily testing, and factorials. **2 .** : **Society, Law and Ethics (SLE-1) - Cyber safety** **i)** Cyber safety: safely browsing the web, identity protection, confidentiality, social networks, cyber trolls and bullying. **ii)** Appropriate usage of social networks: spread of rumours, and common social networking sites (Twitter, LinkedIn, and Facebook) and specific usage rules. **iii)** Safely accessing web sites: adware, malware, viruses, Trojans **iv)** Safely communicating data: secure connections, eavesdropping, phishing and identity verification.	1. **Programming and Computational Thinking(Cont.)** i) Idea of debugging: errors and exceptions; debugging: pdb, break points. ii) Lists, tuples and dictionary: finding the maximum, minimum, mean; linear search on list/tuple of numbers, and counting the frequency of elements in a list using a dictionary. Introduce the notion of accessing elements in a collection using numbers and names. iii) Sorting algorithm: bubble and insertion sort; count the number of operations while sorting. iv) Strings: compare, concat, substring; notion of states and transitions using state transition diagrams. **Including 100%portion of Pre Mid Term**

Term 2	
Post Mid Term	**Annual Examination**
3. Computer Systems and Organisation (CSO) **i)**Basic computer organisation: description of a computer system and mobile system, CPU, memory, hard disk, I/O, battery, power. **ii)**Types of software: application, OS, utility, libraries. **iii)**Types of software: application, OS, utility, libraries. **iv)**Boolean logic: OR, AND, NAND, NOR, XOR, NOT, truth tables, De Morgan's laws **v)**Information representation: numbers in base 2, 8, 16, unsigned integers, binary addition. **vi)**Strings: ASCII, UTF8, UTF32, ISCII (Indian script code) **vii)**Execution of a program: basic flow of compilation – program □ binary □ execution. **viii)**Interpreters (process one line at a time), difference between a compiler and an interpreter. **ix)**Running a program: Notion of an operating system, how an operating system runs a program, idea of loading, operating system as a resource manager. **x)**Concept of cloud computers, cloud storage (public/private), and brief introduction to parallel computing.	**4.Data Management (DM-1)** i) Relational databases: idea of a database and the need for it, relations, keys, primary key, foreign key; use SQL commands to create a table, keys, foreign keys; insert/delete an entry, delete a table. ii) SQL commands: select, project, and join; indexes, and a lot of in- class practice. iv) Basics of NoSQL databases - Mongo DB. **Including 100%portion of Term 1 And Post Mid Term**

S.No.	Unit Name	Marks (Total=30)
1.	**Lab Test (12 marks)**	
	Python program (60% logic + 20% documentation + 20% code quality)	**8**
	SQL program (at least 4 queries)	**4**
2.	**Report File + viva (10 marks)**	
	Report file: Minimum 20 Python programs and 8 SQL commands	**7**
	Viva voce (based on the report file)	**3**
3.	Project (that uses most of the concepts that have been learnt) (See CS-XII for the rules regarding the projects).	**8**

Unit No.	Unit Name	Marks
1.	Programming and Computational Thinking - 1	35
2.	Computer Systems and Organisation	10
3.	Data Management - 1	15
4.	Society, Law and Ethics - 1	10
5.	Practical	30
	Total	100

LCIT PUBLIC SCHOOL

Session 2019-20

Subject: Informatics practice **(Sumita Arora & publication Code : 065)** **Split-Up Syllabus** Class XI

TERM -1	
PRE-MID TERM	MID TERM
1: Programming and Computational Thinking 1. Basic computer organisation: describe a computer system and mobile system, CPU, memory, hard disk, I/O, battery, power, transition from a calculator to a computer. 2. Familiarization with the basics of Python programming: a simple "hello world" program, process of writing a program, running it, and print statements; simple data-types: integer, float, string Introduce the notion of a variable, and methods to manipulate it (concept of L-value and Rvalue even if not taught explicitly) 2.Society, Law and Ethics (SLE-1) – 1- Cyber safety: safely browsing the web, identity protection, confidentiality, social networks, 2-cyber trolls and bullying Appropriate usage of social networks: spread of rumours, and common social networking 3-sites (Twitter, LinkedIn, and Facebook) and specific usage rules. Safely accessing web sites: adware, malware, viruses, Trojans 4- Safely communicating data: secure connections, eavesdropping, and phishing and identity	1: Programming and Computational Thinking 4-Notion of iterative computation and control flow: for, while, flowcharts, decision trees and pseudo code; write a lot of programs: interest calculation, EMI, tax calculation (examples from GST), standard deviation, correlation Lists and dictionary: finding the maximum, minimum, mean; linear search on a list of numbers, and counting the frequency of elements in a list using a dictionary. Text handling: compare, concat, and substring operations.Introduction to Python modules: creating and importing. 1: Programming and Computational Thinking Knowledge of data types and operators: accepting input from the console, assignment statement, expressions, operators and their precedence. Conditional statements: if, if-else, if-elif-else; simple programs: e.g.: absolute value, sort 3 numbers, divisibility. Including 100%portion of Pre Mid Term
(TOPIC WILL COVER FROM CHP-01,CH P-02, CHP-17 AND CHP-18)	**(TOPIC WILL COVER FROM CHP-12,CHP-13,CHP-14,CHP-15 AND CHP-16)**

TERM -2	
POST-MID TERM	ANNUAL EXAM
Data Handling (DH-1) . 1.Introduction to Python Pandas Introduction to data structures in Pandas: Series, and Data Frame 2. Operations on a Series: head, tail, vector operations 3. Data Frame operations: create, display, iteration, select column, add column, delete column 4. Binary operations in a Data Frame: add, sub, mul, div, radd, rsub **Data Management (DM-1)** 1.Relational databases: idea of a database and the need for it, relations, keys, primary key, foreign key; 2. Use SQL commands to create a table, keys, and foreign keys; insert/delete an entry, delete a table. 3. Basic SQL: select, project, and join; indexes, and a lot of in-class practice.	**Data Handling (DH-1)** 5. Matching and broadcasting operations 6. Missing data and filling values. 7. Comparisons, Boolean reductions, comparing Series, and combining Data Frames. 8. Transfer data between CSV files/SQL databases, and Data Frame objects. **Including 100%portion of Term-1 &Post Mid Term**
(TOPIC WILL COVER FROM CHP-03 AND CHP-04)	**(TOPIC WILL COVER FROM CHP-05,CHP-06,CHP-07,CHP-08,CHP-09,CHP-10 AND CHP-11)**

Unit No.	Unit Name	Marks
1.	Programming and Computational Thinking	30
2.	Data Handling - 1	20
3.	Data Management - 1	10
4.	Society, Law and Ethics - 1	10
5.	Practicals	30
	Total	100

S.No.	Unit Name	Marks
1.	Lab Test (12 marks)	
	Python programs to test PCT (60% logic + 20% documentation + 20% code quality)	4
	Python programs to test data handling (same rules as above)	4
	SQL program (at least 4 queries)	4
2.	Report File + viva (10 marks)	
	Report file: Minimum 20 Python programs (PCT + DH) and at least 8 SQL commands	7
	Viva voce (based on the report file)	3
3.	Project (that uses most of the concepts that have been learnt) See IP-2 for the rules regarding the projects.	8

LCIT PUBLIC SCHOOL

Session 2019-20

Subject - Physical edu. **SPLIT-UP SYLLABUS** **Class – XI**

Pre–Mid term (30 Marks)	**Mid–Term (70 Marks theory) + [30practical]**	**Post–Mid term (30 Marks)**	**Annual Exam. (70 Marks theory) + [30practical]**
Ch. 1 Unit I Changing Trends & Career in Physical Education **Ch. 2** Olympic Value Education	**Ch. 3** Physical Fitness, Wellness & Lifestyle **Ch. 4** Physical Education & Sports for CWSN **Ch. 5** Yoga	**Ch.6** Physical Activity & Leadership Training **Ch. 7** Test, Measurement & Evaluation	**Ch. 1** Unit I Changing Trends & Career in Physical Education **Ch. 2** Olympic Value Education **Ch. 3** Physical Fitness, Wellness & Lifestyle **Ch. 4** Physical Education & Sports for CWSN **Ch. 5** Yoga **Ch.6** Physical Activity & Leadership Training **Ch. 7** Test, Measurement & Evaluation **Ch.8 Fundamentals of Anatomy, Physiology & Kinesiology in Sports** **Ch.9 Psychology & Sports** **Ch.10 Training and Doping in Sports**

30 marks practical

1. Physical Fitness Test - 6 Marks
2. Proficiency in Games and Sports (Skill of any one Game of choice from the given list*)- 7 Marks
3. Yogic Practices - 7 Marks
4. Record File - 5 Marks
5. Viva Voce (Health/ Games & Sports/ Yoga) - 5 Marks